

Report No.:

Test Time: 2026-09-30 11:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA50-300MA-15D Lamp Description: Blx V4HD F90 3000K

Luminous Length (mm): -21

Luminous Width (mm): -21

Voltage: 225.8 V

Current: 0.127 A

Power: 15.00 W

Power Factor: 0.521

Photometric Results

CIE Class: Direct

Measurement Flux: 461.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H19.8

Vertical Diffuse Angle(50%): V19.8

Luminaire Efficacy Rating (LER): 30.80

Max. Intensity: 1602.44 cd

S/MH(C0/C180): 0.34

Total Rated Lamp Lumens: 461.2 lm

Efficiency: 100%

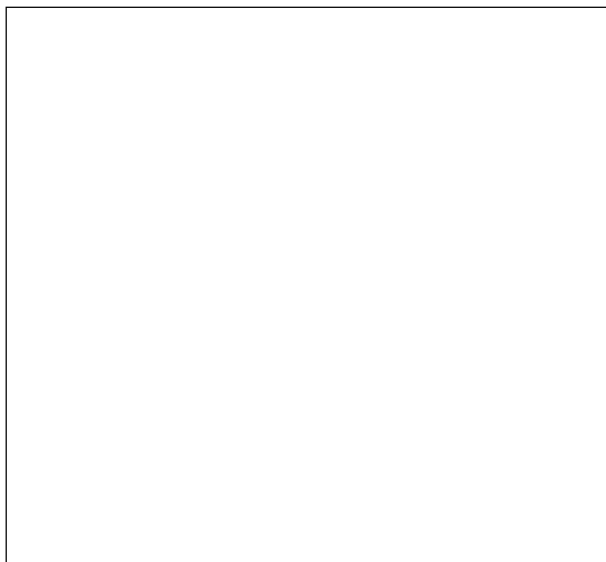
Upward Ratio: 0%

Central Intensity: 1599.14 cd

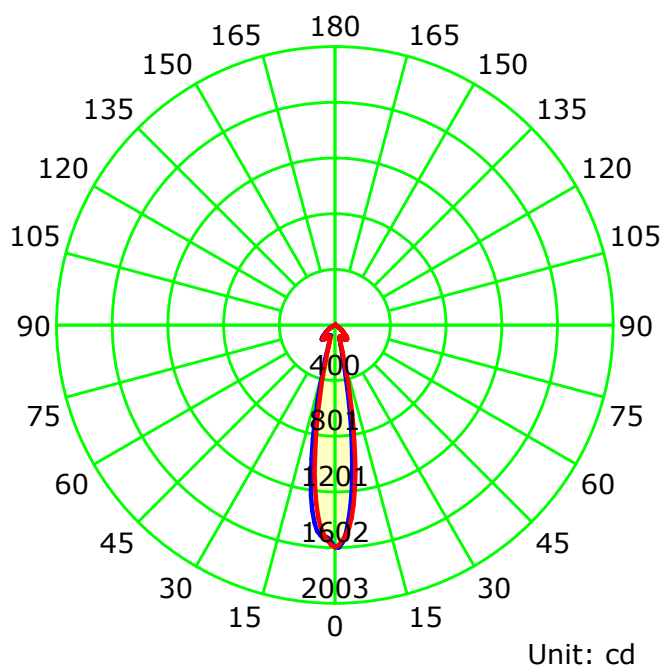
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.34

