



## KL CYC L

Photometric &  
Chromaticity Test Reports



# CONTENTS

<b>Testing Procedures.....</b>	<b>3</b>
<b>Photometric Output Reports .....</b>	<b></b>
<b>Standard Lens.....</b>	<b>4</b>
Full Output .....	4
2700K .....	6
3200K.....	8
4500K.....	10
5600K.....	12
6000K.....	14
6500K.....	16
7500K.....	18
8500K.....	20
<b>No Lens .....</b>	<b>22</b>
Full Output .....	22
<b>Color Quality Reports .....</b>	<b>24</b>
Full Output .....	24
2700K .....	26
3200K.....	28
4500K.....	30
5600K.....	32
6000K.....	34
6500K.....	36
7500K.....	38
8500K.....	40
<b>LED Color Information Reports .....</b>	<b>42</b>
RED .....	42
GREEN .....	43
BLUE .....	44
MINT.....	45
AMBER.....	46

# Testing Process

## Total Lumen Measurements

Lumens are measured using a Viso Systems Lab Spion. As a goniophotometer, the Viso calculates the field lumens of the fixture by taking multiple measurements across the light beam.

Many lumens figures provided for entertainment lighting fixtures are only  $2\pi$  sphere values, some even emphasize the LED engine lumens. All Elation product photometric data is the actual light output from the fixture lens, never a theoretical value based on calculation or using the source lumens as the fixtures output. We advise to always compare total fixture lumens acquired with identical measurement systems when comparing lighting fixtures.

## Test Lab Equipment and Process

Elation operates an optical testing laboratory at its Los Angeles, CA headquarters to provide accurate photometric data for its lighting products. The testing lab is both light and climate- controlled and contains a variety of precise lighting measurement systems. Fixtures are analyzed with the sophisticated [Viso Systems Lab Spion](#) equipment, which measures all light and color parameters by panning the light beam at a precise speed and from different angles through a calibrated, laser aligned light and color sensor. Test data is collected and summarized by the Viso Light Inspector software. This type of measurement system is referred to as a Goniophotometer.

The Viso software calculates all relevant types of measurements, from beam angles, candela to center light intensity at a variety of distances to the latest color quality measurements like TM30 or CQS as well as accurate color temperature. This wealth of data is then processed by an Elation specific template which is included in the photometric test report for various fixture conditions such as zoom angles and color correction filters.

The Viso software also creates IES (Illuminating Engineering Society) files for each test report. IES is an industry standard file format created for the easy electronic transfer of photometric test data, which is widely used by lighting manufacturers for photometric data distribution.

Additionally, fixtures are periodically rechecked for accuracy using various hand-held light meters including one or more of the devices listed below. This is done to ensure the test data contained in this report is as accurate as possible.

[Asenstek Lighting Passport](#) | [Konica Minolta T-10](#) | [Sekonic C800U](#)

©2023 ELATION PROFESSIONAL all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. ELATION PROFESSIONAL logo and identifying product names and numbers herein are trademarks of ELATION PROFESSIONAL. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non-ELATION brands and product names are trademarks or registered trademarks of their respective companies.

**Elation Professional USA** | 6122 S. Eastern Ave. | Los Angeles, CA. 90040  
323-582-3322 | 323-832-9142 fax | [www.elationlighting.com](http://www.elationlighting.com) | [info@elationlighting.com](mailto:info@elationlighting.com)

**Elation Professional B.V.** | Junostraat 2 | 6468 EW Kerkrade, The Netherlands  
+31 45 546 85 66 | +31 45 546 85 96 fax | [www.elationlighting.eu](http://www.elationlighting.eu) | [info@elationlighting.eu](mailto:info@elationlighting.eu)

**Elation Professional Mexico** | AV Santa Ana 30 | Parque Industrial Lerma, Lerma, Mexico 52000  
+52 (728) 282-7070

### Key Measurements

#### Output

Total Lumen Output: 7598 lm  
Peak Intensity: 6131 cd

#### Beam

Beam Angle (50%): 88.5° x 37.3°  
Field Angle (10%): 160.2° x 84.5°  
Cutoff Angle (2.5%): 171.5° x 120.4°

#### Color

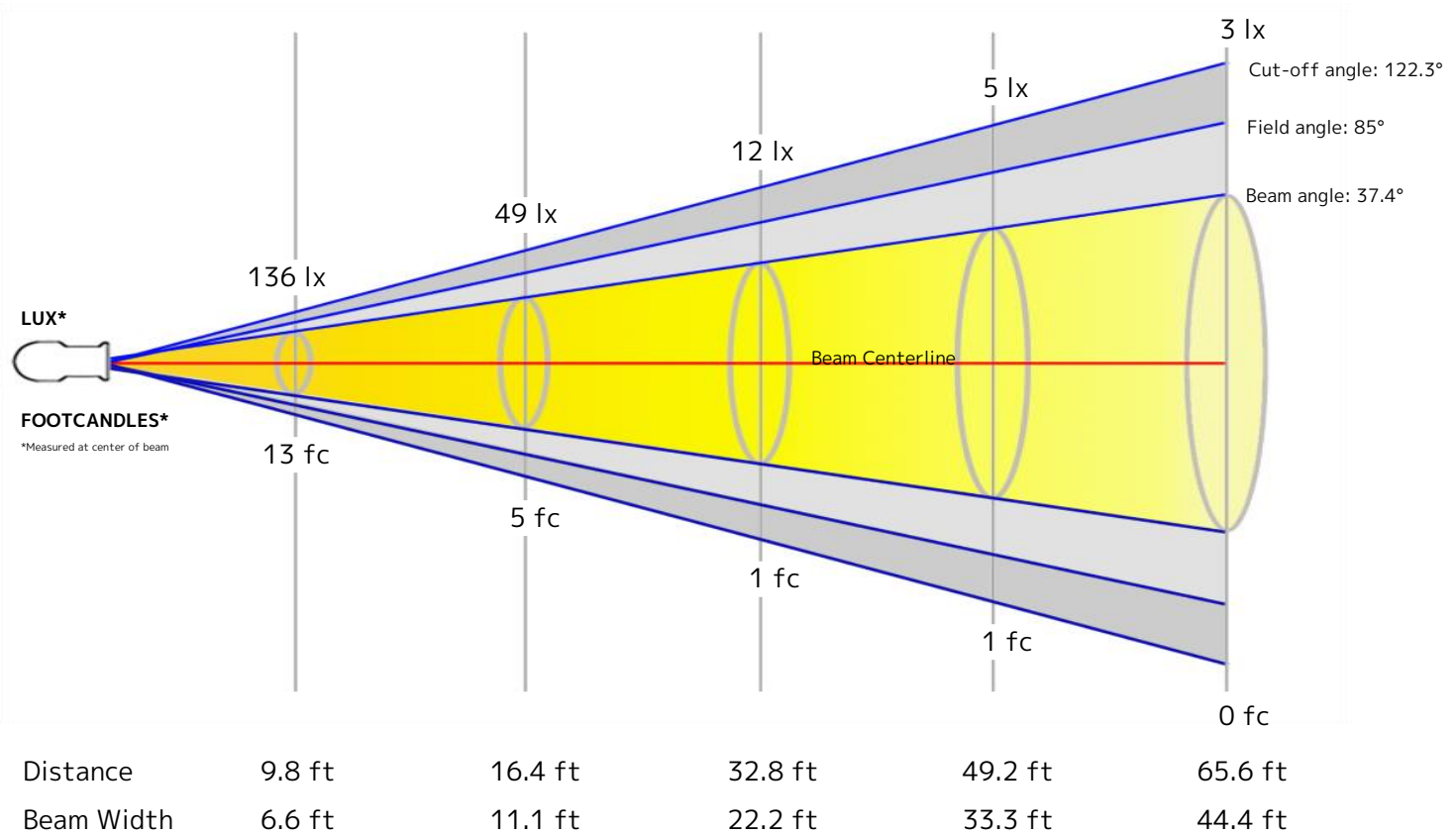
Color Temperature: 5838 K  
CRI: 92.7  
TLCI: 86  
TM30 R<sub>F</sub>: 92.0  
TM30 R<sub>g</sub>: 103.7

#### Power Details

Efficacy: 50 Lumen/Watt  
Power: 153 W  
Supply Voltage: 117 V  
Current: - A

### Beam Details

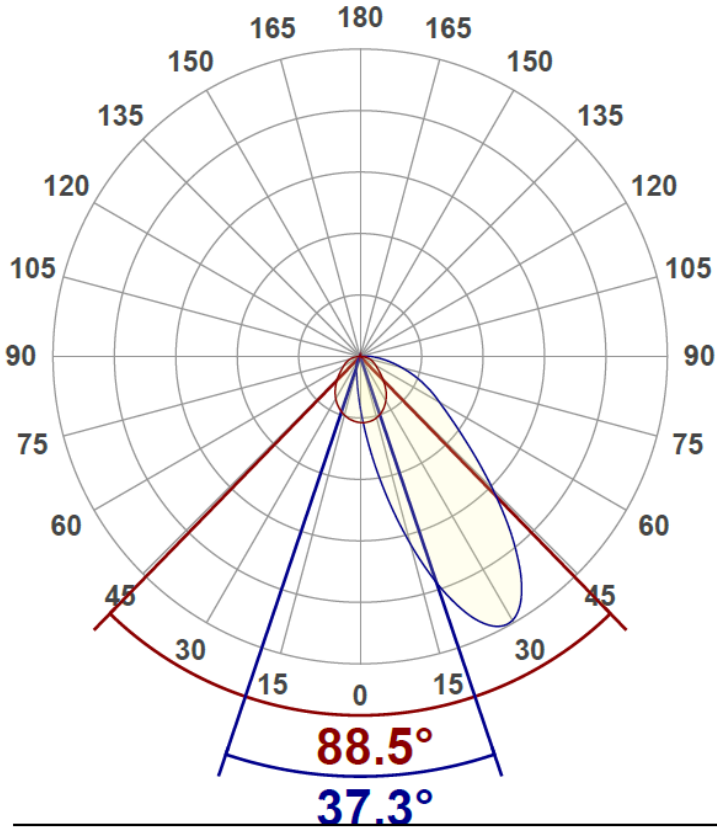
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	m	3.4 m	6.8 m	10.2 m	13.5 m



### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>LX</b>	1221	305	136	76	49	34	25	19	15	12	10	8	7	6	5	5	4	4	3	3
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>FC</b>	113.4	28.4	12.6	7.1	4.5	3.2	2.3	1.8	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.3	0.3

### Angular Distribution



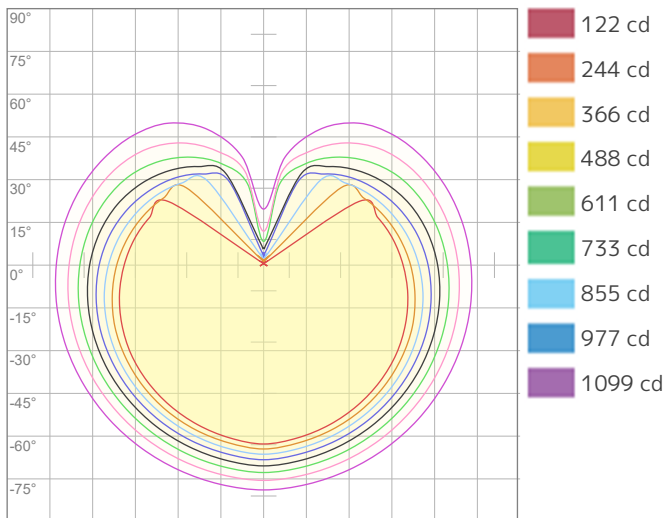
#### 0° Plane

Beam Angle - 50%	88.5°
Field Angle - 10%	160.2°
Cutoff Angle - 2.5%	171.5°

#### 90° Plane

Beam Angle - 50%	37.3°
Field Angle - 10%	84.5°
Cutoff Angle - 2.5%	120.4°

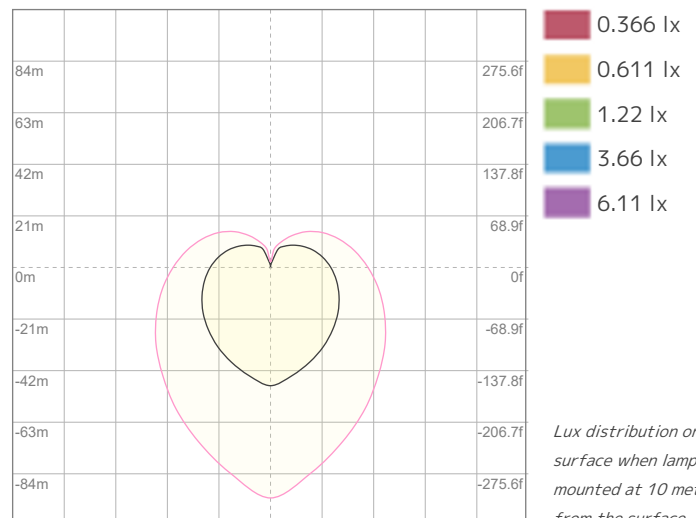
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 1221 cd



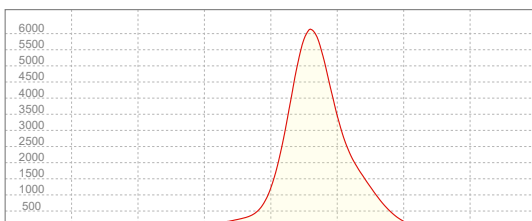
ISO LUX Diagram

Conditions:

Number of c-planes: 2  
LUX at center: 12.2 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

### Linear Distribution



**Peak Candela**  
**6131 cd**

**Calculate Center Beam Intensities**

$$\text{lux} = 6131 / \text{distance(m)}^2$$

$$\text{fc} = 6131 / \text{distance(ft)}^2$$

### Key Measurements

#### Output

Total Lumen Output: 7388 lm  
Peak Intensity: 5760 cd

#### Beam

Beam Angle (50%): 88.5° x 37.3°  
Field Angle (10%): 160.2° x 84.5°  
Cutoff Angle (2.5%): 171.5° x 120.4°

#### Color

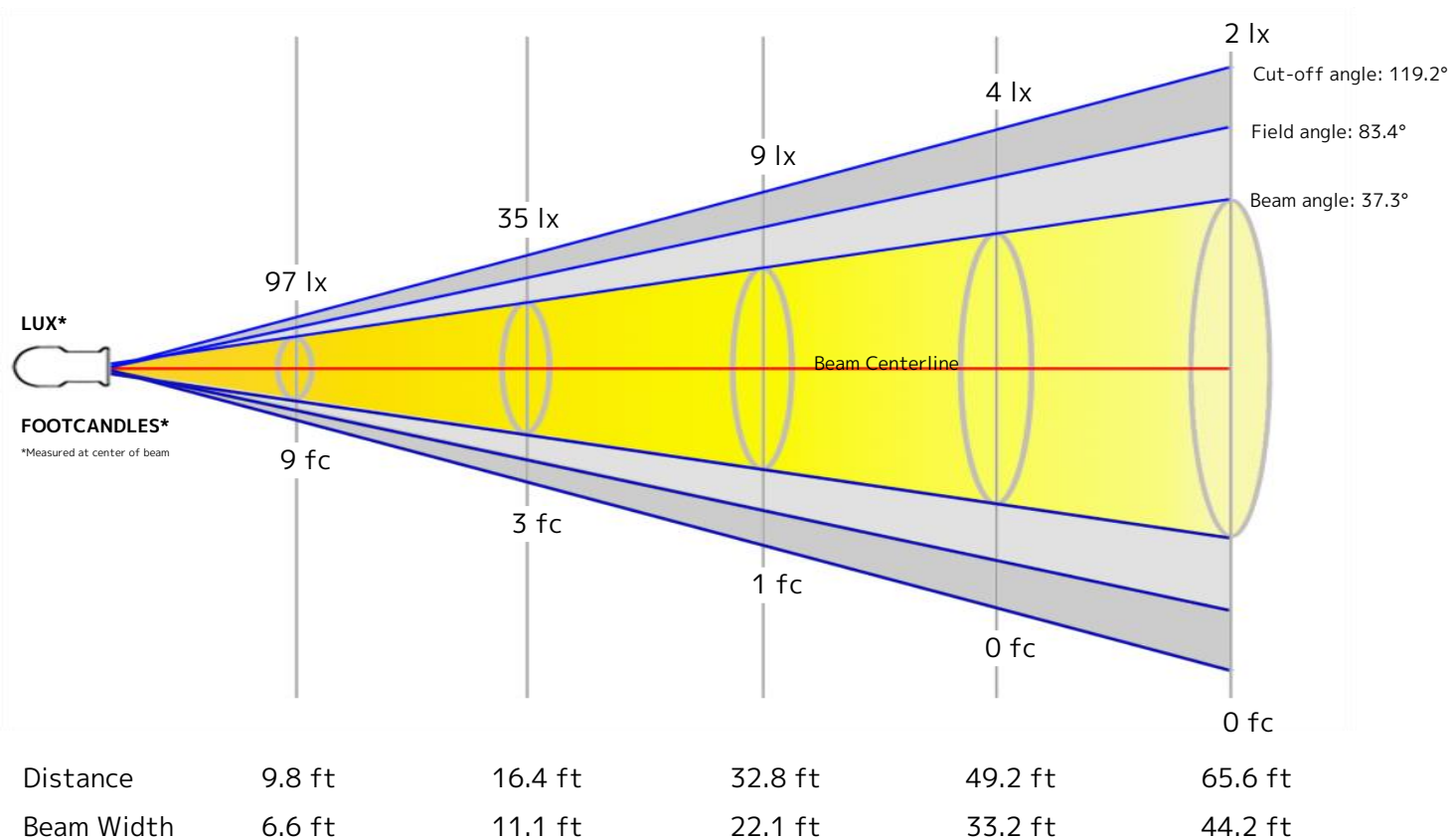
Color Temperature: 2437 K  
CRI: 96.5  
TLCI: 82  
TM30 R<sub>F</sub>: 93.1  
TM30 R<sub>g</sub>: 103.3

#### Power Details

Efficacy: 51 Lumen/Watt  
Power: 145 W  
Supply Voltage: 118 V  
Current: - A

### Beam Details

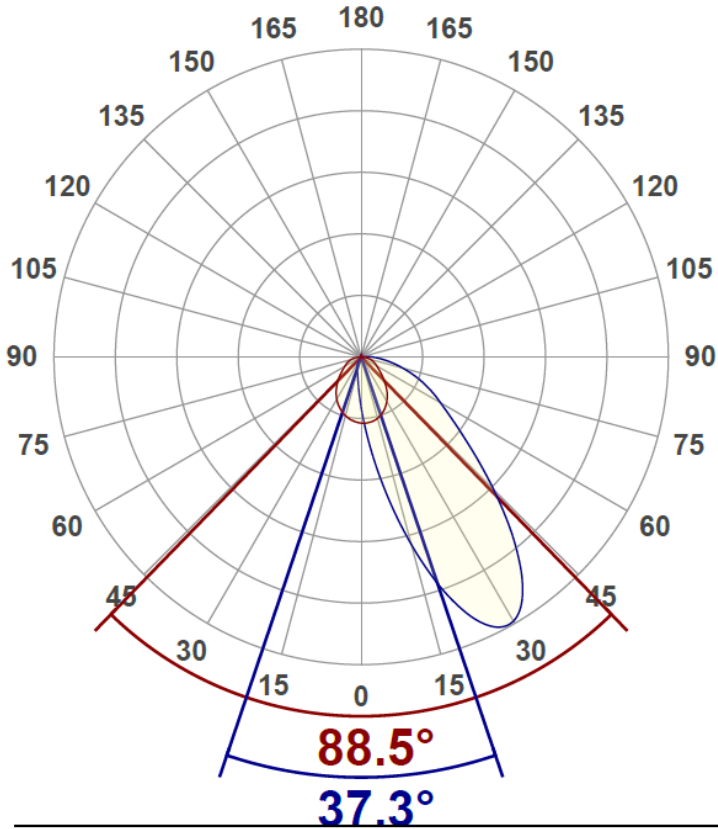
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	m	3.4 m	6.7 m	10.1 m	13.5 m



### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>LX</b>	874	219	97	55	35	24	18	14	11	9	7	6	5	4	4	3	3	3	2	2
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>FC</b>	81.2	20.3	9	5.1	3.2	2.3	1.7	1.3	1	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2

### Angular Distribution



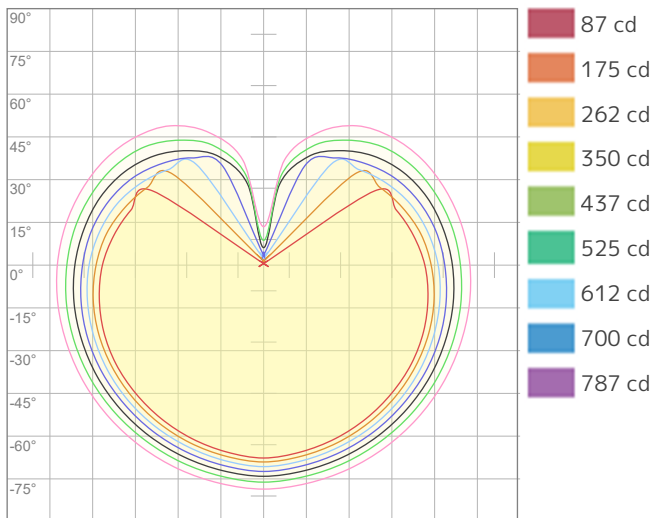
#### 0° Plane

Beam Angle - 50%
88.5°
Field Angle - 10%
160.2°
Cutoff Angle - 2.5%
171.5°

#### 90° Plane

Beam Angle - 50%
37.3°
Field Angle - 10%
84.5°
Cutoff Angle - 2.5%
120.4°

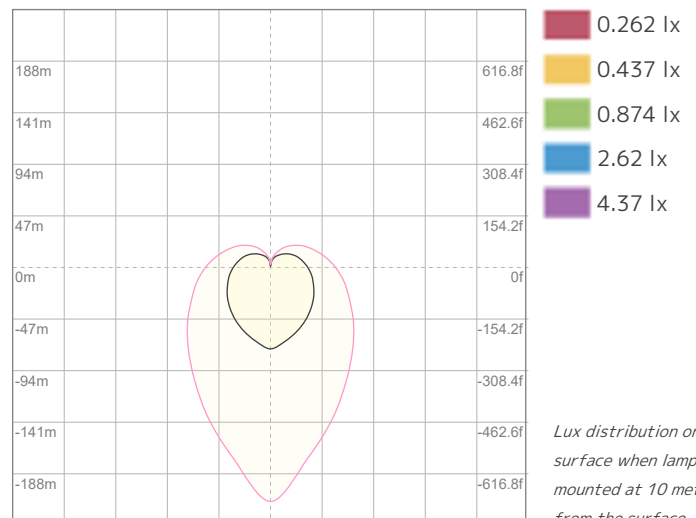
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 874 cd



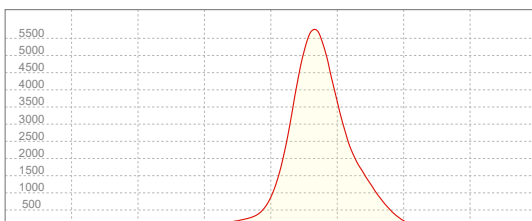
ISO LUX Diagram

Conditions:

Number of c-planes: 2  
LUX at center: 8.74 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

### Linear Distribution



Peak Candela  
**5760 cd**

Calculate Center Beam Intensities

$$\text{lux} = 5760 / \text{distance(m)}^2$$

$$\text{fc} = 5760 / \text{distance(ft)}^2$$

### Key Measurements

#### Output

Total Lumen Output: 7216 lm  
Peak Intensity: 5489 cd

#### Beam

Beam Angle (50%): 88.5° x 37.3°  
Field Angle (10%): 160.2° x 84.5°  
Cutoff Angle (2.5%): 171.5° x 120.4°

#### Color

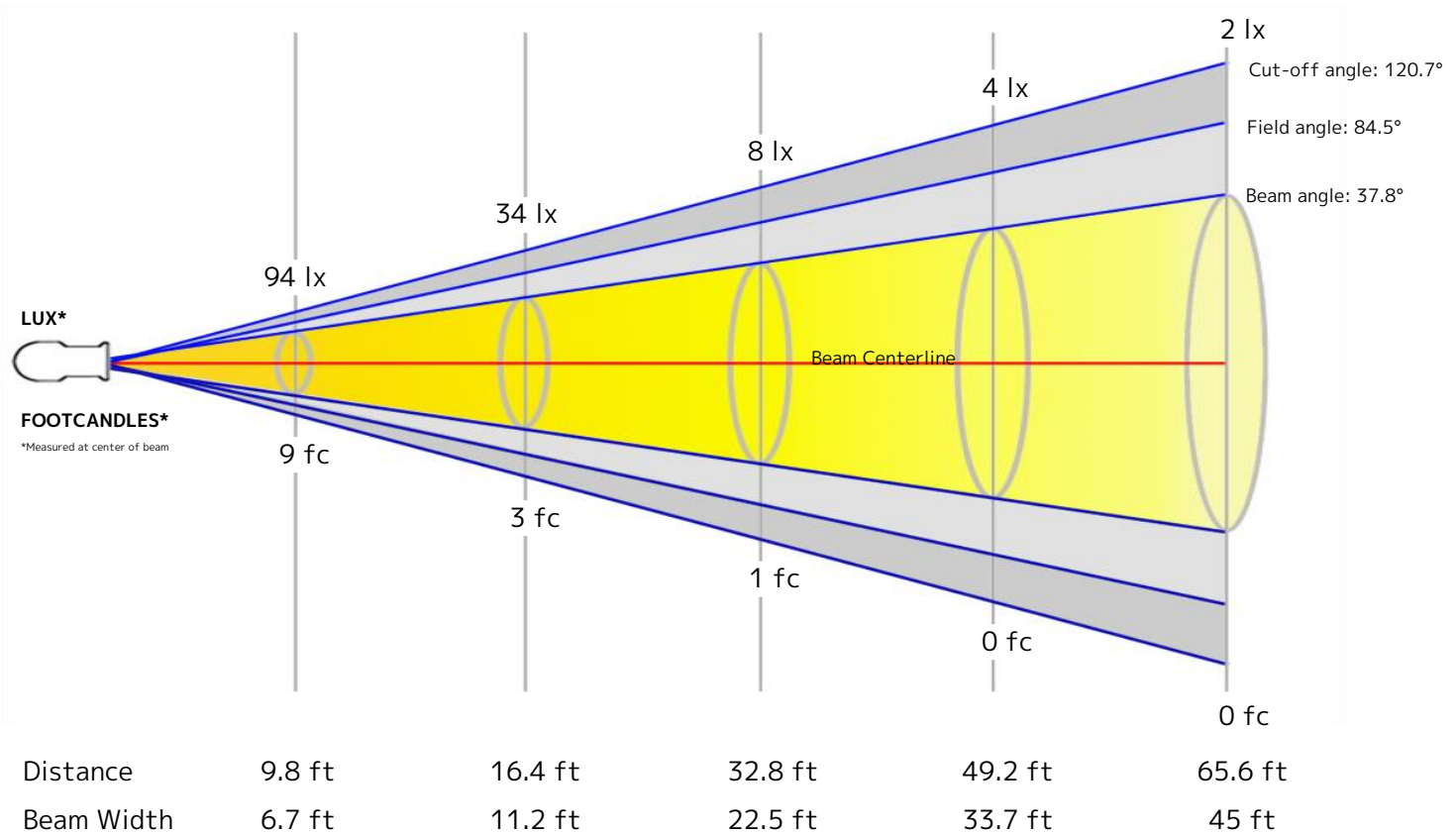
Color Temperature: 3213 K  
CRI: 96.2  
TLCI: 86  
TM30 R<sub>F</sub>: 93.3  
TM30 R<sub>g</sub>: 104.0

