

## Photometric Test Report

### IES FLOOD REPORT

PHOTOMETRIC FILENAME : L03121115.IES

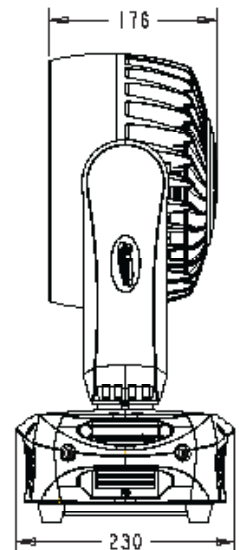
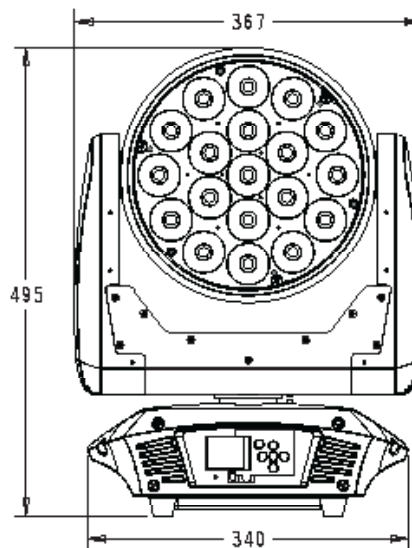
### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L03121115  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUE DATE] 3/23/2012  
[MANUFAC] ELATION  
[LUMCAT] PLATINUM WASH ZFX PRO  
[LUMINAIRE] 10.55"L. X 14.45"W. X 17.32"H. QUAD COLOR HO RGBW MOVING HEAD WASH FIXTURE  
[MORE] 19 15W OSRAM HO RGBW LEDS WITH MOTORIZED ZOOM  
[MORE] FLAT CLEAR ACRYLIC LENS  
[MORE] TESTED WITH RED ON ONLY/ZOOM IN  
[BALLASTCAT] N/A  
[BALLAST] 100-240VAC 50-60Hz ELECTRONIC  
[LAMPPOSITION] 0,0  
[LAMPCAT] 15W OSRAM HO RGBW LEDS  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 120VAC, 95.25W  
[\_TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	1 H x 1 V
Maximum Candela	19920
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	8.1
Vertical Beam Angle (50%)	8.1
Horizontal Field Angle (10%)	15.5
Vertical Field Angle (10%)	15.5
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	211
Beam Efficiency	N.A.
Field Lumens	413
Field Efficiency	N.A.
Spill Lumens	242
Luminaire Lumens	655
Total Efficiency	N.A.
Total Luminaire Watts	95.25
Ballast Factor	1.00

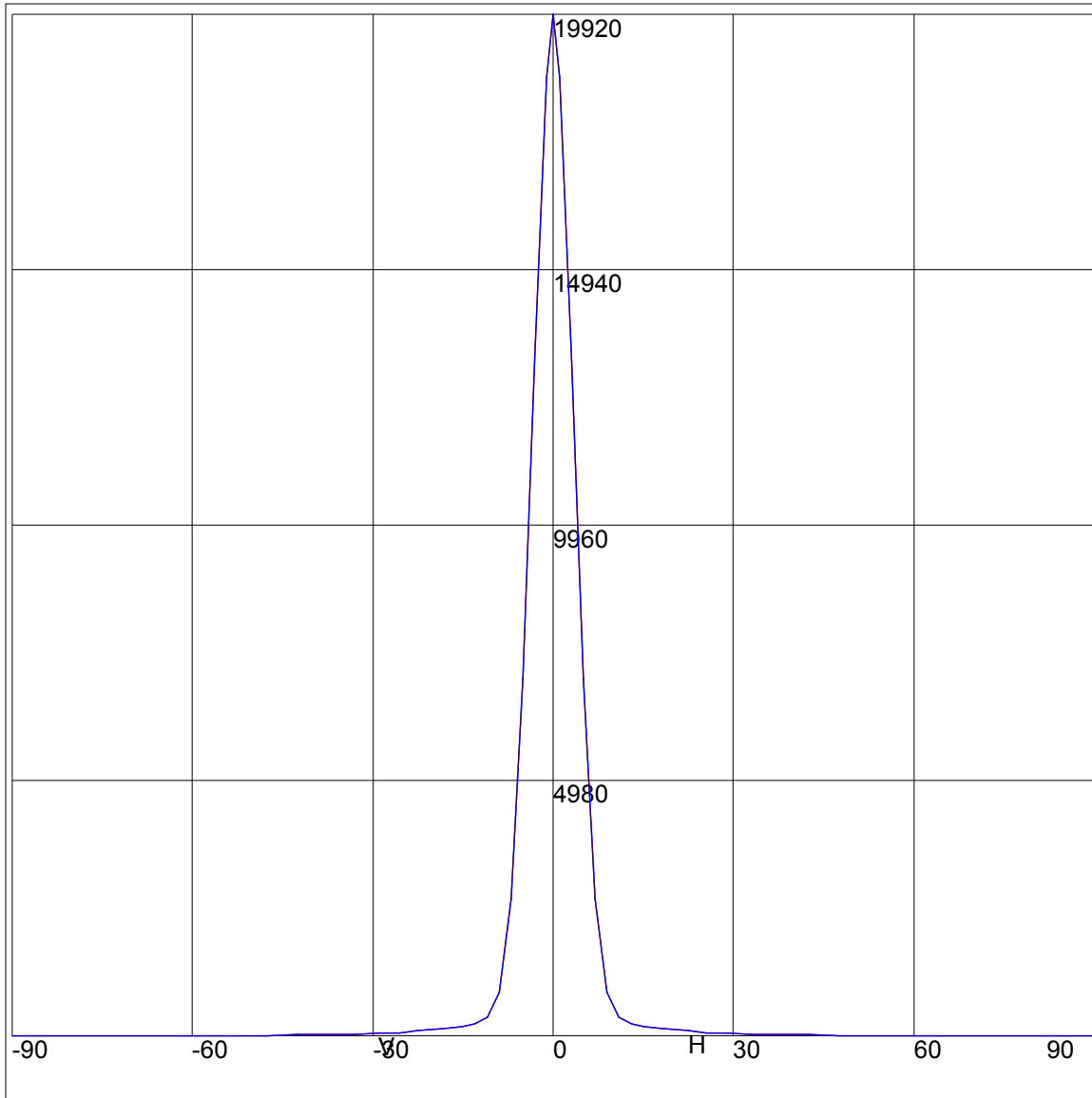


**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L03121115.IES**

**AXIAL CANDELA**

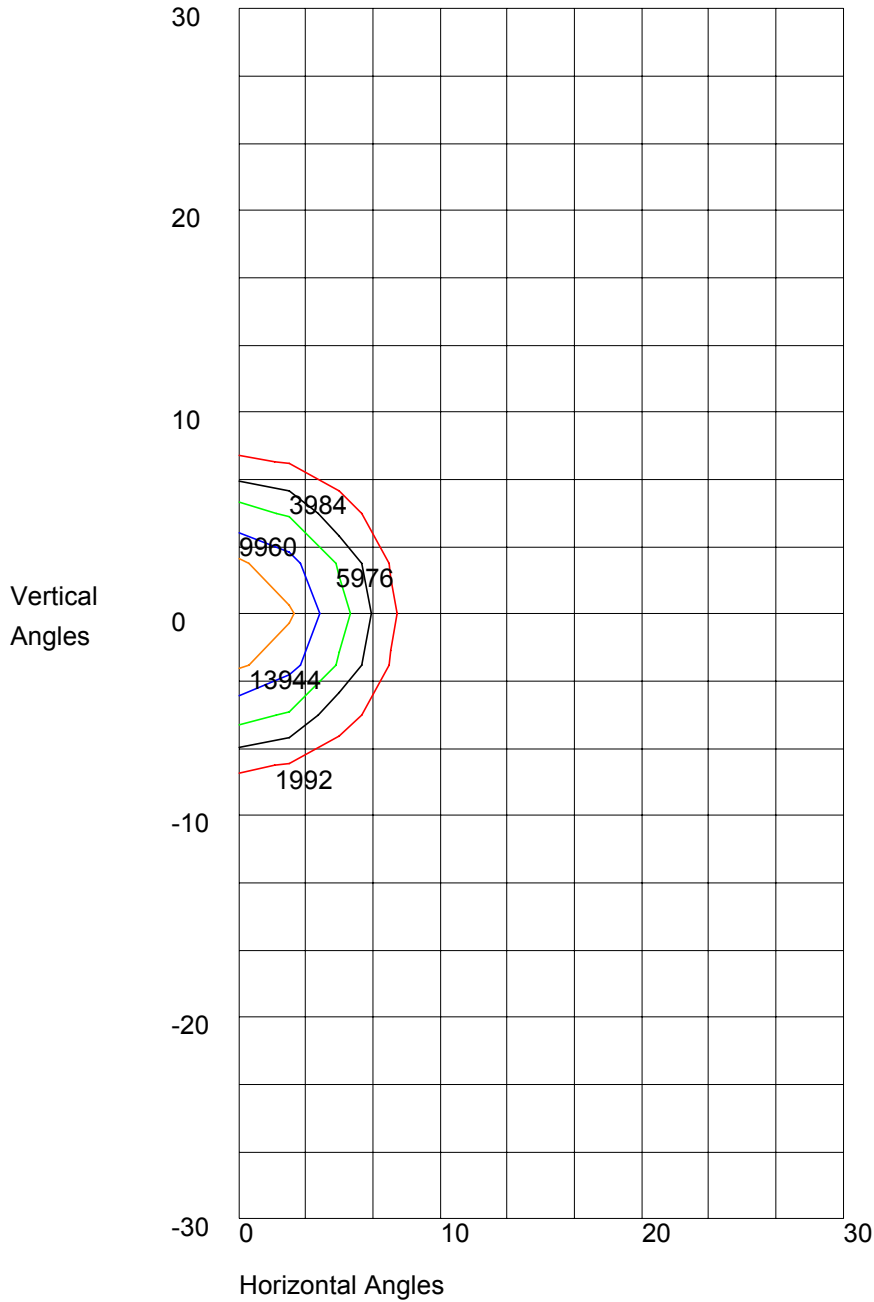
DEG.	HOR.	DEG.	VERT.
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85	9	85	9
75	10	75	10
65	12	65	12
55	17	55	17
47.5	22	47.5	22
42.5	26	42.5	26
37.5	33	37.5	33
33	42	33	42
29	55	29	55
25.5	76	25.5	76
22.5	104	22.5	104
19.5	135	19.5	135
17	165	17	165
15	197	15	197
13	252	13	252
11	383	11	383
9	863	9	863
7	2692	7	2692
5	6961	5	6961
3	13219	3	13219
1	18701	1	18701
0	19920	0	19920
-1	18701	-1	18701
-3	13219	-3	13219
-5	6961	-5	6961
-7	2692	-7	2692
-9	863	-9	863
-11	383	-11	383
-13	252	-13	252
-15	197	-15	197
-17	165	-17	165
-19.5	135	-19.5	135
-22.5	104	-22.5	104
-25.5	76	-25.5	76
-29	55	-29	55
-33	42	-33	42
-37.5	33	-37.5	33
-42.5	26	-42.5	26
-47.5	22	-47.5	22
-55	17	-55	17
-65	12	-65	12
-75	10	-75	10
-85	9	-85	9
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 19920 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 19920 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 9960  
10% Maximum Candela = 1992

## Photometric Test Report

### IES FLOOD REPORT

PHOTOMETRIC FILENAME : L03121116.IES

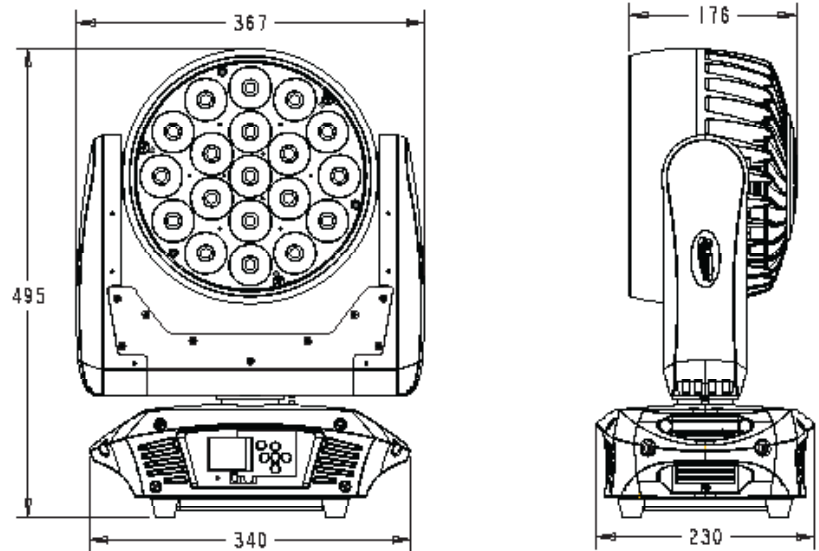
### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L03121116  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 3/23/2012  
[MANUFAC] ELATION  
[LUMCAT] PLATINUM WASH ZFX PRO  
[LUMINAIRE] 10.55"L. X 14.45"W. X 17.32"H. QUAD COLOR HO RGBW MOVING HEAD WASH FIXTURE  
[MORE] 19 15W OSRAM HO RGBW LEDS WITH MOTORIZED ZOOM  
[MORE] FLAT CLEAR ACRYLIC LENS  
[MORE] TESTED WITH GREEN ON ONLY/ZOOM IN  
[BALLASTCAT] N/A  
[BALLAST] 100-240VAC 50-60Hz ELECTRONIC  
[LAMPPOSITION] 0,0  
[LAMPCAT] 15W OSRAM HO RGBW LEDS  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120VAC, 118.62W  
[TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	1 H x 1 V
Maximum Candela	58596
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	8.3
Vertical Beam Angle (50%)	8.3
Horizontal Field Angle (10%)	16.2
Vertical Field Angle (10%)	16.2
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	627
Beam Efficiency	N.A.
Field Lumens	1293
Field Efficiency	N.A.
Spill Lumens	709
Luminaire Lumens	2002
Total Efficiency	N.A.
Total Luminaire Watts	118.62
Ballast Factor	1.00