Picture Of Luminaire



Luminous Intensity Distribution Curve



— 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

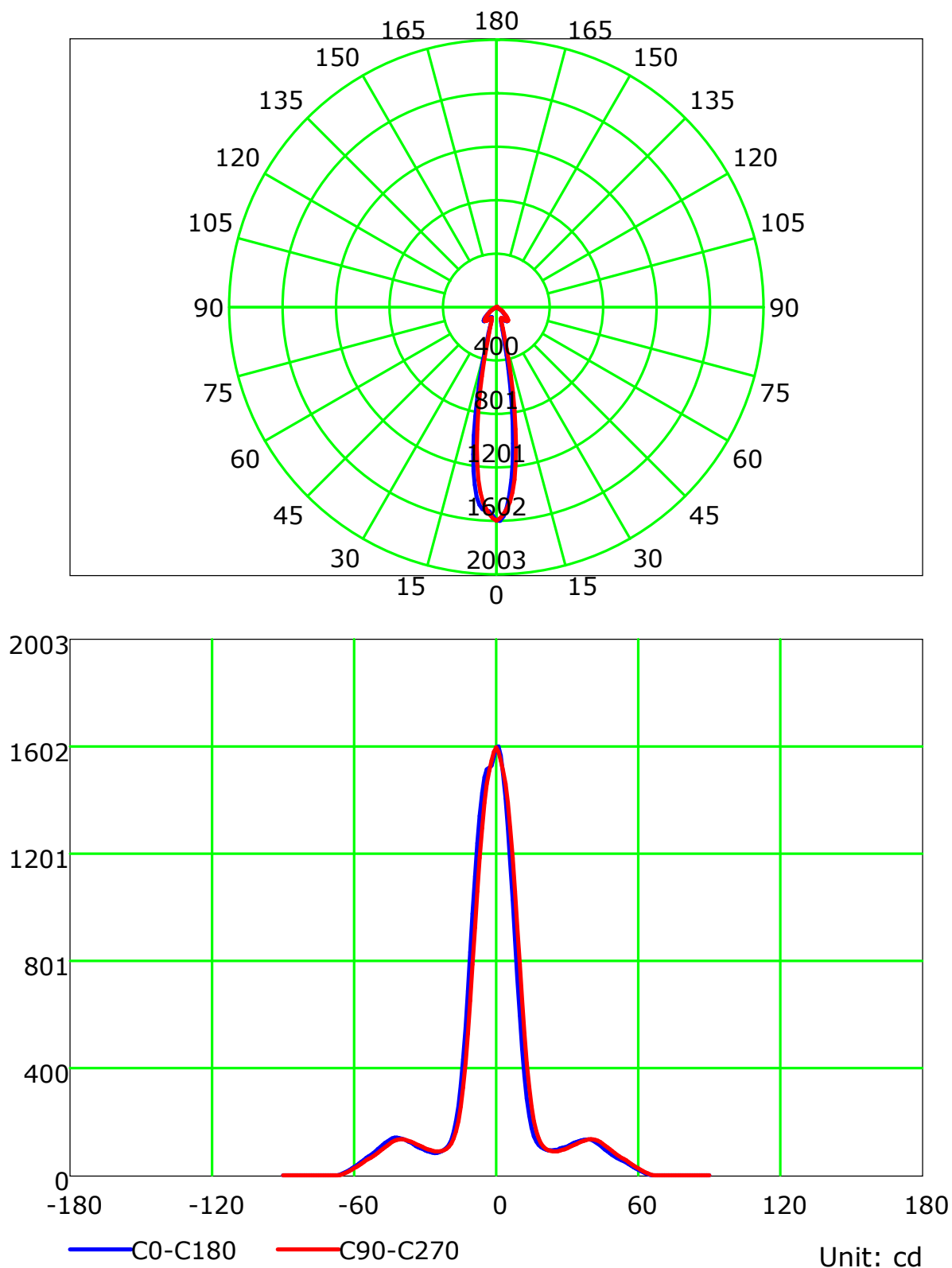
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