#### Power Details

Efficacy: 49 Lumen/Watt  
Power: 148 W  
Supply Voltage: 118 V  
Current: - A

### Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.4 m	6.9 m	10.3 m	13.7 m

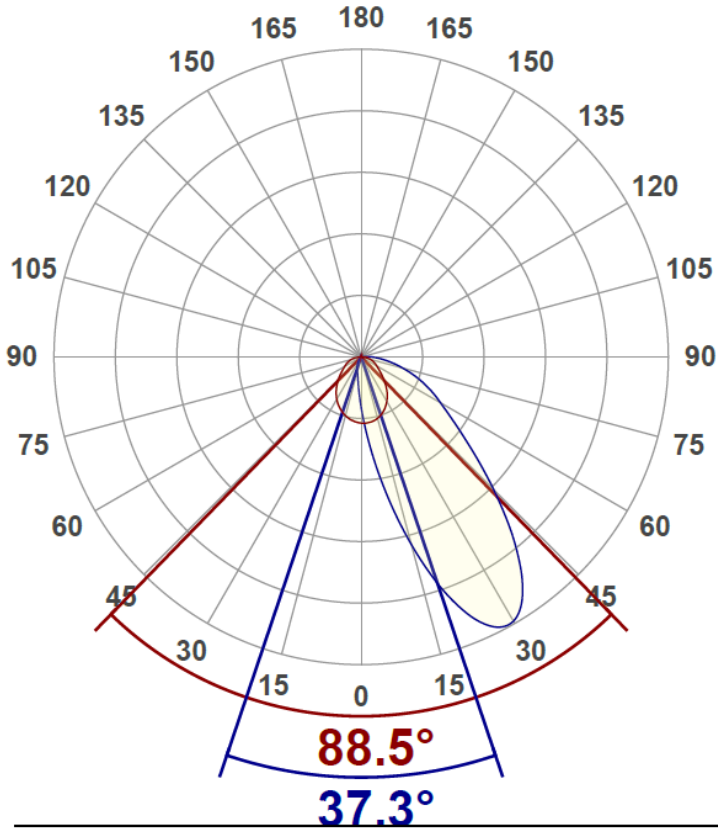


### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>LX</b>	843	211	94	53	34	23	17	13	10	8	7	6	5	4	4	3	3	3	2	2
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>FC</b>	78.3	19.6	8.7	4.9	3.1	2.2	1.6	1.2	1	0.8	0.6	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2



### Angular Distribution



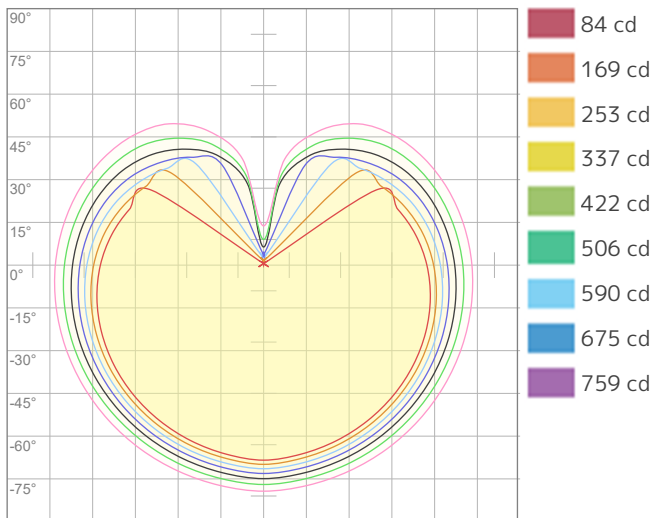
#### 0° Plane

Beam Angle - 50%
88.5°
Field Angle - 10%
160.2°
Cutoff Angle - 2.5%
171.5°

#### 90° Plane

Beam Angle - 50%
37.3°
Field Angle - 10%
84.5°
Cutoff Angle - 2.5%
120.4°

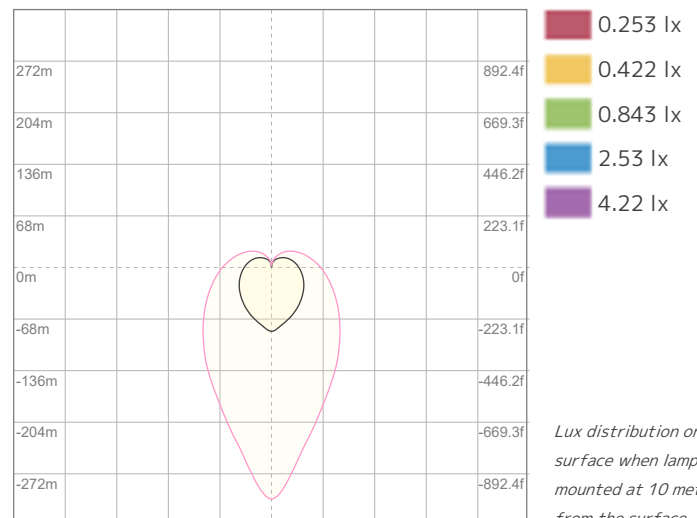
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 843 cd



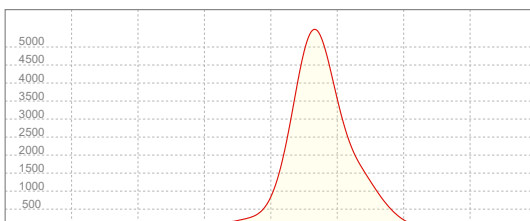
ISO LUX Diagram

Conditions:

Number of c-planes: 2  
LUX at center: 8.43 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

### Linear Distribution



**Peak Candela**  
**5489 cd**

Calculate Center Beam Intensities

$$\text{lux} = 5489 / \text{distance(m)}^2$$

$$\text{fc} = 5489 / \text{distance(ft)}^2$$

### Key Measurements

#### Output

Total Lumen Output: 6760 lm  
Peak Intensity: 5205 cd

#### Beam

Beam Angle (50%): 88.5° x 37.3°  
Field Angle (10%): 160.2° x 84.5°  
Cutoff Angle (2.5%): 171.5° x 120.4°

#### Color

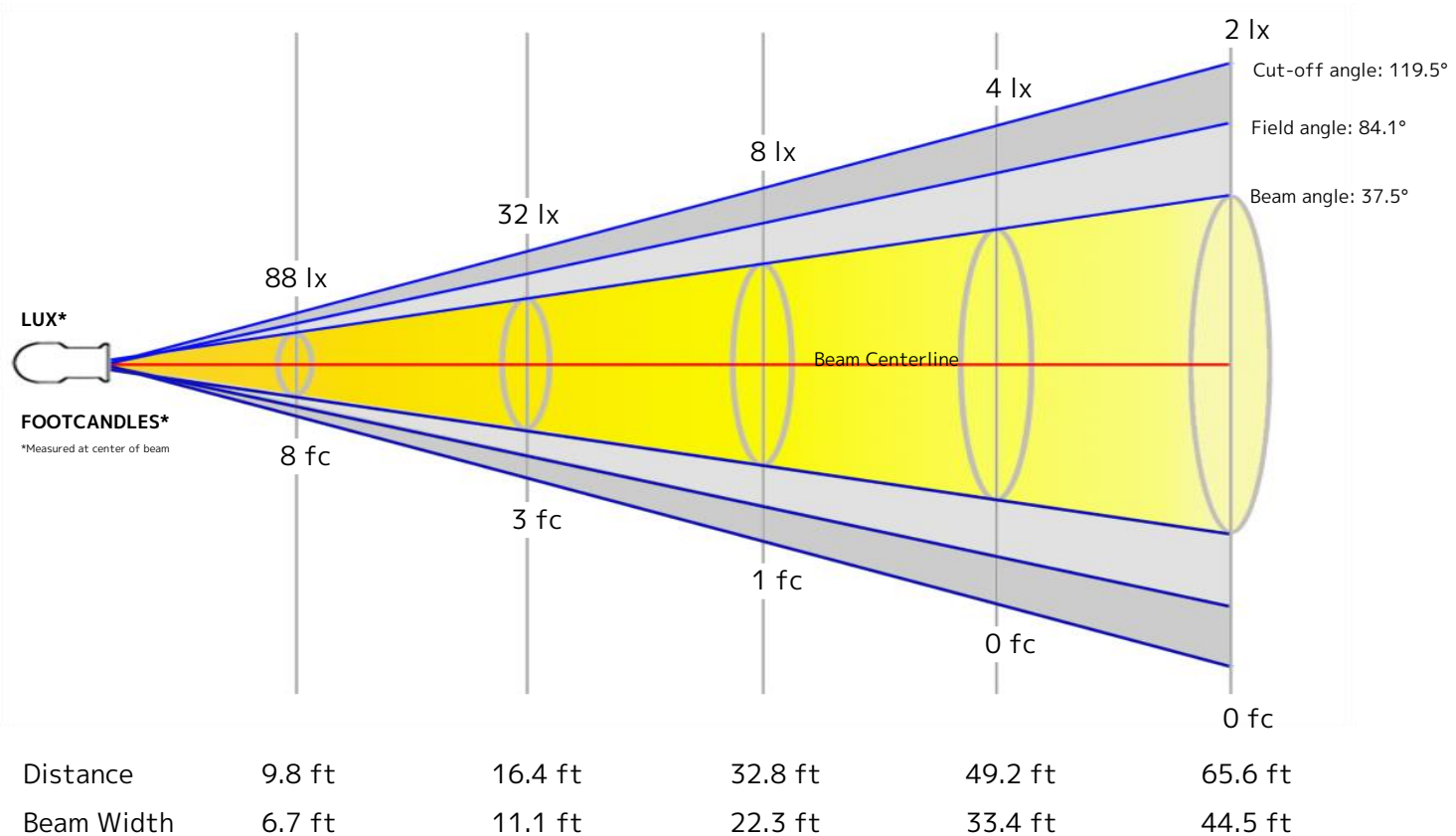
Color Temperature: 4530 K  
CRI: 94.9  
TLCI: 84  
TM30 R<sub>F</sub>: 92.5  
TM30 R<sub>g</sub>: 105.3

#### Power Details

Efficacy: 44 Lumen/Watt  
Power: 152 W  
Supply Voltage: 117 V  
Current: - A

### Beam Details

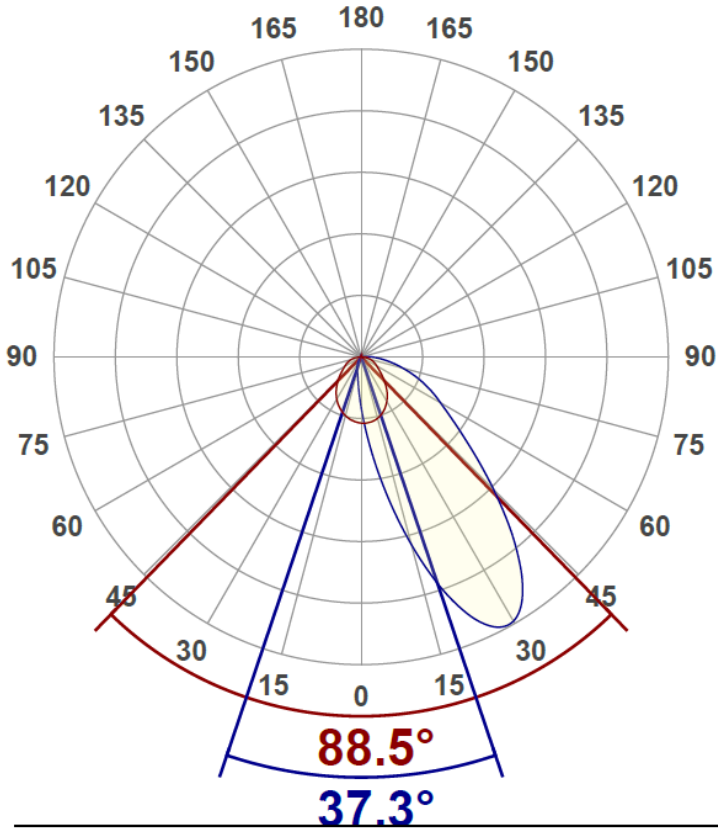
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	m	3.4 m	6.8 m	10.2 m	13.6 m



### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>LX</b>	794	199	88	50	32	22	16	12	10	8	7	6	5	4	4	3	3	2	2	2
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>FC</b>	73.8	18.4	8.2	4.6	3	2	1.5	1.2	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2

### Angular Distribution



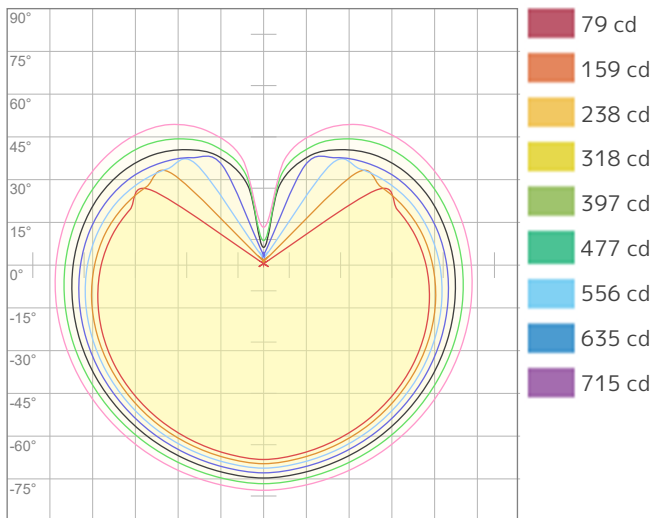
#### 0° Plane

Beam Angle - 50%	88.5°
Field Angle - 10%	160.2°
Cutoff Angle - 2.5%	171.5°

#### 90° Plane

Beam Angle - 50%	37.3°
Field Angle - 10%	84.5°
Cutoff Angle - 2.5%	120.4°

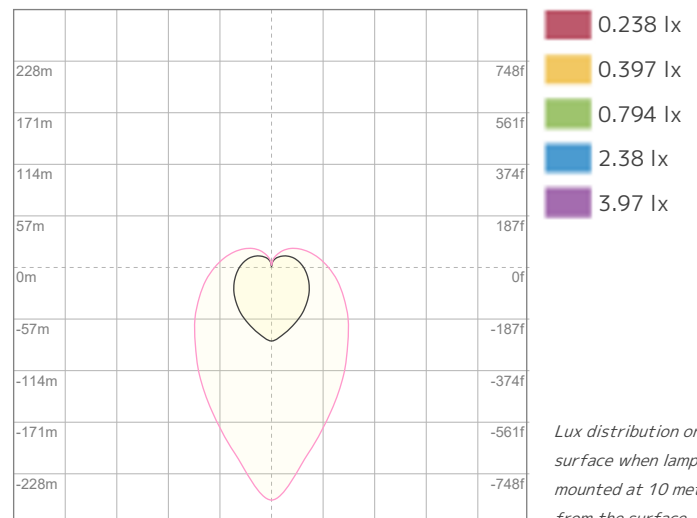
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 794 cd



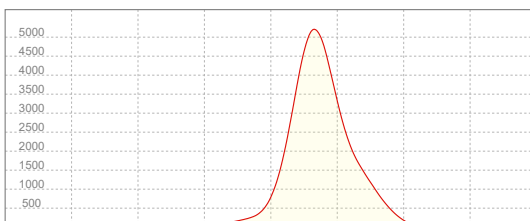
ISO LUX Diagram

Conditions:

Number of c-planes: 2  
LUX at center: 7.94 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

### Linear Distribution



**Peak Candela**  
**5205 cd**

**Calculate Center Beam Intensities**

$$\text{lux} = 5205 / \text{distance(m)}^2$$

$$\text{fc} = 5205 / \text{distance(ft)}^2$$

### Key Measurements

#### Output

Total Lumen Output: 6728 lm  
Peak Intensity: 5131 cd

#### Beam

Beam Angle (50%): 88.5° x 37.3°  
Field Angle (10%): 160.2° x 84.5°  
Cutoff Angle (2.5%): 171.5° x 120.4°

#### Color

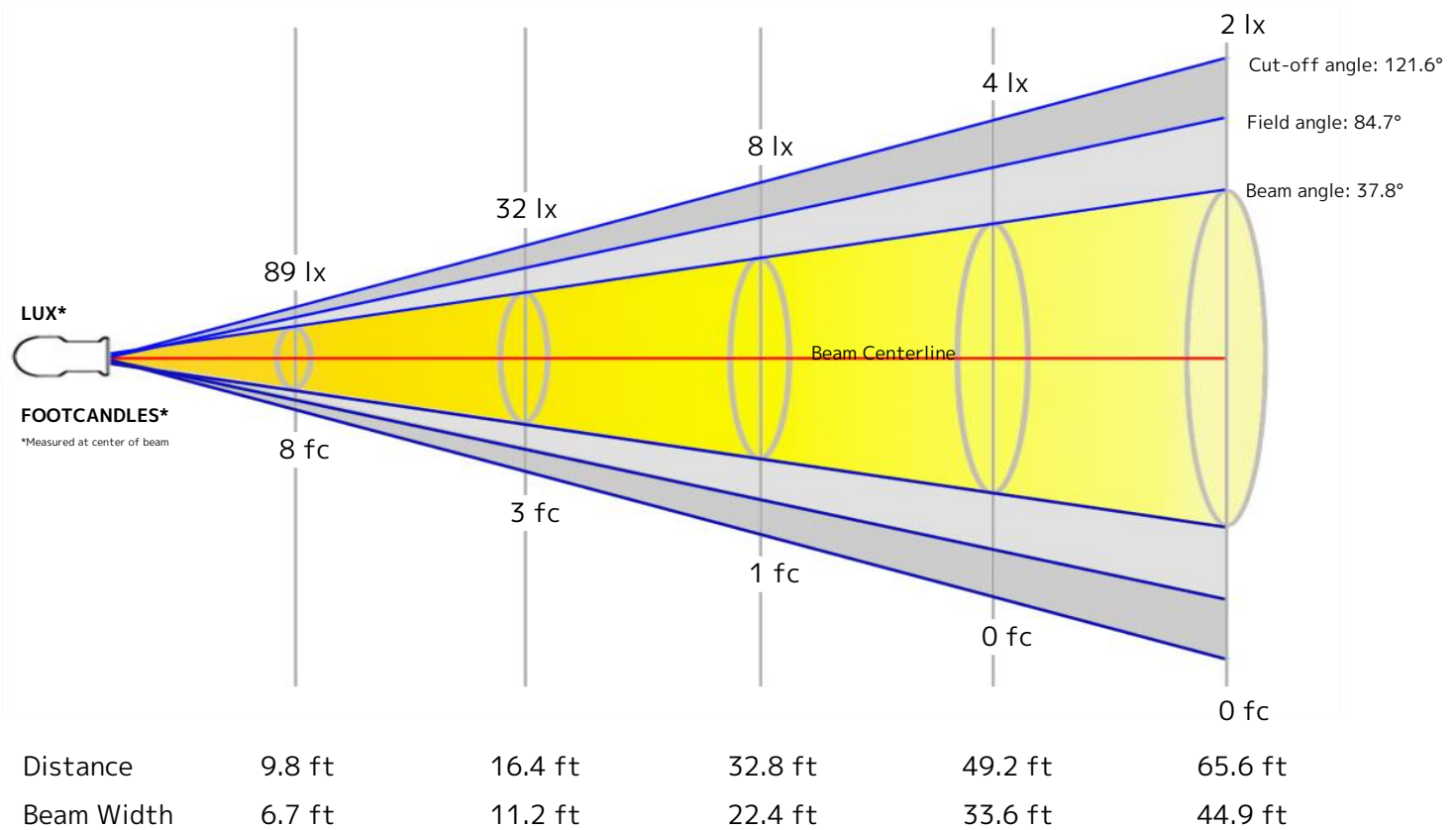
Color Temperature: 5612 K  
CRI: 93.5  
TLCI: 86  
TM30 R<sub>F</sub>: 91.3  
TM30 R<sub>g</sub>: 105.2

#### Power Details

Efficacy: 43 Lumen/Watt  
Power: 155 W  
Supply Voltage: 117 V  
Current: - A

### Beam Details

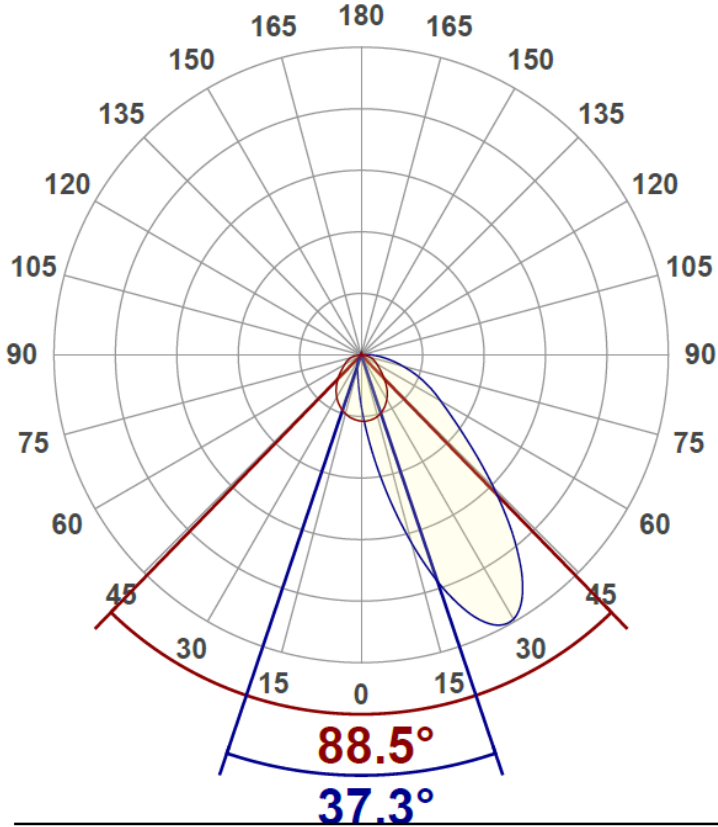
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.4 m	6.8 m	10.3 m	13.7 m



### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>LX</b>	802	200	89	50	32	22	16	13	10	8	7	6	5	4	4	3	3	2	2	2
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>FC</b>	74.5	18.6	8.3	4.7	3	2.1	1.5	1.2	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2

### Angular Distribution



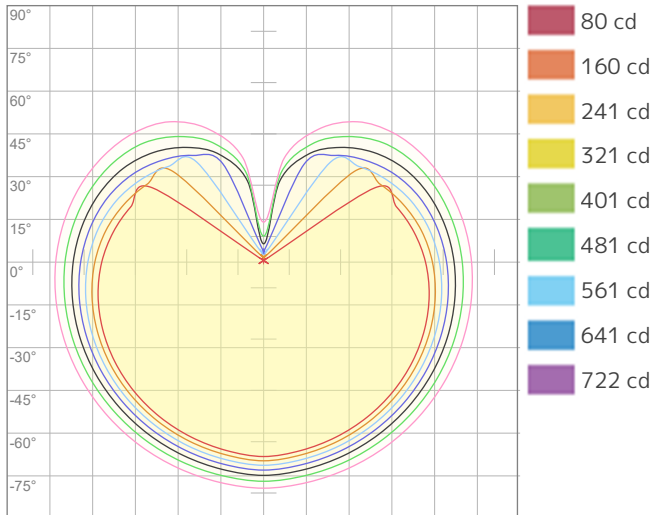
#### 0° Plane

Beam Angle - 50%
88.5°
Field Angle - 10%
160.2°
Cutoff Angle - 2.5%
171.5°

#### 90° Plane

Beam Angle - 50%
37.3°
Field Angle - 10%
84.5°
Cutoff Angle - 2.5%
120.4°

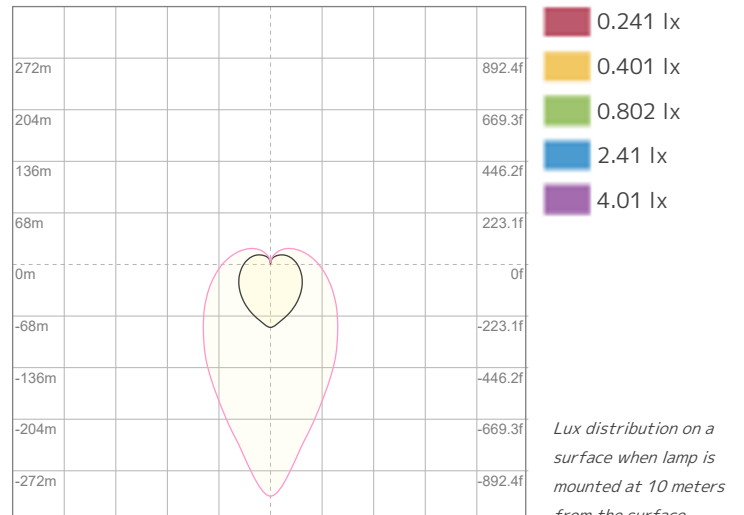
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 802 cd



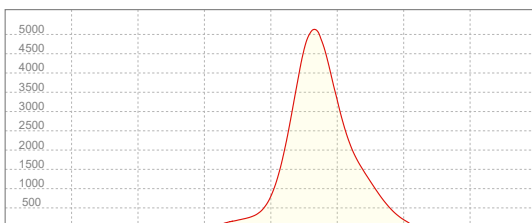
ISO LUX Diagram

Conditions:

Number of c-planes: 2  
LUX at center: 8.02 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

### Linear Distribution



**Peak Candela**  
**5131 cd**

Calculate Center Beam Intensities

$$\text{lux} = 5131 / \text{distance(m)}^2$$

$$\text{fc} = 5131 / \text{distance(ft)}^2$$

### Key Measurements

#### Output

Total Lumen Output: 6621 lm  
Peak Intensity: 5064 cd

#### Beam

Beam Angle (50%): 88.5° x 37.3°  
Field Angle (10%): 160.2° x 84.5°  
Cutoff Angle (2.5%): 171.5° x 120.4°

#### Color

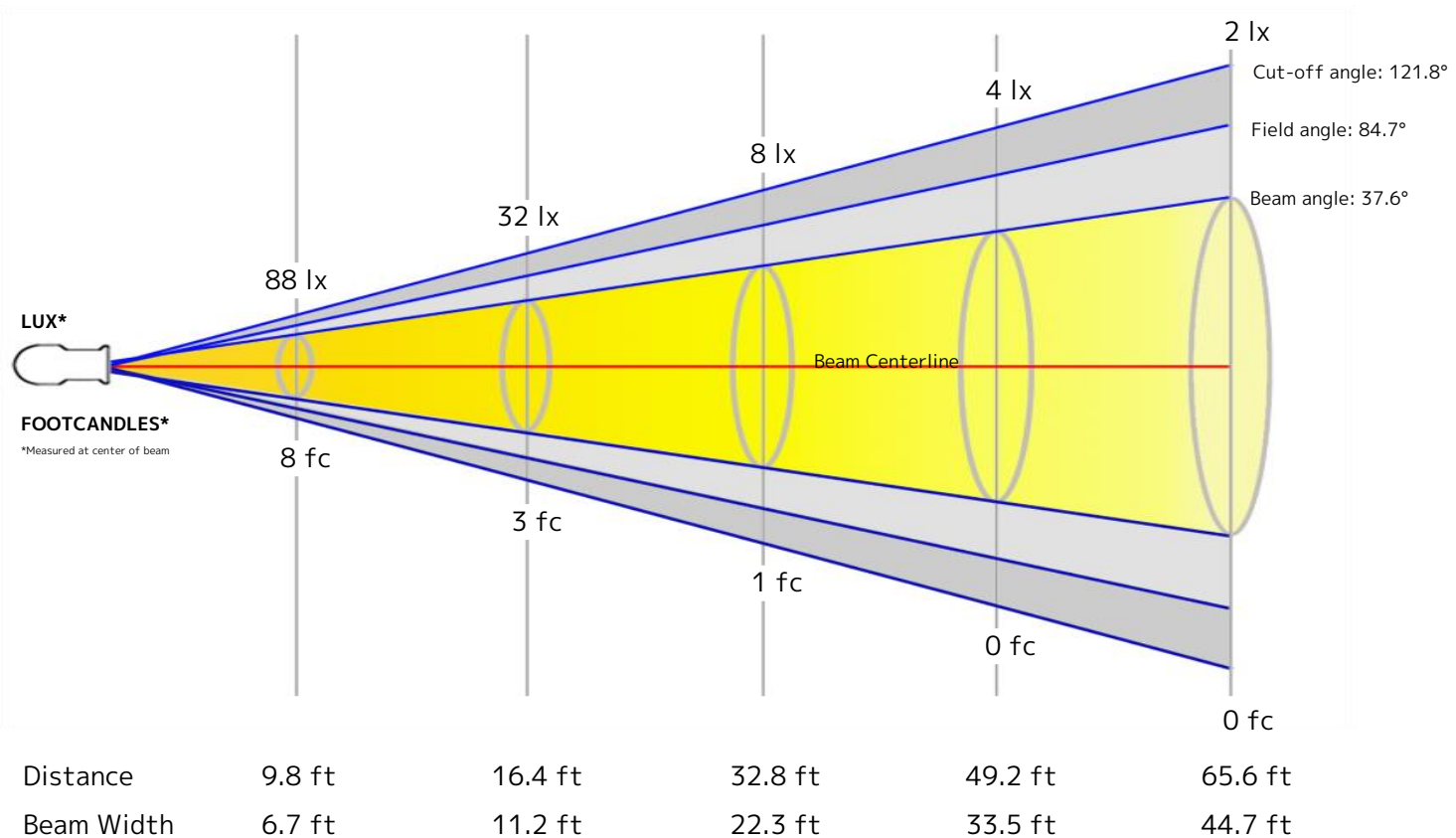
Color Temperature: 6032 K  
CRI: 93.2  
TLCI: 87  
TM30 R<sub>F</sub>: 91.4  
TM30 R<sub>g</sub>: 105.5

#### Power Details

Efficacy: 43 Lumen/Watt  
Power: 154 W  
Supply Voltage: 117 V  
Current: - A

### Beam Details

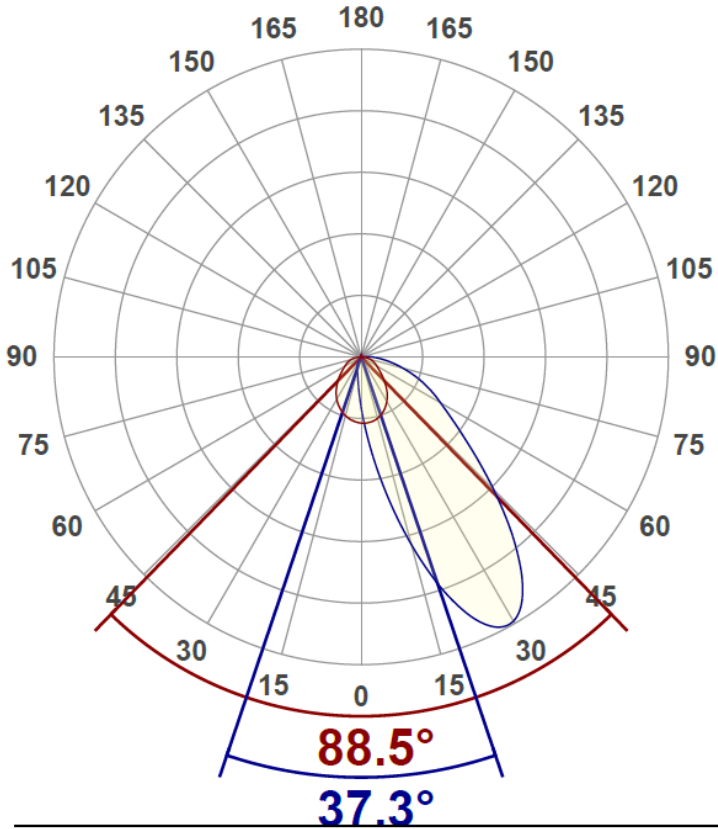
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	m	3.4 m	6.8 m	10.2 m	13.6 m



### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>LX</b>	789	197	88	49	32	22	16	12	10	8	7	5	5	4	4	3	3	2	2	2
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>FC</b>	73.3	18.3	8.1	4.6	2.9	2	1.5	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2

### Angular Distribution



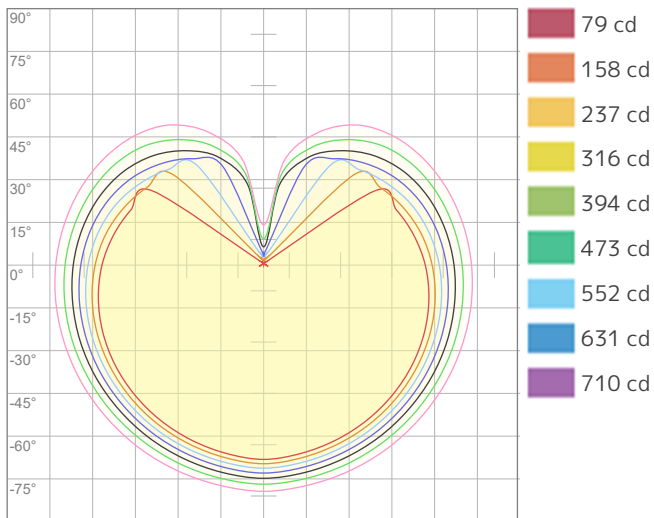
#### 0° Plane

Beam Angle - 50%
88.5°
Field Angle - 10%
160.2°
Cutoff Angle - 2.5%
171.5°

#### 90° Plane

Beam Angle - 50%
37.3°
Field Angle - 10%
84.5°
Cutoff Angle - 2.5%
120.4°

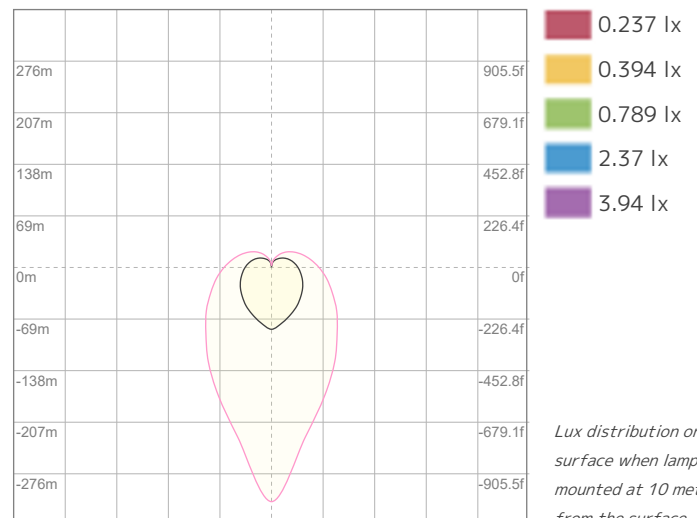
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 789 cd



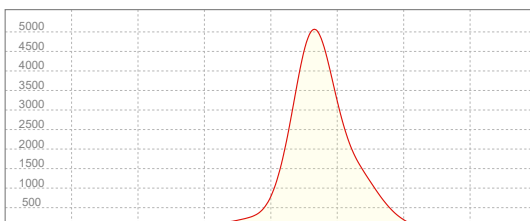
ISO LUX Diagram

Conditions:

Number of c-planes: 2  
LUX at center: 7.89 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

### Linear Distribution



**Peak Candela**  
**5064 cd**

**Calculate Center Beam Intensities**

$$\text{lux} = 5064 / \text{distance(m)}^2$$

$$\text{fc} = 5064 / \text{distance(ft)}^2$$

### Key Measurements

#### Output

Total Lumen Output: 6498 lm  
Peak Intensity: 4990 cd

#### Beam

Beam Angle (50%): 88.5° x 37.3°  
Field Angle (10%): 160.2° x 84.5°  
Cutoff Angle (2.5%): 171.5° x 120.4°

#### Color

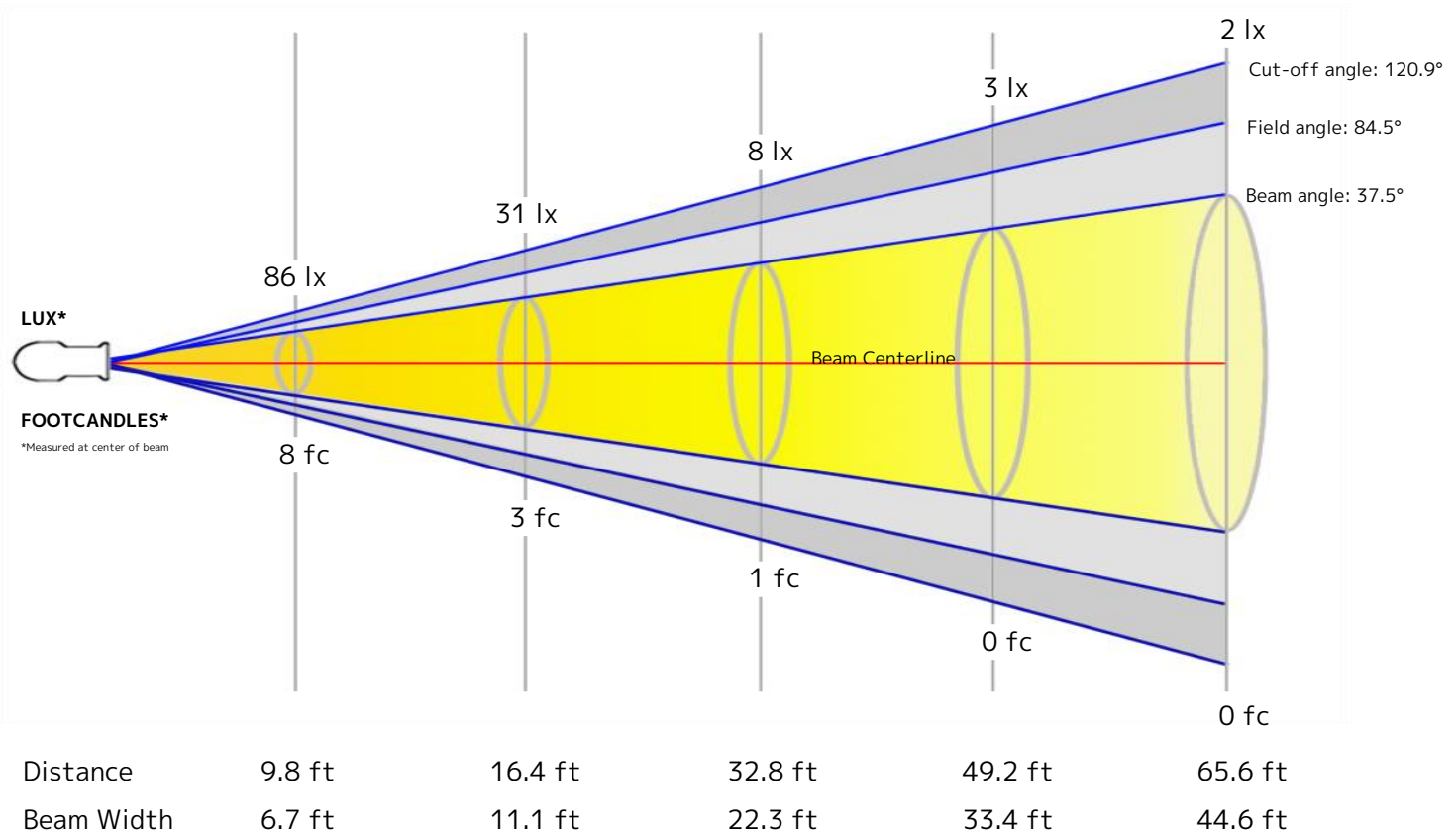
Color Temperature: 6500 K  
CRI: 93.0  
TLCI: 87  
TM30 R<sub>F</sub>: 91.1  
TM30 R<sub>g</sub>: 105.2

#### Power Details

Efficacy: 42 Lumen/Watt  
Power: 153 W  
Supply Voltage: 117 V  
Current: - A

### Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	m	3.4 m	6.8 m	10.2 m	13.6 m

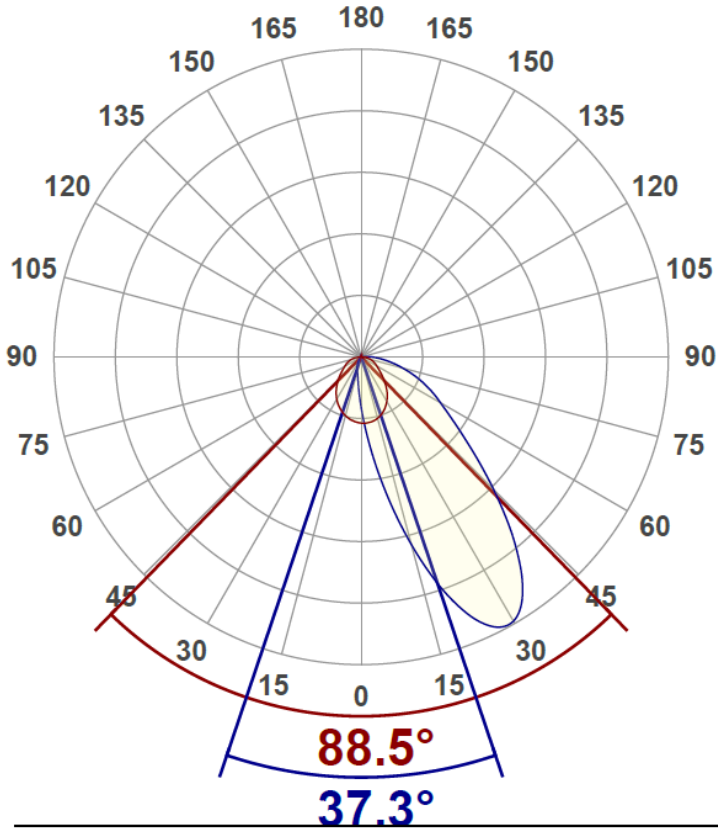


### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>LX</b>	772	193	86	48	31	21	16	12	10	8	6	5	5	4	3	3	3	2	2	2
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>FC</b>	71.7	17.9	8	4.5	2.9	2	1.5	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2



### Angular Distribution



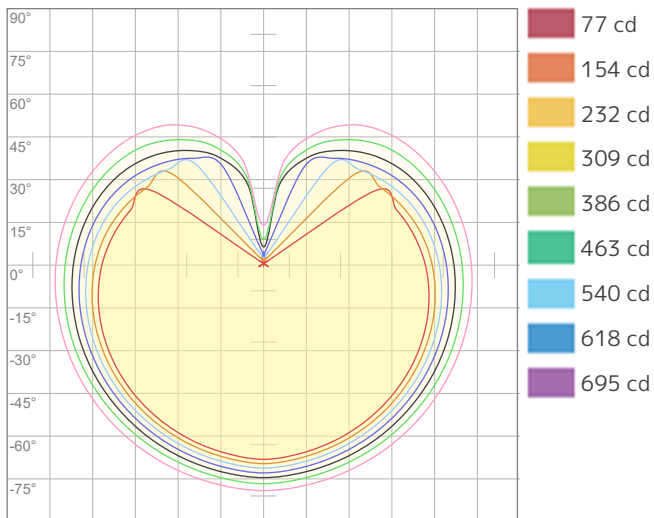
#### 0° Plane

Beam Angle - 50%
88.5°
Field Angle - 10%
160.2°
Cutoff Angle - 2.5%
171.5°

#### 90° Plane

Beam Angle - 50%
37.3°
Field Angle - 10%
84.5°
Cutoff Angle - 2.5%
120.4°

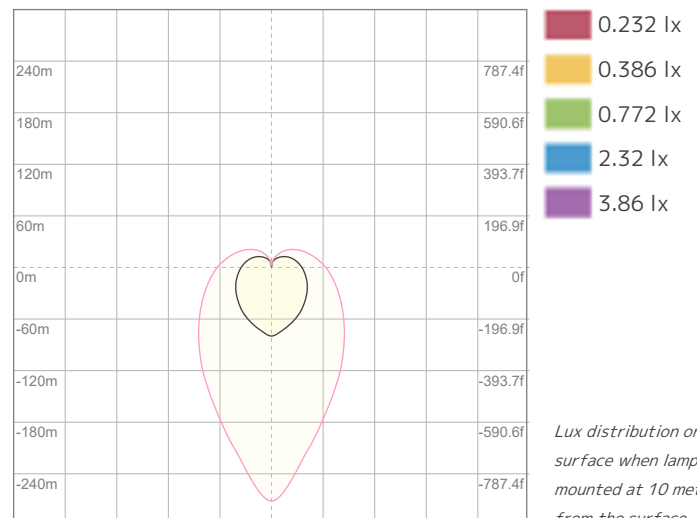
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 772 cd



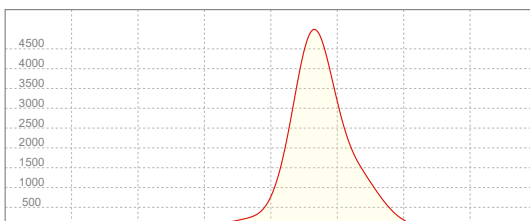
ISO LUX Diagram

Conditions:

Number of c-planes: 2  
LUX at center: 7.72 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

### Linear Distribution



**Peak Candela**  
**4990 cd**

**Calculate Center Beam Intensities**

$$\text{lux} = 4990 / \text{distance(m)}^2$$

$$\text{fc} = 4990 / \text{distance(ft)}^2$$

### Key Measurements

#### Output

Total Lumen Output: 6330 lm  
Peak Intensity: 4853 cd

#### Beam

Beam Angle (50%): 88.5° x 37.3°  
Field Angle (10%): 160.2° x 84.5°  
Cutoff Angle (2.5%): 171.5° x 120.4°

#### Color

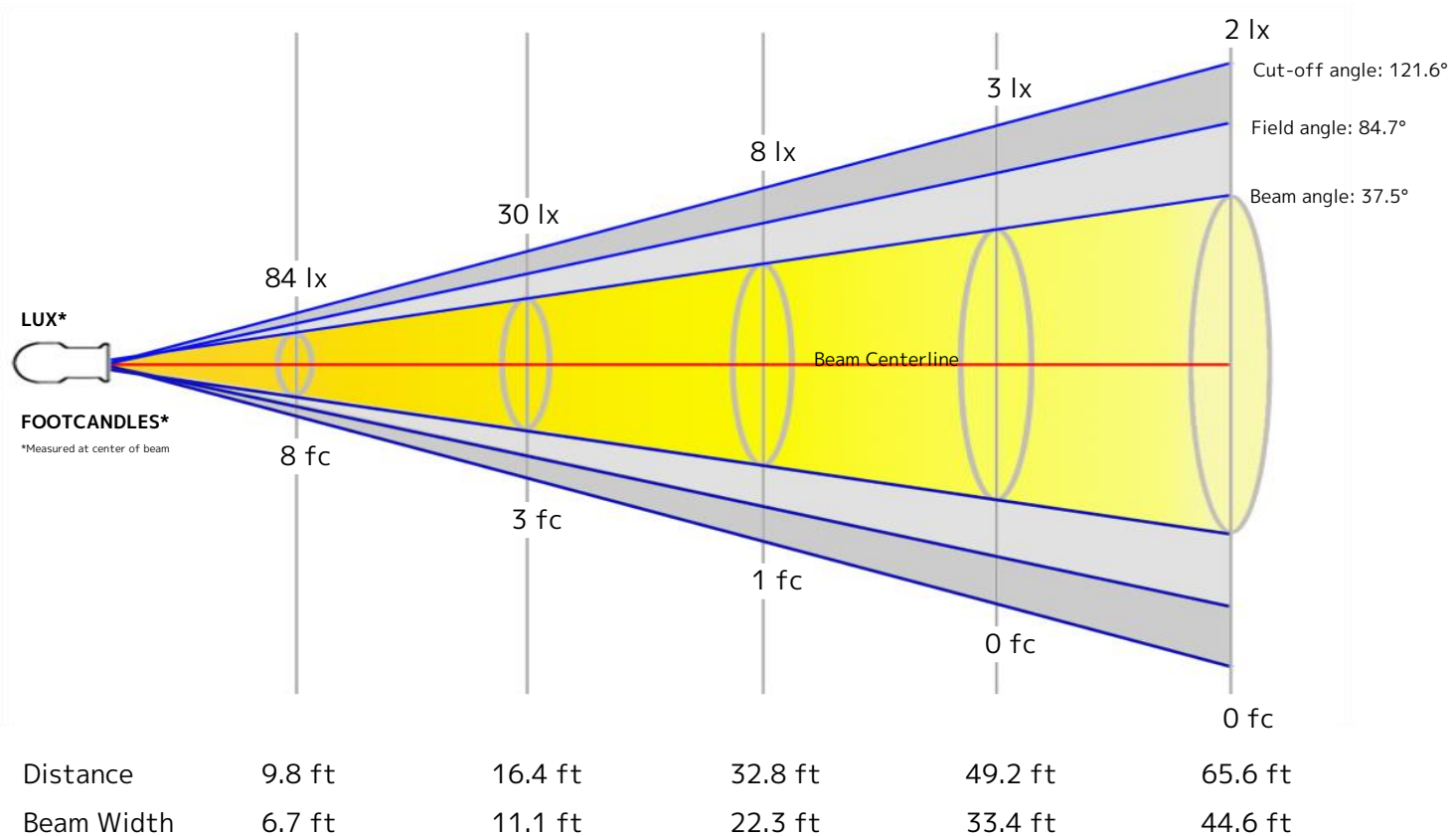
Color Temperature: 7487 K  
CRI: 92.6  
TLCI: 87  
TM30 R<sub>F</sub>: 90.6  
TM30 R<sub>g</sub>: 104.8

#### Power Details

Efficacy: 41 Lumen/Watt  
Power: 153 W  
Supply Voltage: 117 V  
Current: - A

### Beam Details

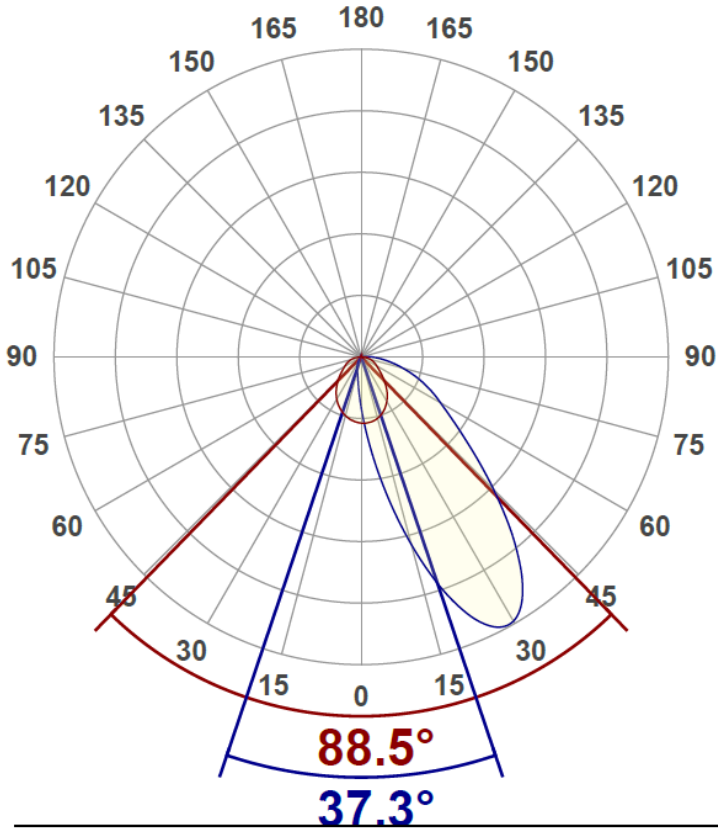
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	m	3.4 m	6.8 m	10.2 m	13.6 m



### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>LX</b>	757	189	84	47	30	21	15	12	9	8	6	5	4	4	3	3	3	2	2	2
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>FC</b>	70.3	17.6	7.8	4.4	2.8	2	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2

### Angular Distribution



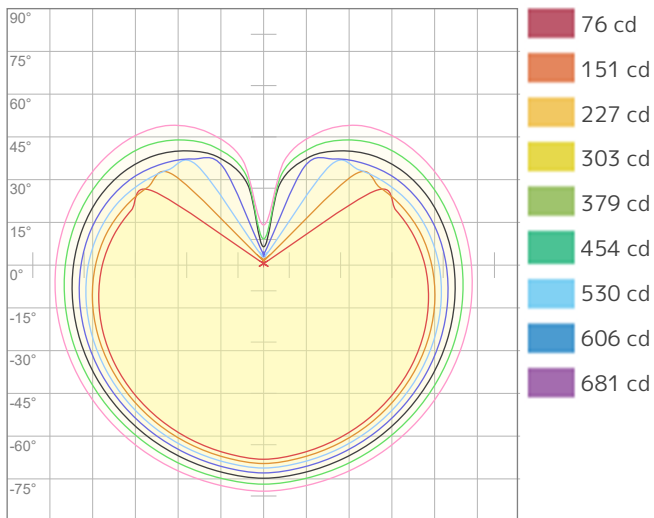
#### 0° Plane

Beam Angle - 50%
88.5°
Field Angle - 10%
160.2°
Cutoff Angle - 2.5%
171.5°

#### 90° Plane

Beam Angle - 50%
37.3°
Field Angle - 10%
84.5°
Cutoff Angle - 2.5%
120.4°

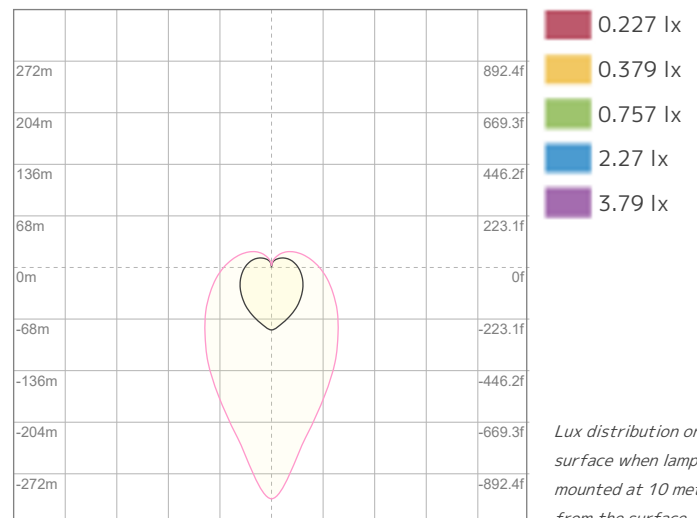
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 757 cd



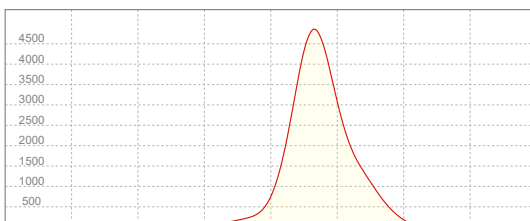
ISO LUX Diagram

Conditions:

Number of c-planes: 2  
LUX at center: 7.57 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

### Linear Distribution



**Peak Candela**  
**4853 cd**

**Calculate Center Beam Intensities**

$$\text{lux} = 4853 / \text{distance(m)}^2$$

$$\text{fc} = 4853 / \text{distance(ft)}^2$$

### Key Measurements

#### Output

Total Lumen Output: 6360 lm  
Peak Intensity: 4925 cd

#### Beam

Beam Angle (50%): 88.5° x 37.3°  
Field Angle (10%): 160.2° x 84.5°  
Cutoff Angle (2.5%): 171.5° x 120.4°

#### Color

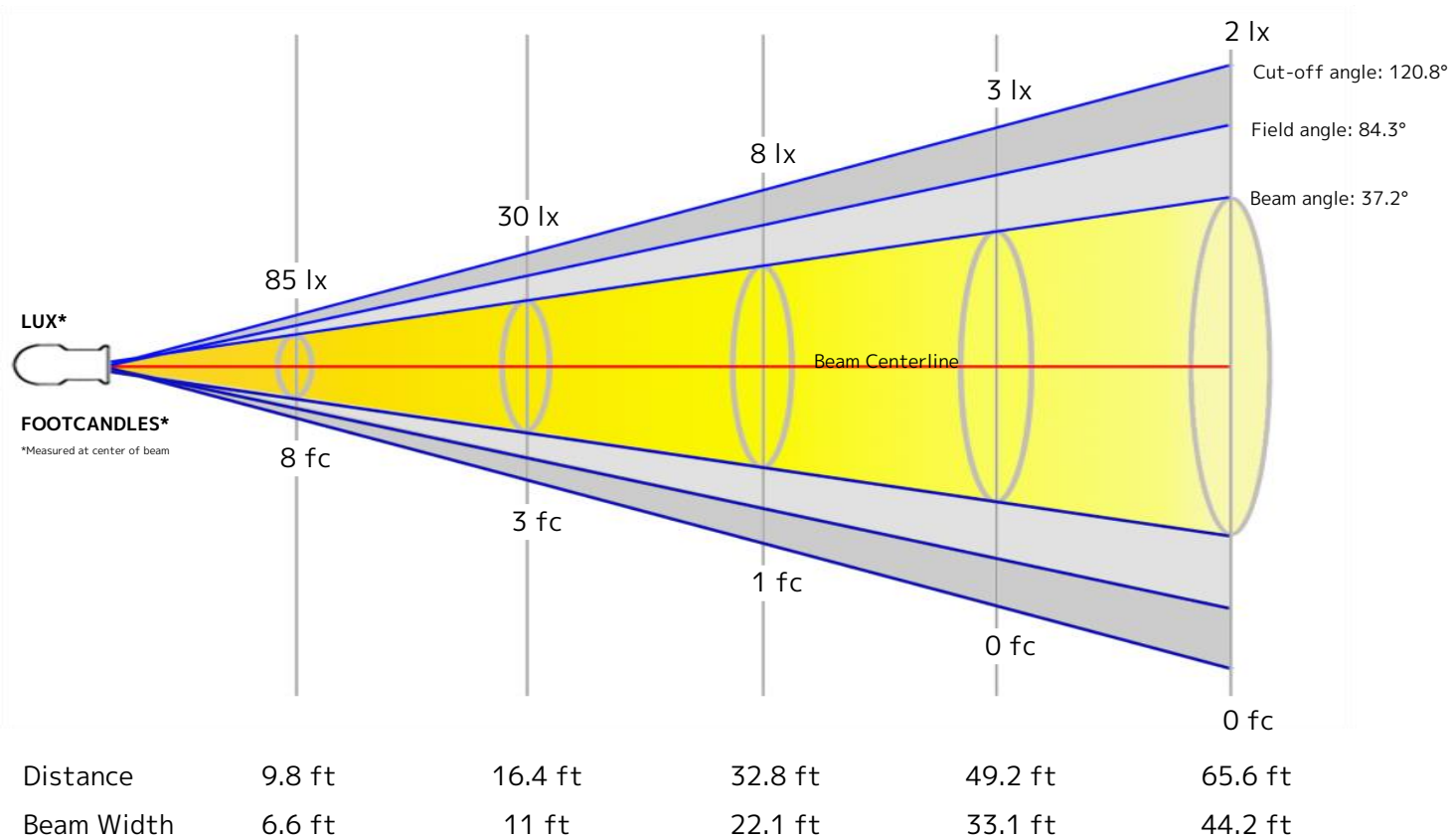
Color Temperature: 7632 K  
CRI: 92.5  
TLCI: 87  
TM30 R<sub>F</sub>: 90.5  
TM30 R<sub>g</sub>: 105.1

#### Power Details

Efficacy: 41 Lumen/Watt  
Power: 154 W  
Supply Voltage: 117 V  
Current: - A

### Beam Details

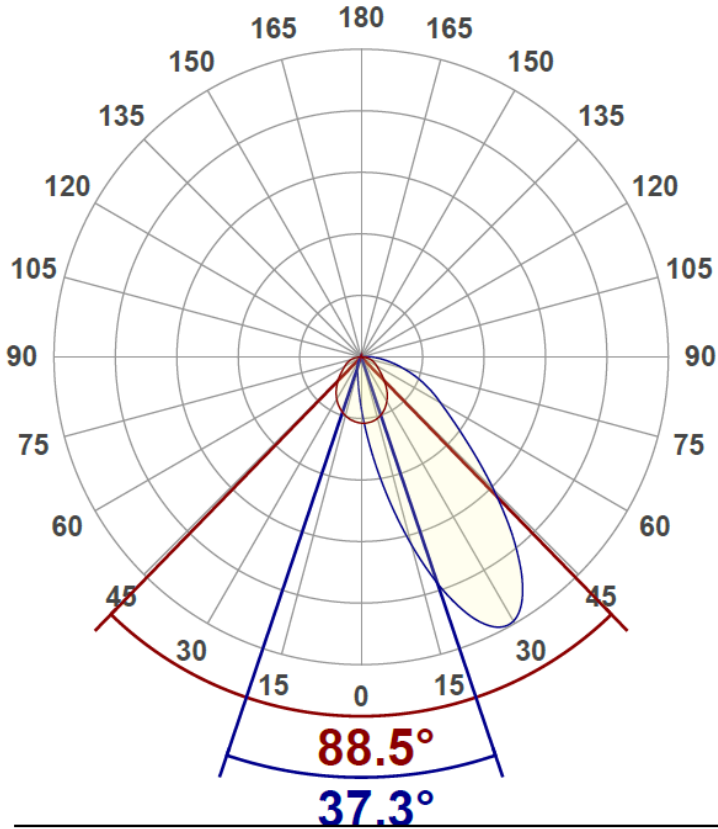
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	m	3.4 m	6.7 m	10.1 m	13.5 m



### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>LX</b>	762	191	85	48	30	21	16	12	9	8	6	5	5	4	3	3	3	2	2	2
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>FC</b>	70.8	17.7	7.9	4.4	2.8	2	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2

### Angular Distribution



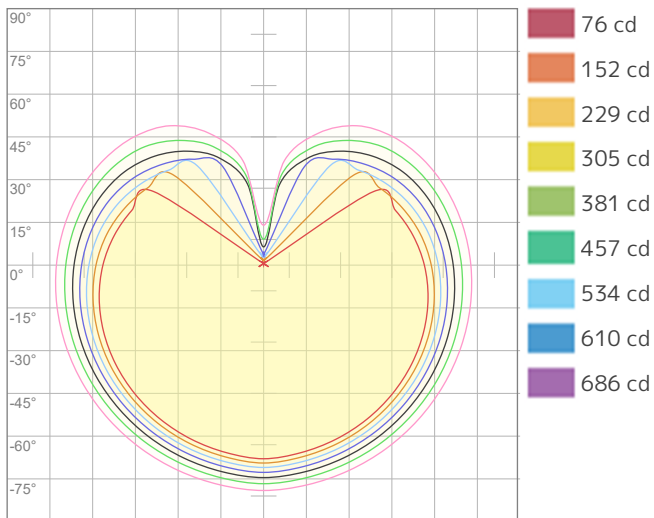
#### 0° Plane

Beam Angle - 50%
88.5°
Field Angle - 10%
160.2°
Cutoff Angle - 2.5%
171.5°

#### 90° Plane

Beam Angle - 50%
37.3°
Field Angle - 10%
84.5°
Cutoff Angle - 2.5%
120.4°

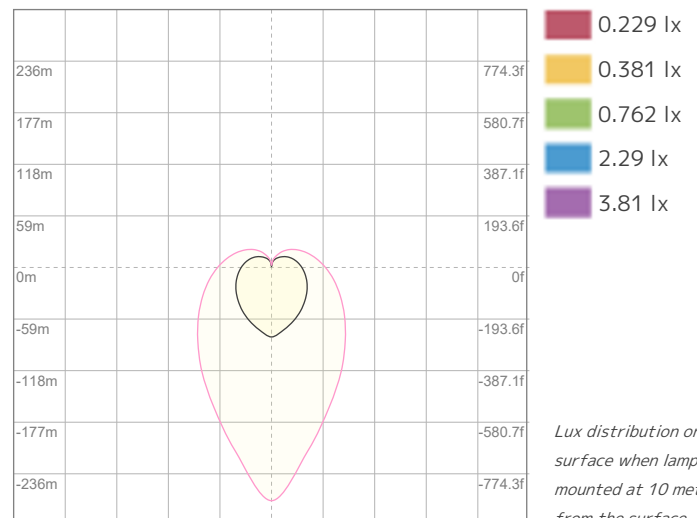
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 762 cd



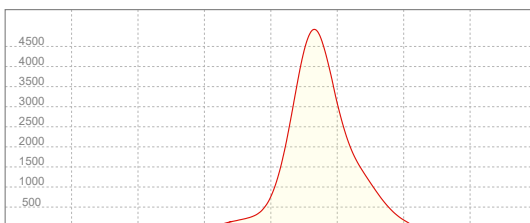
ISO LUX Diagram

Conditions:

Number of c-planes: 2  
LUX at center: 7.62 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

### Linear Distribution



**Peak Candela**  
**4925 cd**

Calculate Center Beam Intensities

$$\text{lux} = 4925 / \text{distance(m)}^2$$

$$\text{fc} = 4925 / \text{distance(ft)}^2$$

## Key Measurements

### Output

Total Lumen Output: 8606 lm  
Peak Intensity: 9673 cd

### Beam

Beam Angle (50%): 76.2° x 25°  
Field Angle (10%): 126.3° x 80.6°  
Cutoff Angle (2.5%): 135.4° x 84.3°

### Color

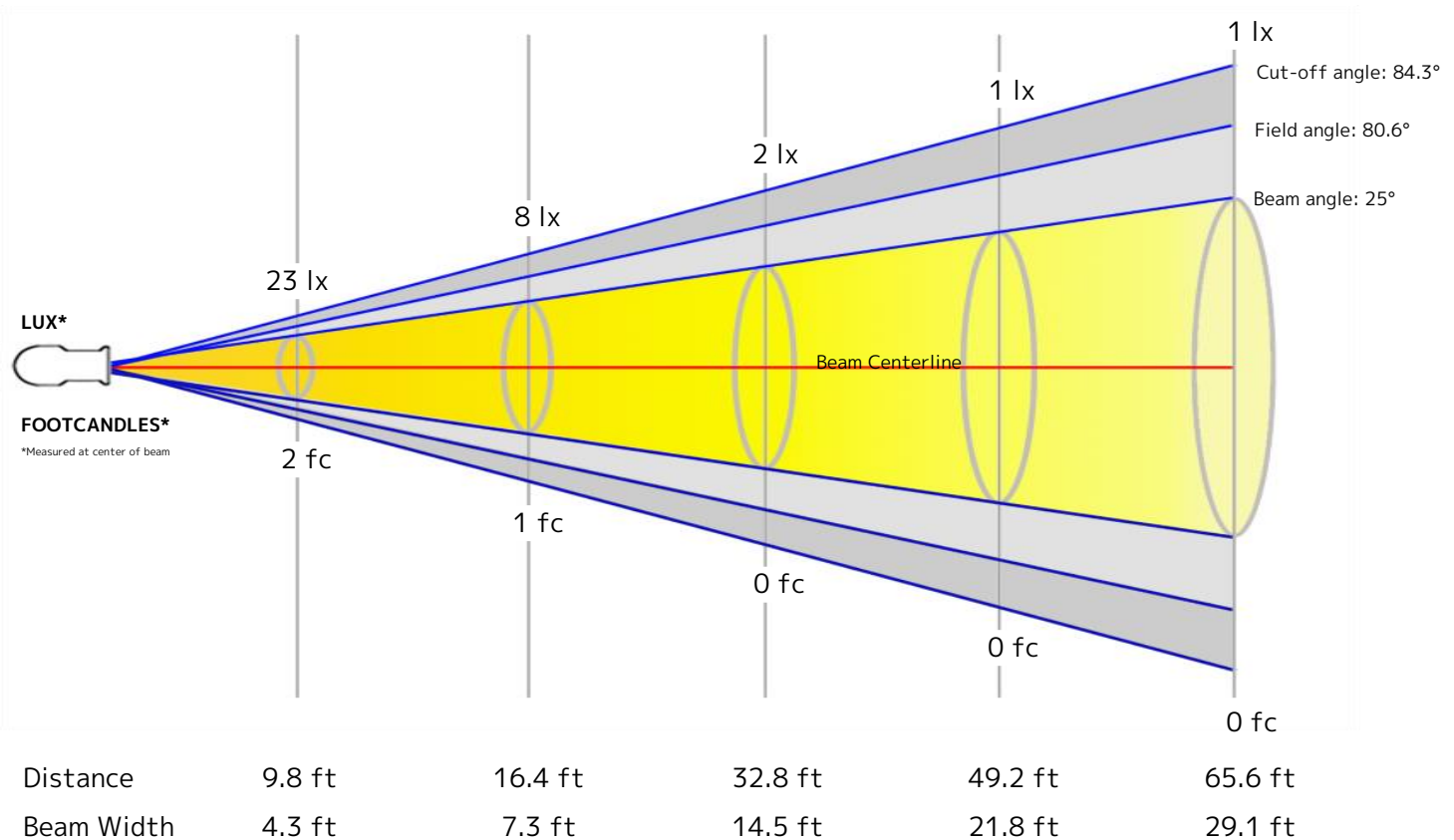
Color Temperature: 5750 K  
CRI: 92.5  
TLCI: 86  
TM30 R<sub>F</sub>: 91.9  
TM30 R<sub>g</sub>: 103.2

### Power Details

Efficacy: 57 Lumen/Watt  
Power: 152 W  
Supply Voltage: 117 V  
Current: - A

## Beam Details

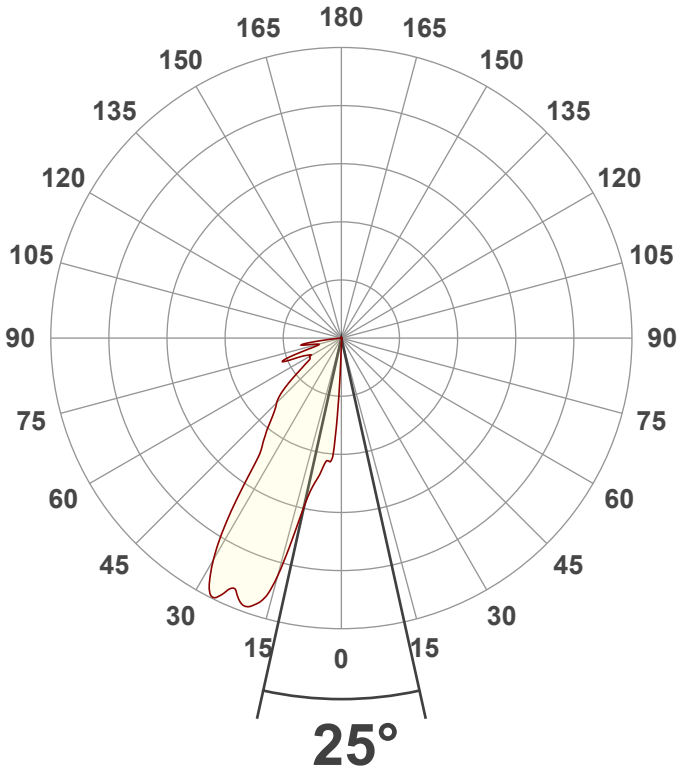
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.3 m	2.2 m	4.4 m	6.7 m	8.9 m



## Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
<b>LX</b>	207	52	23	13	8	6	4	3	3	2	2	1	1	1	1	1	1	1	1	1	
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6	
<b>FC</b>	19.2	4.8	2.1	1.2	0.8	0.5	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0

### Angular Distribution



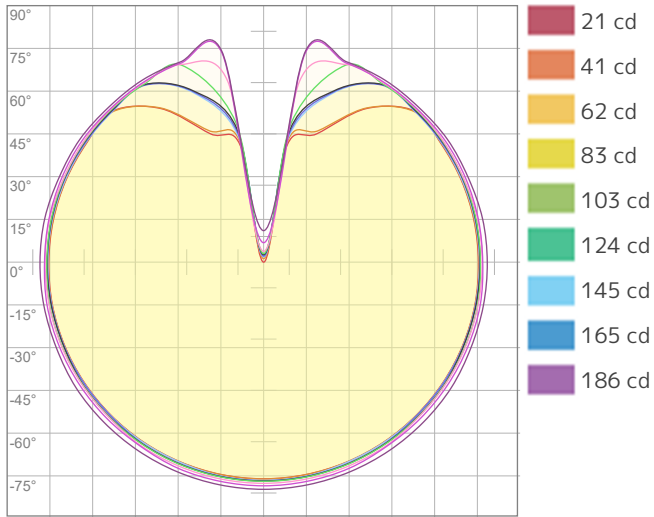
#### 0° Plane

<b>Beam Angle - 50%</b>
<b>25°</b>
<b>Field Angle - 10%</b>
<b>80.6°</b>
<b>Cutoff Angle - 2.5%</b>
<b>84.3°</b>

#### 90° Plane

<b>Beam Angle - 50%</b>
<b>76.2°</b>
<b>Field Angle - 10%</b>
<b>126.3°</b>
<b>Cutoff Angle - 2.5%</b>
<b>135.4°</b>

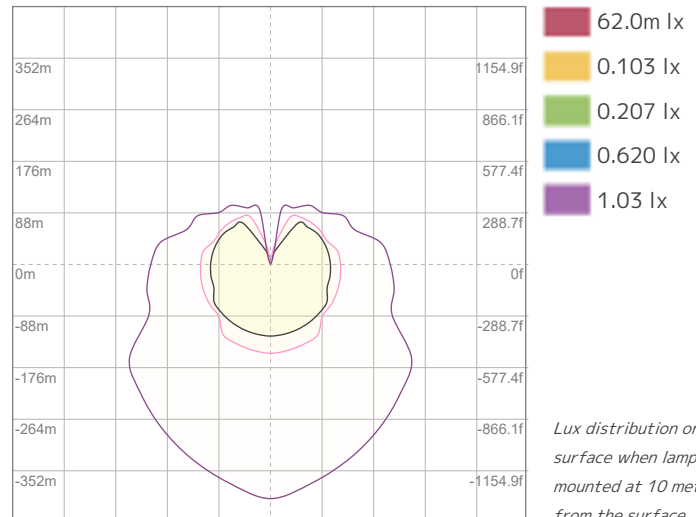
### ISO Diagrams



ISO Candela Diagram

Conditions:

Number of c-planes: 2  
Candela at center: 207 cd



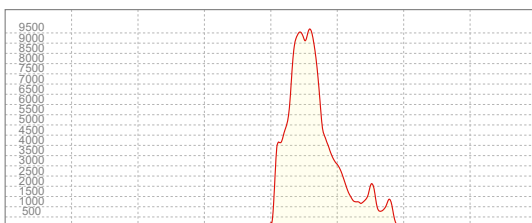
ISO LUX Diagram

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Conditions:

Number of c-planes: 2  
LUX at center: 2.07 lx

### Linear Distribution



**Peak Candela**  
**9673 cd**

**Calculate Center Beam Intensities**

$$\text{lux} = 9673 / \text{distance(m)}^2$$

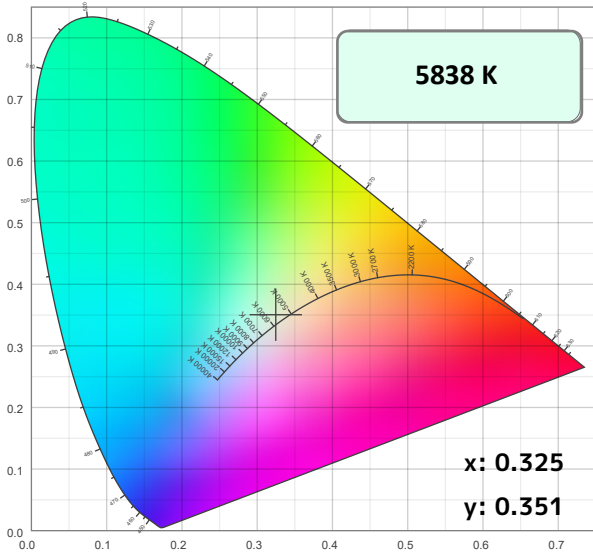
$$\text{fc} = 9673 / \text{distance(ft)}^2$$

### Color Temperature: 5838K

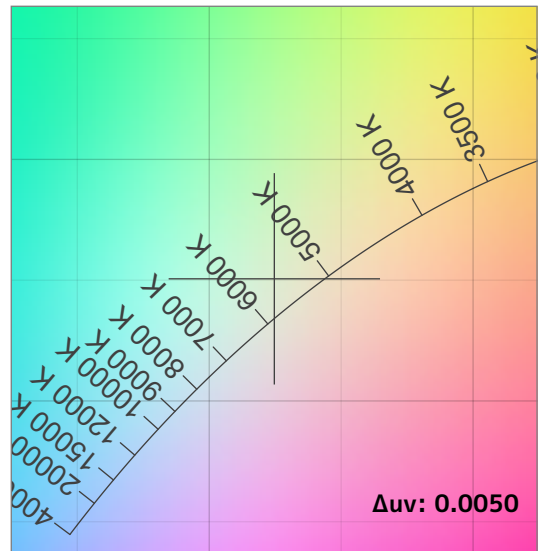
#### Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	TLCI	CQS	x	Y	Δuv	SSIt	SSId
92.7	74.1	92.0	103.7	86	93.8	0.325	0.351	0.0050	31	58

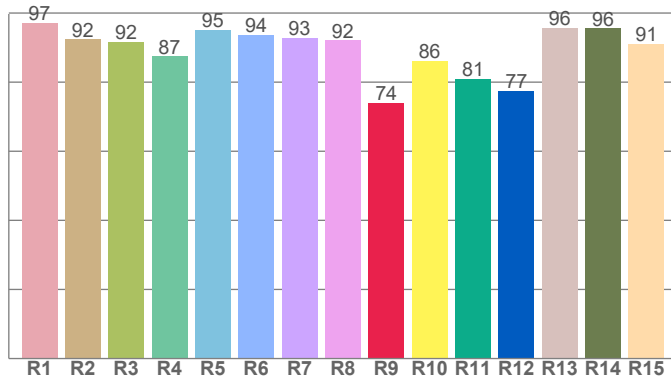
#### CIE 1931



#### CIE 1931 ZOOMED

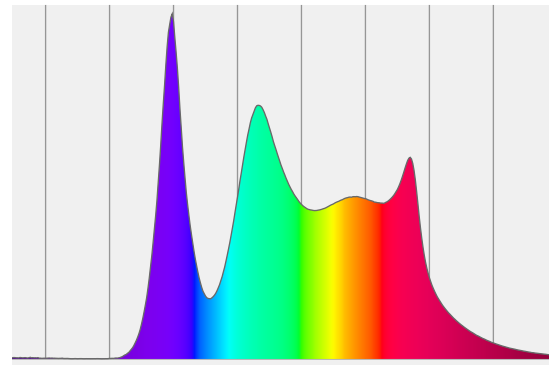


#### CRI: 92.7 (R1-R8)



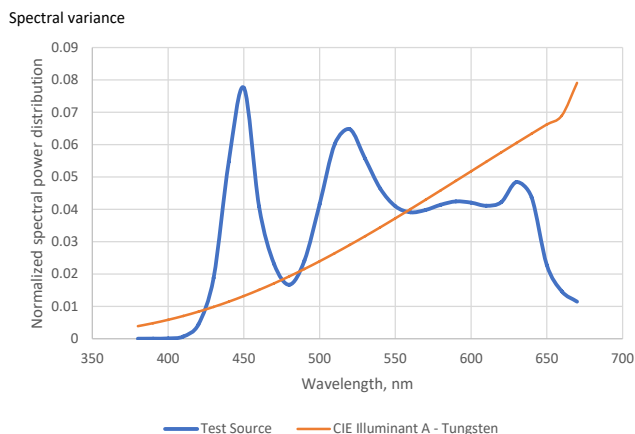
#### Spectral Power Distribution (SPD)

Dominant Wavelength 569 nm



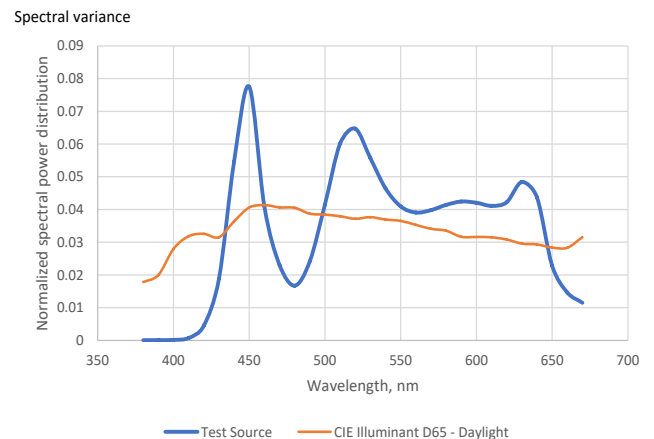
#### SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 31

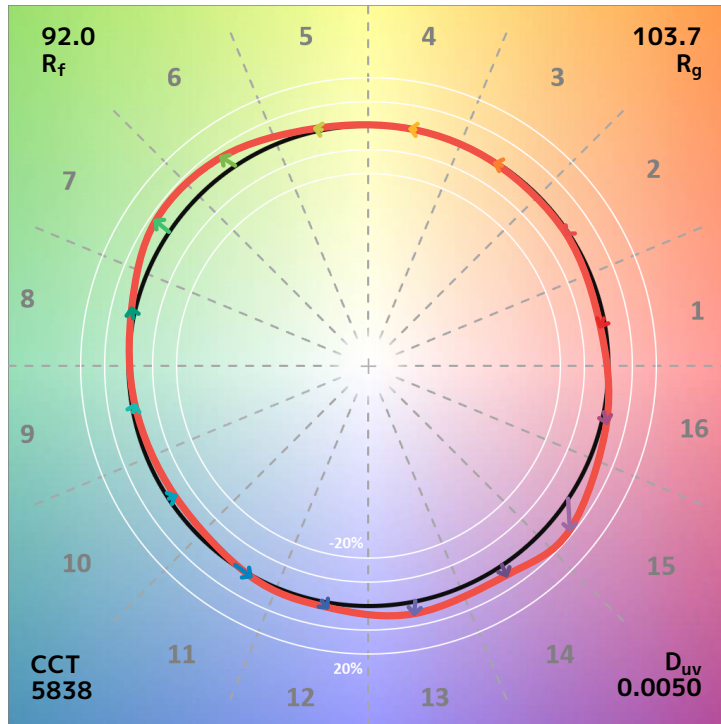


#### SSI Spectral Variance Graph- Daylight

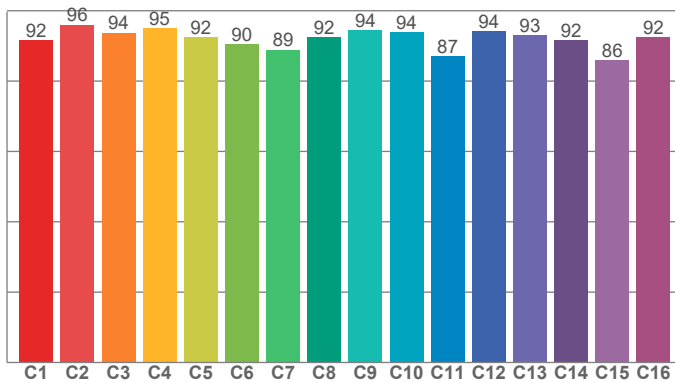
SSI [CIE D65] 58



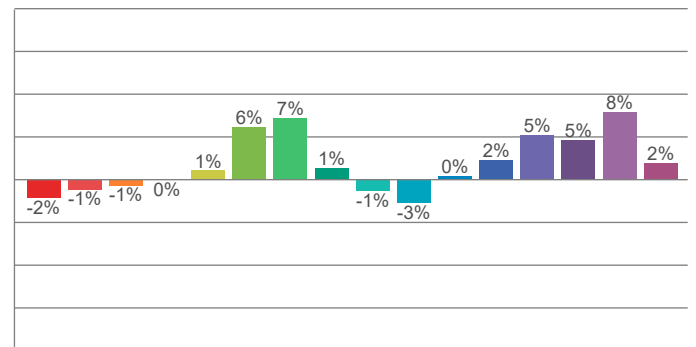




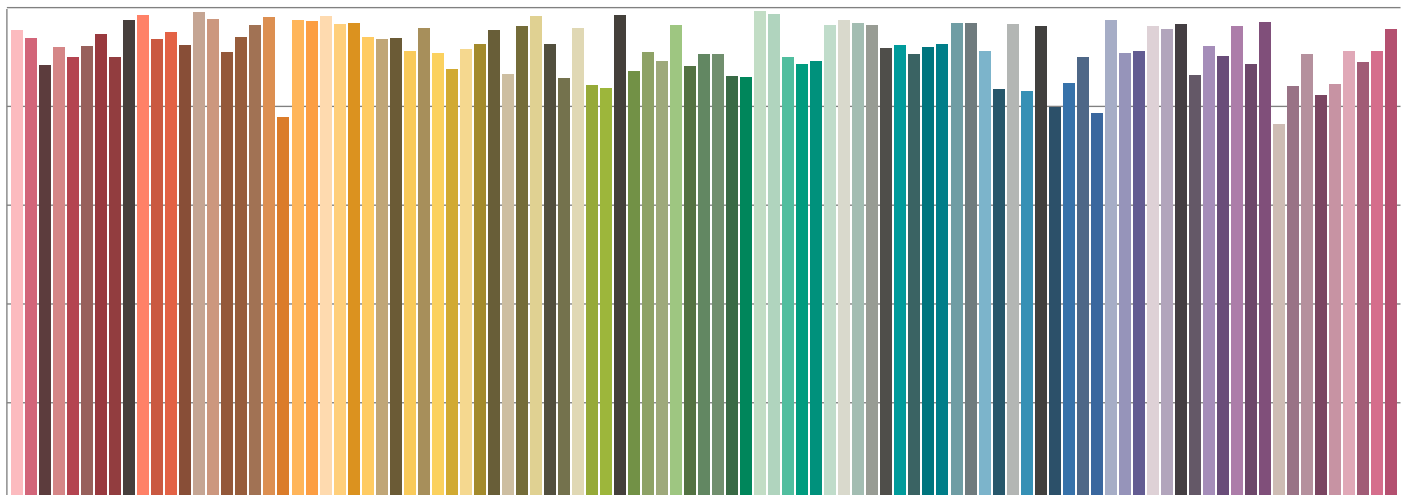
TM30-18 R<sub>f</sub> Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R<sub>f</sub> Values per Reference Color (CES)

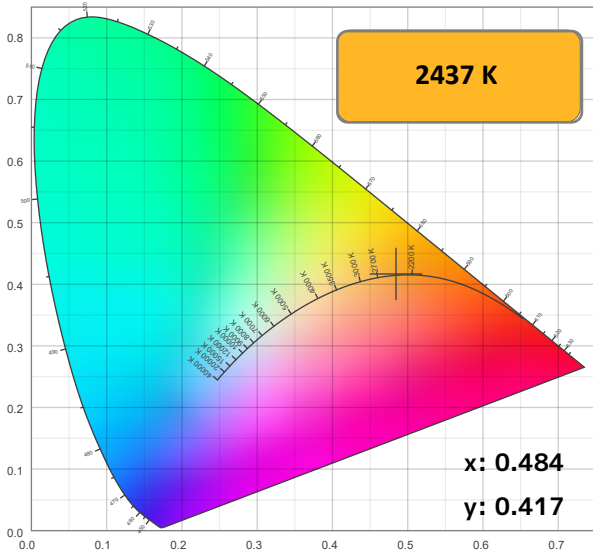


### Color Temperature: 2437K

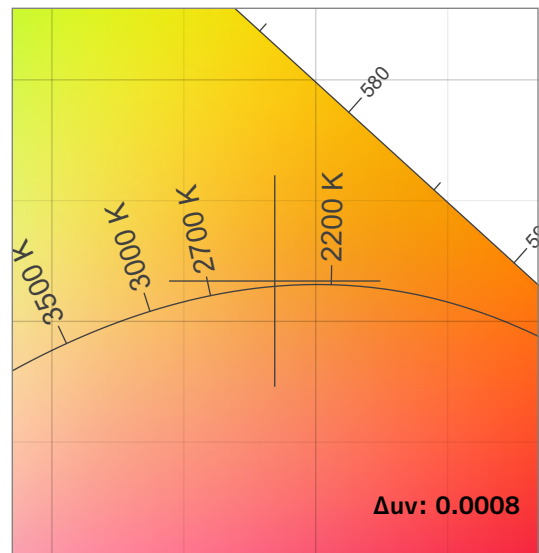
#### Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	TLCI	CQS	x	Y	Δuv	SSIt	SSId
96.5	93.9	93.1	103.3	82	90.9	0.484	0.417	0.0008	64	11

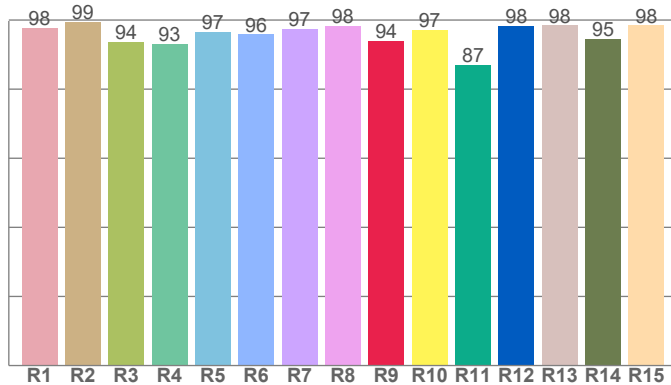
#### CIE 1931



#### CIE 1931 ZOOMED

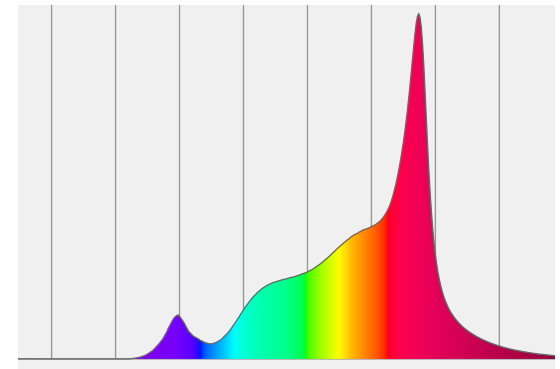


#### CRI: 96.5 (R1-R8)



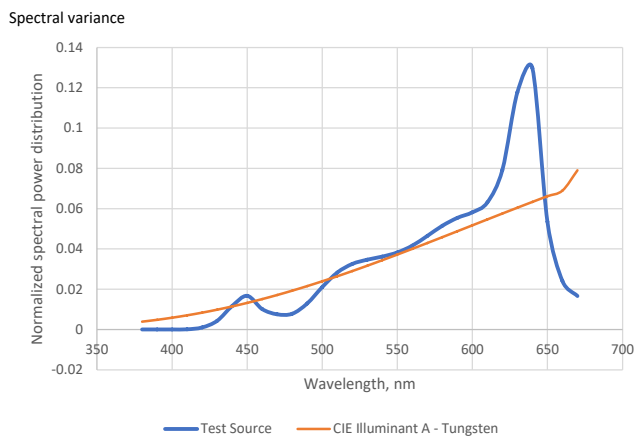
#### Spectral Power Distribution (SPD)

Dominant Wavelength 586 nm



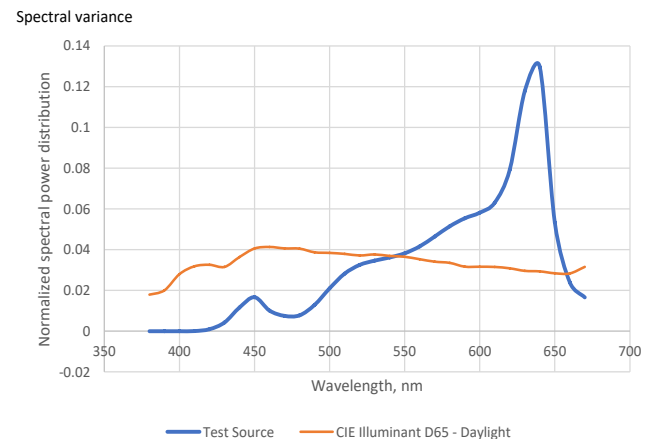
#### SSI Spectral Variance Graph- Tungsten

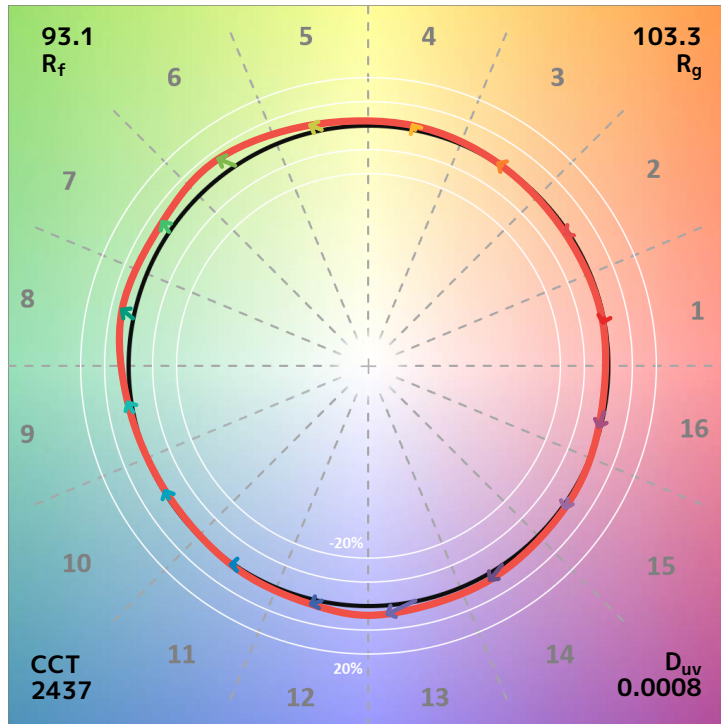
SSI [CIE A] 64



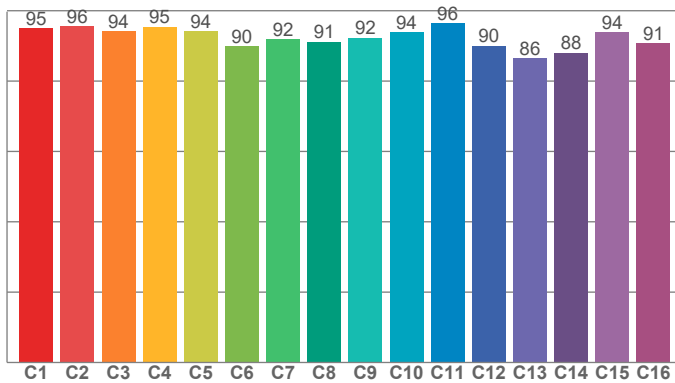
#### SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 11

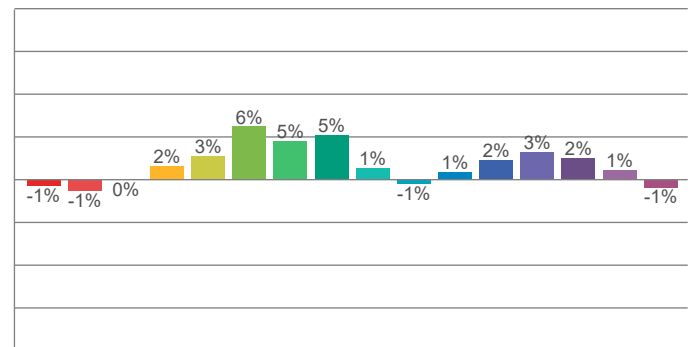




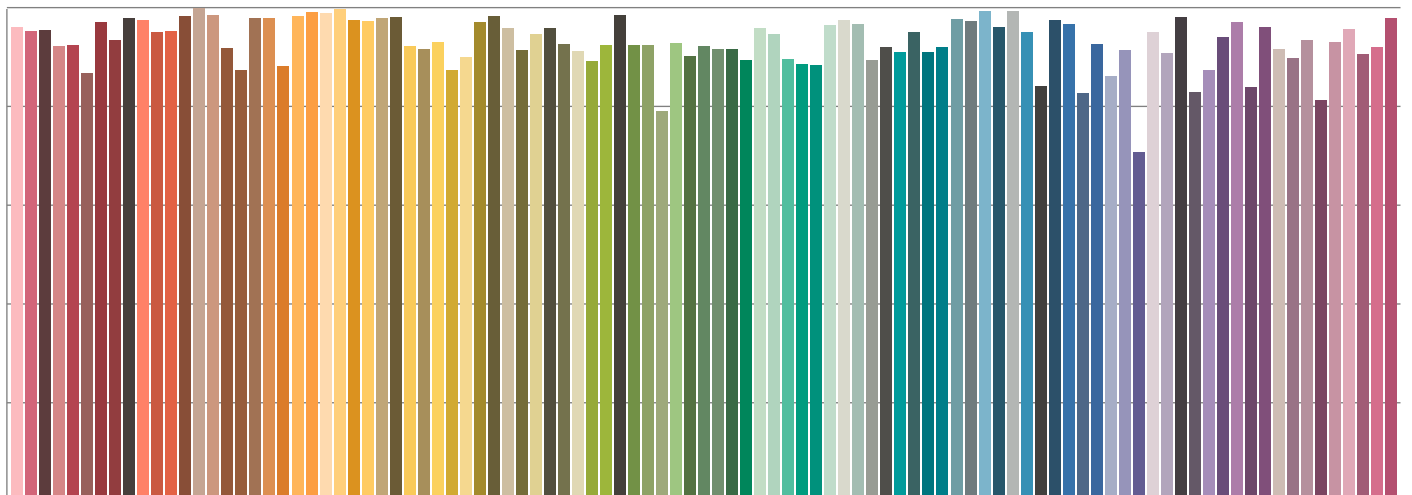
TM30-18  $R_f$  Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18  $R_f$  Values per Reference Color (CES)

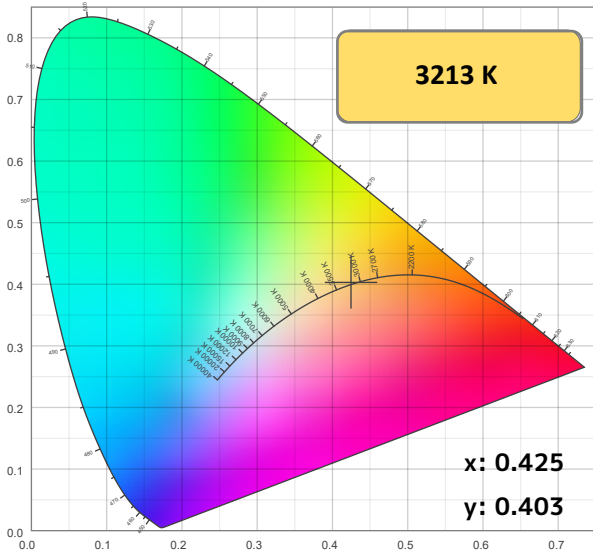


### Color Temperature: 3213K

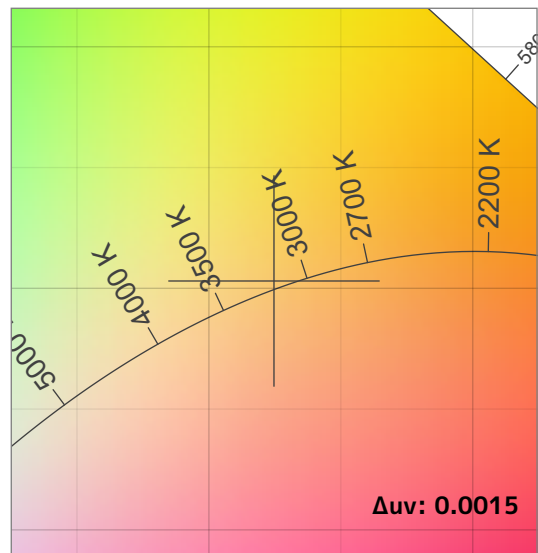
#### Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	TLCI	CQS	x	Y	Δuv	SSIt	SSId
96.2	91.0	93.3	104.0	86	93.9	0.425	0.403	0.0015	68	36

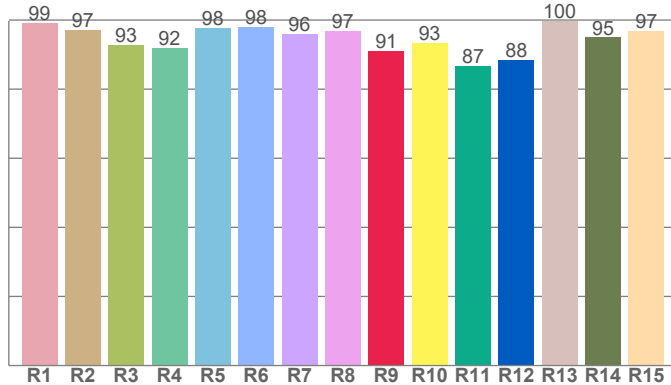
CIE 1931



CIE 1931 ZOOMED

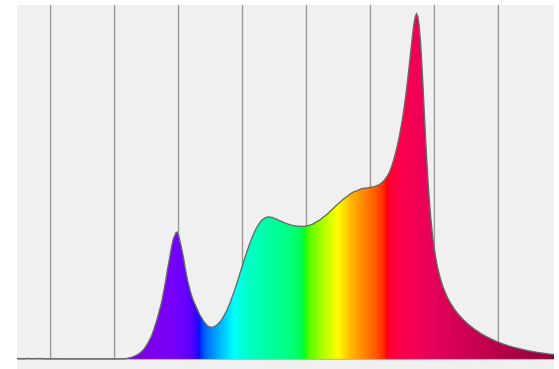


CRI: 96.2 (R1-R8)



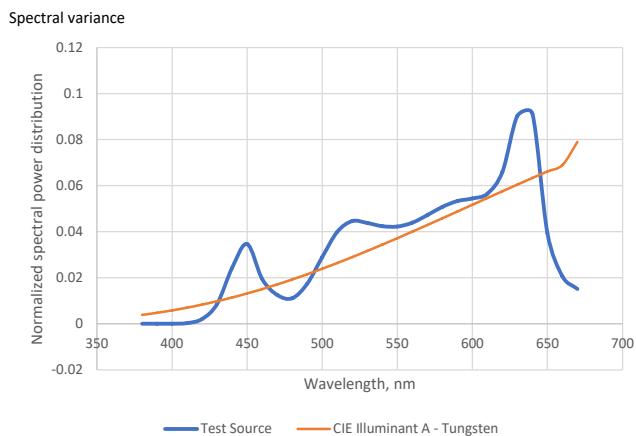
Spectral Power Distribution (SPD)

Dominant Wavelength 582 nm



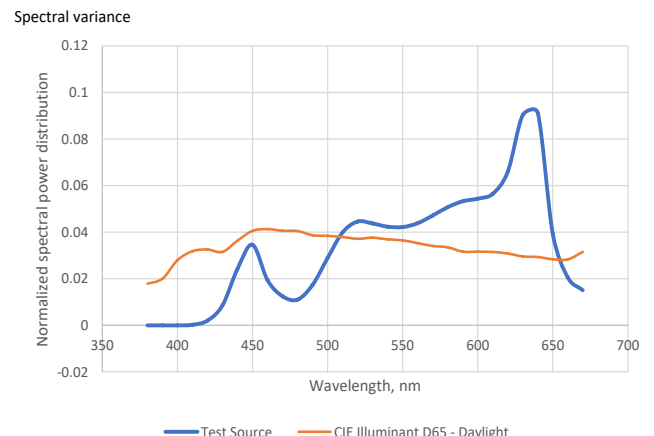
SSI Spectral Variance Graph- Tungsten

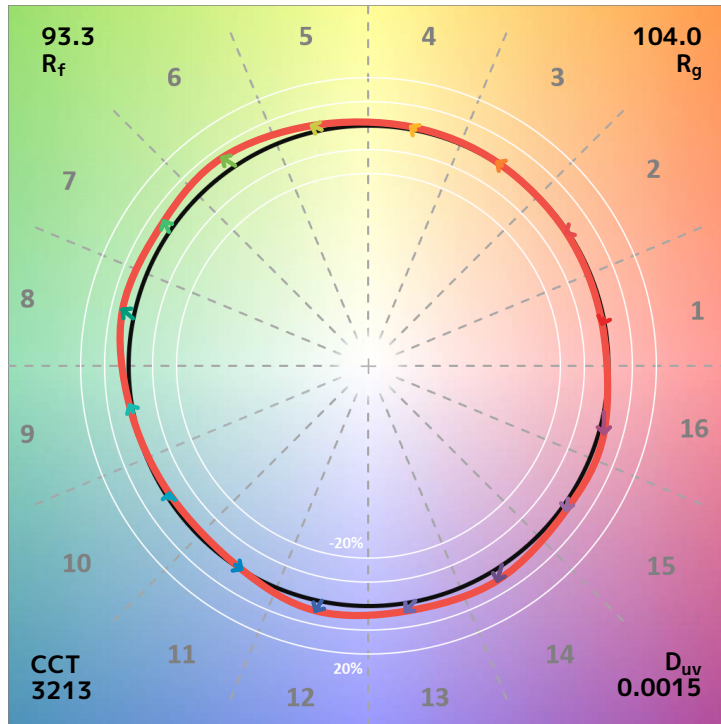
SSI [CIE A] 68



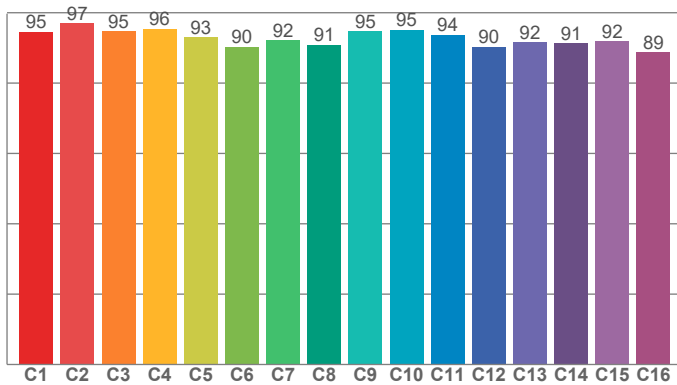
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 36

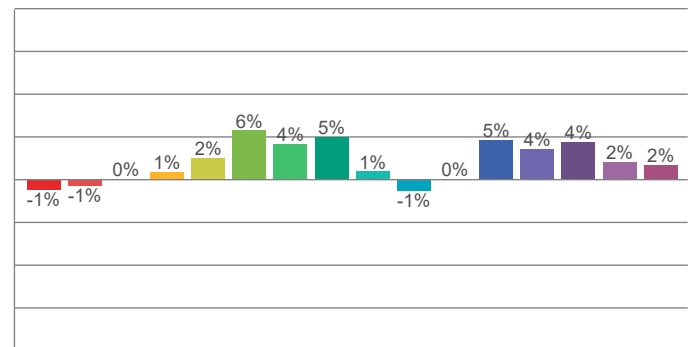




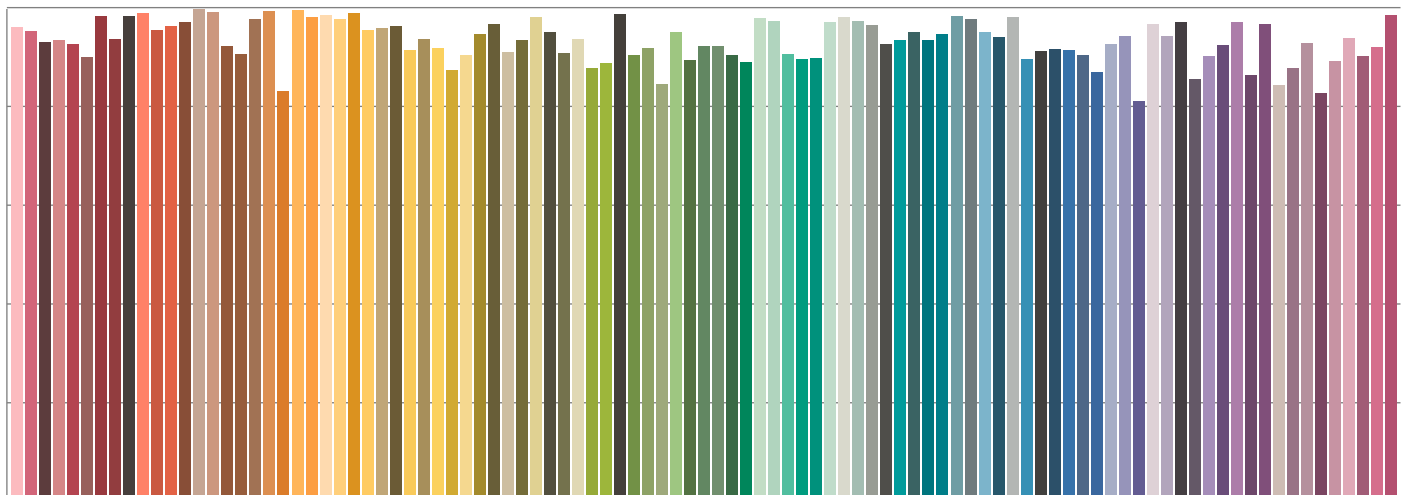
TM30-18  $R_f$  Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18  $R_f$  Values per Reference Color (CES)

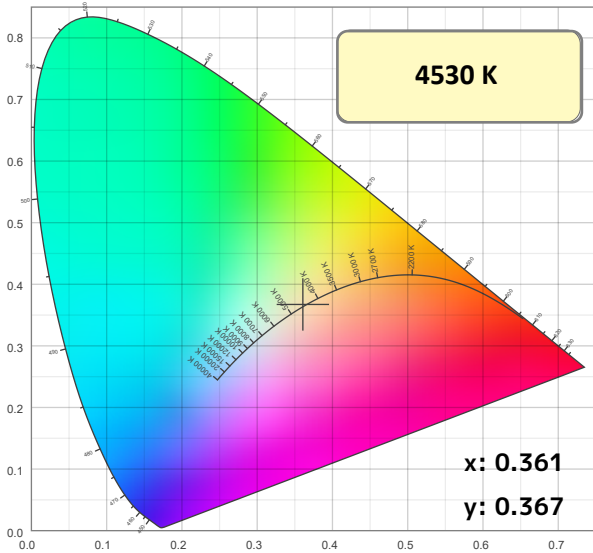


### Color Temperature: 4530K

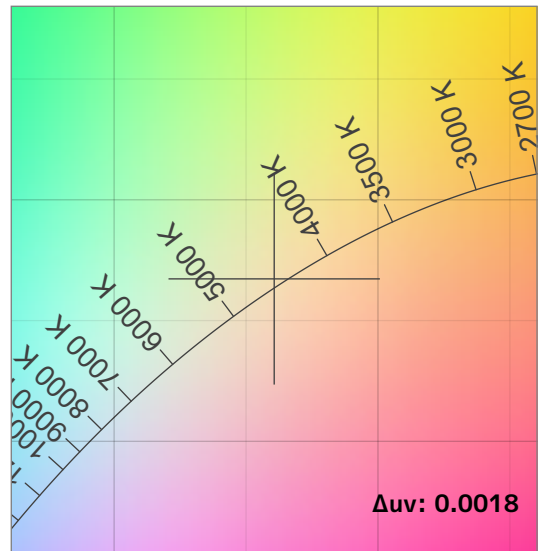
#### Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	TLCI	CQS	x	Y	Δuv	SSIt	SSId
94.9	92.9	92.5	105.3	84	95.0	0.361	0.367	0.0018	47	54

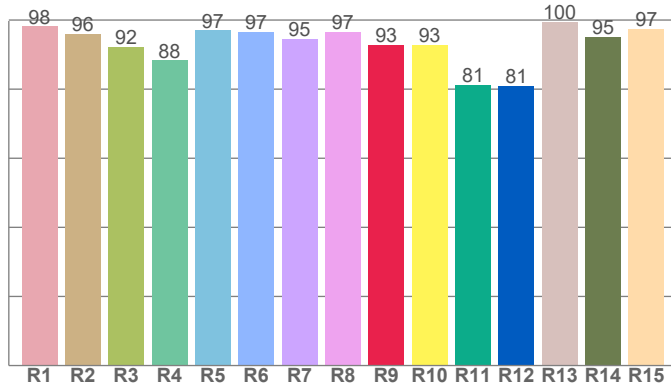
#### CIE 1931



#### CIE 1931 ZOOMED

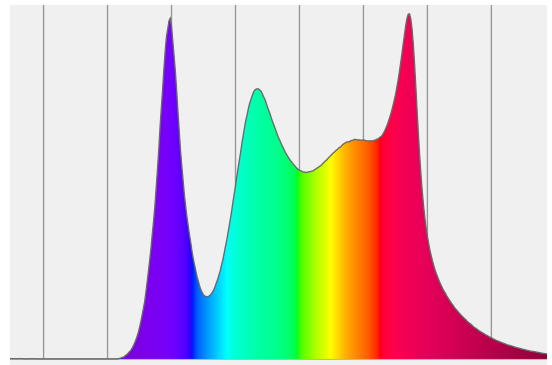


#### CRI: 94.9 (R1-R8)



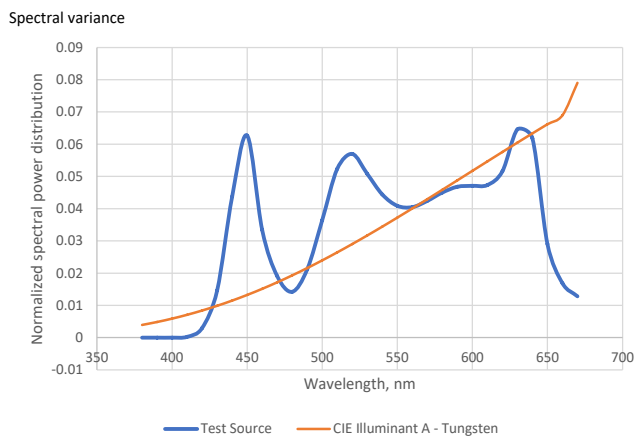
#### Spectral Power Distribution (SPD)

Dominant Wavelength 580 nm



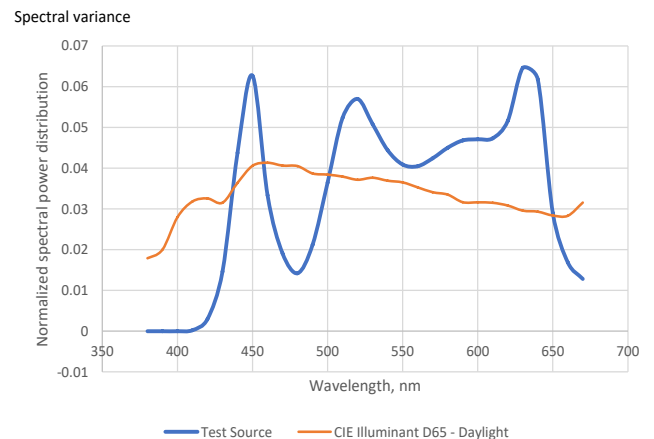
#### SSI Spectral Variance Graph- Tungsten

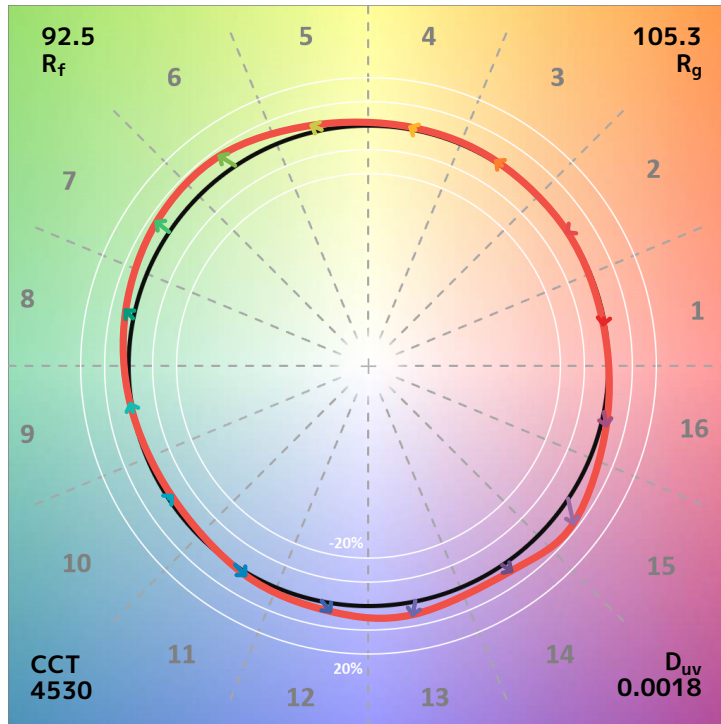
SSI [CIE A] 47



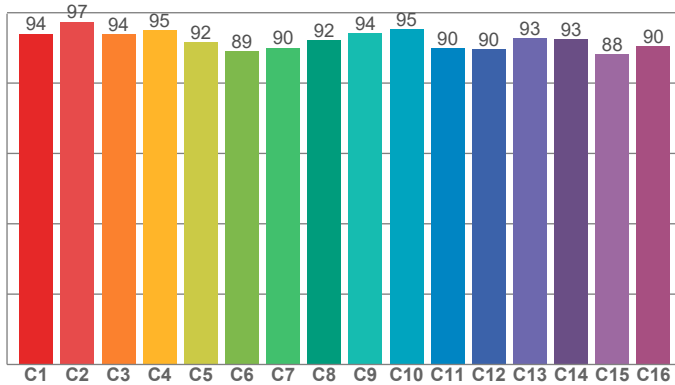
#### SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 54

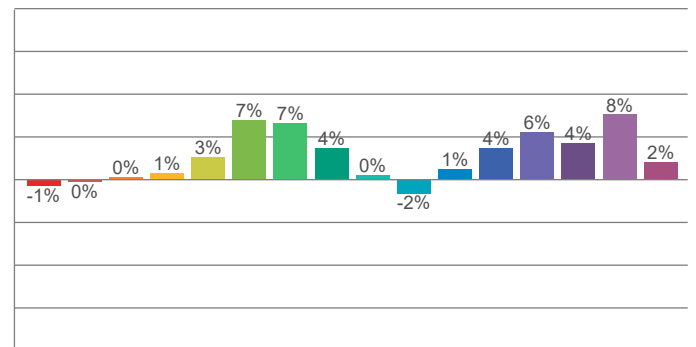




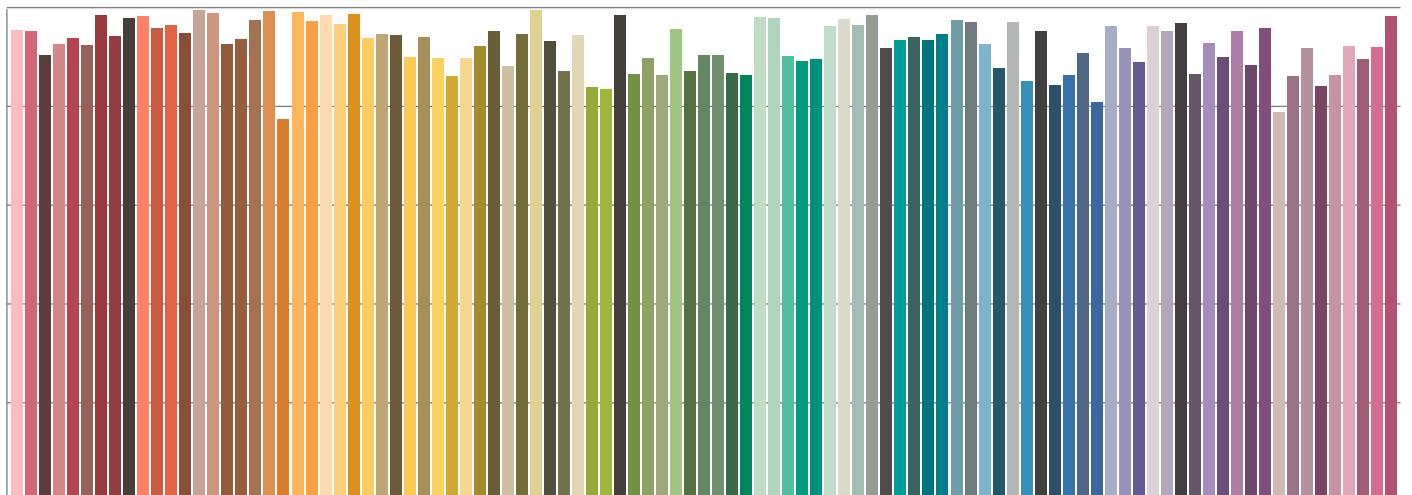
TM30-18  $R_f$  Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18  $R_f$  Values per Reference Color (CES)

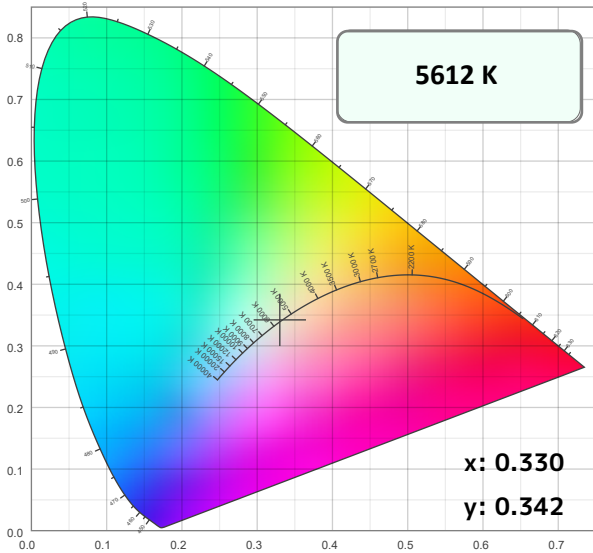


### Color Temperature: 5612K

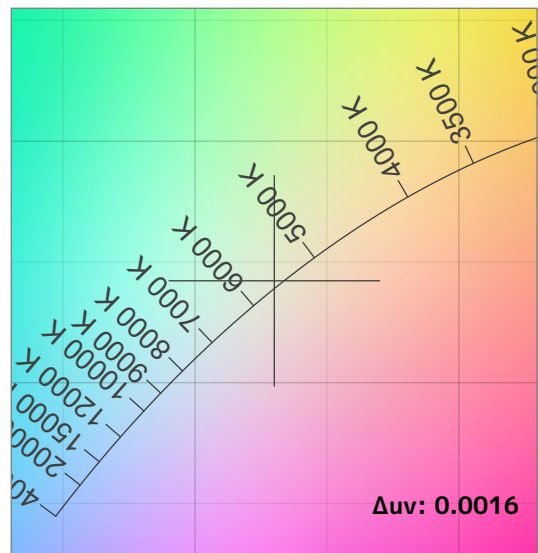
#### Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	TLCI	CQS	x	Y	Δuv	SSI <sub>t</sub>	SSI <sub>d</sub>
93.5	82.4	91.3	105.2	86	93.6	0.330	0.342	0.0016	32	58

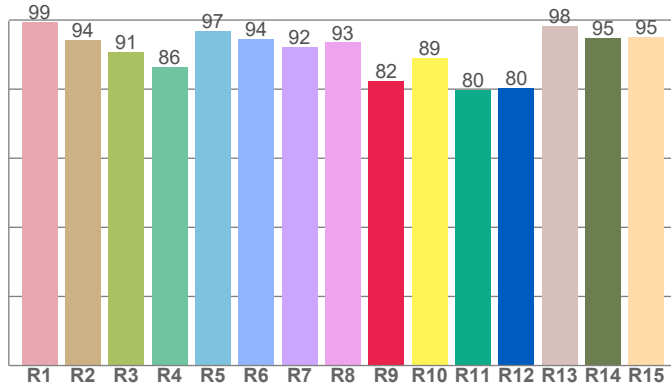
#### CIE 1931



#### CIE 1931 ZOOMED

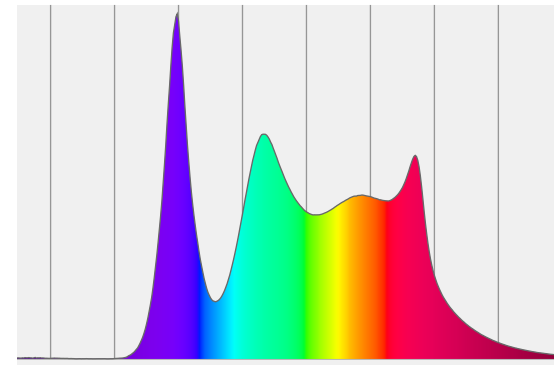


#### CRI: 93.5 (R1-R8)



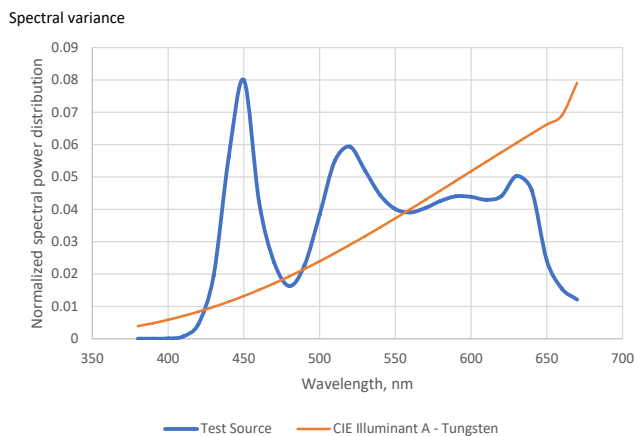
#### Spectral Power Distribution (SPD)

Dominant Wavelength 581 nm



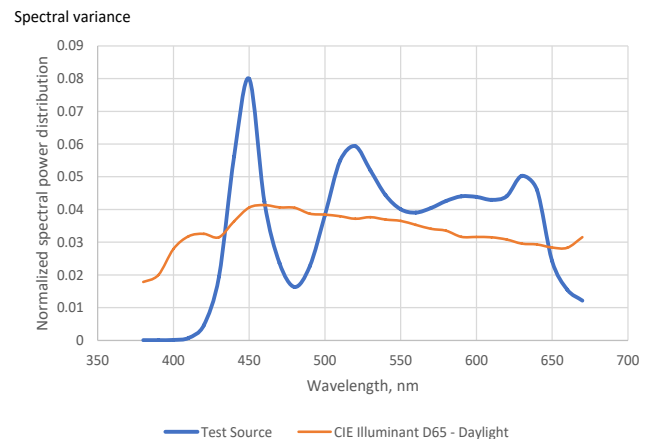
#### SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 32

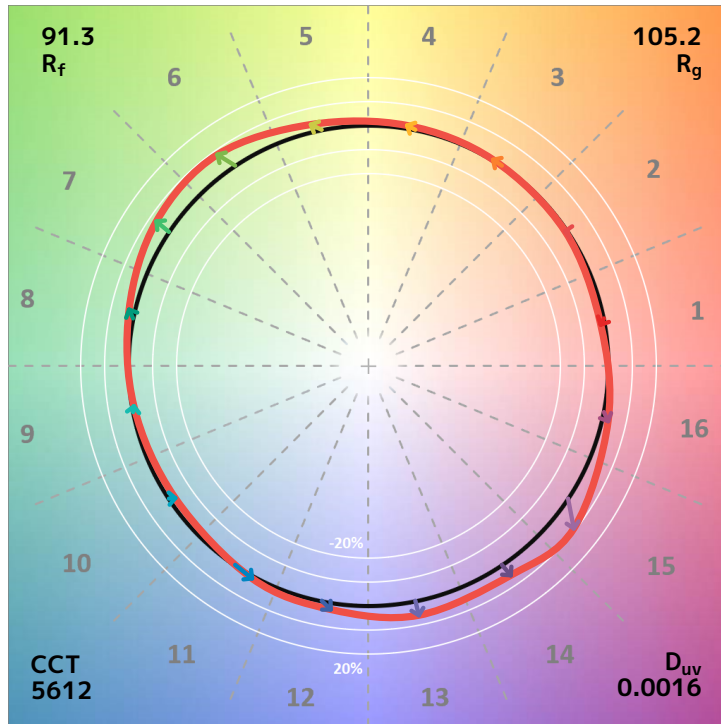


#### SSI Spectral Variance Graph- Daylight

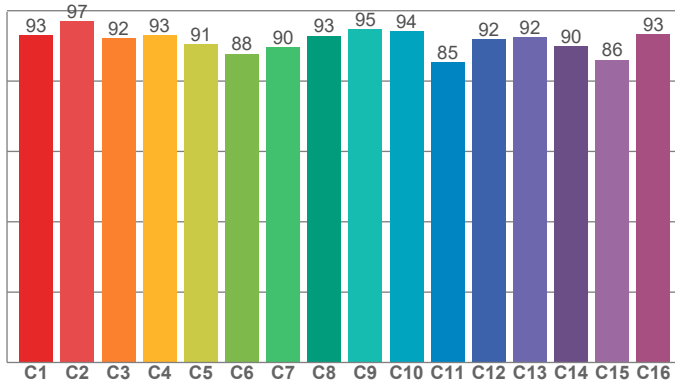
SSI [CIE D65] 58



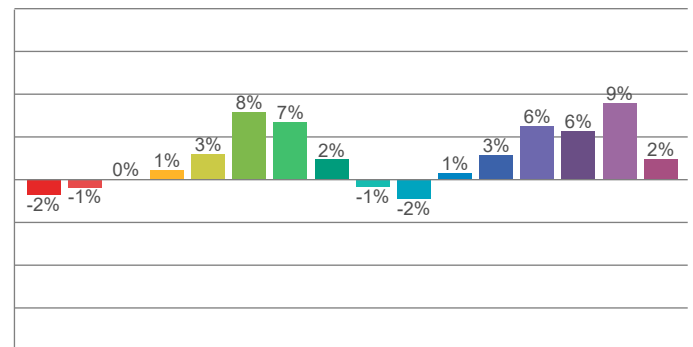




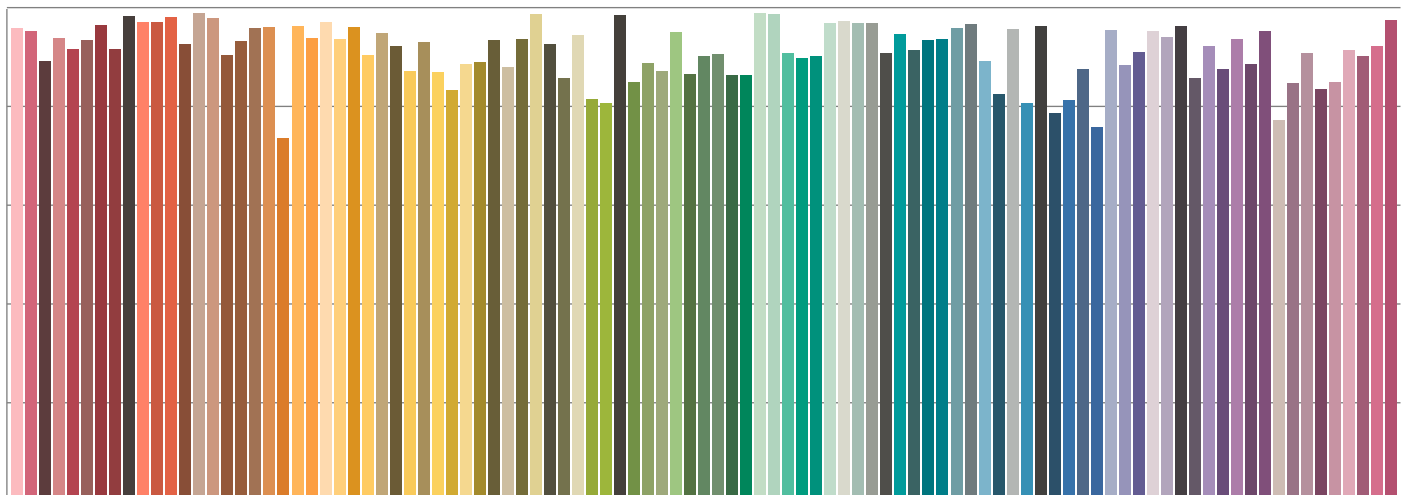
TM30-18  $R_f$  Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18  $R_f$  Values per Reference Color (CES)

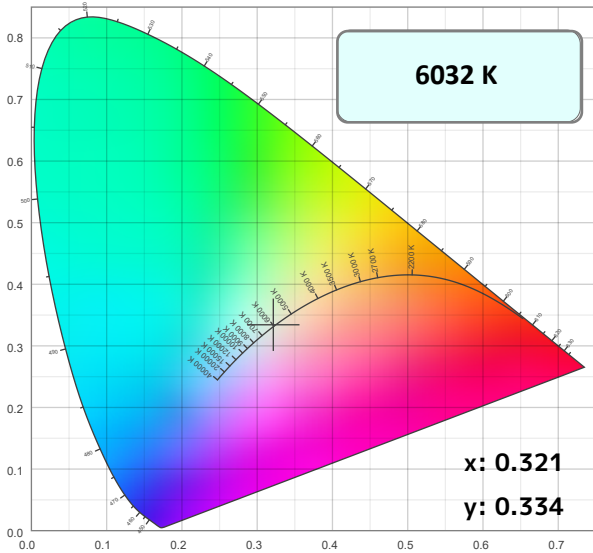


### Color Temperature: 6032K

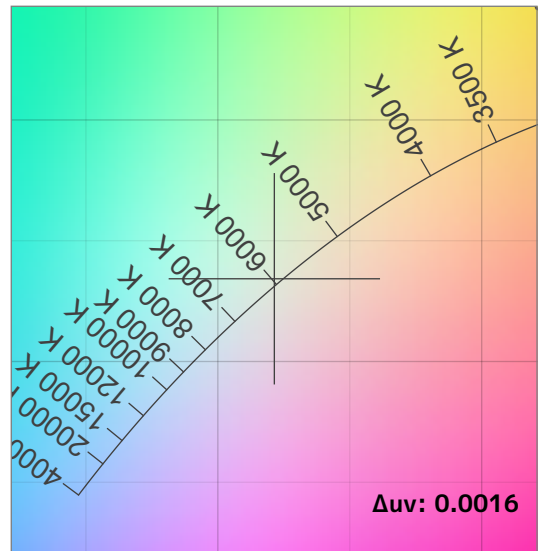
#### Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	TLCI	CQS	x	Y	Δuv	SSIt	SSId
93.2	86.4	91.4	105.5	87	93.8	0.321	0.334	0.0016	27	58

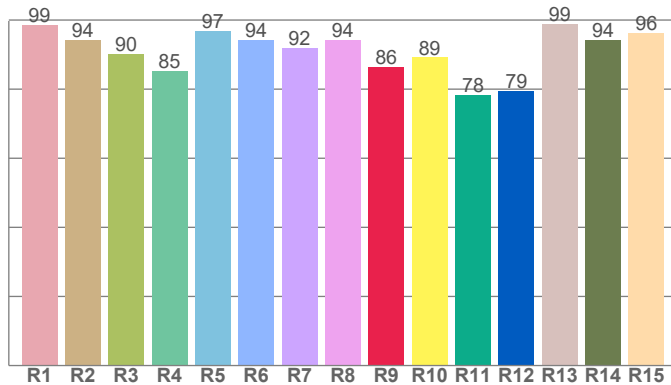
#### CIE 1931



#### CIE 1931 ZOOMED

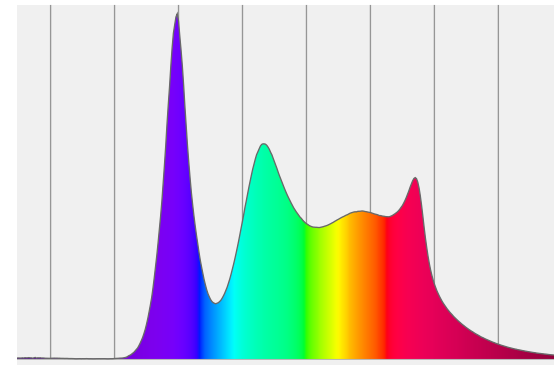


#### CRI: 93.2 (R1-R8)



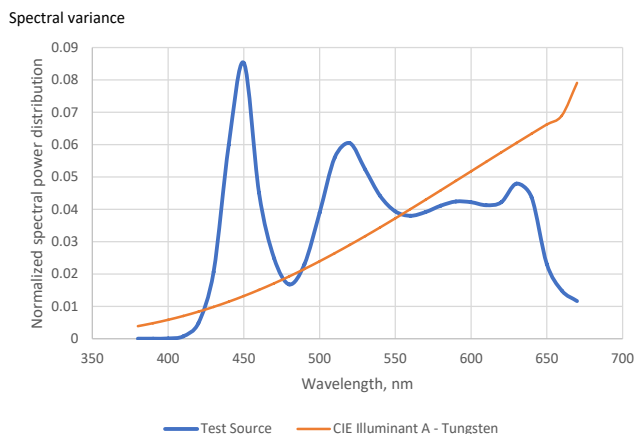
#### Spectral Power Distribution (SPD)

Dominant Wavelength 584 nm



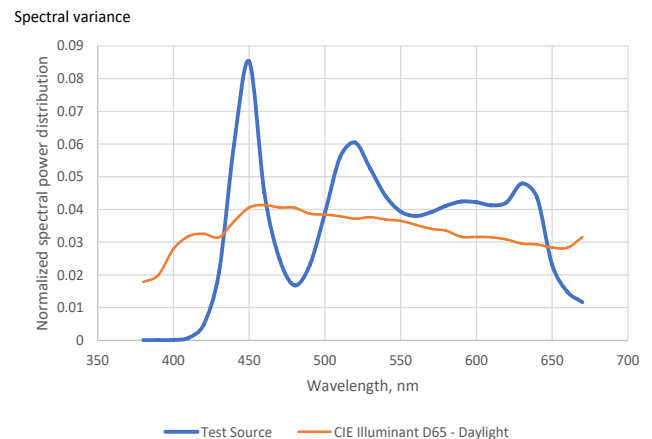
#### SSI Spectral Variance Graph- Tungsten

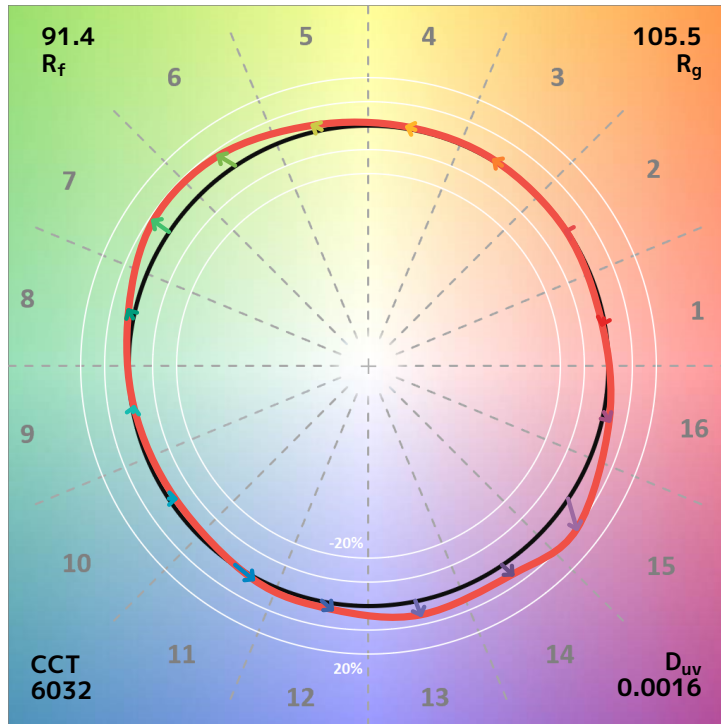
SSI [CIE A] 27



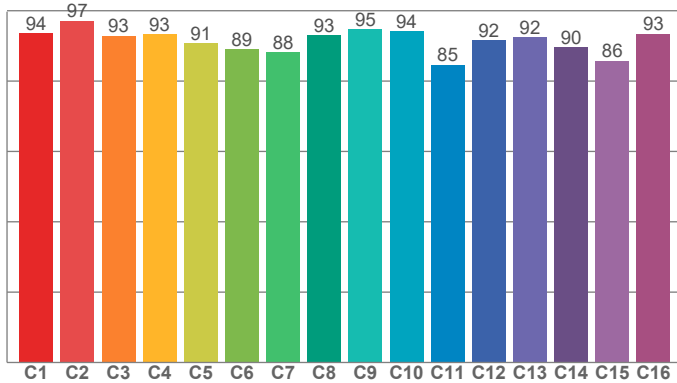
#### SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 58

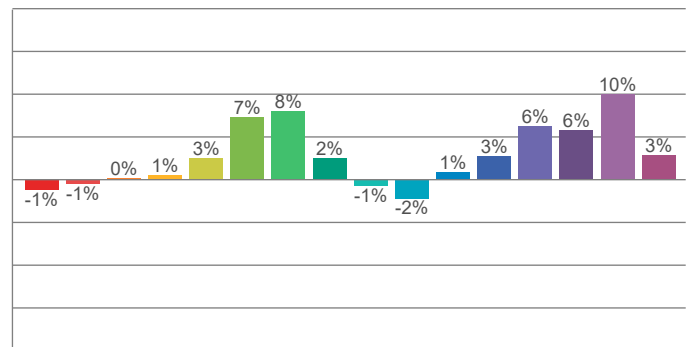




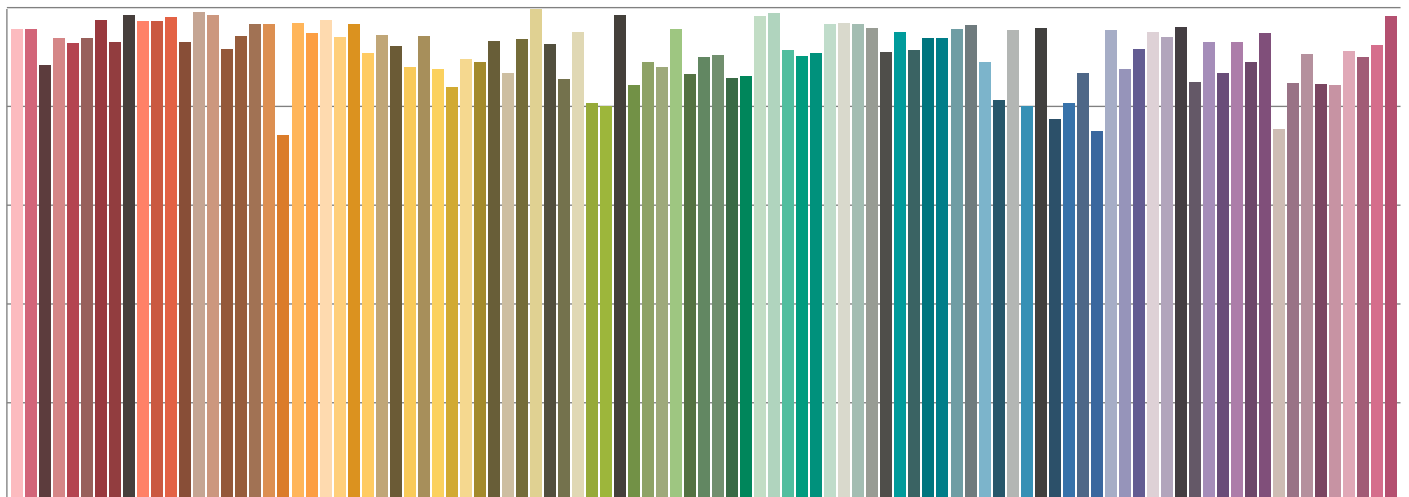
TM30-18  $R_f$  Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18  $R_f$  Values per Reference Color (CES)

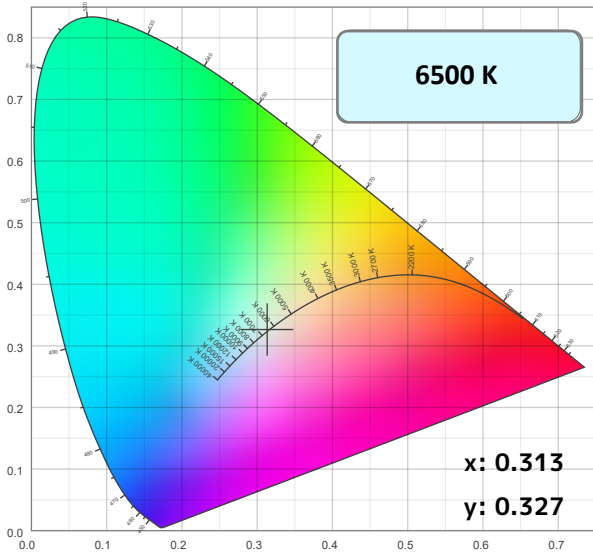


### Color Temperature: 6500K

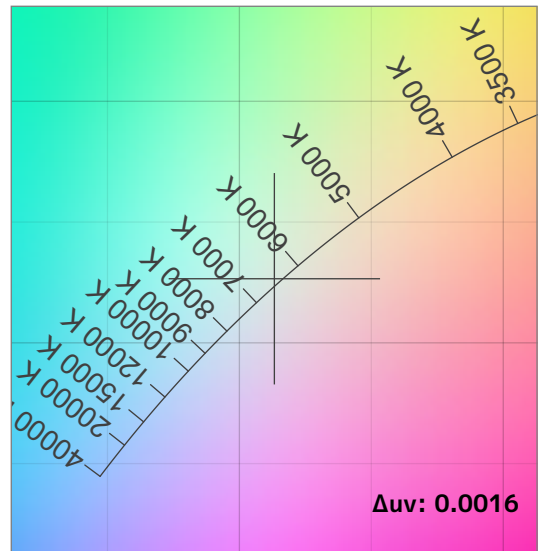
#### Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	TLCI	CQS	x	Y	Δuv	SSIt	SSId
93.0	84.2	91.1	105.2	87	93.6	0.313	0.327	0.0016	21	57

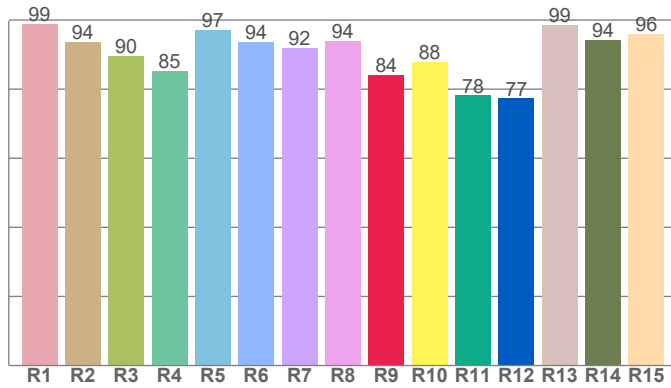
**CIE 1931**



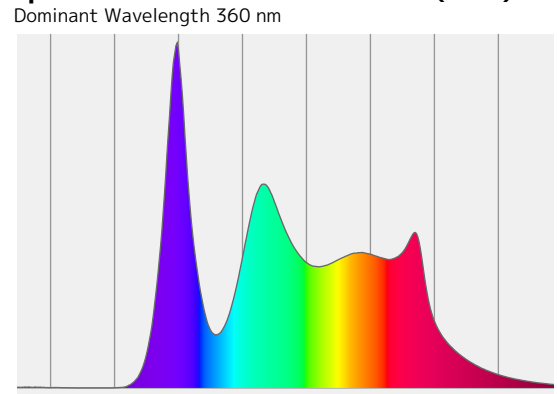
**CIE 1931 ZOOMED**



**CRI: 93.0 (R1-R8)**

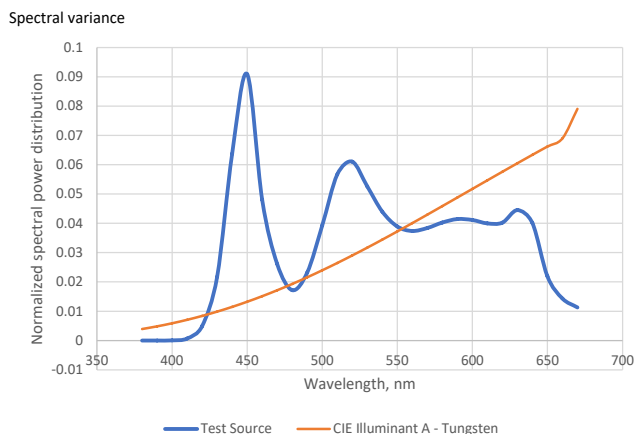


**Spectral Power Distribution (SPD)**



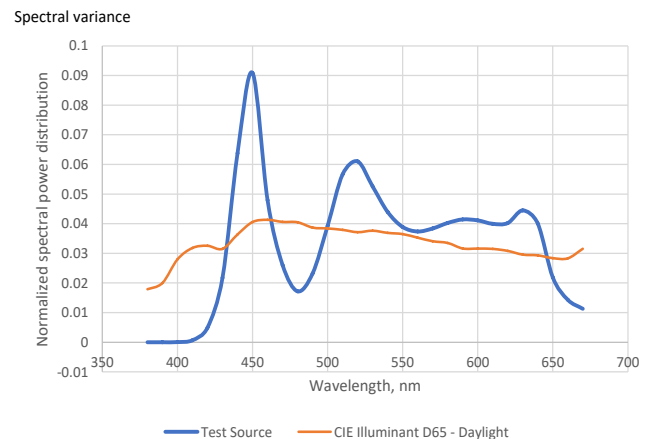
**SSI Spectral Variance Graph- Tungsten**

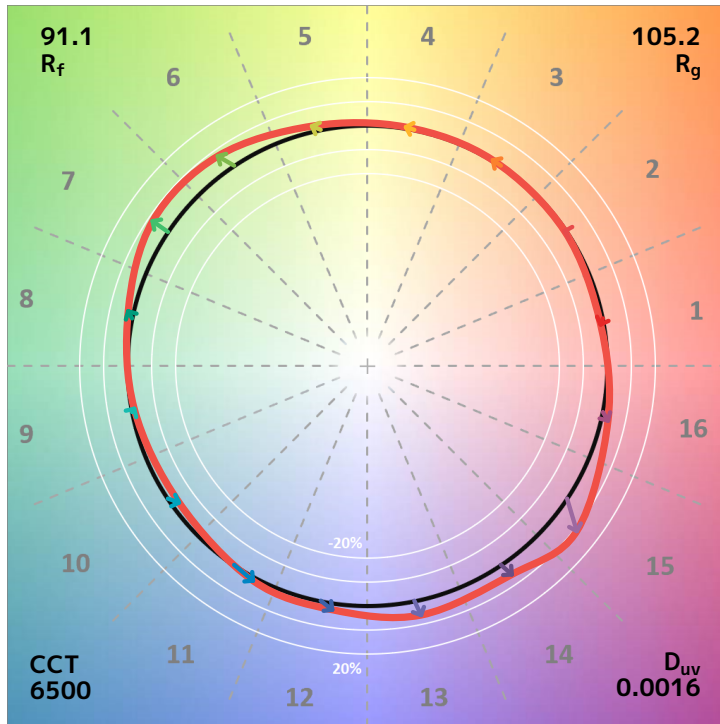
SSI [CIE A] 21



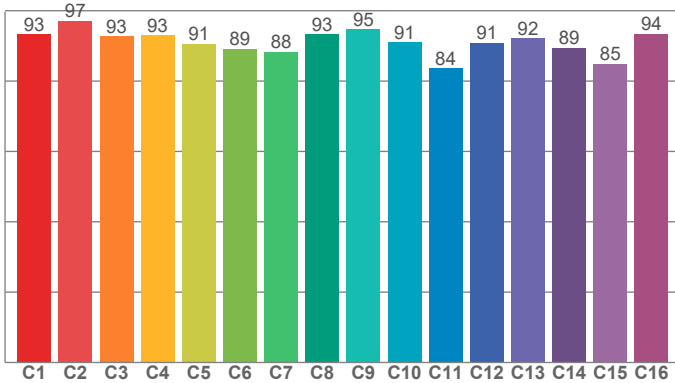
**SSI Spectral Variance Graph- Daylight**

SSI [CIE D65] 57

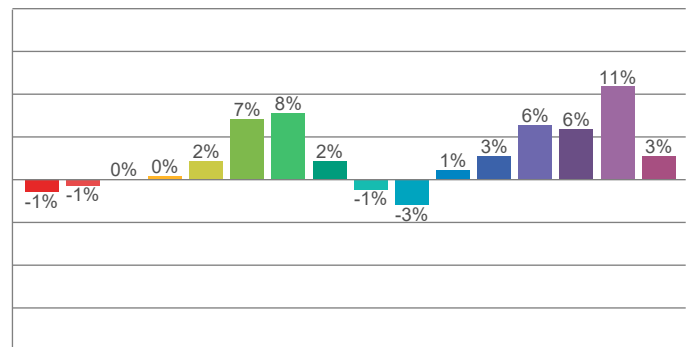




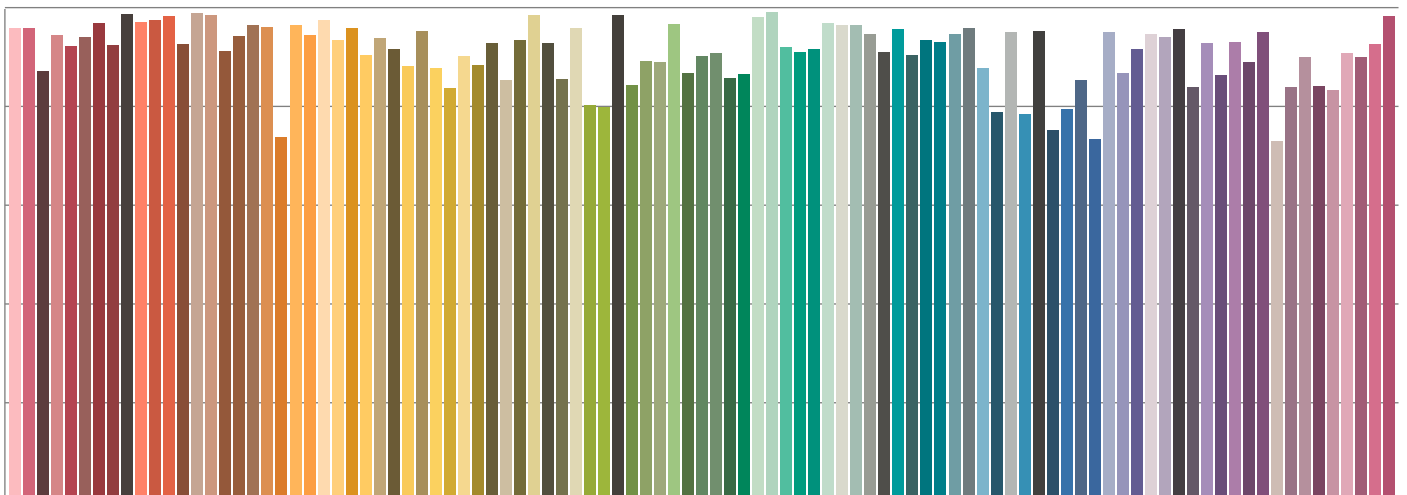
TM30-18 R<sub>f</sub> Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R<sub>f</sub> Values per Reference Color (CES)

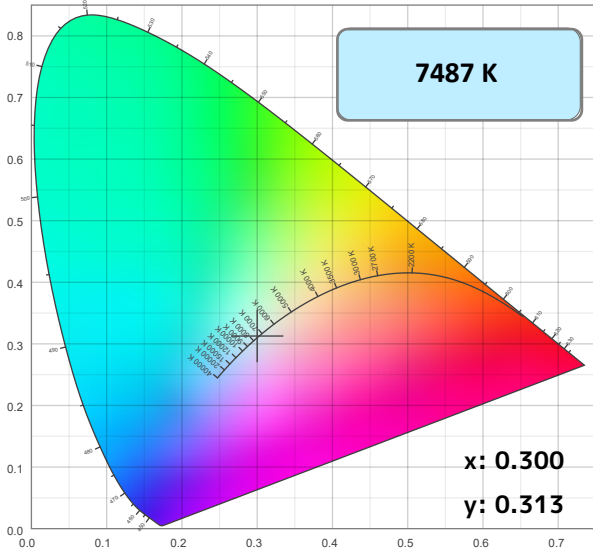


### Color Temperature: 7487K

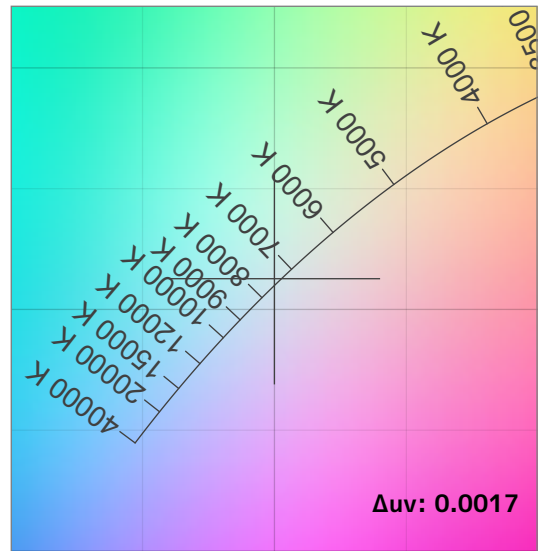
#### Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	TLCI	CQS	x	Y	Δuv	SSIt	SSId
92.6	83.3	90.6	104.8	87	93.4	0.300	0.313	0.0017	13	55

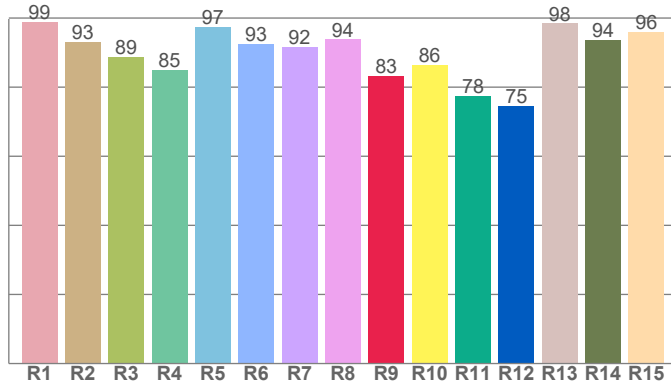
#### CIE 1931



#### CIE 1931 ZOOMED

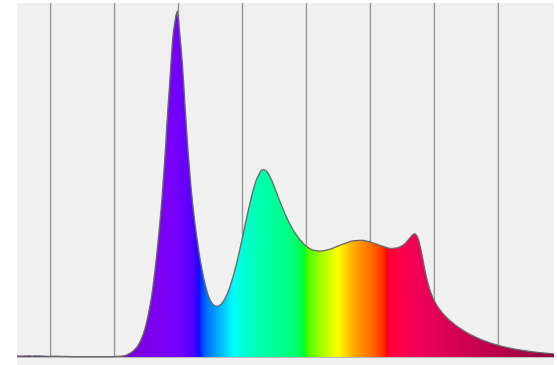


#### CRI: 92.6 (R1-R8)



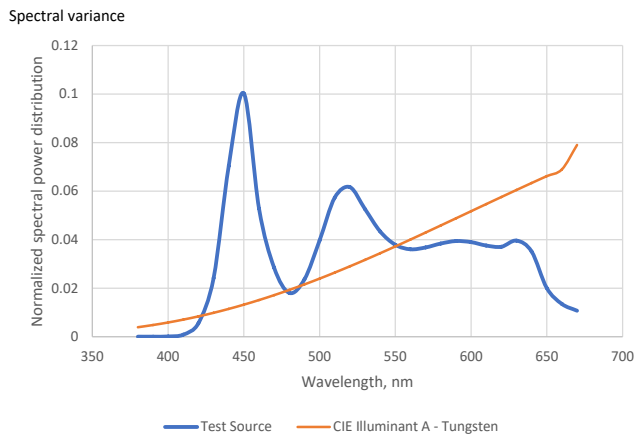
#### Spectral Power Distribution (SPD)

Dominant Wavelength 473 nm



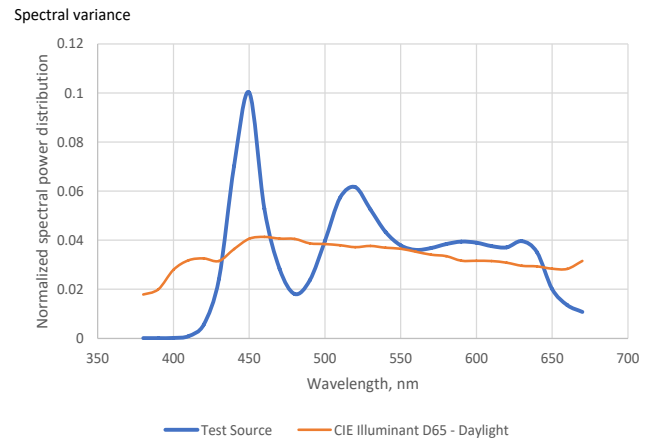
#### SSI Spectral Variance Graph- Tungsten

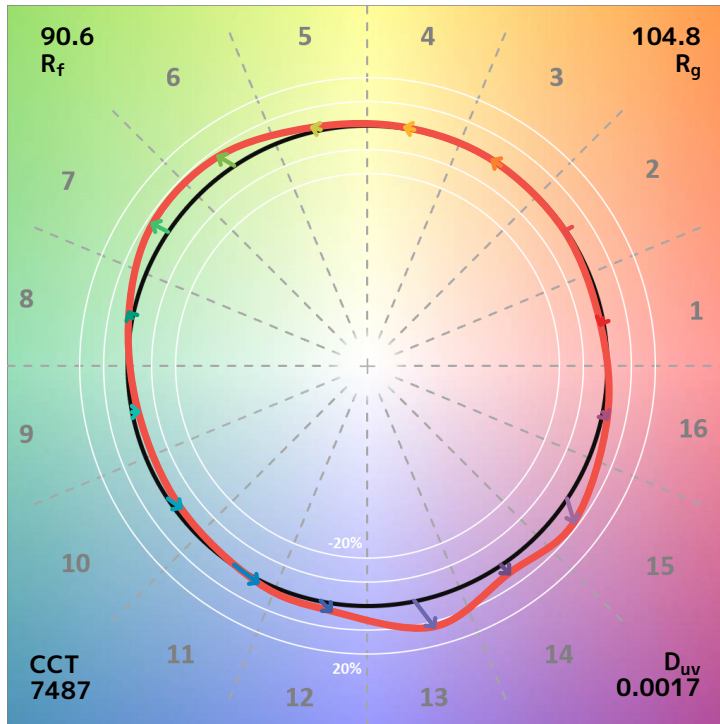
SSI [CIE A] 13



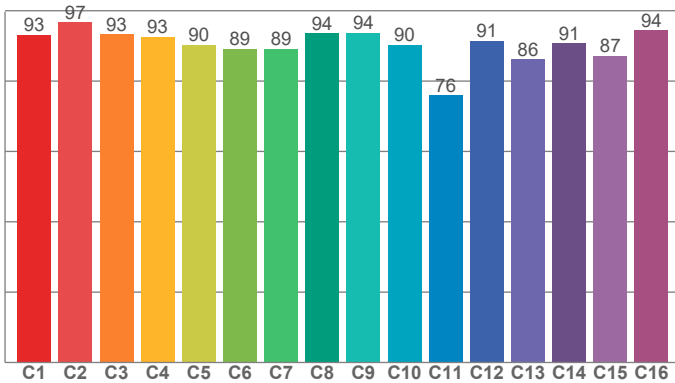
#### SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 55

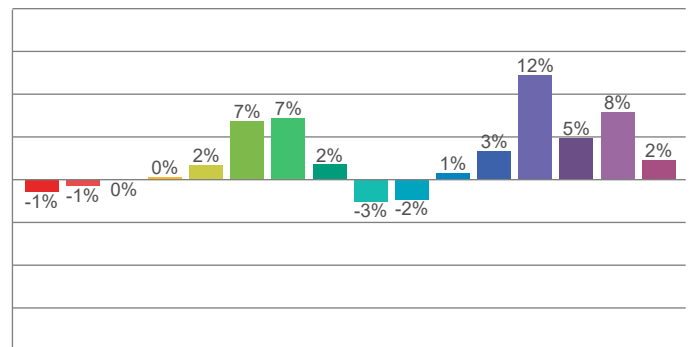




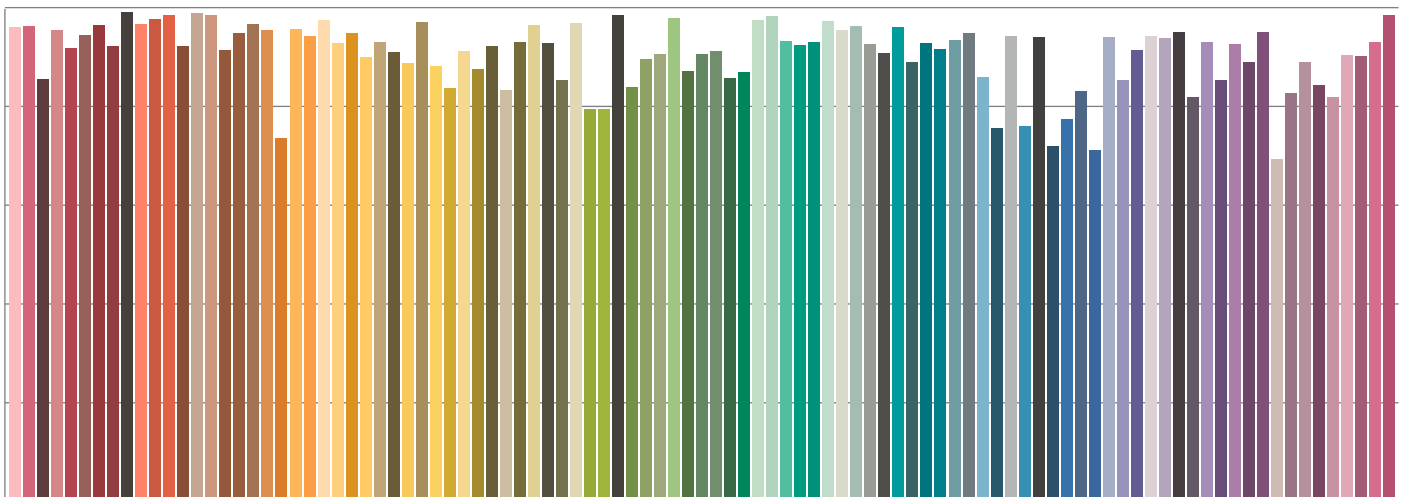
TM30-18  $R_f$  Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18  $R_f$  Values per Reference Color (CES)

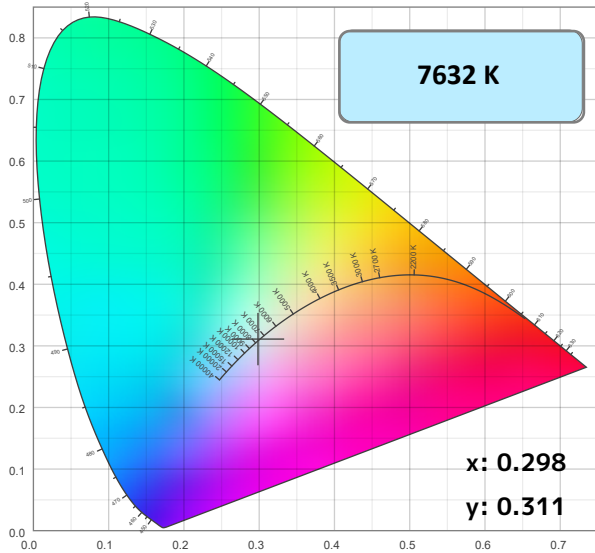


### Color Temperature: 7632K

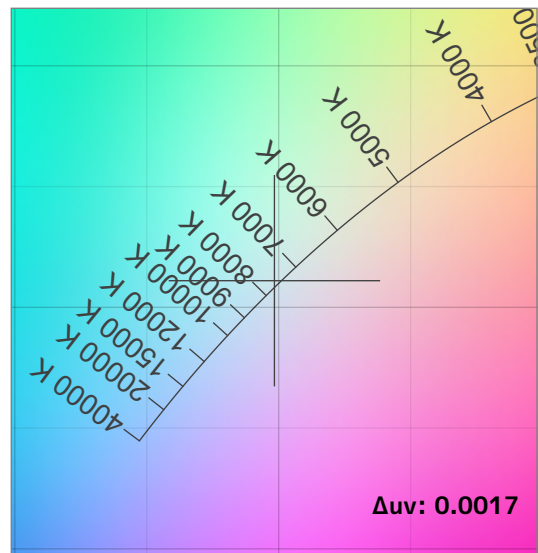
#### Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate- CIE 1931	Color Coordinate- CIE 1931	Deviation from Black Body Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	TLCI	CQS	x	Y	Δuv	SSIt	SSId
92.5	81.3	90.5	105.1	87	93.2	0.298	0.311	0.0017	12	55

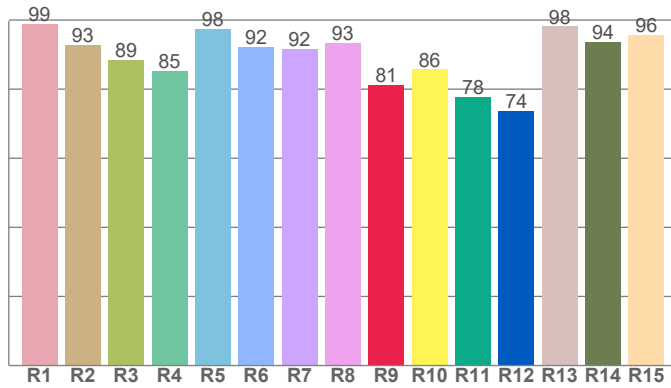
**CIE 1931**



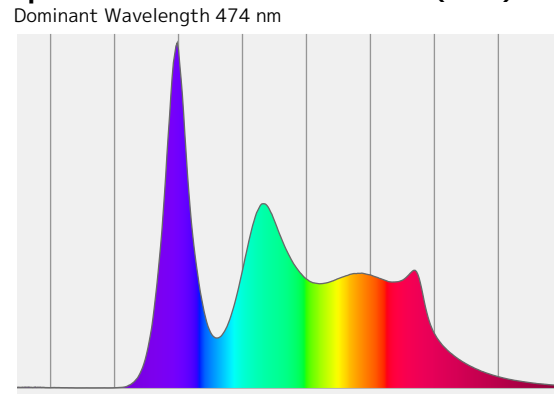
**CIE 1931 ZOOMED**



**CRI: 92.5 (R1-R8)**

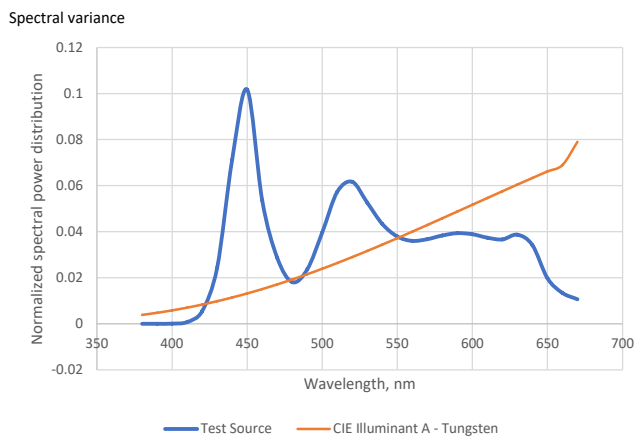


**Spectral Power Distribution (SPD)**



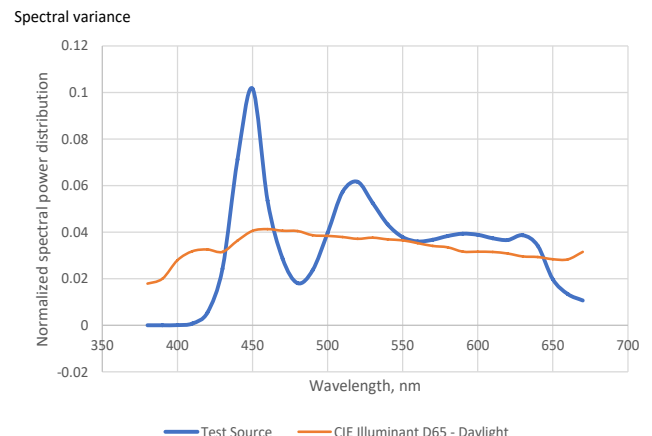
**SSI Spectral Variance Graph- Tungsten**

SSI [CIE A] 12

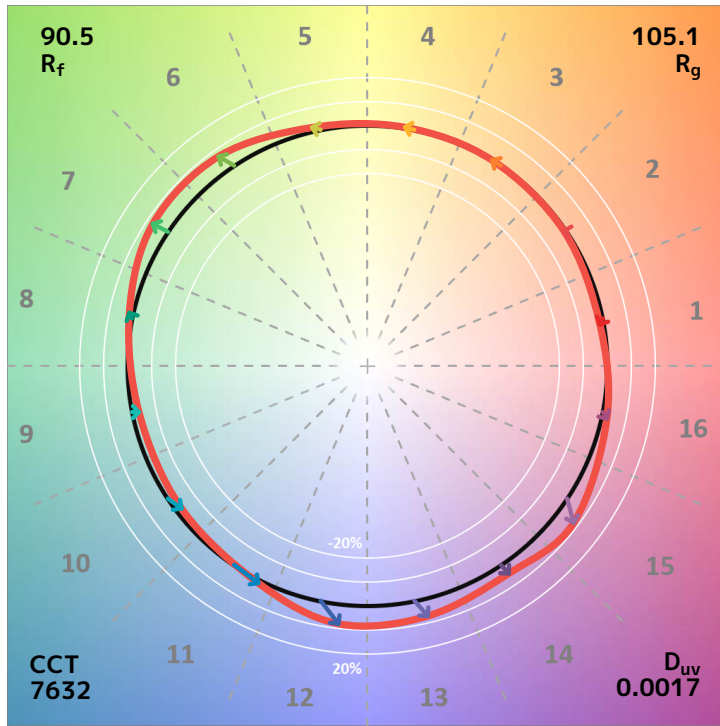


**SSI Spectral Variance Graph- Daylight**

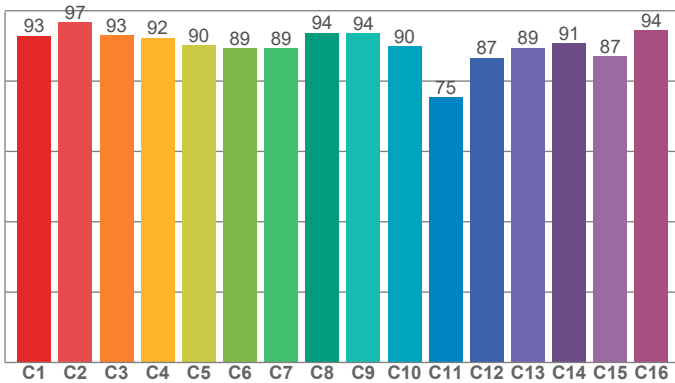
SSI [CIE D65] 55



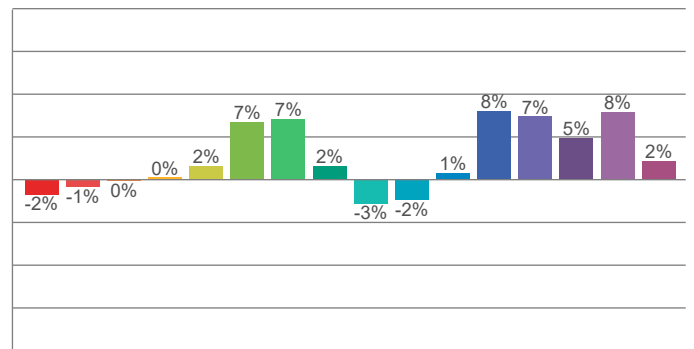




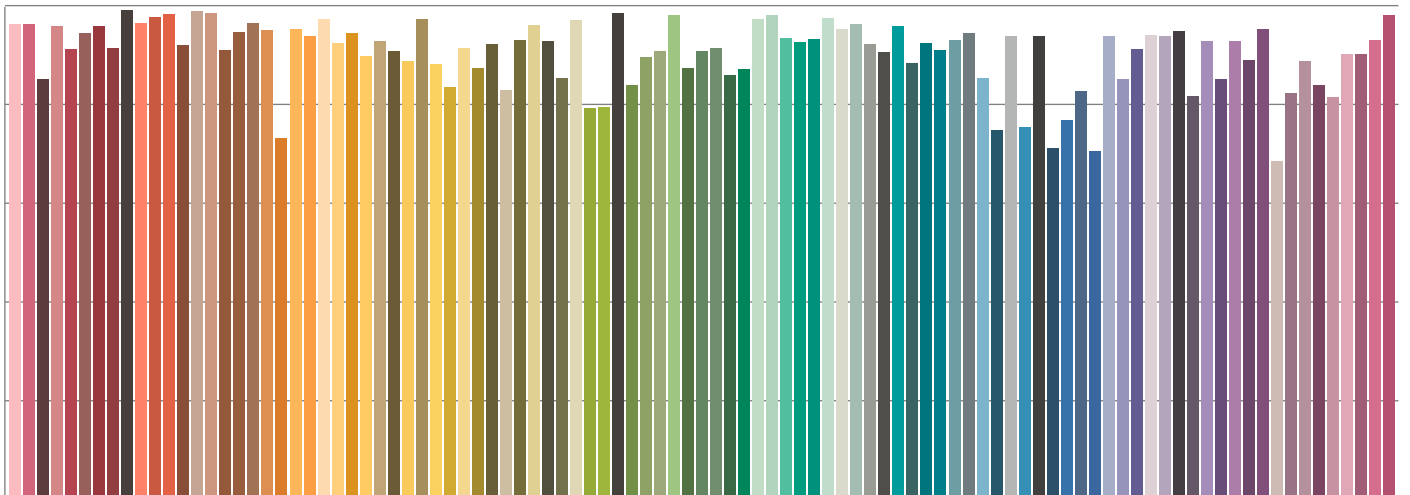
TM30-18 R<sub>f</sub> Values per Hue Bin



TM30 Chroma Shift per Hue Bin

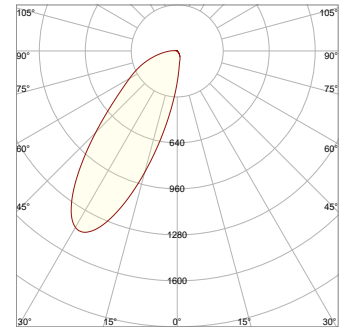
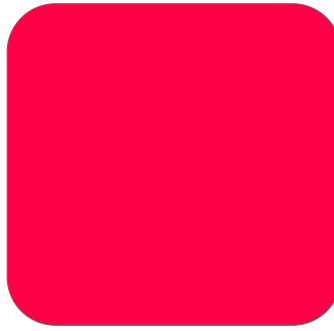


TM30-18 R<sub>f</sub> Values per Reference Color (CES)

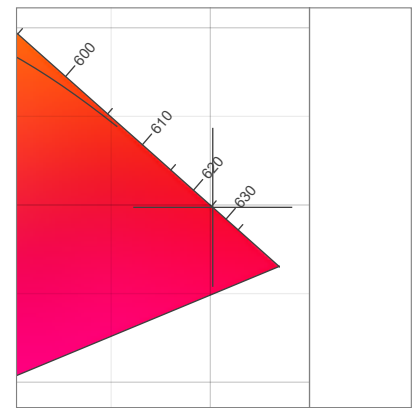
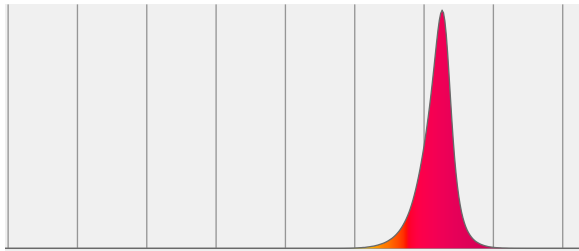


### Measurements

Total Lumen Output: 1722 lm  
 Peak Intensity: 215 cd  
 Efficacy: 20 Lumen/Watt  
 Power: 86.0 W  
 Voltage: 120 V, Current: - A

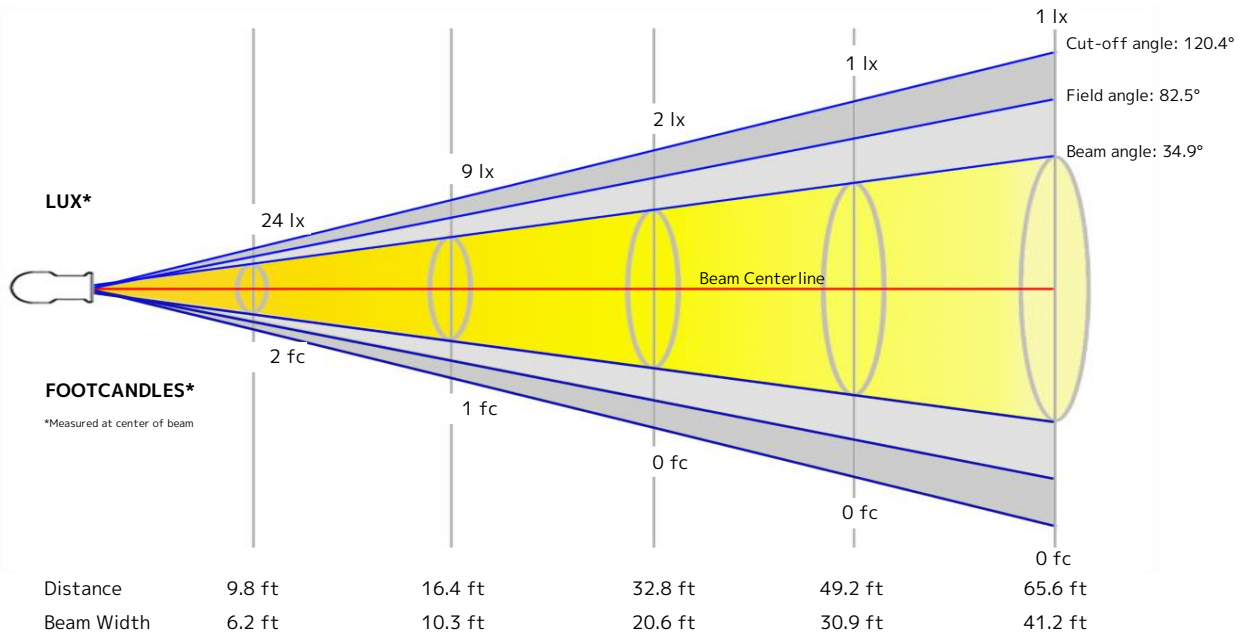


### Spectral Power Distribution Dominant Wavelength 625 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
625	0.701	0.299	0.541	0.346

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.9 m	3.1 m	6.3 m	9.4 m	12.6 m

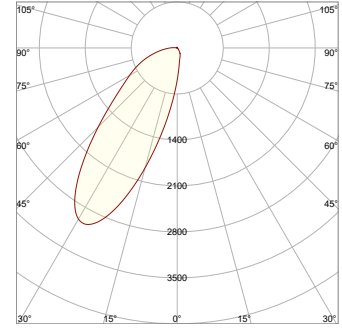
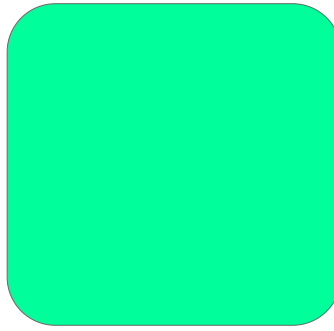


#### Beam Intensities from 1-20m

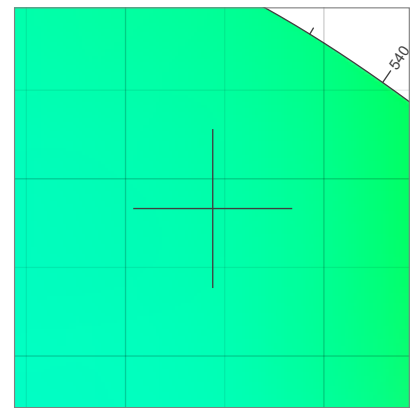
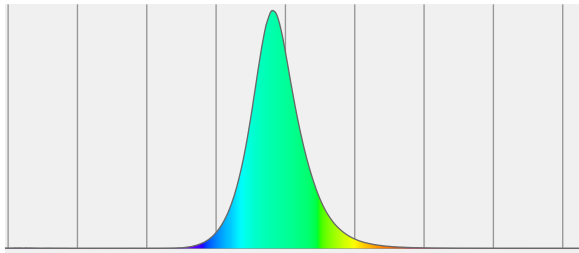
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>FT</b>	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
<b>LX</b>	215	54	24	13	9	6	4	3	3	2	2	1	1	1	1	1	1	1	1	1
<b>FC</b>	20	5	2.2	1.2	0.8	0.6	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0

### Measurements

Total Lumen Output: 3706 lm  
 Peak Intensity: 482 cd  
 Efficacy: 36 Lumen/Watt  
 Power: 103 W  
 Voltage: 121 V, Current: - A

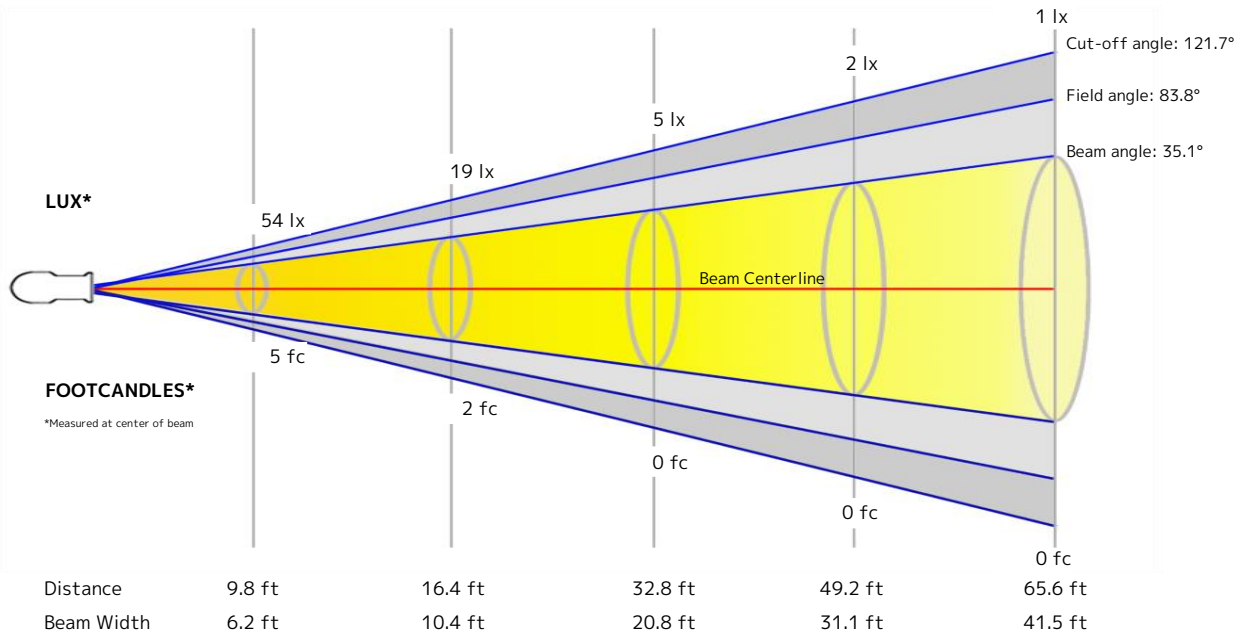


### Spectral Power Distribution Dominant Wavelength 520 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
520	0.144	0.683	0.053	0.376

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.9 m	3.2 m	6.3 m	9.5 m	12.7 m

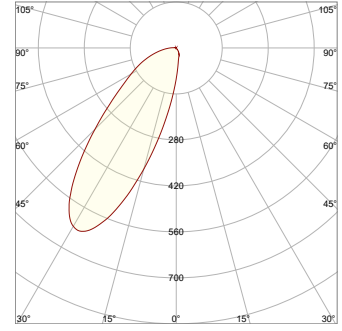
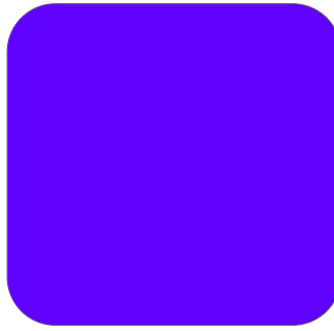


### Beam Intensities from 1-20m

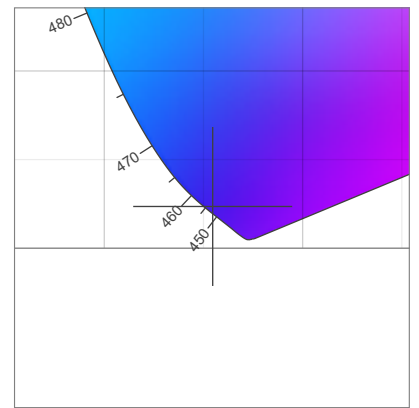
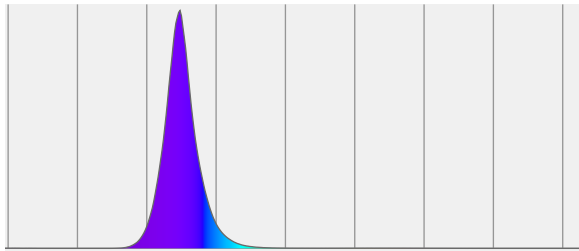
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
LX	482	121	54	30	19	13	10	8	6	5	4	3	3	2	2	2	2	1	1	1
FC	44.8	11.2	5	2.8	1.8	1.2	0.9	0.7	0.6	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1

### Measurements

Total Lumen Output: 741 lm  
Peak Intensity: 92.9 cd  
Efficacy: 8 Lumen/Watt  
Power: 96.0 W  
Voltage: 120 V, Current: - A

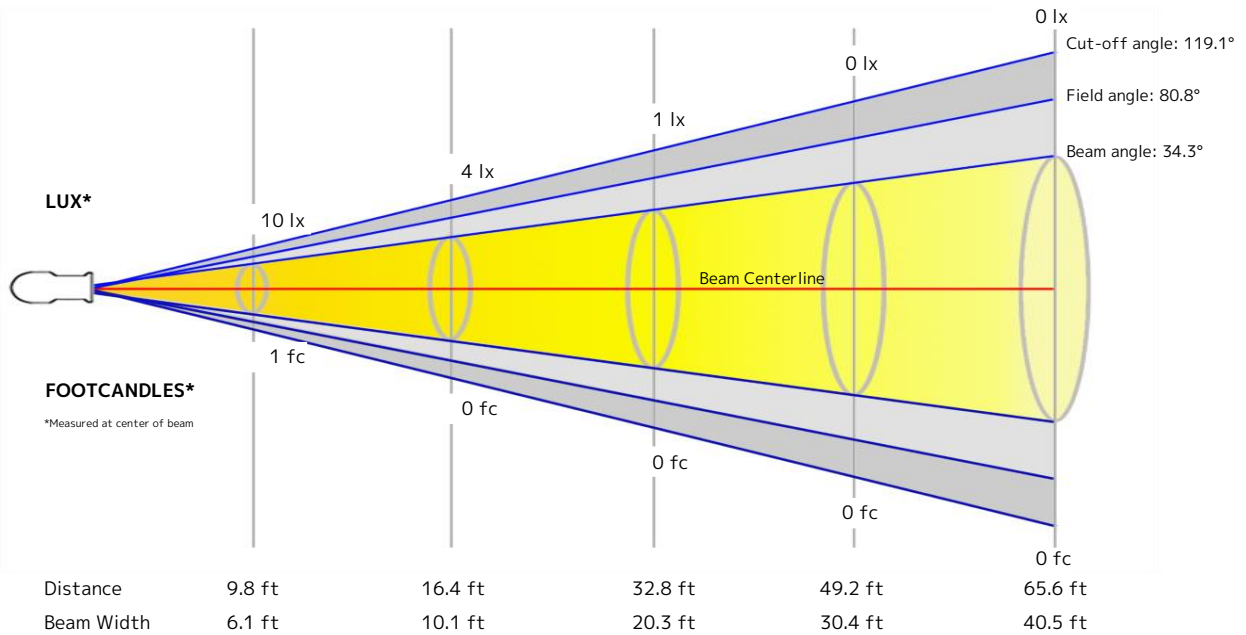


### Spectral Power Distribution Dominant Wavelength 453 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
453	0.155	0.024	0.208	0.048

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.9 m	3.1 m	6.2 m	9.3 m	12.4 m

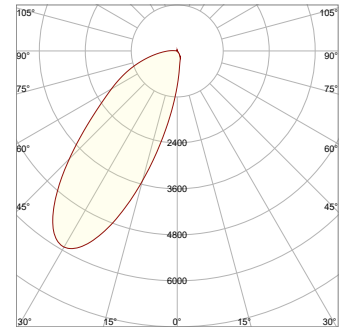
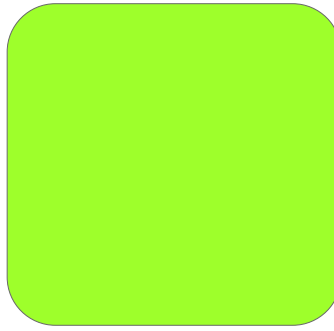


#### Beam Intensities from 1-20m

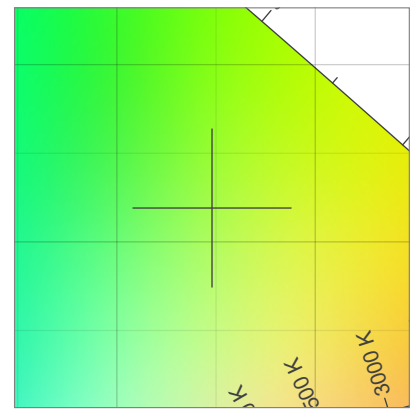
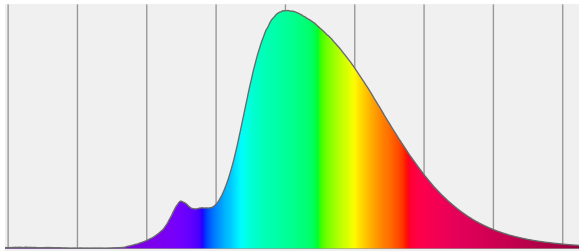
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
LX	93	23	10	6	4	3	2	1	1	1	1	1	1	0	0	0	0	0	0	0
FC	8.6	2.2	1	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0

### Measurements

Total Lumen Output: 7950 lm  
 Peak Intensity: 909 cd  
 Efficacy: 79 Lumen/Watt  
 Power: 100 W  
 Voltage: 120 V, Current: - A

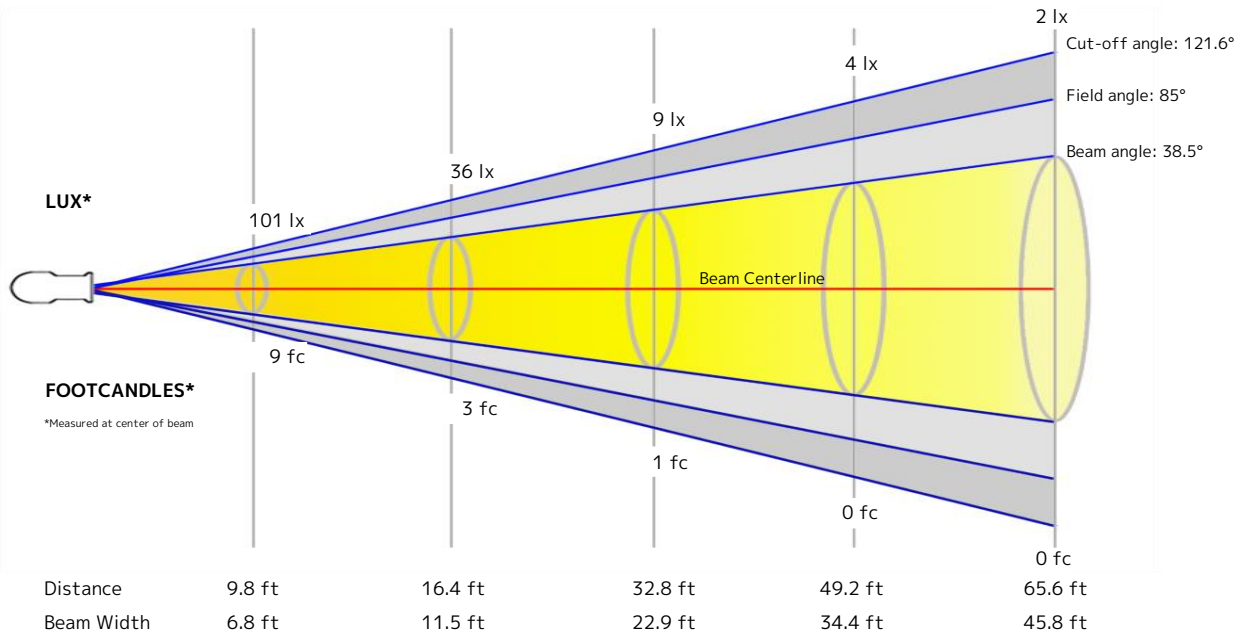


### Spectral Power Distribution Dominant Wavelength 559 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
559	0.348	0.519	0.163	0.365

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7 m	10.5 m	14 m

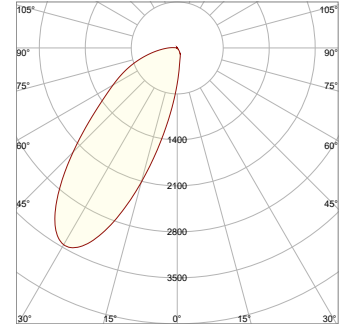
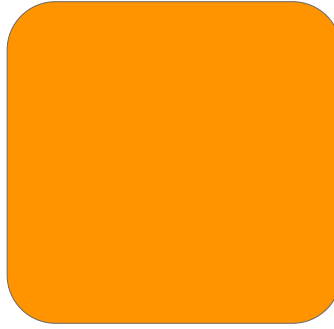


### Beam Intensities from 1-20m

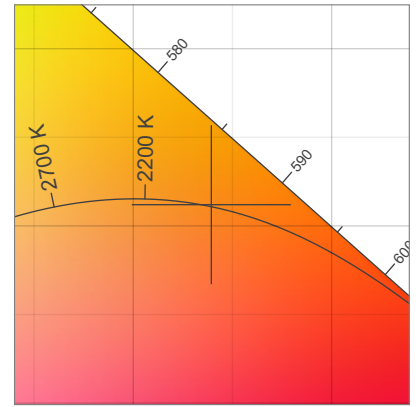
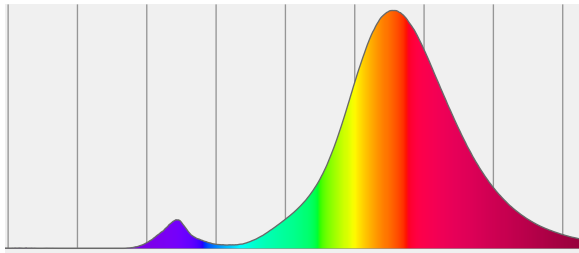
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
LX	909	227	101	57	36	25	19	14	11	9	8	6	5	5	4	4	3	3	3	2
FC	84.4	21.1	9.4	5.3	3.4	2.3	1.7	1.3	1	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2

### Measurements

Total Lumen Output: 4585 lm  
 Peak Intensity: 540 cd  
 Efficacy: 47 Lumen/Watt  
 Power: 98.0 W  
 Voltage: 121 V, Current: - A

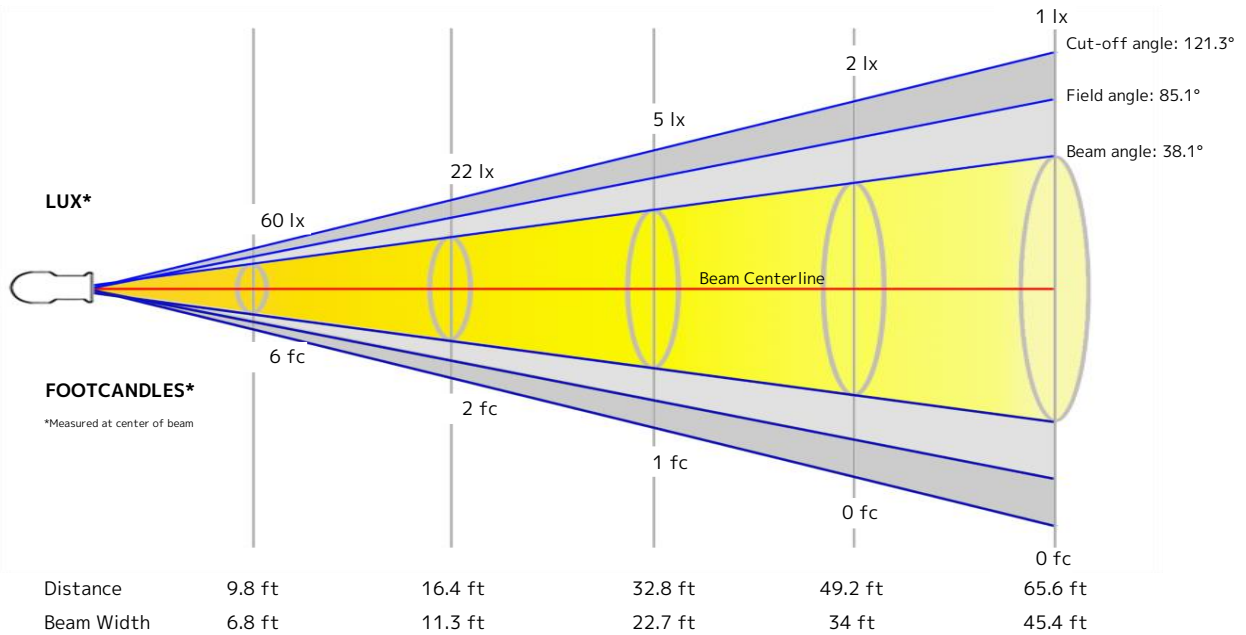


### Spectral Power Distribution Dominant Wavelength 590 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
590	0.539	0.412	0.314	0.360

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	6.9 m	10.4 m	13.8 m



### Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
LX	540	135	60	34	22	15	11	8	7	5	4	4	3	3	2	2	2	2	1	1
FC	50.1	12.5	5.6	3.1	2	1.4	1	0.8	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1