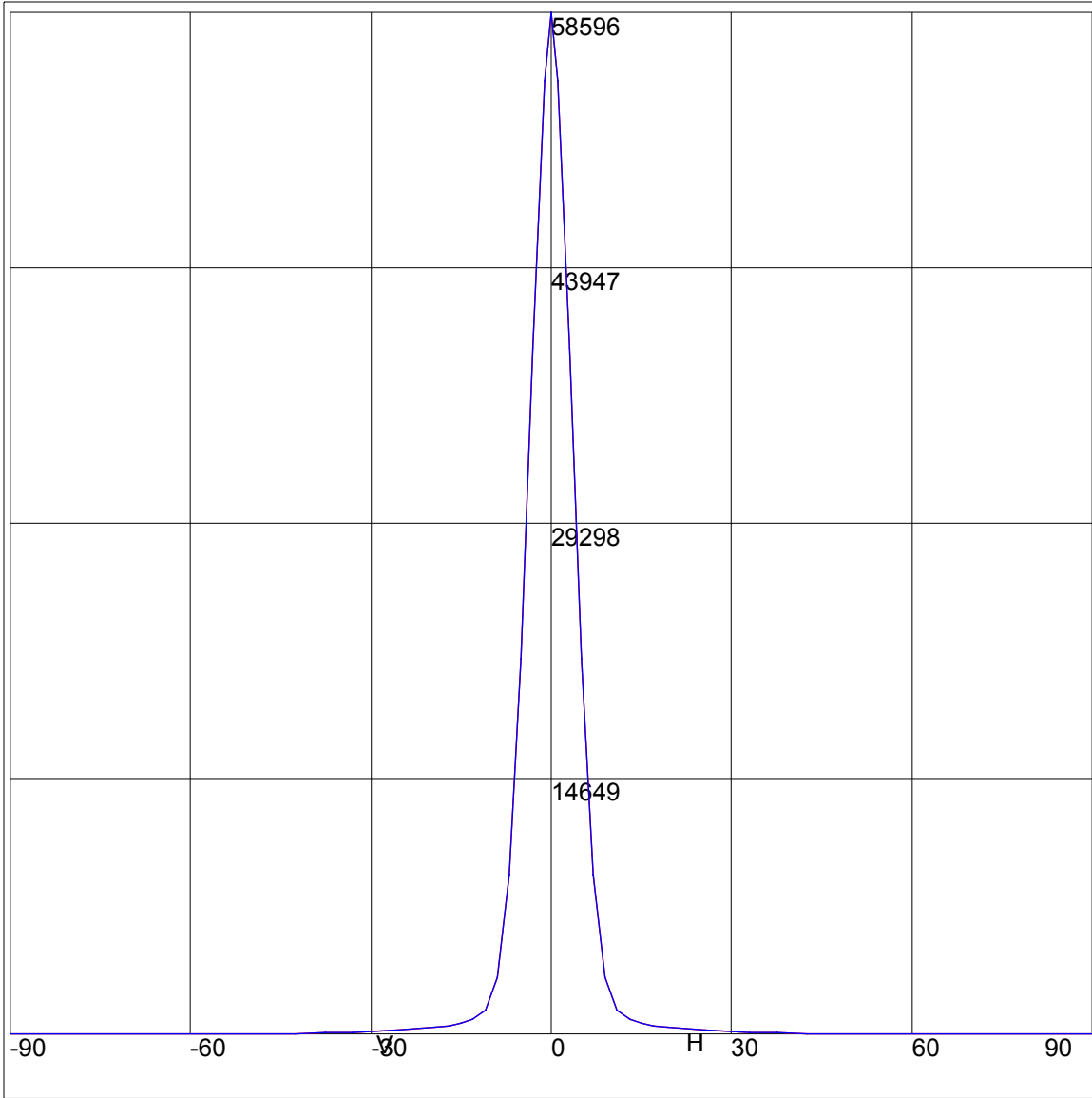


**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L03121116.IES**

**AXIAL CANDELA**

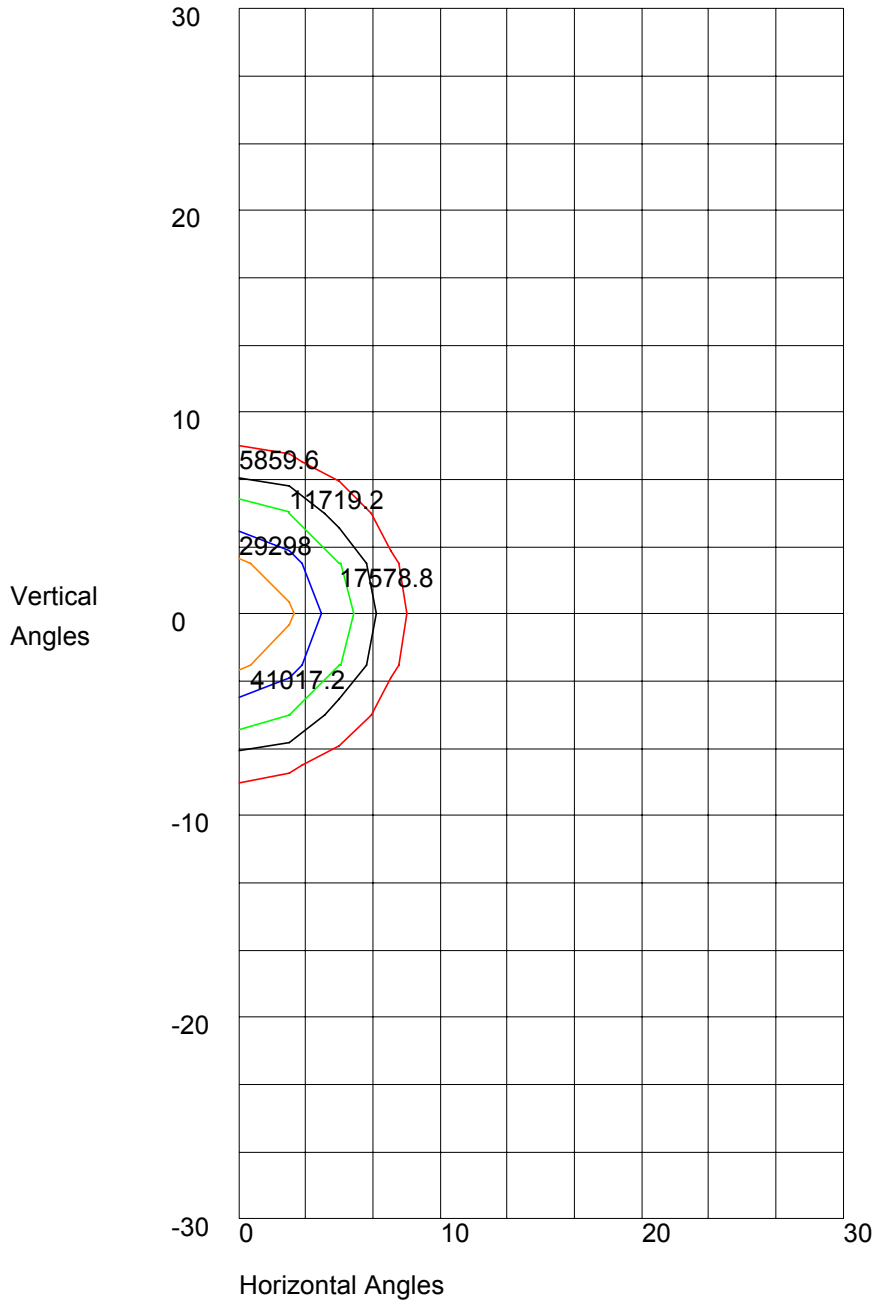
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	20	85	20
75	22	75	22
65	29	65	29
55	43	55	43
47.5	58	47.5	58
42.5	73	42.5	73
37.5	93	37.5	93
33	120	33	120
29	162	29	162
25.5	231	25.5	231
22.5	314	22.5	314
19.5	413	19.5	413
17	508	17	508
15	622	15	622
13	829	13	829
11	1387	11	1387
9	3290	9	3290
7	9135	7	9135
5	21539	5	21539
3	39383	3	39383
1	54704	1	54704
0	58596	0	58596
-1	54704	-1	54704
-3	39383	-3	39383
-5	21539	-5	21539
-7	9135	-7	9135
-9	3290	-9	3290
-11	1387	-11	1387
-13	829	-13	829
-15	622	-15	622
-17	508	-17	508
-19.5	413	-19.5	413
-22.5	314	-22.5	314
-25.5	231	-25.5	231
-29	162	-29	162
-33	120	-33	120
-37.5	93	-37.5	93
-42.5	73	-42.5	73
-47.5	58	-47.5	58
-55	43	-55	43
-65	29	-65	29
-75	22	-75	22
-85	20	-85	20
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 58596 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 58596 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 29298  
10% Maximum Candela = 5859.6



## Photometric Test Report

### IES FLOOD REPORT

PHOTOMETRIC FILENAME : L03121117.IES

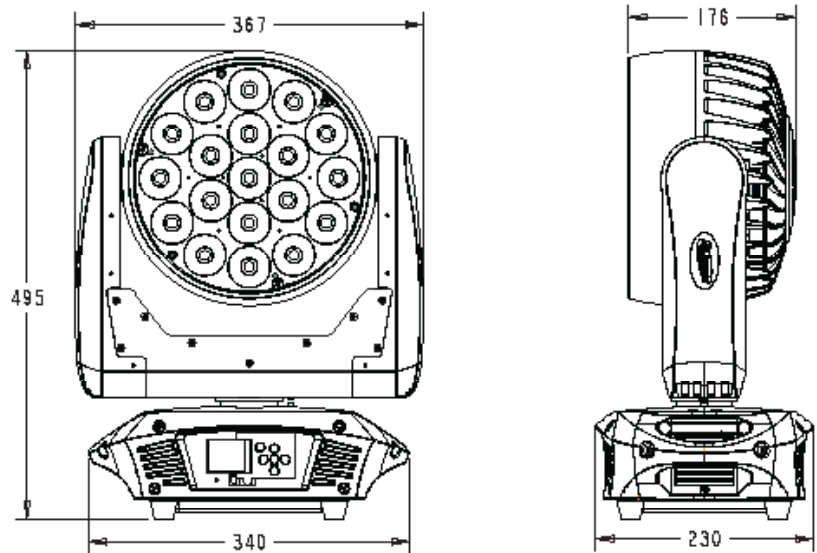
### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L03121117  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 3/23/2012  
[MANUFAC] ELATION  
[LUMCAT] PLATINUM WASH ZFX PRO  
[LUMINAIRE] 10.55"L. X 14.45"W. X 17.32"H. QUAD COLOR HO RGBW MOVING HEAD WASH FIXTURE  
[MORE] 19 15W OSRAM HO RGBW LEDS WITH MOTORIZED ZOOM  
[MORE] FLAT CLEAR ACRYLIC LENS  
[MORE] TESTED WITH BLUE ON ONLY/ZOOM IN  
[BALLASTCAT] N/A  
[BALLAST] 100-240VAC 50-60Hz ELECTRONIC  
[LAMPPOSITION] 0,0  
[LAMPCAT] 15W OSRAM HO RGBW LEDS  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 120VAC, 116.67W  
[\_TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	1 H x 1 V
Maximum Candela	9825
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	7.9
Vertical Beam Angle (50%)	7.9
Horizontal Field Angle (10%)	16.0
Vertical Field Angle (10%)	16.0
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	78
Beam Efficiency	N.A.
Field Lumens	203
Field Efficiency	N.A.
Spill Lumens	123
Luminaire Lumens	325
Total Efficiency	N.A.
Total Luminaire Watts	116.67
Ballast Factor	1.00

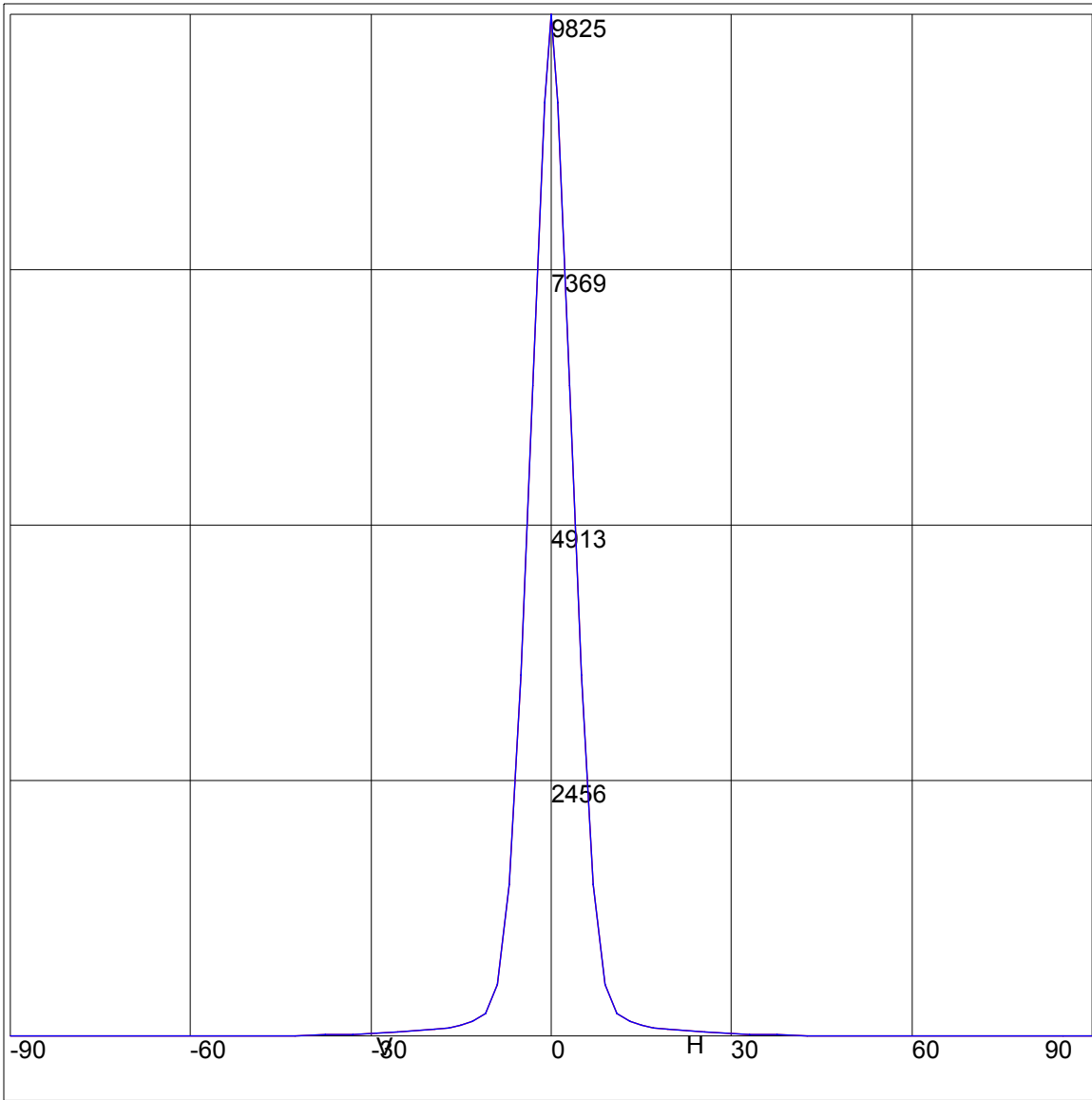


**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L03121117.IES**

**AXIAL CANDELA**

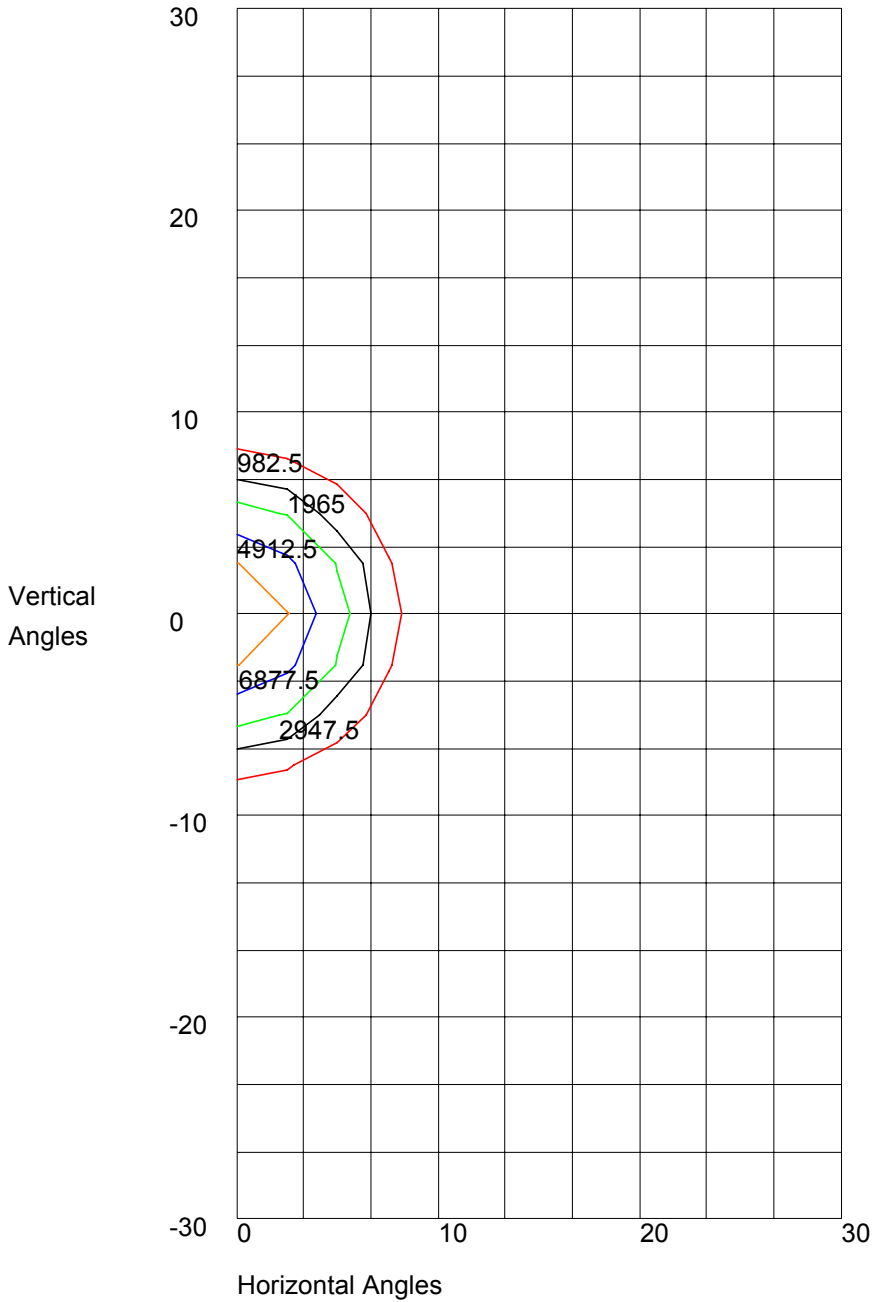
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	3	85	3
75	4	75	4
65	5	65	5
55	7	55	7
47.5	10	47.5	10
42.5	12	42.5	12
37.5	16	37.5	16
33	21	33	21
29	28	29	28
25.5	40	25.5	40
22.5	54	22.5	54
19.5	71	19.5	71
17	88	17	88
15	107	15	107
13	139	13	139
11	217	11	217
9	503	9	503
7	1455	7	1455
5	3468	5	3468
3	6257	3	6257
1	8976	1	8976
0	9825	0	9825
-1	8976	-1	8976
-3	6257	-3	6257
-5	3468	-5	3468
-7	1455	-7	1455
-9	503	-9	503
-11	217	-11	217
-13	139	-13	139
-15	107	-15	107
-17	88	-17	88
-19.5	71	-19.5	71
-22.5	54	-22.5	54
-25.5	40	-25.5	40
-29	28	-29	28
-33	21	-33	21
-37.5	16	-37.5	16
-42.5	12	-42.5	12
-47.5	10	-47.5	10
-55	7	-55	7
-65	5	-65	5
-75	4	-75	4
-85	3	-85	3
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 9825 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 9825 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 4912.5  
10% Maximum Candela = 982.5

## Photometric Test Report

**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L03121118.IES**

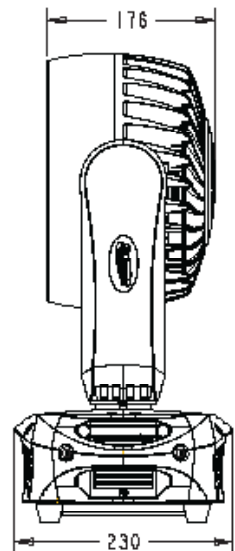
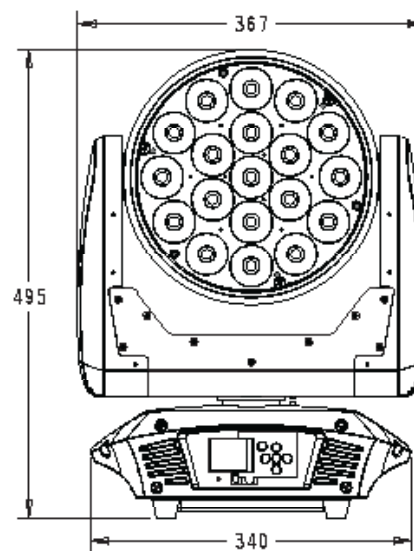
### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L03121118  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 3/23/2012  
[MANUFAC] ELATION  
[LUMCAT] PLATINUM WASH ZFX PRO  
[LUMINAIRE] 10.55"L. X 14.45"W. X 17.32"H. QUAD COLOR HO RGBW MOVING HEAD WASH FIXTURE  
[MORE] 19 15W OSRAM HO RGBW LEDS WITH MOTORIZED ZOOM  
[MORE] FLAT CLEAR ACRYLIC LENS  
[MORE] TESTED WITH WHITE ON ONLY/ZOOM IN  
[BALLASTCAT] N/A  
[BALLAST] 100-240VAC 50-60Hz ELECTRONIC  
[LAMPPOSITION] 0,0  
[LAMPCAT] 15W OSRAM HO RGBW LEDS  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 120VAC, 116.15W  
[\_TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	1 H x 1 V
Maximum Candela	69216
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	8.4
Vertical Beam Angle (50%)	8.4
Horizontal Field Angle (10%)	15.9
Vertical Field Angle (10%)	15.9
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	747
Beam Efficiency	N.A.
Field Lumens	1492
Field Efficiency	N.A.
Spill Lumens	850
Luminaire Lumens	2342
Total Efficiency	N.A.
Total Luminaire Watts	116.15
Ballast Factor	1.00

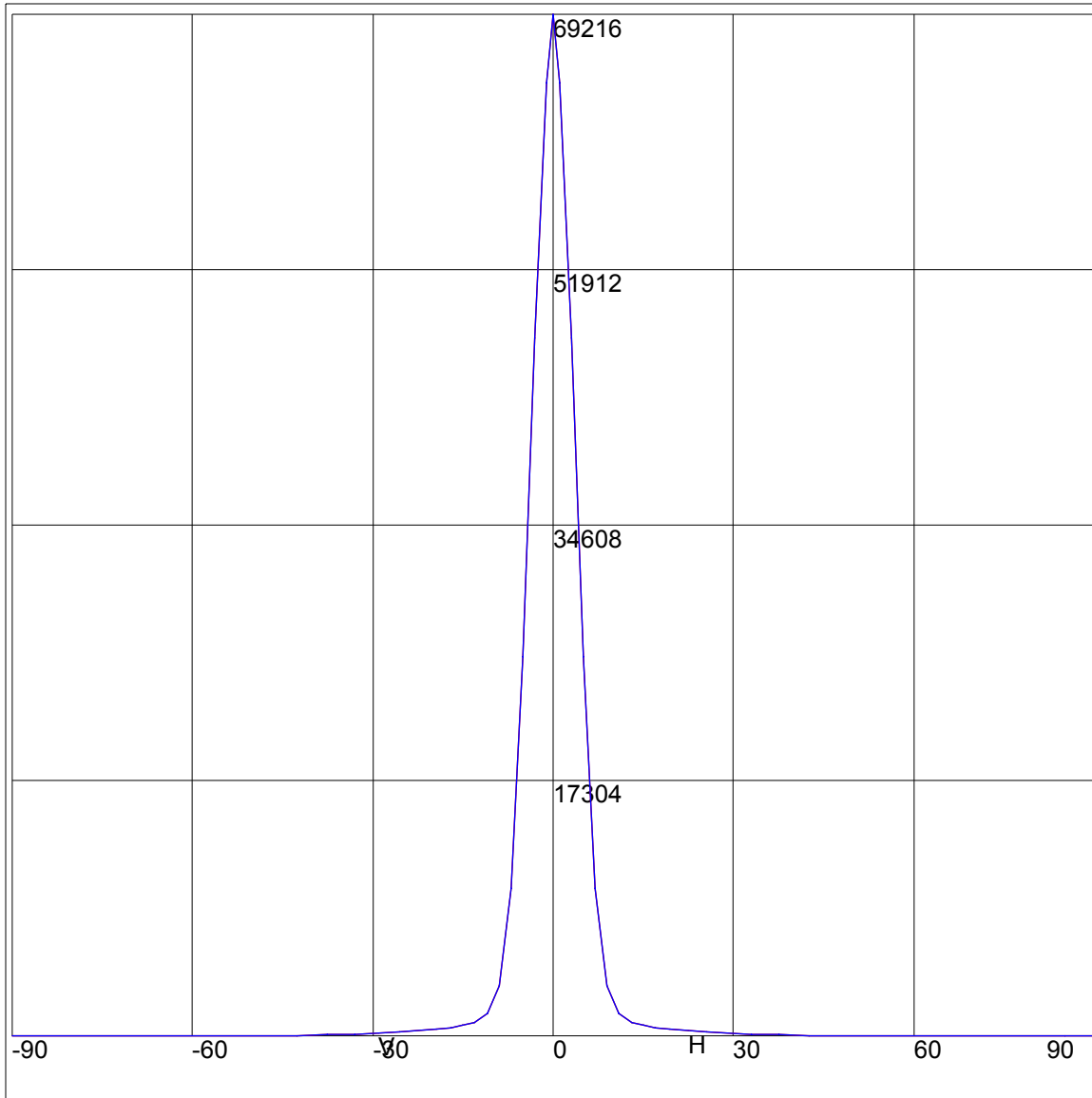


**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L03121118.IES**

**AXIAL CANDELA**

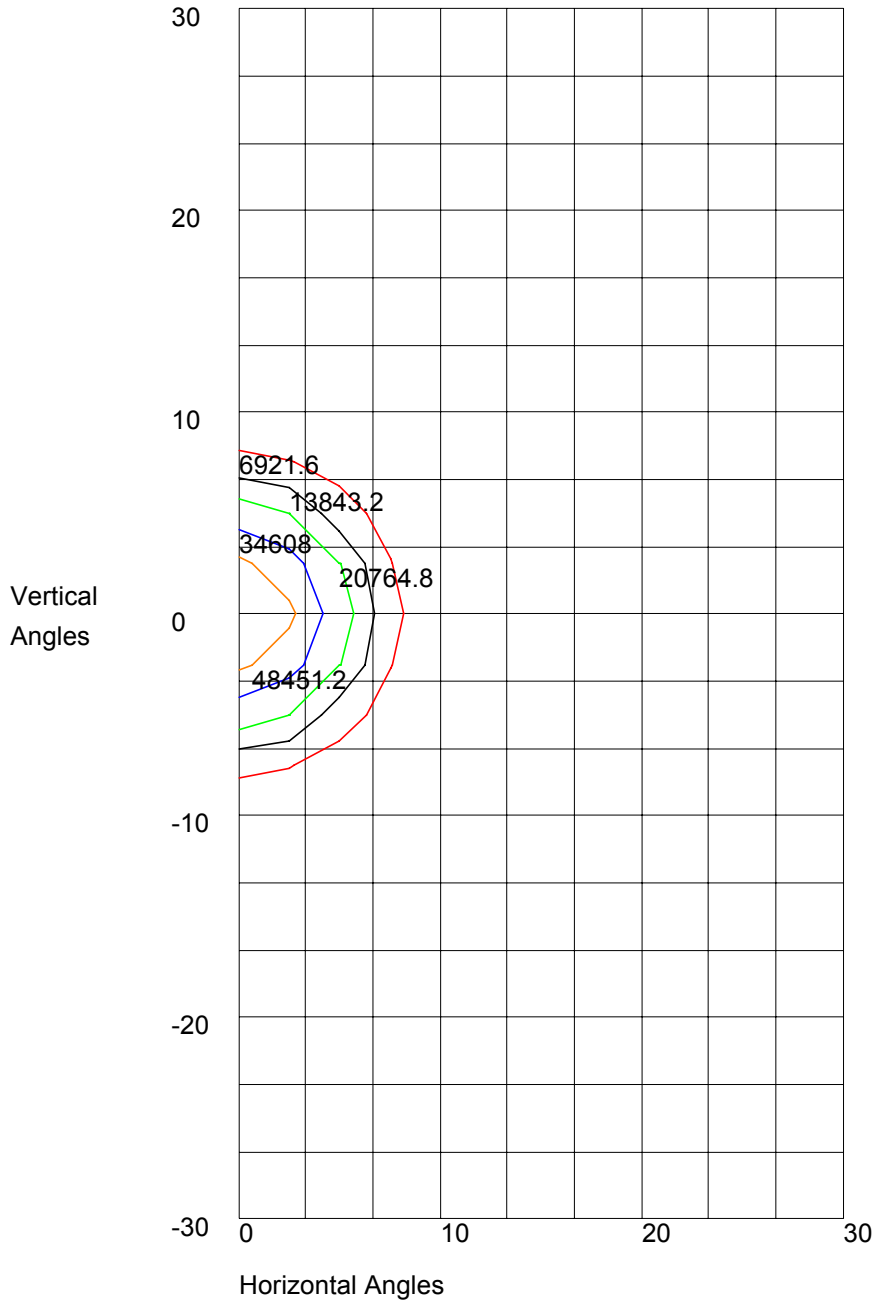
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	25	85	25
75	27	75	27
65	35	65	35
55	51	55	51
47.5	68	47.5	68
42.5	85	42.5	85
37.5	109	37.5	109
33	141	33	141
29	188	29	188
25.5	270	25.5	270
22.5	370	22.5	370
19.5	489	19.5	489
17	615	17	615
15	751	15	751
13	974	13	974
11	1531	11	1531
9	3441	9	3441
7	10061	7	10061
5	25738	5	25738
3	47275	3	47275
1	64579	1	64579
0	69216	0	69216
-1	64579	-1	64579
-3	47275	-3	47275
-5	25738	-5	25738
-7	10061	-7	10061
-9	3441	-9	3441
-11	1531	-11	1531
-13	974	-13	974
-15	751	-15	751
-17	615	-17	615
-19.5	489	-19.5	489
-22.5	370	-22.5	370
-25.5	270	-25.5	270
-29	188	-29	188
-33	141	-33	141
-37.5	109	-37.5	109
-42.5	85	-42.5	85
-47.5	68	-47.5	68
-55	51	-55	51
-65	35	-65	35
-75	27	-75	27
-85	25	-85	25
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 69216 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 69216 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 34608  
10% Maximum Candela = 6921.6



## Photometric Test Report

### IES FLOOD REPORT

PHOTOMETRIC FILENAME : L03121119.IES

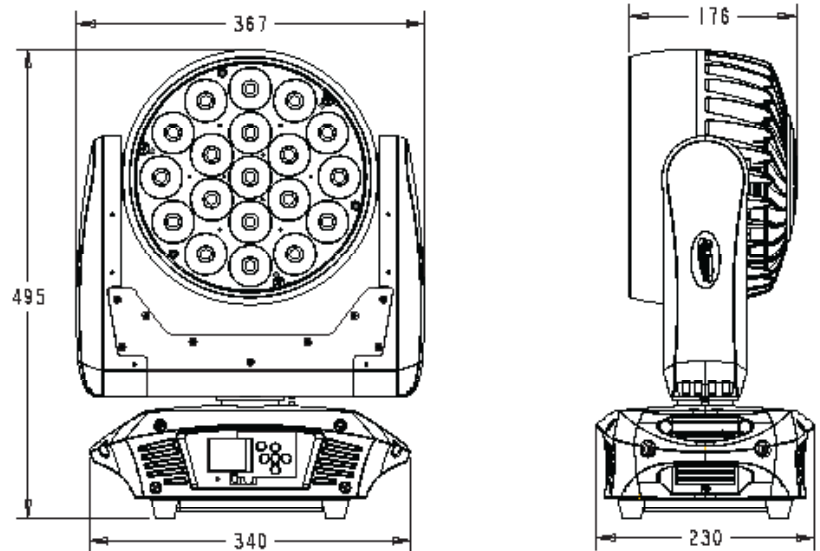
### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L03121119  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 3/23/2012  
[MANUFAC] ELATION  
[LUMCAT] PLATINUM WASH ZFX PRO  
[LUMINAIRE] 10.55"L. X 14.45"W. X 17.32"H. QUAD COLOR HO RGBW MOVING HEAD WASH FIXTURE  
[MORE] 19 15W OSRAM HO RGBW LEDS WITH MOTORIZED ZOOM  
[MORE] FLAT CLEAR ACRYLIC LENS  
[MORE] TESTED WITH FULL ON/ZOOM IN  
[BALLASTCAT] N/A  
[BALLAST] 100-240VAC 50-60Hz ELECTRONIC  
[LAMPPOSITION] 0,0  
[LAMPCAT] 15W OSRAM HO RGBW LEDS  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[\_INPUT] 120VAC, 346.63W  
[\_TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	1 H x 1 V
Maximum Candela	119173
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	8.2
Vertical Beam Angle (50%)	8.2
Horizontal Field Angle (10%)	15.9
Vertical Field Angle (10%)	15.9
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1266
Beam Efficiency	N.A.
Field Lumens	2526
Field Efficiency	N.A.
Spill Lumens	1449
Luminaire Lumens	3975
Total Efficiency	N.A.
Total Luminaire Watts	346.63
Ballast Factor	1.00

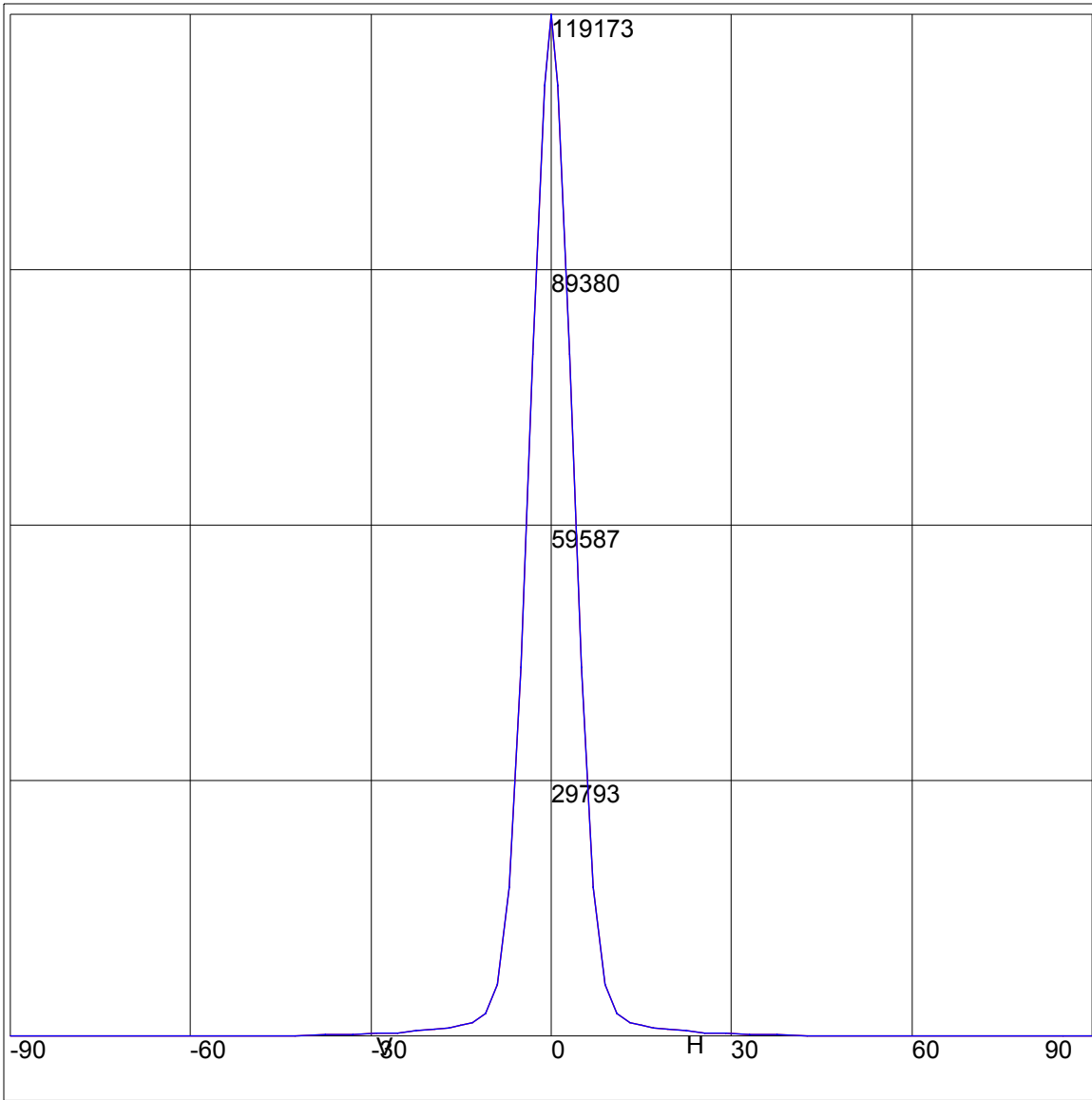


**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L03121119.IES**

**AXIAL CANDELA**

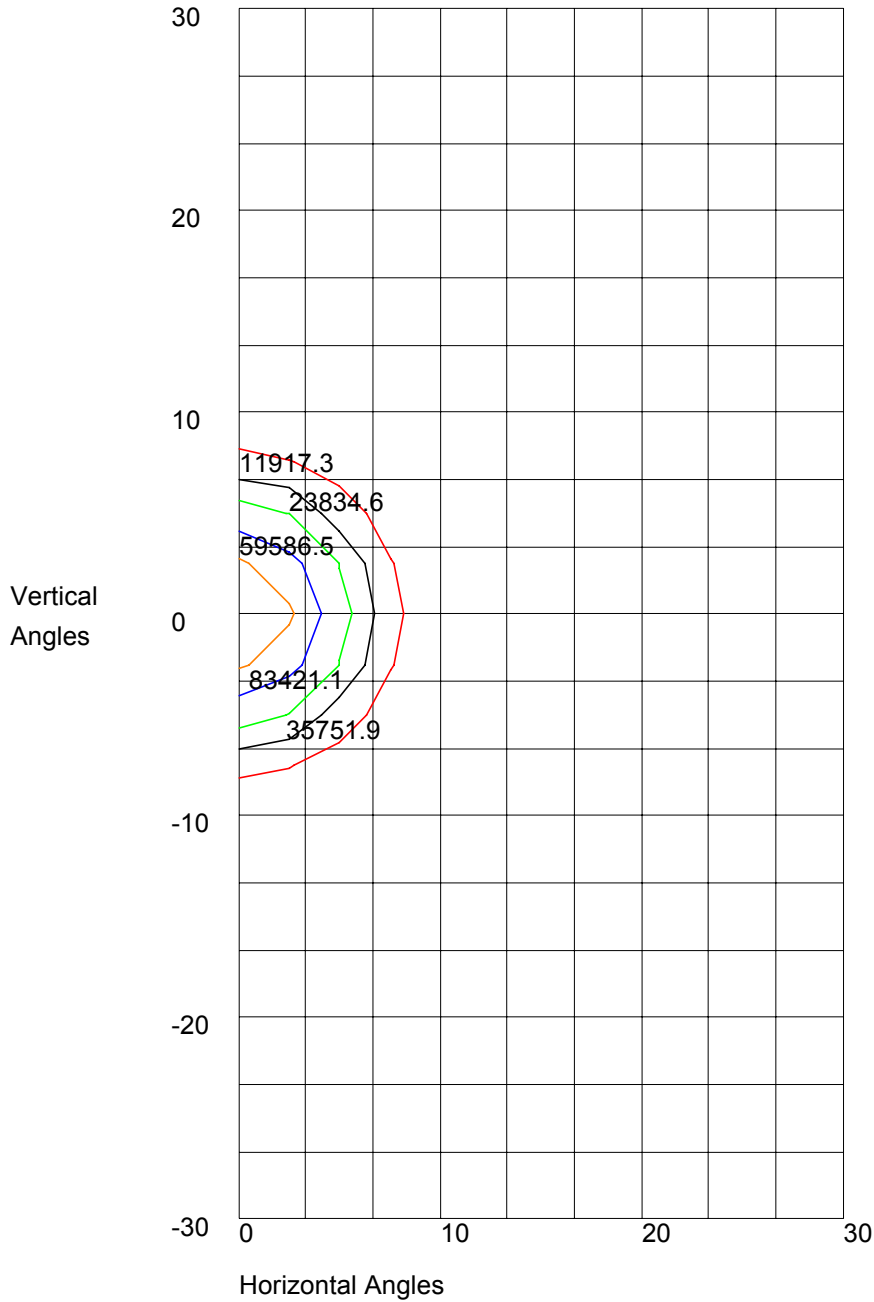
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	42	85	42
75	46	75	46
65	59	65	59
55	87	55	87
47.5	116	47.5	116
42.5	144	42.5	144
37.5	184	37.5	184
33	239	33	239
29	319	29	319
25.5	452	25.5	452
22.5	623	22.5	623
19.5	826	19.5	826
17	1030	17	1030
15	1258	15	1258
13	1644	13	1644
11	2638	11	2638
9	6067	9	6067
7	17393	7	17393
5	43080	5	43080
3	79609	3	79609
1	110908	1	110908
0	119173	0	119173
-1	110908	-1	110908
-3	79609	-3	79609
-5	43080	-5	43080
-7	17393	-7	17393
-9	6067	-9	6067
-11	2638	-11	2638
-13	1644	-13	1644
-15	1258	-15	1258
-17	1030	-17	1030
-19.5	826	-19.5	826
-22.5	623	-22.5	623
-25.5	452	-25.5	452
-29	319	-29	319
-33	239	-33	239
-37.5	184	-37.5	184
-42.5	144	-42.5	144
-47.5	116	-47.5	116
-55	87	-55	87
-65	59	-65	59
-75	46	-75	46
-85	42	-85	42
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 119173 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 119173 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 59586.5  
10% Maximum Candela = 11917.3

## Photometric Test Report

### IES FLOOD REPORT

PHOTOMETRIC FILENAME : L03121120.IES

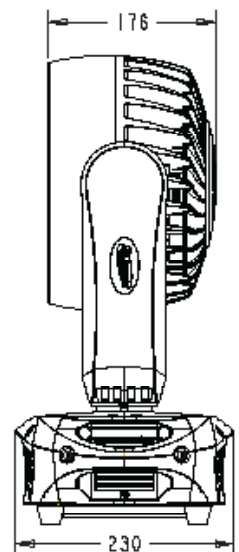
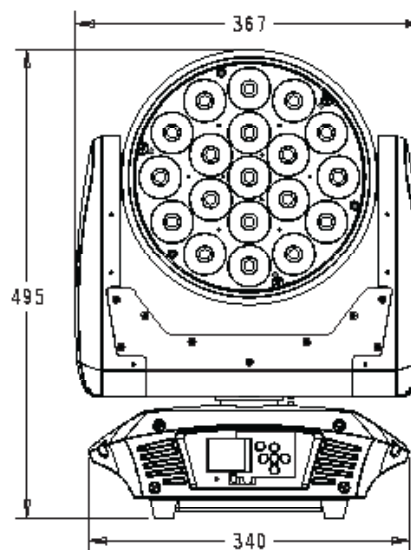
### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L03121120  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 3/23/2012  
[MANUFAC] ELATION  
[LUMCAT] PLATINUM WASH ZFX PRO  
[LUMINAIRE] 10.55"L. X 14.45"W. X 17.32"H. QUAD COLOR HO RGBW MOVING HEAD WASH FIXTURE  
[MORE] 19 15W OSRAM HO RGBW LEDS WITH MOTORIZED ZOOM  
[MORE] FLAT CLEAR ACRYLIC LENS  
[MORE] TESTED WITH FULL ON/ZOOM OUT  
[BALLASTCAT] N/A  
[BALLAST] 100-240VAC 50-60Hz ELECTRONIC  
[LAMPPOSITION] 0,0  
[LAMPCAT] 15W OSRAM HO RGBW LEDS  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[INPUT] 120VAC, 349.44W  
[TEST PROCEDURE] IESNA:LM-79-08

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	3 H x 3 V
Maximum Candela	19032
Maximum Candela Angle	0H 0V
Horizontal Beam Angle (50%)	22.4
Vertical Beam Angle (50%)	22.4
Horizontal Field Angle (10%)	44.6
Vertical Field Angle (10%)	44.6
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Beam Lumens	1521
Beam Efficiency	N.A.
Field Lumens	3259
Field Efficiency	N.A.
Spill Lumens	722
Luminaire Lumens	3981
Total Efficiency	N.A.
Total Luminaire Watts	349.44
Ballast Factor	1.00

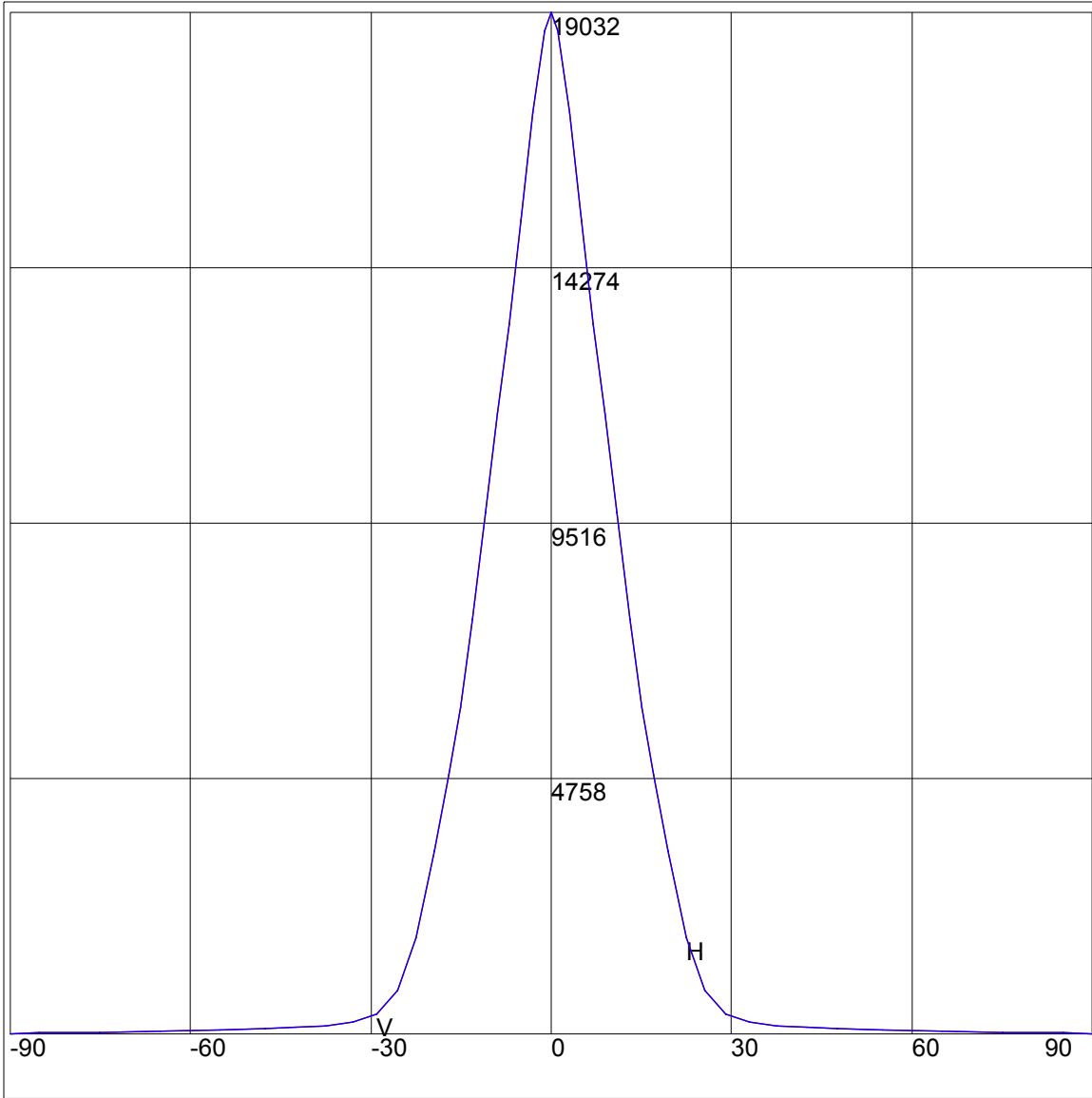


**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : L03121120.IES**

**AXIAL CANDELA**

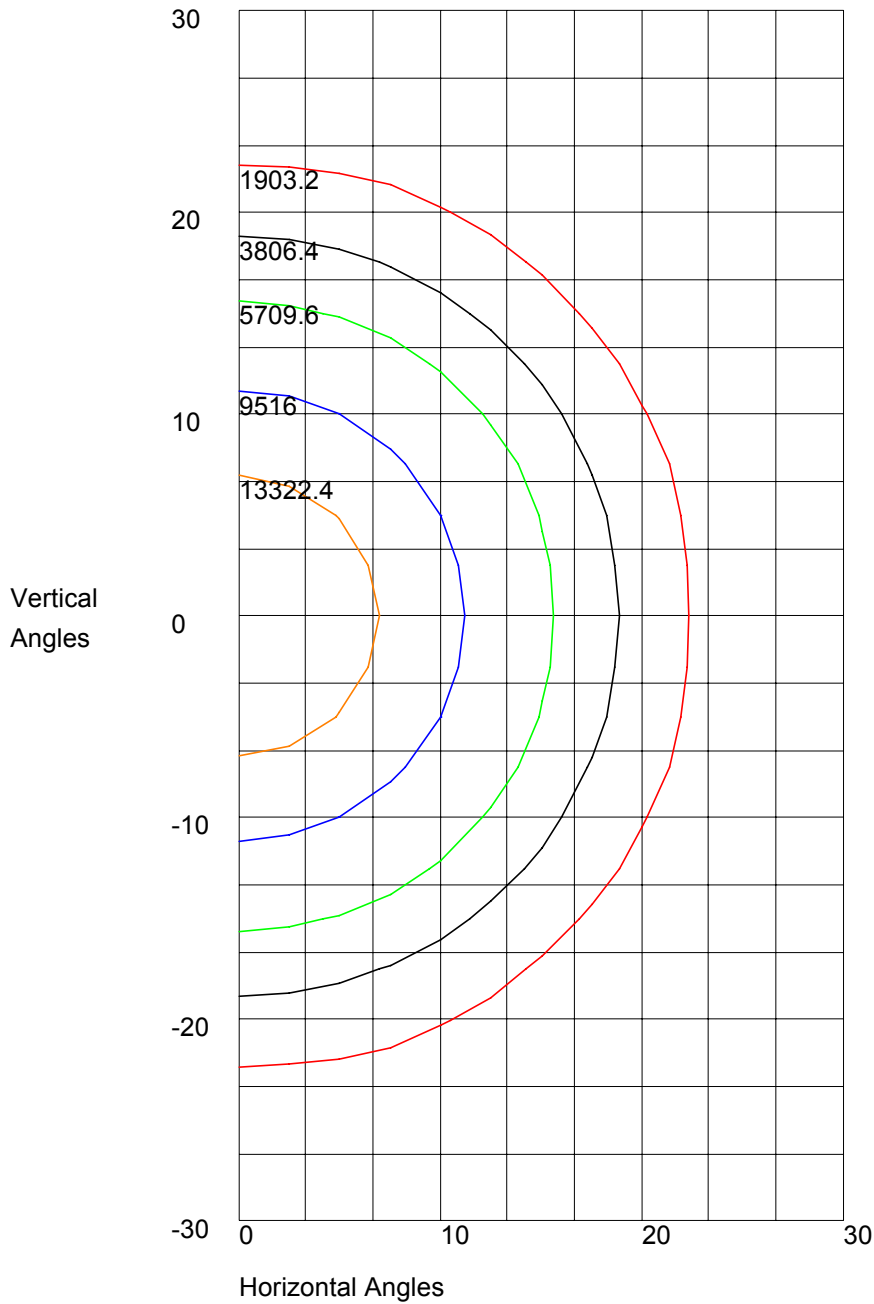
DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	38	85	38
75	43	75	43
65	56	65	56
55	75	55	75
47.5	98	47.5	98
42.5	124	42.5	124
37.5	164	37.5	164
33	226	33	226
29	371	29	371
25.5	815	25.5	815
22.5	1809	22.5	1809
19.5	3420	19.5	3420
17	4848	17	4848
15	6088	15	6088
13	7727	13	7727
11	9729	11	9729
9	11549	9	11549
7	13212	7	13212
5	15152	5	15152
3	17169	3	17169
1	18678	1	18678
0	19032	0	19032
-1	18678	-1	18678
-3	17169	-3	17169
-5	15152	-5	15152
-7	13212	-7	13212
-9	11549	-9	11549
-11	9729	-11	9729
-13	7727	-13	7727
-15	6088	-15	6088
-17	4848	-17	4848
-19.5	3420	-19.5	3420
-22.5	1809	-22.5	1809
-25.5	815	-25.5	815
-29	371	-29	371
-33	226	-33	226
-37.5	164	-37.5	164
-42.5	124	-42.5	124
-47.5	98	-47.5	98
-55	75	-55	75
-65	56	-65	56
-75	43	-75	43
-85	38	-85	38
-90	0	-90	0

AXIAL CANDELA DISPLAY



Maximum Candela = 19032 Located At Horizontal Angle = 0, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 19032 Located At Horizontal Angle = 0, Vertical Angle = 0  
50% Maximum Candela = 9516  
10% Maximum Candela = 1903.2