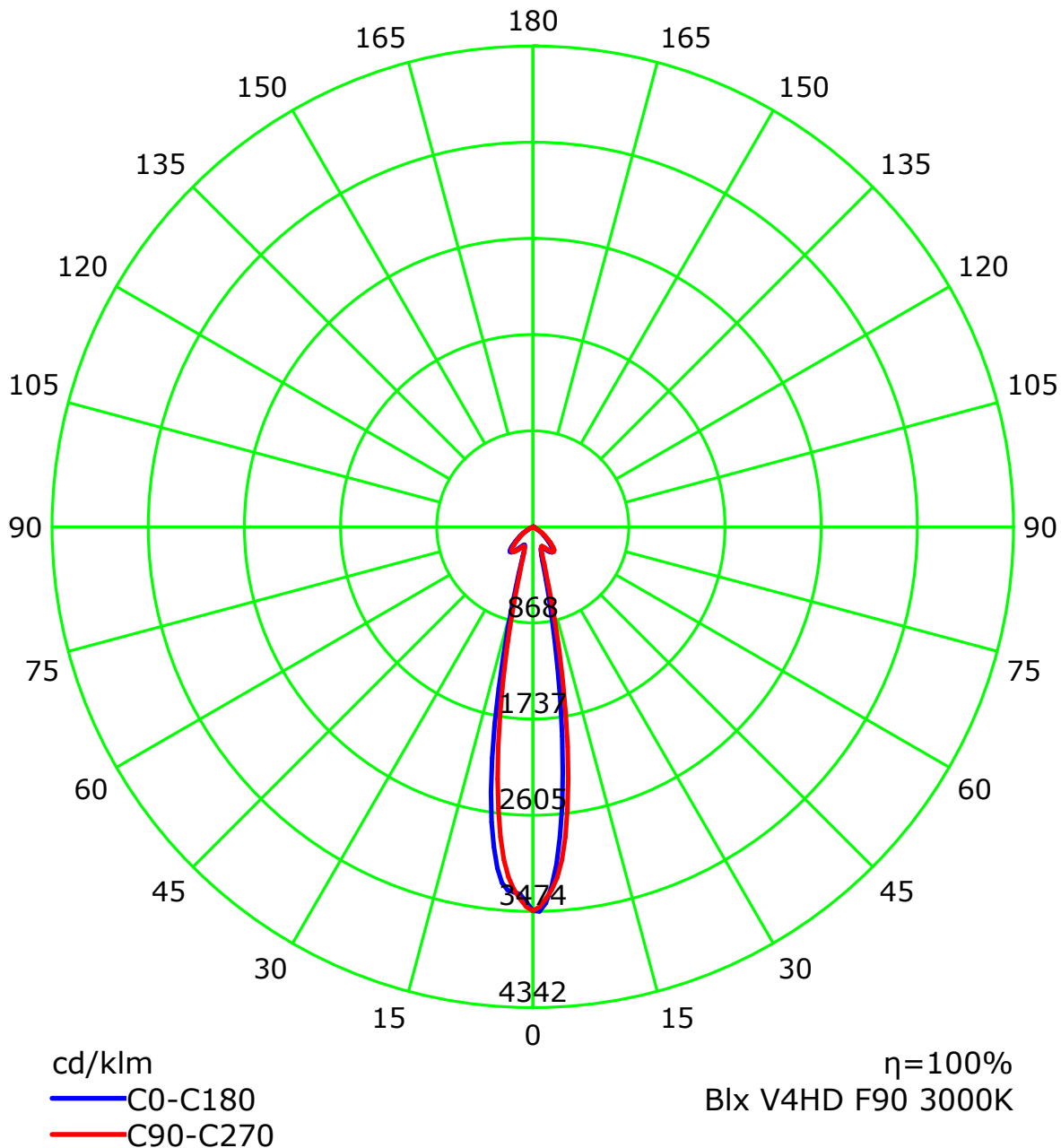
Luminous Intensity Distribution Curve



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:

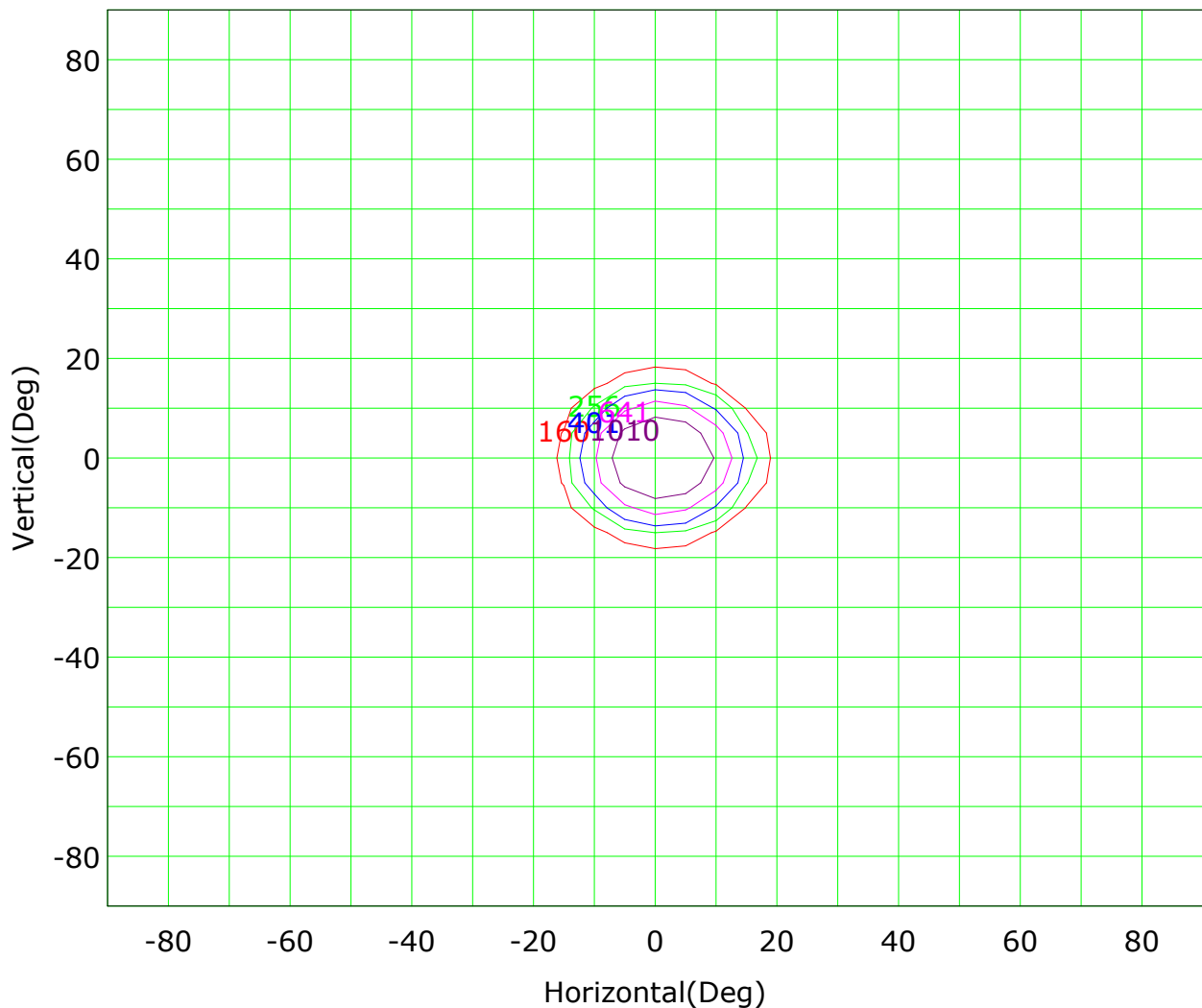
Luminous Intensity Distribution Curve(cd/klm)



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%): 1602 cd

(10%): 160 cd	(16%): 256 cd
(25%): 401 cd	(40%): 641 cd
(63%): 1010 cd	(100%): 1602 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

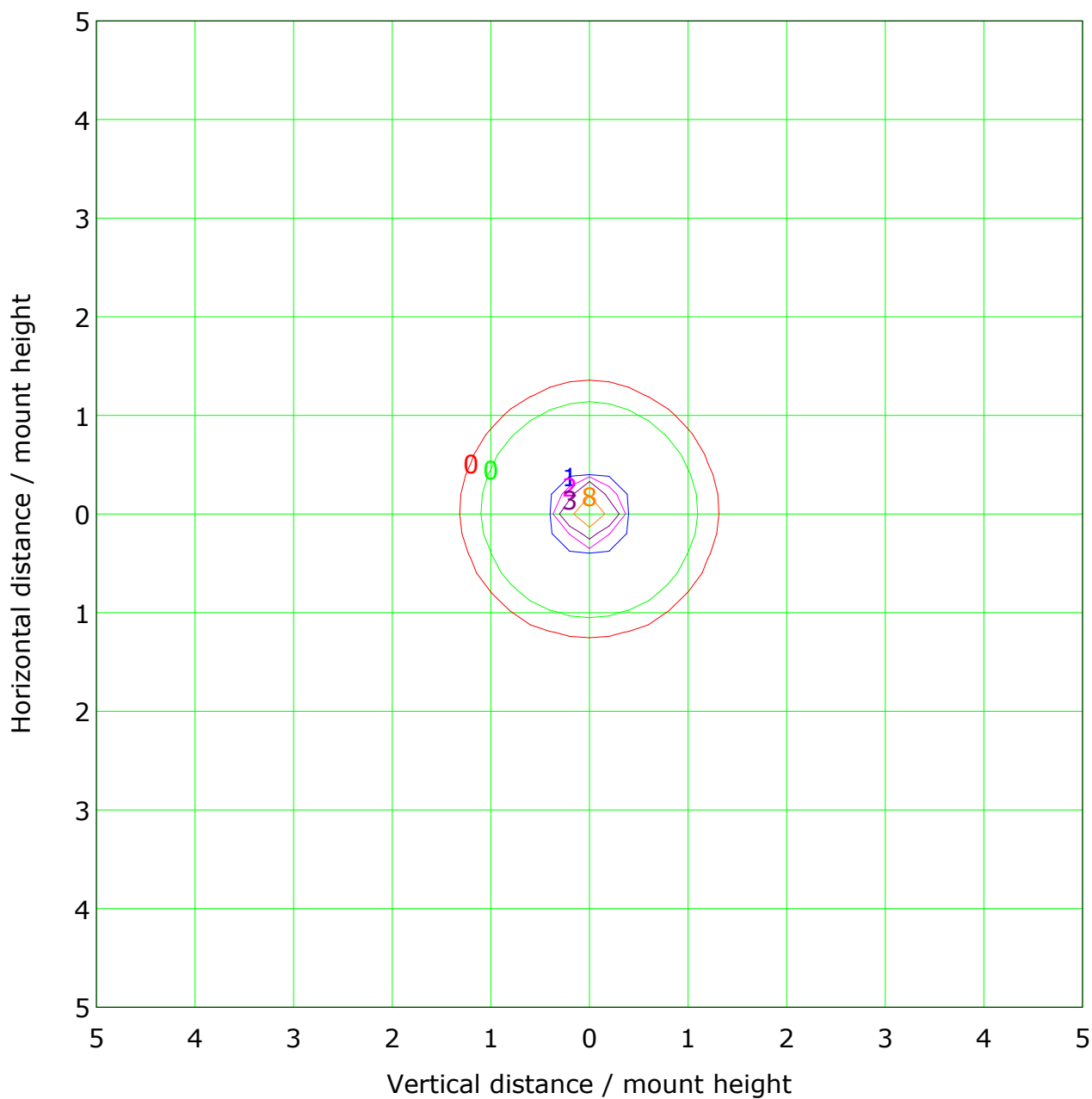
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



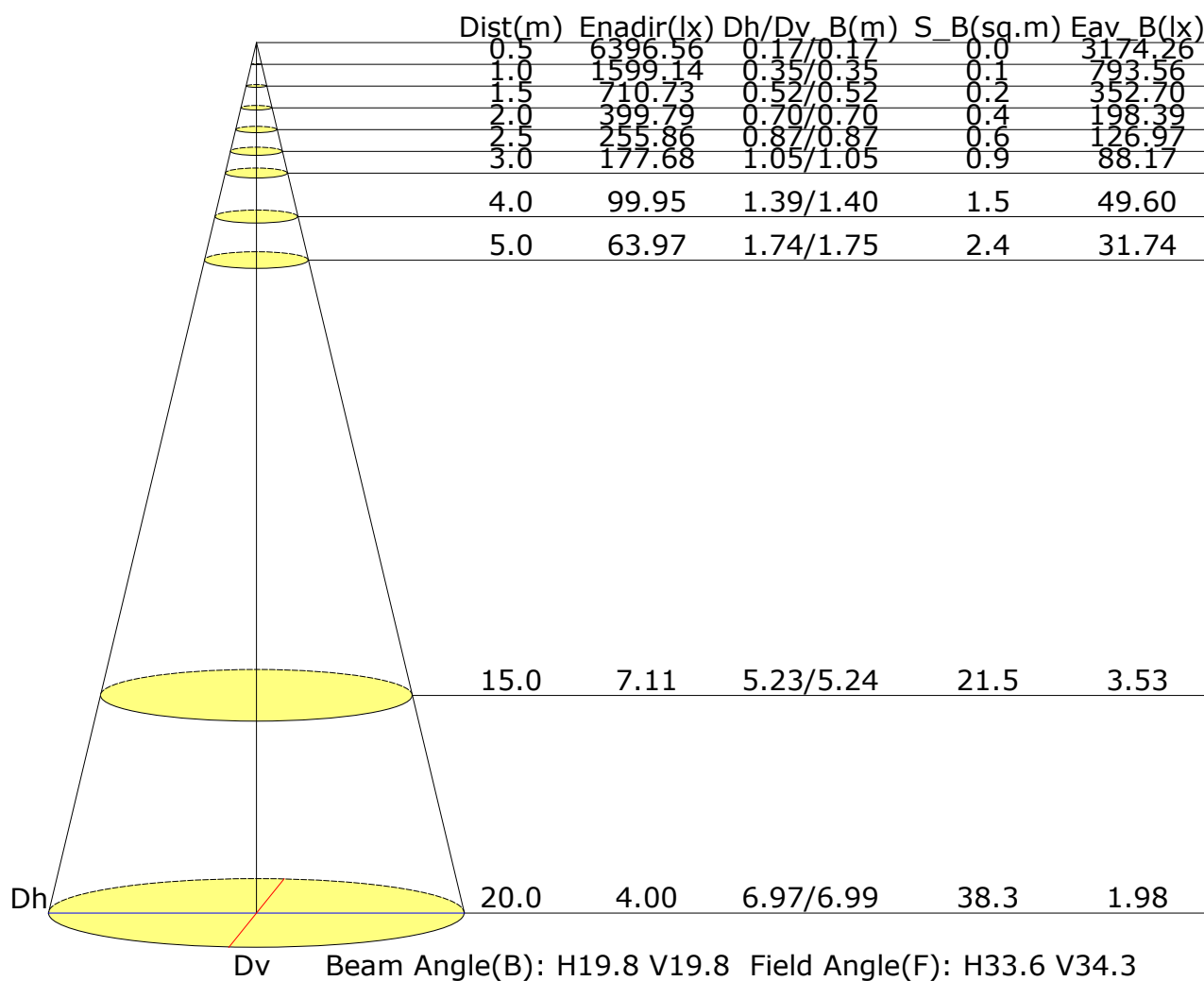
Mounting Height: 10.0m Max Lux(100%): 16.0 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.6 lx
(20%): 3.2 lx	(50%): 8.0 lx
(100%): 16.0 lx	

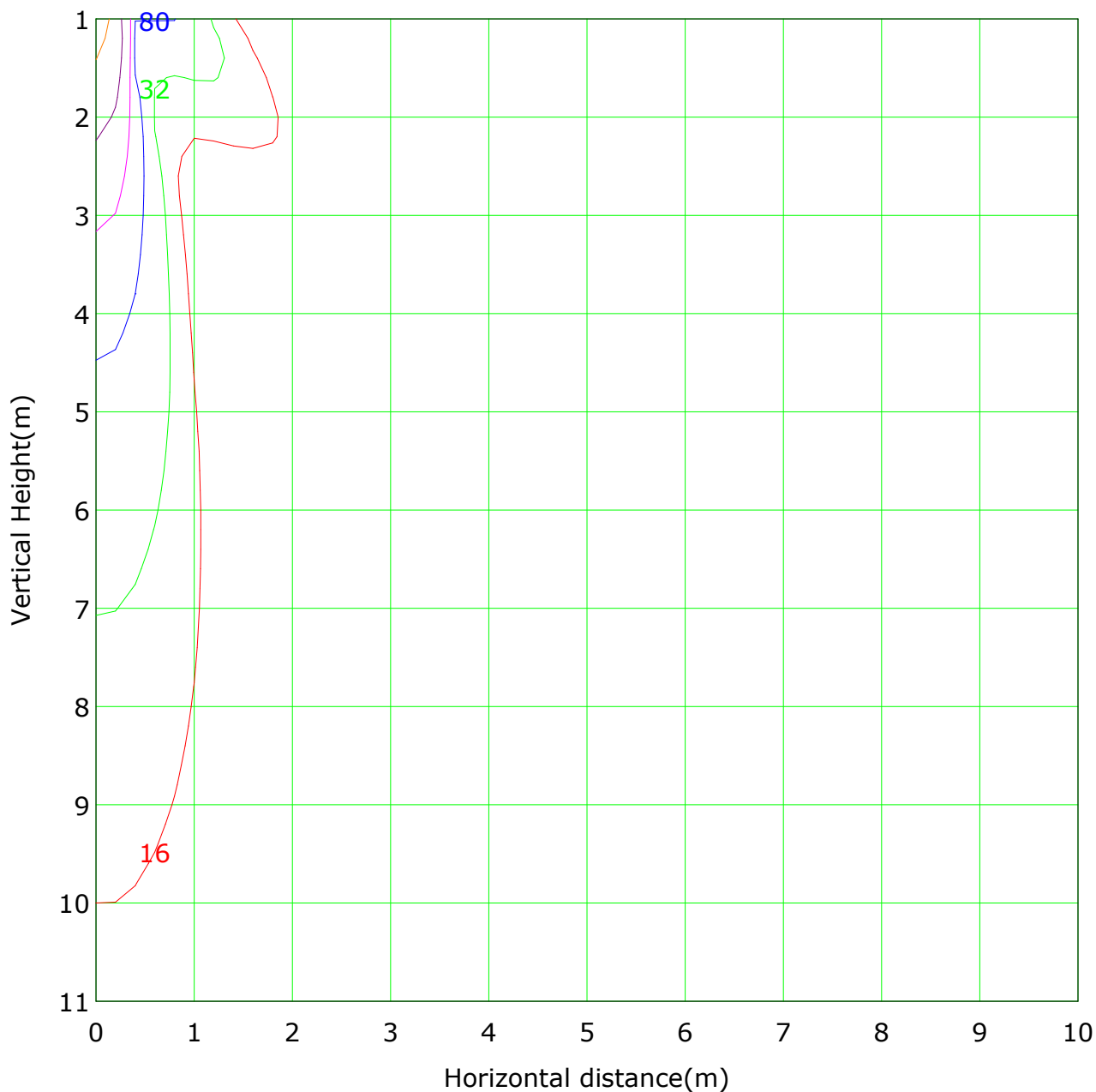
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



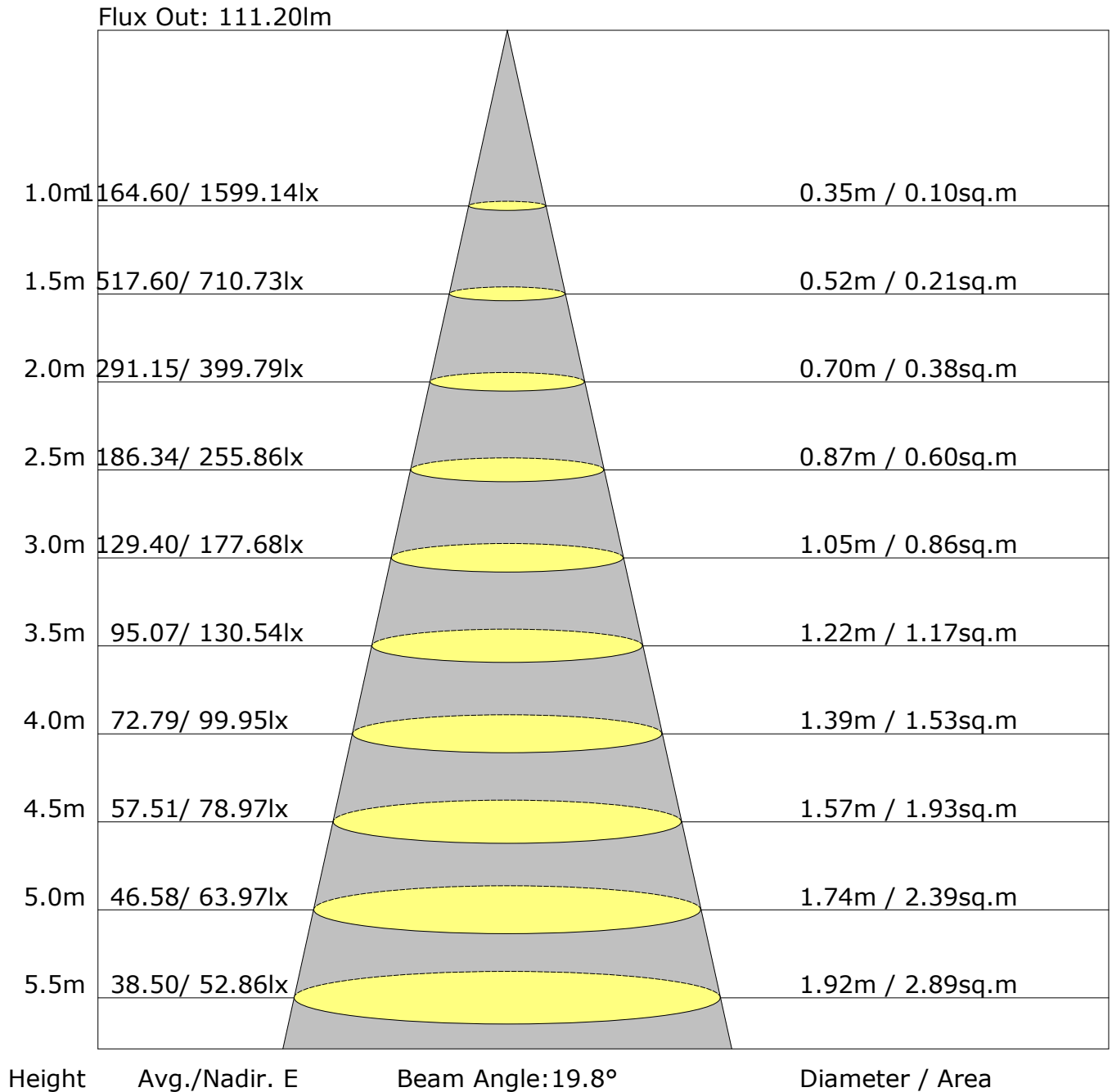
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1599.1 lx
— (1%): 16.0 lx — (2%): 32.0 lx
— (5%): 80.0 lx — (10%): 159.9 lx
— (20%): 319.8 lx — (50%): 799.6 lx
— (100%):1599.1 lx

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	30.4	31.3	30.6	31.5	31.8	30.9	31.8	31.1	32.0	32.2
3H	30.2	31.1	30.5	31.3	31.6	30.7	31.6	31.0	31.8	32.1
4H	30.2	31.0	30.5	31.2	31.5	30.6	31.5	31.0	31.7	32.0
6H	30.1	30.8	30.4	31.1	31.4	30.6	31.3	30.9	31.6	31.9
8H	30.0	30.8	30.4	31.1	31.4	30.5	31.2	30.9	31.5	31.9
12H	30.0	30.7	30.4	31.0	31.3	30.5	31.2	30.8	31.5	31.8
X=4H Y=2H	30.4	31.2	30.7	31.4	31.7	30.8	31.6	31.1	31.9	32.2
3H	30.2	30.9	30.6	31.2	31.5	30.7	31.3	31.0	31.7	32.0
4H	30.1	30.7	30.5	31.1	31.4	30.6	31.2	31.0	31.5	31.9
6H	30.0	30.6	30.5	31.0	31.3	30.5	31.0	30.9	31.4	31.8
8H	30.0	30.5	30.4	30.9	31.3	30.5	30.9	30.9	31.3	31.7
12H	30.0	30.4	30.4	30.8	31.2	30.4	30.9	30.9	31.3	31.7
X=8H Y=4H	30.0	30.5	30.4	30.9	31.3	30.5	30.9	30.9	31.3	31.7
6H	29.9	30.3	30.4	30.7	31.2	30.4	30.8	30.8	31.2	31.6
8H	29.9	30.2	30.4	30.7	31.1	30.3	30.7	30.8	31.1	31.6
12H	29.8	30.1	30.3	30.6	31.1	30.3	30.6	30.8	31.1	31.6
X=12H Y=4H	30.0	30.4	30.4	30.8	31.2	30.4	30.9	30.9	31.3	31.7
6H	29.9	30.2	30.4	30.7	31.1	30.3	30.7	30.8	31.1	31.6
8H	29.8	30.1	30.3	30.6	31.1	30.3	30.6	30.8	31.1	31.6
Variations with the observer position at spacings:										
S=1.0H	+1.2/-1.6					+1.1/-1.3				
S=1.5H	+2.6/-9.9					+2.4/-8.9				
S=2.0H	+4.4/-35.1					+4.2/-37.9				

Calculate in accordance with CIE Pub.117. The table is revised with 461lm ($8\log(F/F_0) = -2.7$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	218	47.3
	FL (0°-30°)	111	24.1
	FM (30°-60°)	104	22.5
	FH (60°-80°)	3	0.7
	FVH (80°-90°)	0	0.0
	BACK LIGHT	243	52.7
	BL (0°-30°)	128	27.7
	BM (30°-60°)	111	24.0
	BH (60°-80°)	4	0.9
	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	1591.1	1.5	1.5	0.33	0.33
1.0-2.0	1566.6	4.5	6.0	0.98	1.31
2.0-3.0	1531.4	7.3	13.3	1.59	2.89
3.0-4.0	1487.9	10.0	23.3	2.16	5.05
4.0-5.0	1427.9	12.3	35.6	2.66	7.72
5.0-6.0	1345.7	14.1	49.7	3.07	10.78
6.0-7.0	1242.7	15.4	65.2	3.34	14.13
7.0-8.0	1123.9	16.1	81.2	3.49	17.62
8.0-9.0	993.9	16.1	97.4	3.49	21.11
9.0-10.0	857.2	15.5	112.9	3.36	24.47
10.0-11.0	720.8	14.4	127.3	3.12	27.60
11.0-12.0	591.5	12.9	140.2	2.80	30.40
12.0-13.0	474.9	11.3	151.5	2.44	32.84
13.0-14.0	374.5	9.6	161.1	2.08	34.92
14.0-15.0	293.1	8.0	169.1	1.74	36.67
15.0-16.0	230.4	6.8	175.9	1.46	38.13
16.0-17.0	183.8	5.7	181.6	1.24	39.37
17.0-18.0	151.2	5.0	186.6	1.08	40.45
18.0-19.0	128.7	4.5	191.1	0.97	41.42
19.0-20.0	113.3	4.1	195.2	0.90	42.32
20.0-21.0	103.5	4.0	199.2	0.86	43.19
21.0-22.0	97.4	3.9	203.1	0.85	44.03
22.0-23.0	93.7	3.9	207.0	0.85	44.89
23.0-24.0	91.2	4.0	211.0	0.86	45.75
24.0-25.0	89.9	4.1	215.1	0.89	46.64
25.0-26.0	89.7	4.2	219.3	0.92	47.56
26.0-27.0	91.4	4.5	223.8	0.97	48.53
27.0-28.0	94.4	4.8	228.6	1.04	49.56
28.0-29.0	96.6	5.1	233.6	1.10	50.66
29.0-30.0	99.3	5.4	239.0	1.16	51.82
30.0-31.0	103.5	5.8	244.8	1.25	53.07
31.0-32.0	107.6	6.2	250.9	1.34	54.41
32.0-33.0	111.6	6.6	257.5	1.43	55.83
33.0-34.0	115.5	7.0	264.5	1.52	57.35
34.0-35.0	119.7	7.4	271.9	1.61	58.96
35.0-36.0	124.1	7.9	279.8	1.71	60.67

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	127.8	8.3	288.2	1.81	62.48
37.0-38.0	130.8	8.7	296.9	1.89	64.37
38.0-39.0	133.4	9.1	306.0	1.97	66.35
39.0-40.0	135.1	9.4	315.4	2.04	68.39
40.0-41.0	135.1	9.6	325.1	2.09	70.48
41.0-42.0	133.7	9.7	334.8	2.11	72.58
42.0-43.0	131.3	9.7	344.5	2.11	74.69
43.0-44.0	127.3	9.6	354.1	2.08	76.78
44.0-45.0	121.7	9.4	363.5	2.03	78.80
45.0-46.0	115.3	9.0	372.5	1.96	80.76
46.0-47.0	108.7	8.6	381.1	1.87	82.63
47.0-48.0	101.8	8.2	389.4	1.78	84.42
48.0-49.0	94.8	7.8	397.1	1.69	86.11
49.0-50.0	87.9	7.3	404.5	1.59	87.70
50.0-51.0	81.2	6.9	411.4	1.49	89.19
51.0-52.0	75.0	6.4	417.8	1.40	90.58
52.0-53.0	69.3	6.0	423.8	1.31	91.89
53.0-54.0	64.1	5.6	429.5	1.22	93.11
54.0-55.0	59.1	5.3	434.7	1.14	94.26
55.0-56.0	53.1	4.8	439.5	1.04	95.30
56.0-57.0	46.6	4.3	443.8	0.92	96.22
57.0-58.0	40.7	3.8	447.6	0.82	97.04
58.0-59.0	35.0	3.3	450.8	0.71	97.75
59.0-60.0	29.4	2.8	453.6	0.60	98.35
60.0-61.0	24.2	2.3	455.9	0.50	98.85
61.0-62.0	19.1	1.8	457.8	0.40	99.25
62.0-63.0	14.3	1.4	459.1	0.30	99.55
63.0-64.0	9.9	1.0	460.1	0.21	99.76
64.0-65.0	6.1	0.6	460.7	0.13	99.89
65.0-66.0	3.2	0.3	461.0	0.07	99.96
66.0-67.0	1.2	0.1	461.2	0.03	99.99
67.0-68.0	0.3	0.0	461.2	0.01	99.99
68.0-69.0	0.1	0.0	461.2	0.00	99.99
69.0-70.0	0.1	0.0	461.2	0.00	100.00
70.0-71.0	0.0	0.0	461.2	0.00	100.00
71.0-72.0	0.0	0.0	461.2	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
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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	1599.1	1599.1								
G1.0	1602.4	1563.7								
G2.0	1568.5	1531.7								
G3.0	1501.3	1523.9								
G4.0	1408.9	1517.5								
G5.0	1297.2	1487.9								
G6.0	1168.8	1428.9								
G7.0	1029.8	1343.3								
G8.0	881.2	1241.5								
G9.0	736.0	1116.7								
G10.0	598.0	978.2								
G11.0	472.5	834.5								
G12.0	370.4	688.7								
G13.0	287.8	552.8								
G14.0	223.6	433.8								
G15.0	177.9	337.1								
G16.0	146.5	260.0								
G17.0	126.1	202.5								
G18.0	114.0	162.1								
G19.0	106.0	132.6								
G20.0	100.4	114.1								
G21.0	96.4	103.2								
G22.0	94.0	96.2								
G23.0	93.7	90.8								
G24.0	93.5	86.8								
G25.0	95.5	83.8								
G26.0	96.1	83.5								
G27.0	101.0	85.1								
G28.0	103.3	88.3								
G29.0	105.3	89.5								
G30.0	108.4	94.1								
G31.0	112.9	98.5								
G32.0	117.7	101.3								
G33.0	122.1	105.1								
G34.0	124.9	109.9								
G35.0	127.8	116.2								
G36.0	130.5	122.1								

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

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Operator:

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Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	132.3	126.4								
G38.0	133.8	130.6								
G39.0	134.5	134.5								
G40.0	133.5	137.8								
G41.0	129.4	139.8								
G42.0	124.2	141.6								
G43.0	118.0	141.6								
G44.0	111.4	138.1								
G45.0	104.1	133.0								
G46.0	96.8	127.3								
G47.0	89.5	121.2								
G48.0	82.9	113.7								
G49.0	76.7	106.0								
G50.0	70.9	98.2								
G51.0	65.6	90.2								
G52.0	61.1	83.0								
G53.0	56.6	76.3								
G54.0	52.8	70.6								
G55.0	47.7	65.2								
G56.0	42.0	57.3								
G57.0	36.6	50.5								
G58.0	31.4	44.3								
G59.0	26.4	37.8								
G60.0	21.8	31.7								
G61.0	17.1	26.1								
G62.0	12.6	20.4								
G63.0	8.6	15.6								
G64.0	4.8	10.8								
G65.0	2.1	6.8								
G66.0	0.4	3.3								
G67.0	0.2	0.8								
G68.0	0.2	0.0								
G69.0	0.2	0.0								
G70.0	0.2	0.0								
G71.0	0.0	0.0								
G72.0	0.2	0.0								
G73.0	0.2	0.0								

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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: