

Report No.:

Test Time: 2026-09-30 11:37

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA50-300MA-36D Lamp Description: Blx V4HD F90 3000K

Luminous Length (mm): -21

Luminous Width (mm): -21

Voltage: 226.1 V

Current: 0.131 A

Power: 15.00 W

Power Factor: 0.506

Photometric Results

CIE Class: Direct

Measurement Flux: 600.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H30.2

Vertical Diffuse Angle(50%): V30.2

Luminaire Efficacy Rating (LER): 40.07

Max. Intensity: 1515.21 cd

S/MH(C0/C180): 0.52

Total Rated Lamp Lumens: 600.4 lm

Efficiency: 100%

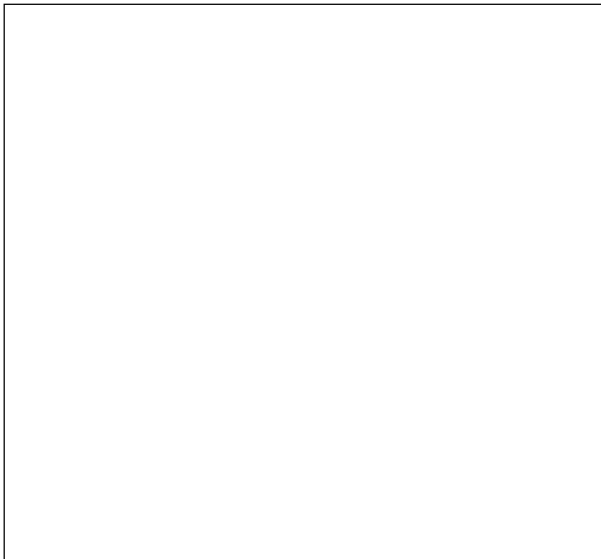
Upward Ratio: 0%

Central Intensity: 1385.79 cd

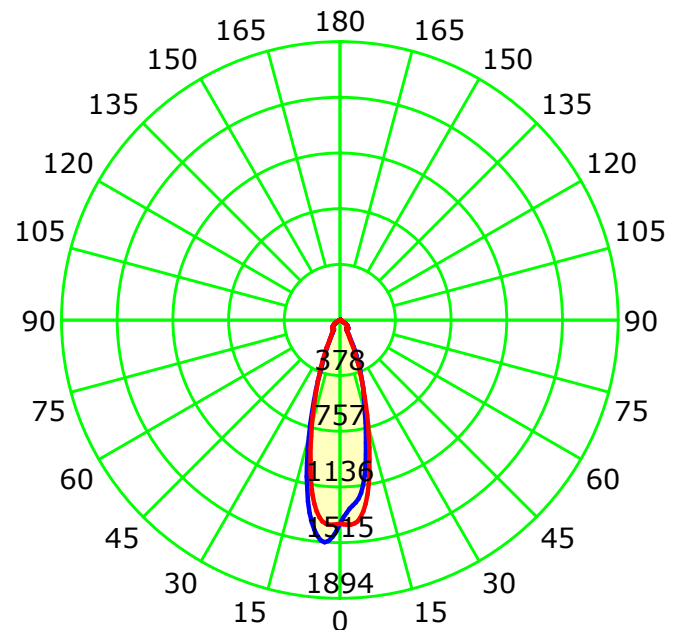
Pos of Max. Intensity: H180 V4

S/MH(C90/C270): 0.52

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

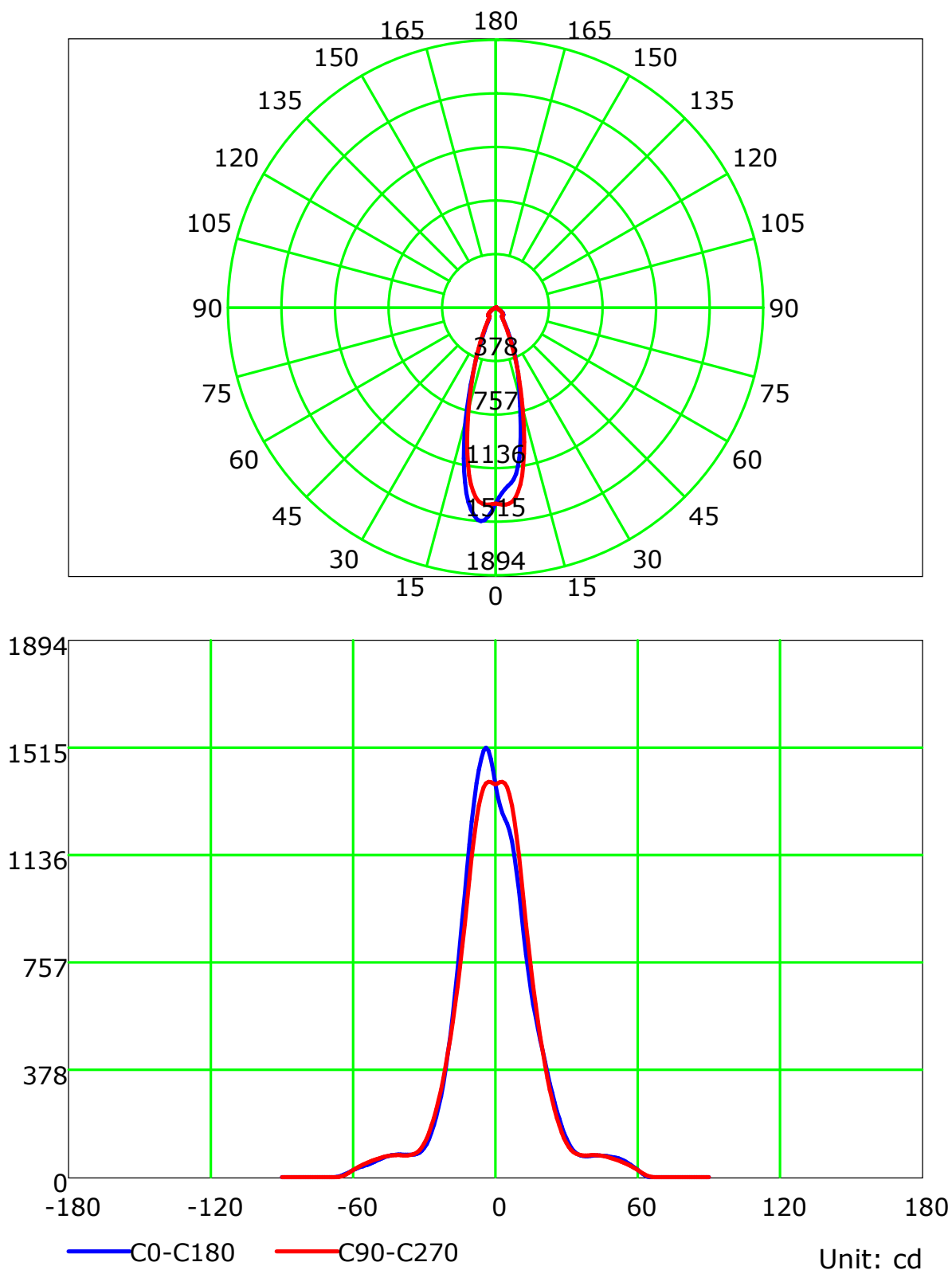
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

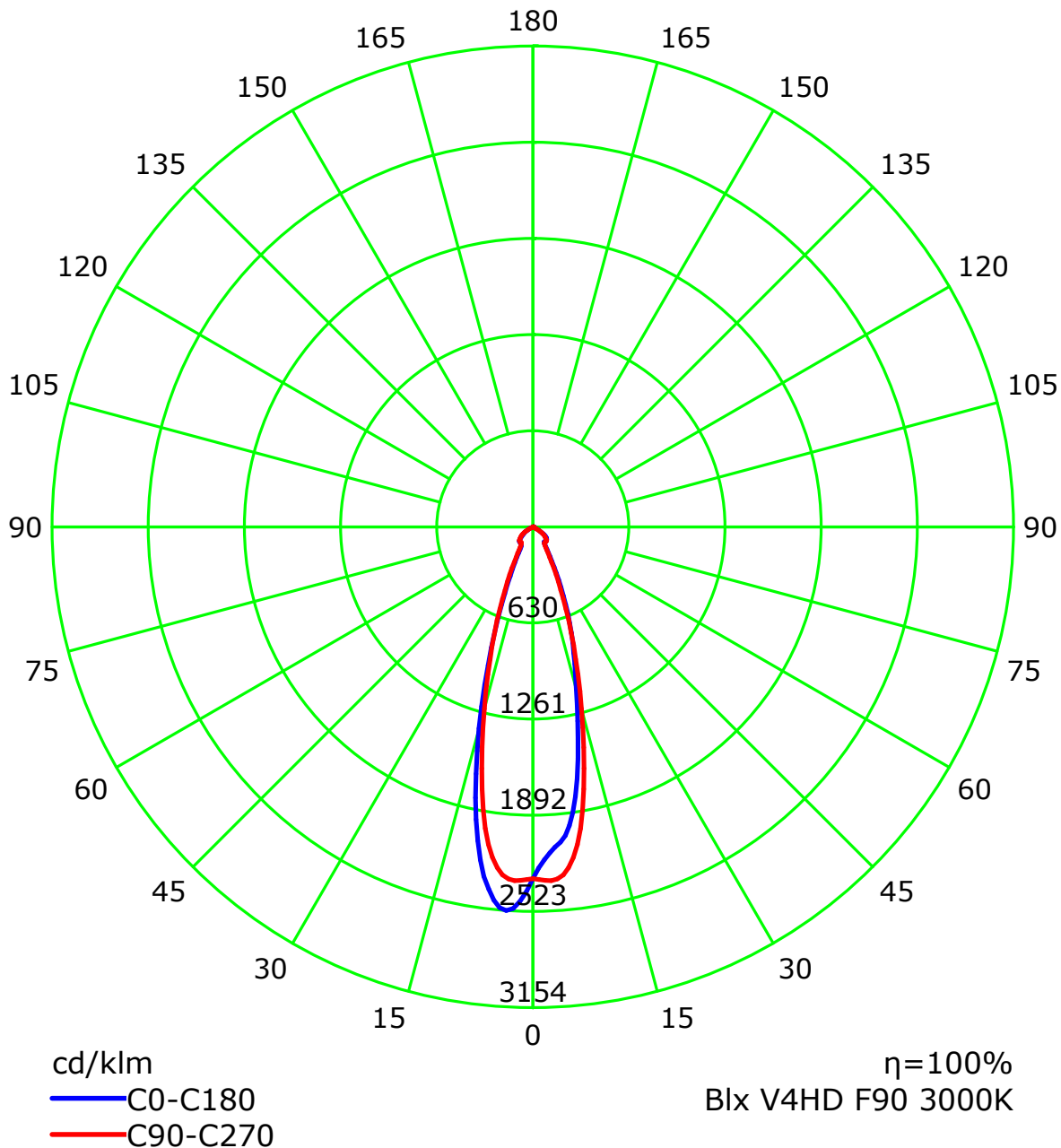
Luminous Intensity Distribution Curve



C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

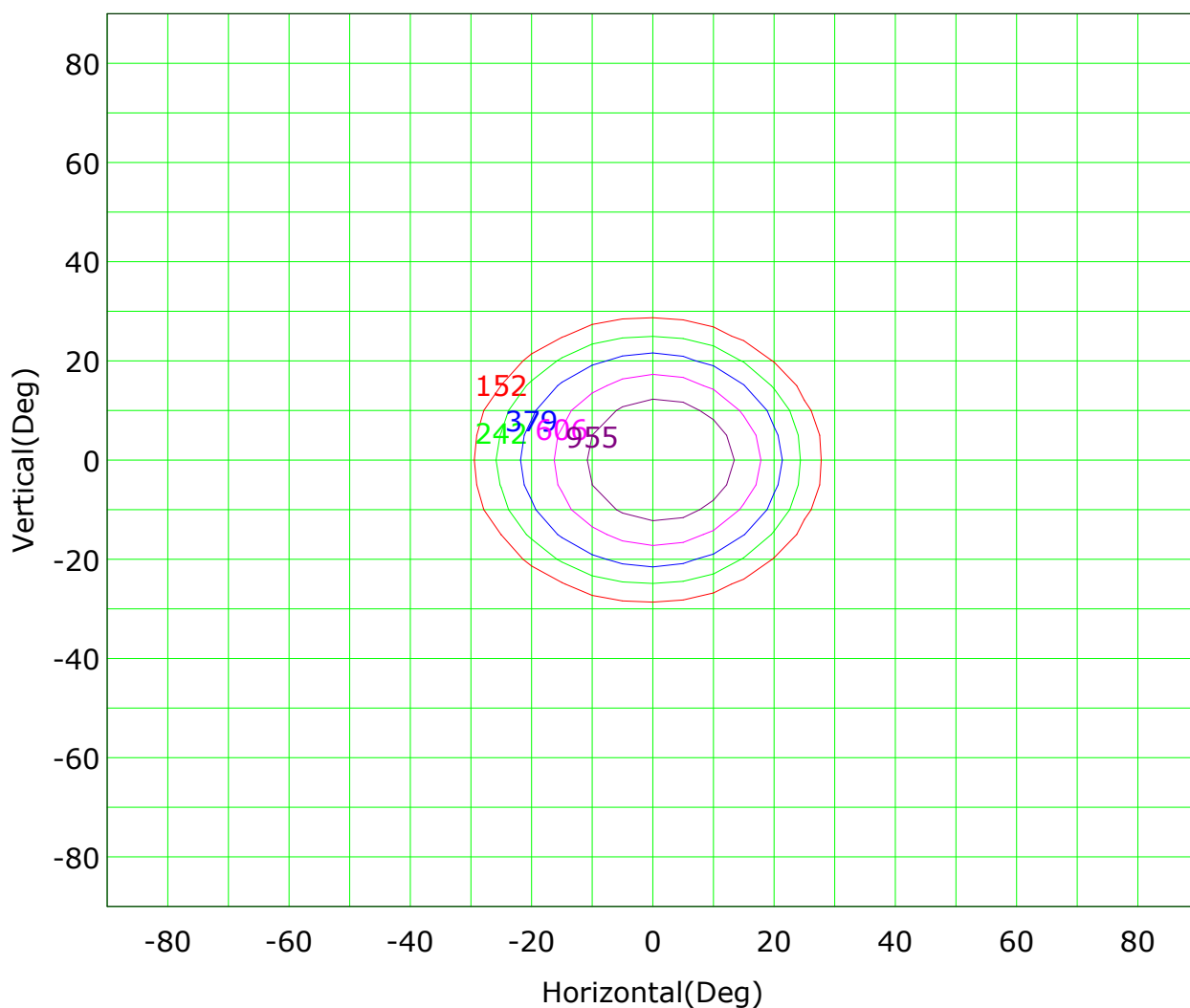
Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 1515 cd

(10%): 152 cd	(16%): 242 cd
(25%): 379 cd	(40%): 606 cd
(63%): 955 cd	(100%): 1515 cd

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

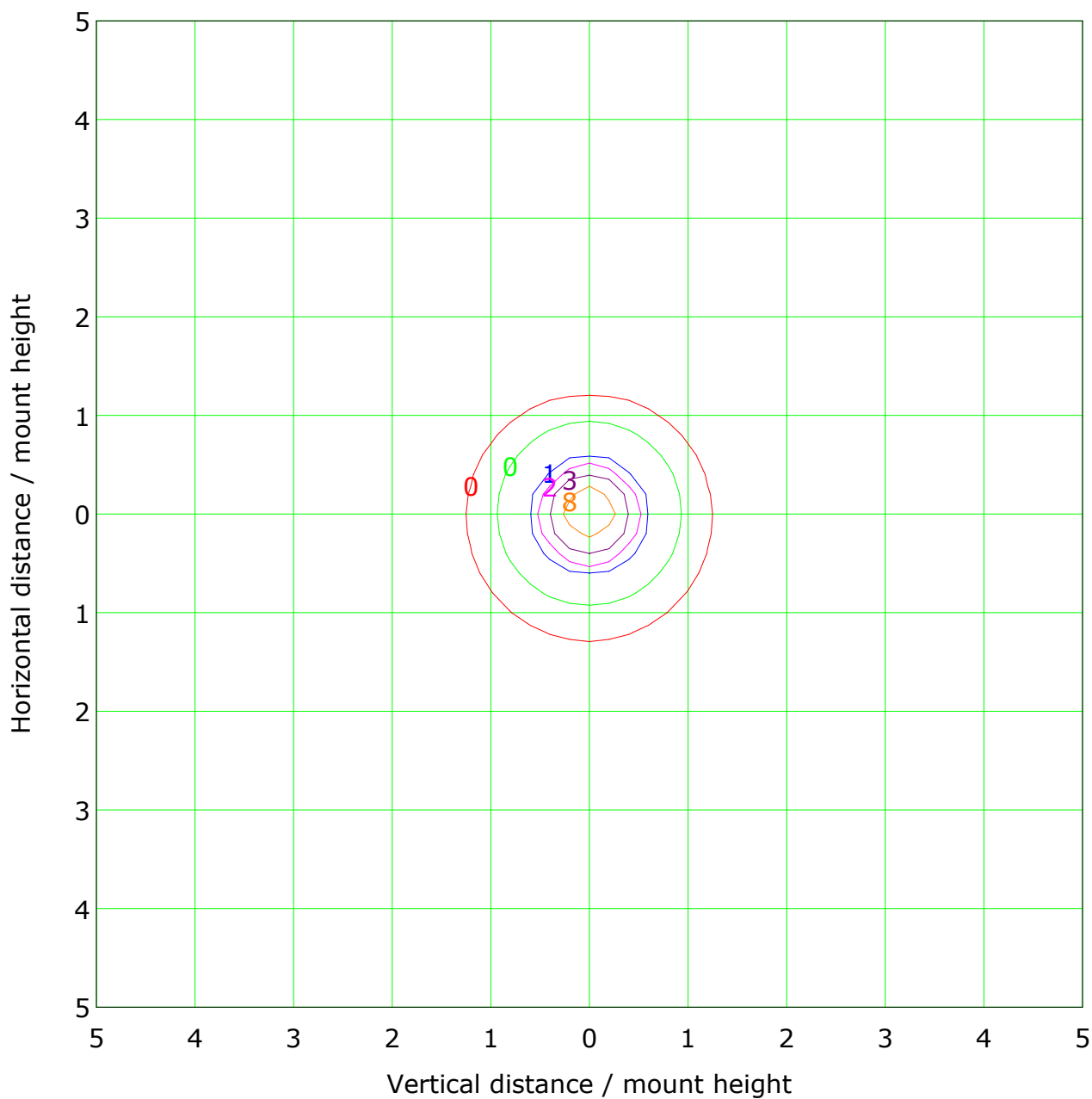
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



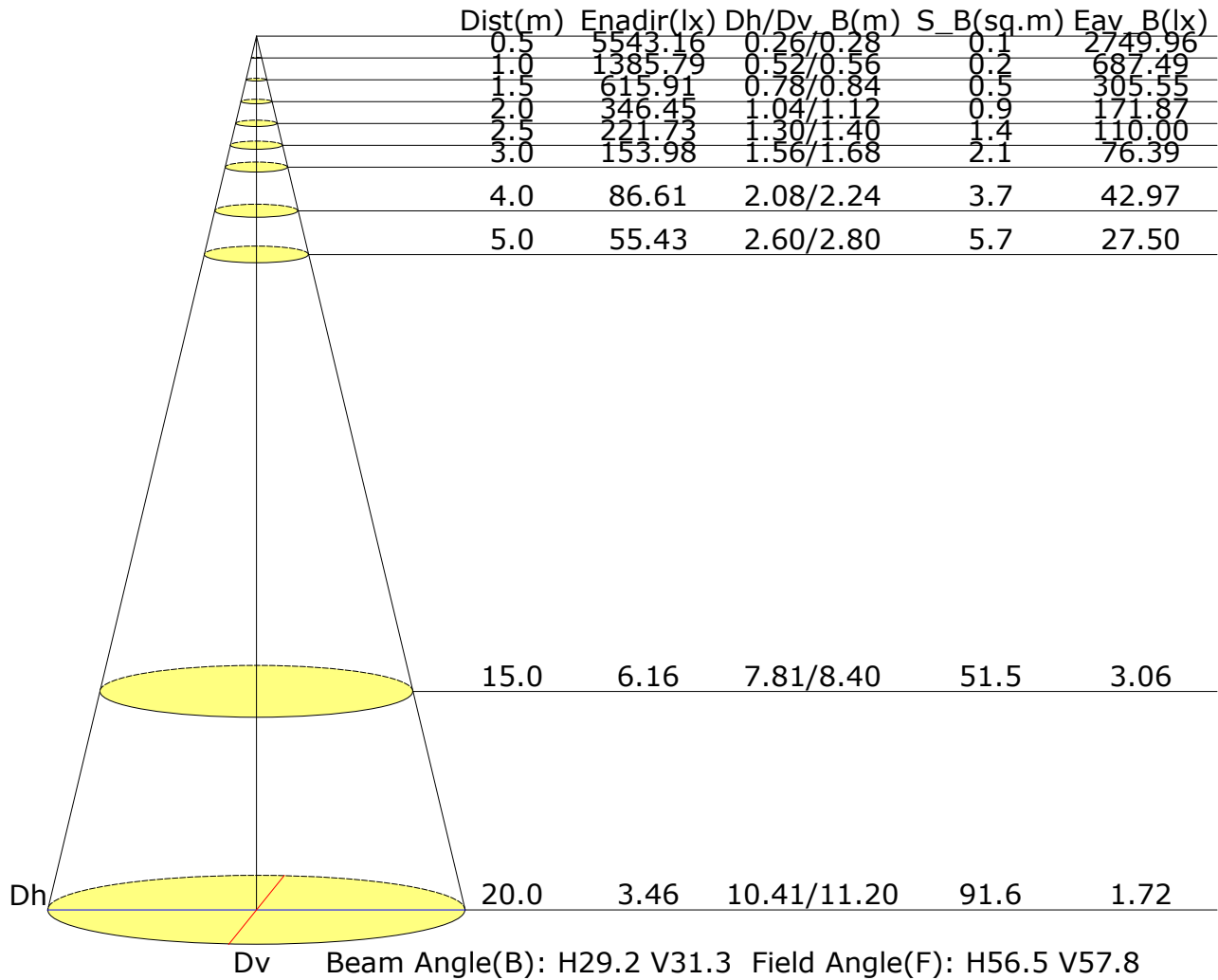
Mounting Height: 10.0m Max Lux(100%): 15.0 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.5 lx
(20%): 3.0 lx	(50%): 7.5 lx
(100%): 15.0 lx	

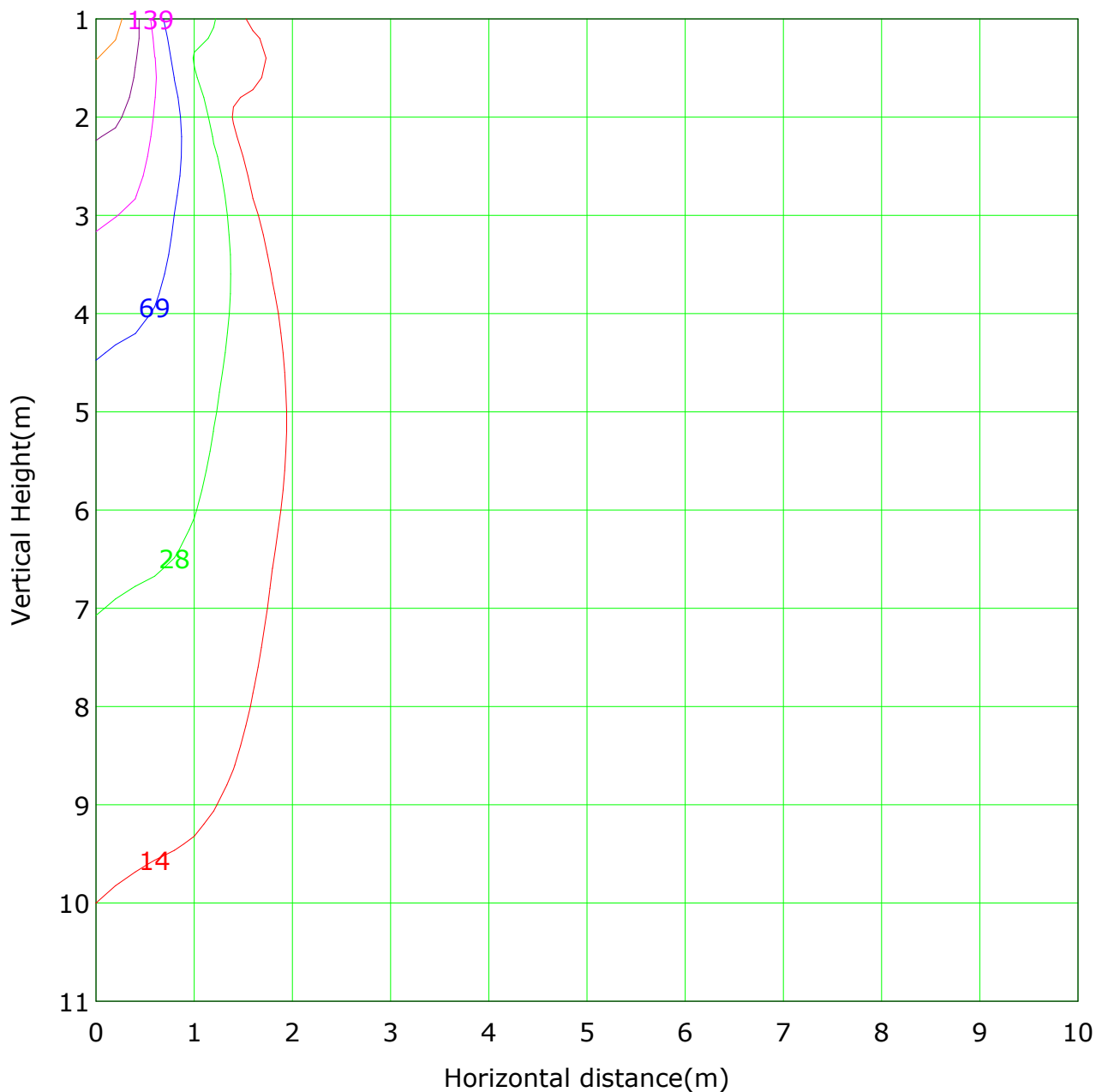
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



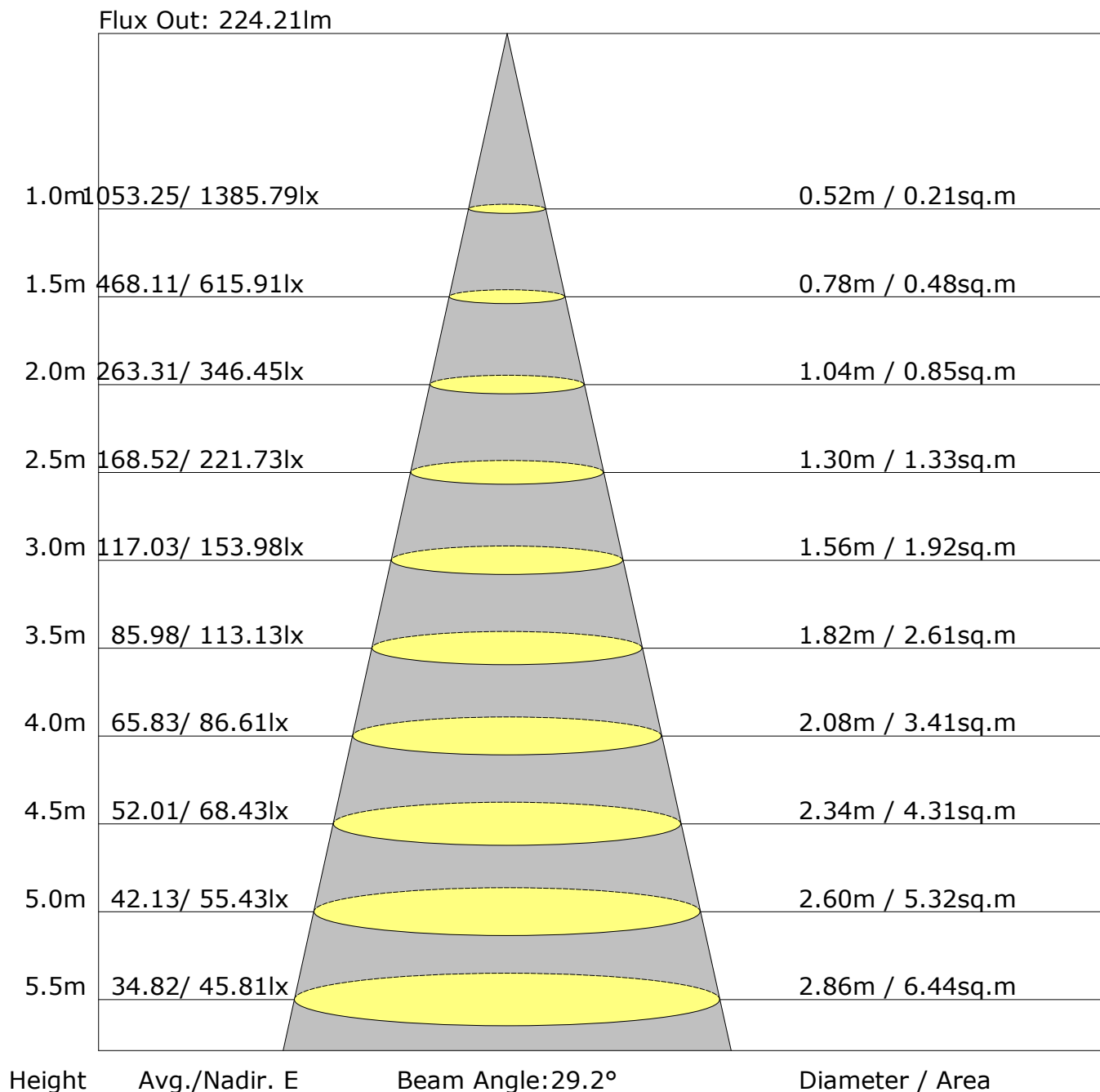
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1385.8 lx
— (1%): 13.9 lx — (2%): 27.7 lx
— (5%): 69.3 lx — (10%): 138.6 lx
— (20%): 277.2 lx — (50%): 692.9 lx
— (100%):1385.8 lx

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	28.6	29.4	28.9	29.6	29.9	28.4	29.2	28.6	29.4	29.6
3H	28.5	29.2	28.8	29.5	29.7	28.2	29.0	28.5	29.2	29.5
4H	28.4	29.1	28.7	29.4	29.6	28.1	28.9	28.5	29.1	29.4
6H	28.3	29.0	28.6	29.3	29.6	28.1	28.7	28.4	29.0	29.3
8H	28.3	28.9	28.6	29.2	29.5	28.0	28.7	28.4	29.0	29.3
12H	28.2	28.8	28.6	29.2	29.5	28.0	28.6	28.3	28.9	29.2
X=4H Y=2H	28.6	29.4	29.0	29.6	29.9	28.4	29.1	28.7	29.4	29.7
3H	28.5	29.1	28.8	29.4	29.7	28.3	28.9	28.6	29.2	29.5
4H	28.4	28.9	28.8	29.3	29.6	28.2	28.7	28.6	29.1	29.4
6H	28.3	28.8	28.7	29.2	29.6	28.1	28.6	28.5	29.0	29.3
8H	28.3	28.7	28.7	29.1	29.5	28.1	28.5	28.5	28.9	29.3
12H	28.2	28.6	28.7	29.0	29.5	28.0	28.4	28.5	28.8	29.2
X=8H Y=4H	28.3	28.7	28.7	29.1	29.5	28.1	28.5	28.5	28.9	29.3
6H	28.2	28.5	28.7	29.0	29.4	28.0	28.3	28.4	28.7	29.2
8H	28.2	28.5	28.6	28.9	29.4	27.9	28.2	28.4	28.7	29.2
12H	28.1	28.4	28.6	28.8	29.3	27.9	28.2	28.4	28.6	29.1
X=12H Y=4H	28.2	28.6	28.7	29.0	29.5	28.0	28.4	28.5	28.8	29.2
6H	28.2	28.5	28.6	28.9	29.4	27.9	28.2	28.4	28.7	29.2
8H	28.1	28.4	28.6	28.8	29.3	27.9	28.2	28.4	28.6	29.1
Variations with the observer position at spacings:										
S=1.0H	+0.8/-0.6					+0.7/-0.5				
S=1.5H	+2.3/-10.8					+2.2/-8.8				
S=2.0H	+3.5/-34.0					+3.4/-35.8				

Calculate in accordance with CIE Pub.117. The table is revised with 600lm ($8\log(F/F_0) = -1.8$).

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	297	49.4
	FL (0°-30°)	215	35.8
	FM (30°-60°)	78	13.0
	FH (60°-80°)	3	0.5
	FVH (80°-90°)	0	0.0
	BACK LIGHT	304	50.6
	BL (0°-30°)	225	37.5
	BM (30°-60°)	75	12.5
	BH (60°-80°)	4	0.6
	BVH (80°-90°)	0	0.0
	UP LIGHT	0	0.0
	UL (90°-100°)	0	0.0
	UH (100°-180°)	0	0.0
	TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U0 G0

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1387.8	1.3	1.3	0.22	0.22
1.0-2.0	1391.8	4.0	5.3	0.67	0.89
2.0-3.0	1394.4	6.7	12.0	1.11	2.00
3.0-4.0	1392.4	9.3	21.3	1.55	3.55
4.0-5.0	1383.0	11.9	33.2	1.98	5.53
5.0-6.0	1363.4	14.3	47.5	2.39	7.92
6.0-7.0	1331.0	16.5	64.1	2.75	10.67
7.0-8.0	1287.3	18.4	82.5	3.07	13.74
8.0-9.0	1232.6	20.0	102.5	3.33	17.07
9.0-10.0	1166.7	21.1	123.6	3.52	20.59
10.0-11.0	1091.9	21.8	145.4	3.63	24.22
11.0-12.0	1012.6	22.1	167.5	3.69	27.91
12.0-13.0	932.3	22.1	189.7	3.69	31.59
13.0-14.0	853.4	21.8	211.5	3.64	35.23
14.0-15.0	778.3	21.4	232.9	3.56	38.79
15.0-16.0	707.4	20.7	253.6	3.45	42.24
16.0-17.0	640.9	20.0	273.6	3.32	45.57
17.0-18.0	578.5	19.1	292.7	3.18	48.75
18.0-19.0	520.8	18.1	310.8	3.02	51.76
19.0-20.0	468.0	17.1	327.9	2.85	54.62
20.0-21.0	418.6	16.1	344.0	2.68	57.30
21.0-22.0	372.0	14.9	358.9	2.49	59.79
22.0-23.0	329.1	13.8	372.7	2.30	62.09
23.0-24.0	290.6	12.7	385.5	2.12	64.20
24.0-25.0	255.6	11.6	397.1	1.94	66.14
25.0-26.0	224.0	10.6	407.6	1.76	67.90
26.0-27.0	195.6	9.6	417.2	1.59	69.49
27.0-28.0	169.8	8.6	425.8	1.43	70.93
28.0-29.0	147.3	7.7	433.5	1.28	72.21
29.0-30.0	128.5	6.9	440.5	1.16	73.37
30.0-31.0	113.2	6.3	446.8	1.05	74.42
31.0-32.0	101.3	5.8	452.6	0.97	75.38
32.0-33.0	92.3	5.4	458.0	0.91	76.29
33.0-34.0	85.8	5.2	463.2	0.87	77.15
34.0-35.0	81.7	5.1	468.3	0.84	78.00
35.0-36.0	79.2	5.0	473.3	0.84	78.84

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	77.7	5.1	478.4	0.84	79.68
37.0-38.0	77.0	5.1	483.5	0.86	80.54
38.0-39.0	77.0	5.3	488.8	0.88	81.41
39.0-40.0	77.5	5.4	494.2	0.90	82.32
40.0-41.0	78.1	5.6	499.8	0.93	83.24
41.0-42.0	78.3	5.7	505.4	0.95	84.19
42.0-43.0	78.0	5.8	511.2	0.96	85.15
43.0-44.0	77.4	5.8	517.1	0.97	86.12
44.0-45.0	76.5	5.9	522.9	0.98	87.10
45.0-46.0	75.2	5.9	528.8	0.98	88.08
46.0-47.0	73.4	5.8	534.7	0.97	89.05
47.0-48.0	71.0	5.7	540.4	0.96	90.01
48.0-49.0	68.5	5.6	546.0	0.94	90.95
49.0-50.0	65.8	5.5	551.5	0.91	91.86
50.0-51.0	63.0	5.3	556.8	0.89	92.75
51.0-52.0	60.3	5.2	562.0	0.86	93.61
52.0-53.0	57.1	5.0	567.0	0.83	94.44
53.0-54.0	53.6	4.7	571.7	0.79	95.23
54.0-55.0	50.0	4.5	576.2	0.74	95.97
55.0-56.0	46.2	4.2	580.3	0.70	96.66
56.0-57.0	42.4	3.9	584.2	0.65	97.31
57.0-58.0	38.1	3.5	587.8	0.59	97.90
58.0-59.0	33.3	3.1	590.9	0.52	98.42
59.0-60.0	28.3	2.7	593.5	0.45	98.86
60.0-61.0	23.1	2.2	595.7	0.37	99.23
61.0-62.0	17.7	1.7	597.5	0.28	99.51
62.0-63.0	12.6	1.2	598.7	0.20	99.72
63.0-64.0	8.1	0.8	599.5	0.13	99.85
64.0-65.0	4.7	0.5	599.9	0.08	99.93
65.0-66.0	2.4	0.2	600.2	0.04	99.97
66.0-67.0	1.1	0.1	600.3	0.02	99.99
67.0-68.0	0.3	0.0	600.3	0.01	99.99
68.0-69.0	0.1	0.0	600.3	0.00	99.99
69.0-70.0	0.1	0.0	600.3	0.00	100.00
70.0-71.0	0.1	0.0	600.4	0.00	100.00
71.0-72.0	0.1	0.0	600.4	0.00	100.00

C Plane (°):0.0-180.0: 180.0
Test Lab:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	1385.8	1385.8								
G1.0	1343.8	1435.8								
G2.0	1311.5	1476.0								
G3.0	1285.2	1504.8								
G4.0	1264.2	1515.2								
G5.0	1247.2	1505.4								
G6.0	1222.9	1478.1								
G7.0	1185.2	1437.6								
G8.0	1135.8	1390.4								
G9.0	1075.6	1328.7								
G10.0	1007.4	1255.0								
G11.0	930.6	1174.7								
G12.0	854.9	1090.2								
G13.0	785.5	998.4								
G14.0	719.9	909.8								
G15.0	660.6	822.6								
G16.0	609.6	736.6								
G17.0	565.9	651.5								
G18.0	522.9	573.7								
G19.0	482.9	503.9								
G20.0	444.3	441.1								
G21.0	406.3	382.6								
G22.0	368.9	330.2								
G23.0	331.8	285.6								
G24.0	297.3	247.6								
G25.0	264.1	213.4								
G26.0	233.6	184.8								
G27.0	206.6	157.5								
G28.0	179.6	135.7								
G29.0	156.1	117.9								
G30.0	136.3	103.8								
G31.0	119.1	93.7								
G32.0	105.1	87.2								
G33.0	93.7	83.2								
G34.0	85.6	80.9								
G35.0	80.2	80.0								
G36.0	76.9	79.7								

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	74.8	79.4								
G38.0	74.0	79.7								
G39.0	74.5	79.9								
G40.0	75.4	80.5								
G41.0	76.1	80.5								
G42.0	76.7	79.7								
G43.0	76.7	78.7								
G44.0	76.6	77.5								
G45.0	76.3	75.5								
G46.0	75.7	73.3								
G47.0	74.8	69.8								
G48.0	73.3	66.2								
G49.0	71.9	62.5								
G50.0	70.3	58.5								
G51.0	68.6	54.7								
G52.0	67.0	50.9								
G53.0	63.5	47.1								
G54.0	59.6	44.0								
G55.0	55.0	41.4								
G56.0	50.0	38.6								
G57.0	44.4	36.5								
G58.0	38.6	33.0								
G59.0	32.6	29.0								
G60.0	26.4	25.2								
G61.0	19.7	21.2								
G62.0	13.2	16.8								
G63.0	7.4	13.2								
G64.0	2.4	9.6								
G65.0	0.4	6.2								
G66.0	0.2	3.0								
G67.0	0.2	1.0								
G68.0	0.2	0.0								
G69.0	0.2	0.0								
G70.0	0.3	0.0								
G71.0	0.0	0.0								
G72.0	0.3	0.0								
G73.0	0.0	0.0								

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Unit: cd

Inspector: