

Report No.:

Test Time: 2025-05-04 14:59

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MINI PRO 52.05527 24D

Luminous Length (mm): -53

Voltage: 228.3 V

Power: 8.50 W

Luminous Width (mm): -53

Current: 0.068 A

Power Factor: 0.542

Photometric Results

CIE Class: Direct

Measurement Flux: 684.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H22.6

Vertical Diffuse Angle(50%): V22.6

Luminaire Efficacy Rating (LER): 80.58

Max. Intensity: 3698.49 cd

S/MH(C0/C180): 0.40

Total Rated Lamp Lumens: 684.5 lm

Efficiency: 100%

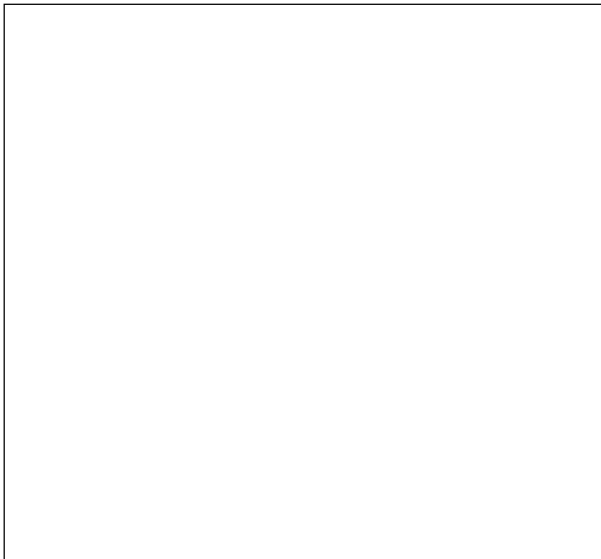
Upward Ratio: 0%

Central Intensity: 3503.07 cd

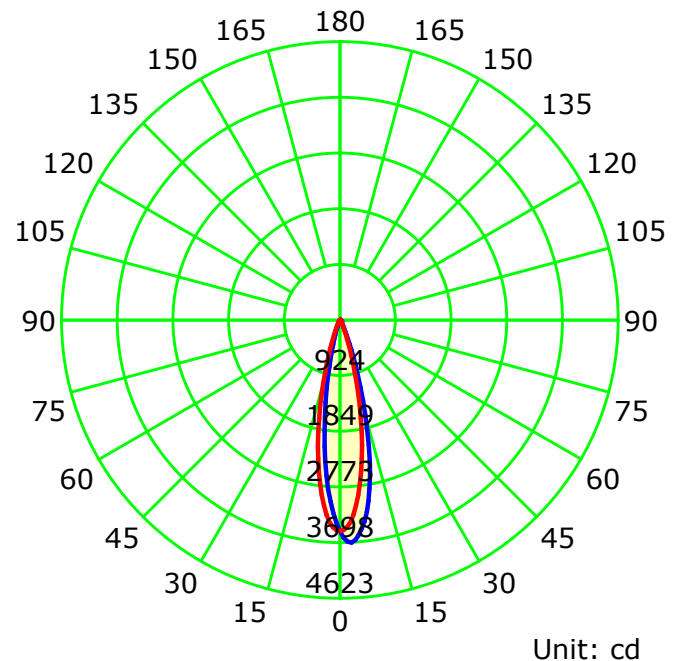
Pos of Max. Intensity: H0 V3

S/MH(C90/C270): 0.40

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

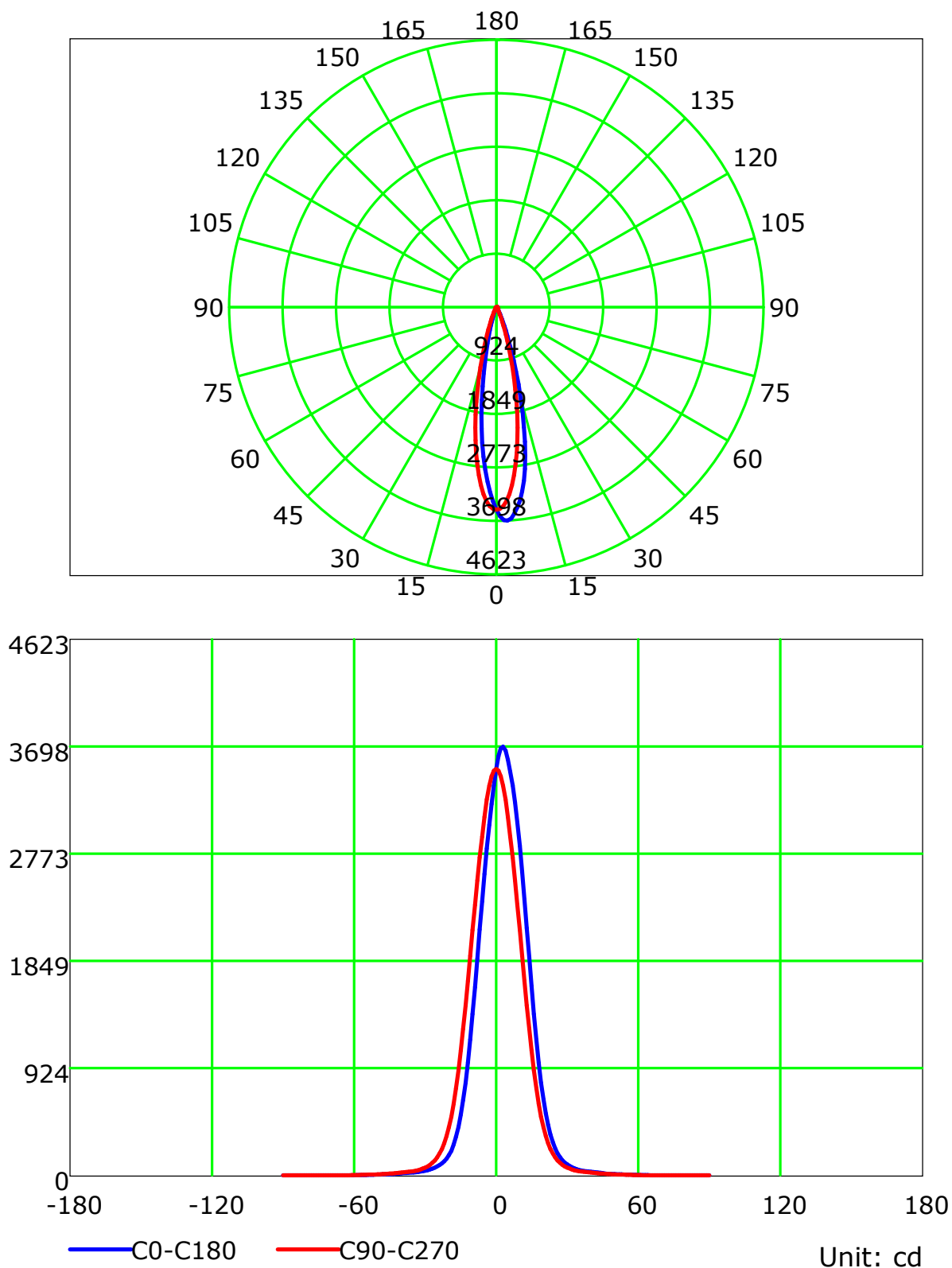
Test Device: CHL-6E

Distance: 3.655 m

Humidity:

Inspector:

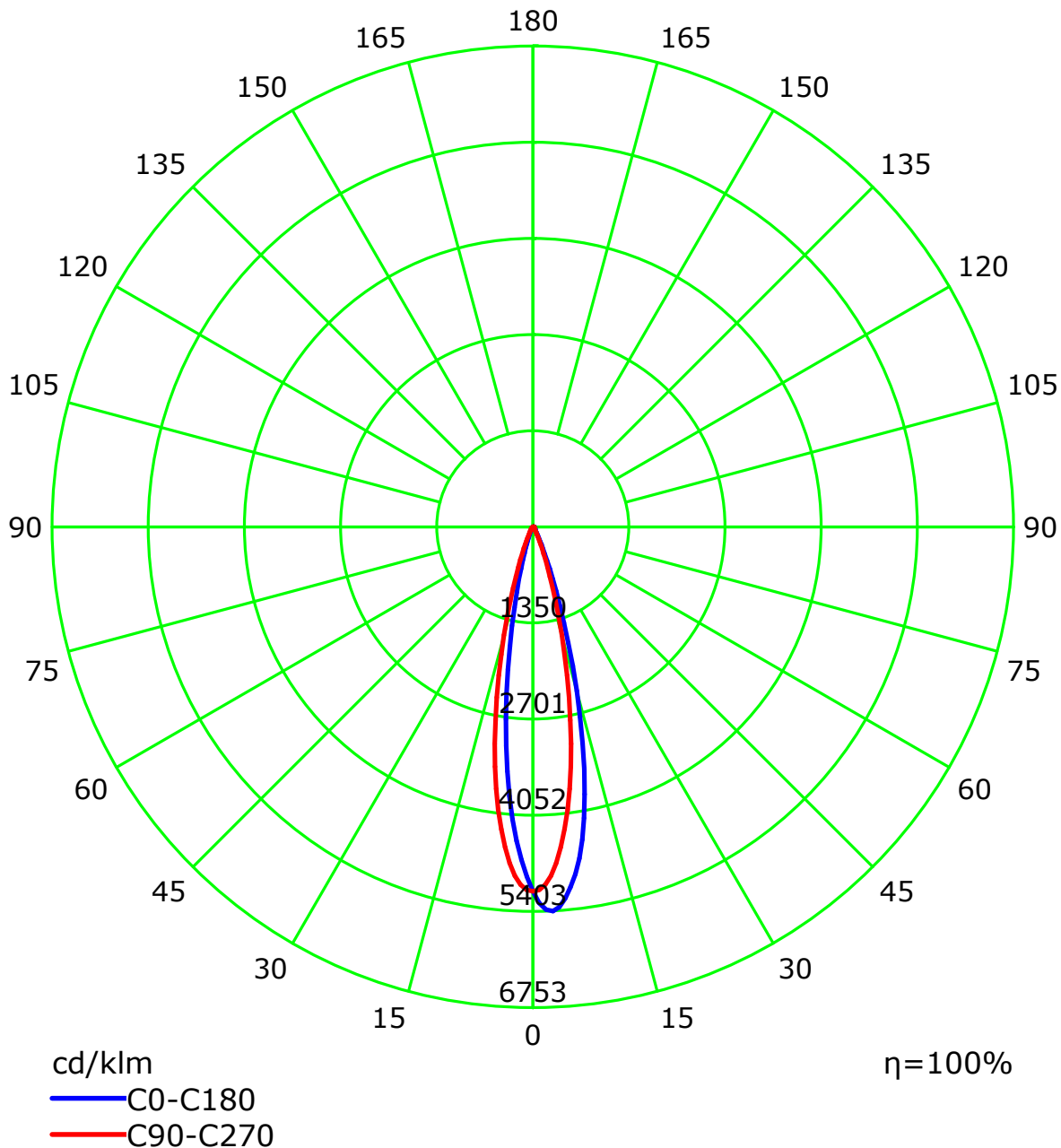
Luminous Intensity Distribution Curve



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: 3.655 m
Humidity:
Inspector:

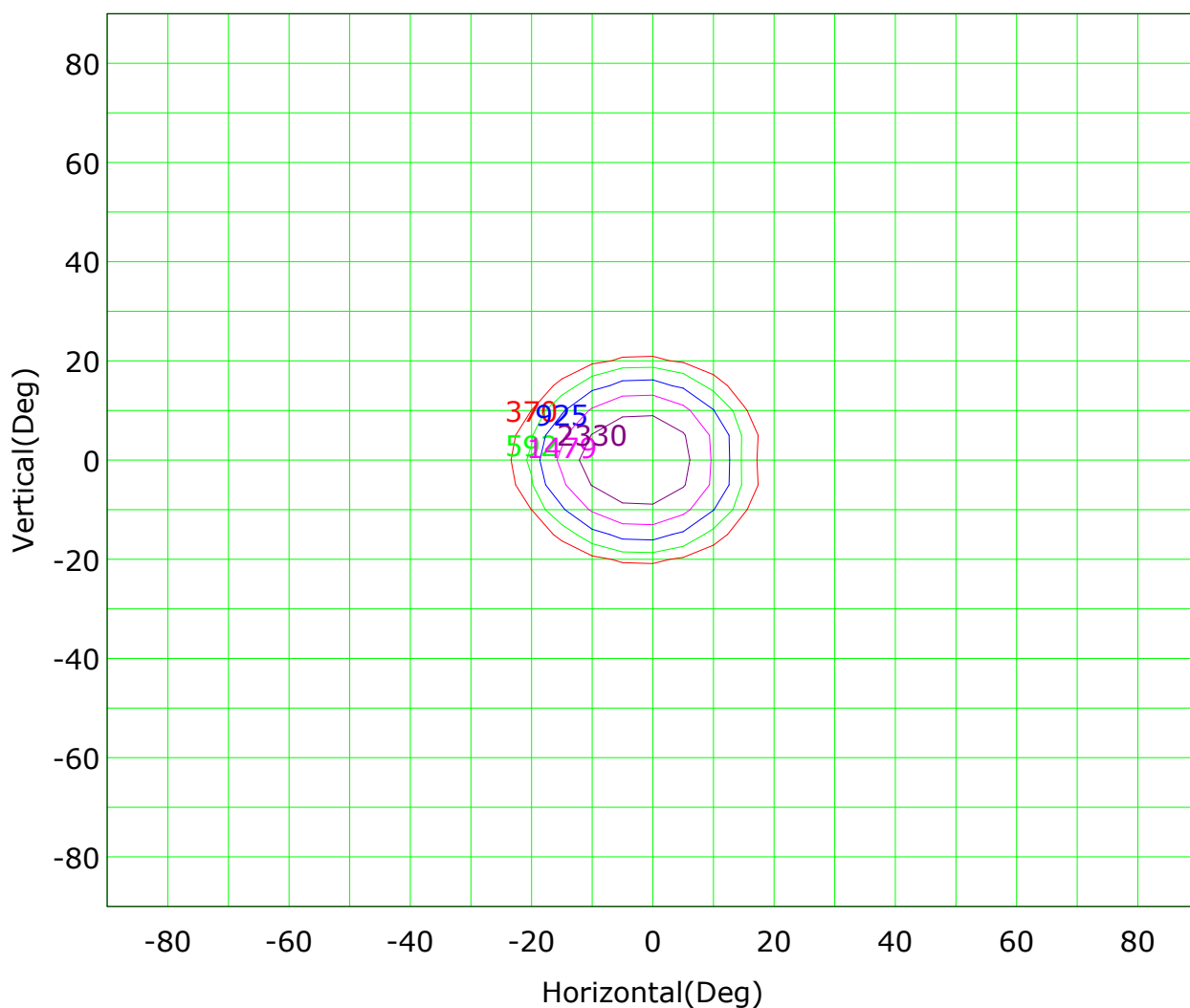
Luminous Intensity Distribution Curve(cd/klm)



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: 3.655 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 3698 cd

(10%): 370 cd	(16%): 592 cd
(25%): 925 cd	(40%): 1479 cd
(63%): 2330 cd	(100%): 3698 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

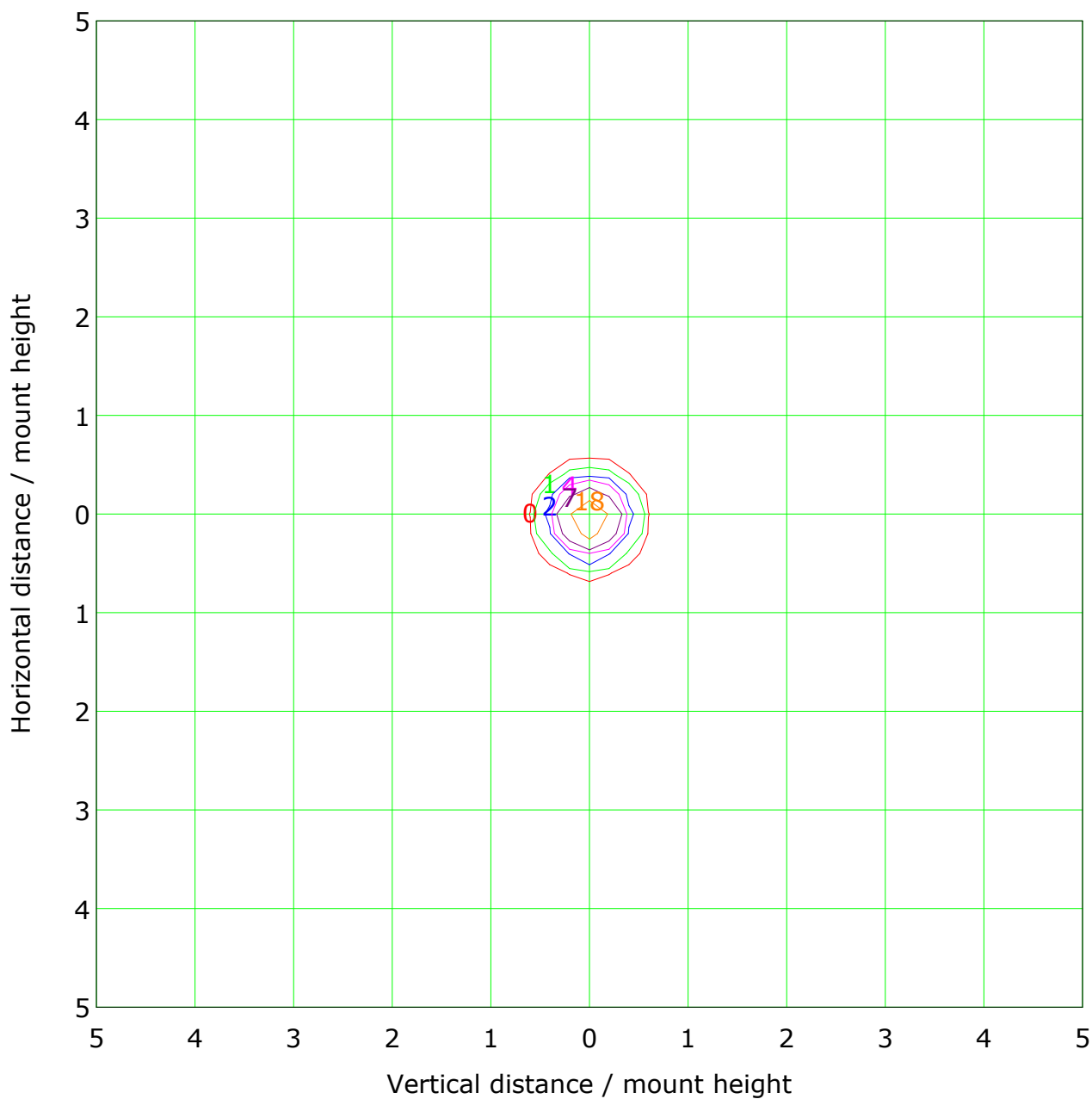
Test Device: CHL-6E

Distance: 3.655 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 36.8 lx

(1%): 0.4 lx	(2%): 0.7 lx
(5%): 1.8 lx	(10%): 3.7 lx
(20%): 7.4 lx	(50%): 18.4 lx
(100%): 36.8 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

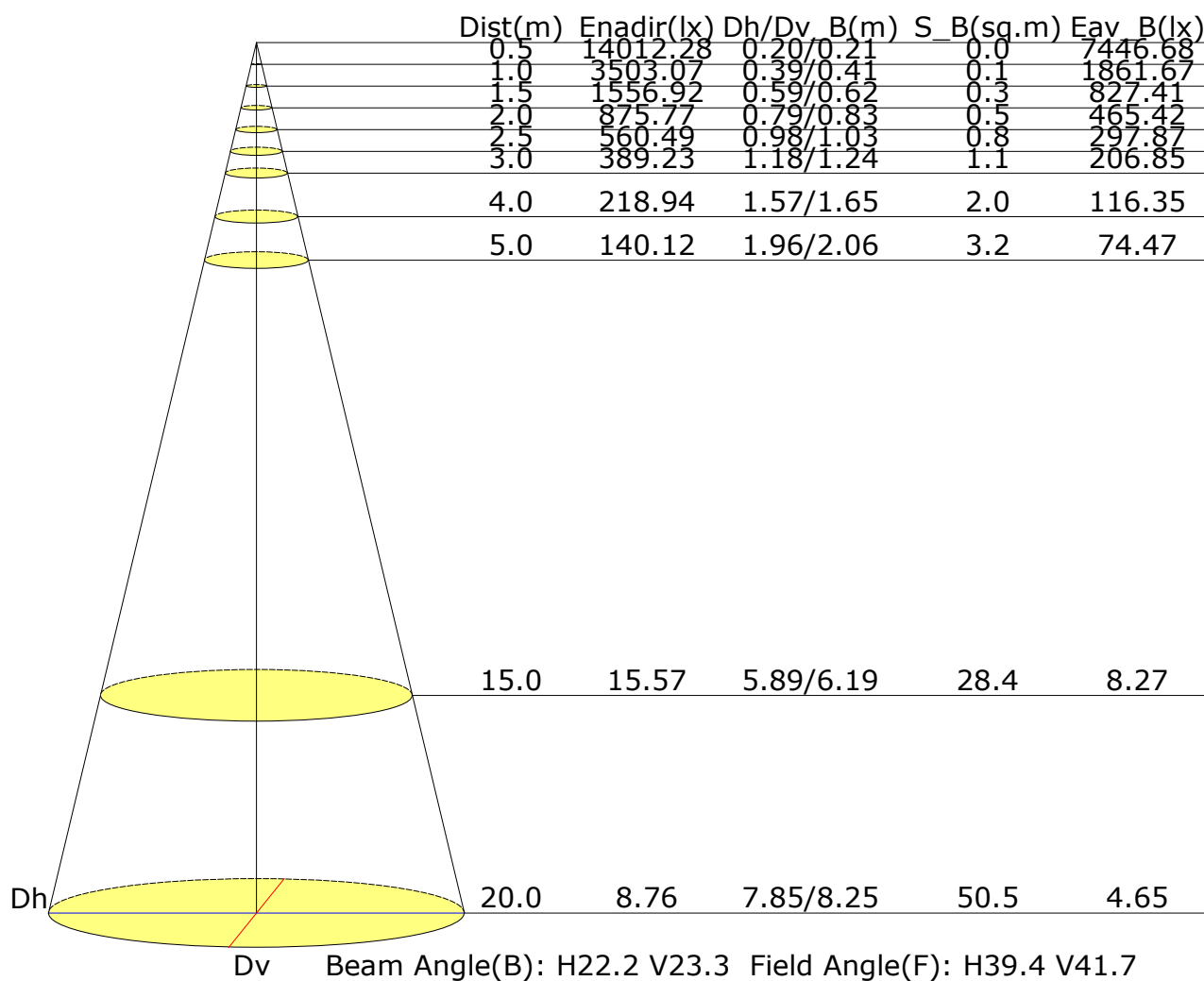
Test Device: CHL-6E

Distance: 3.655 m

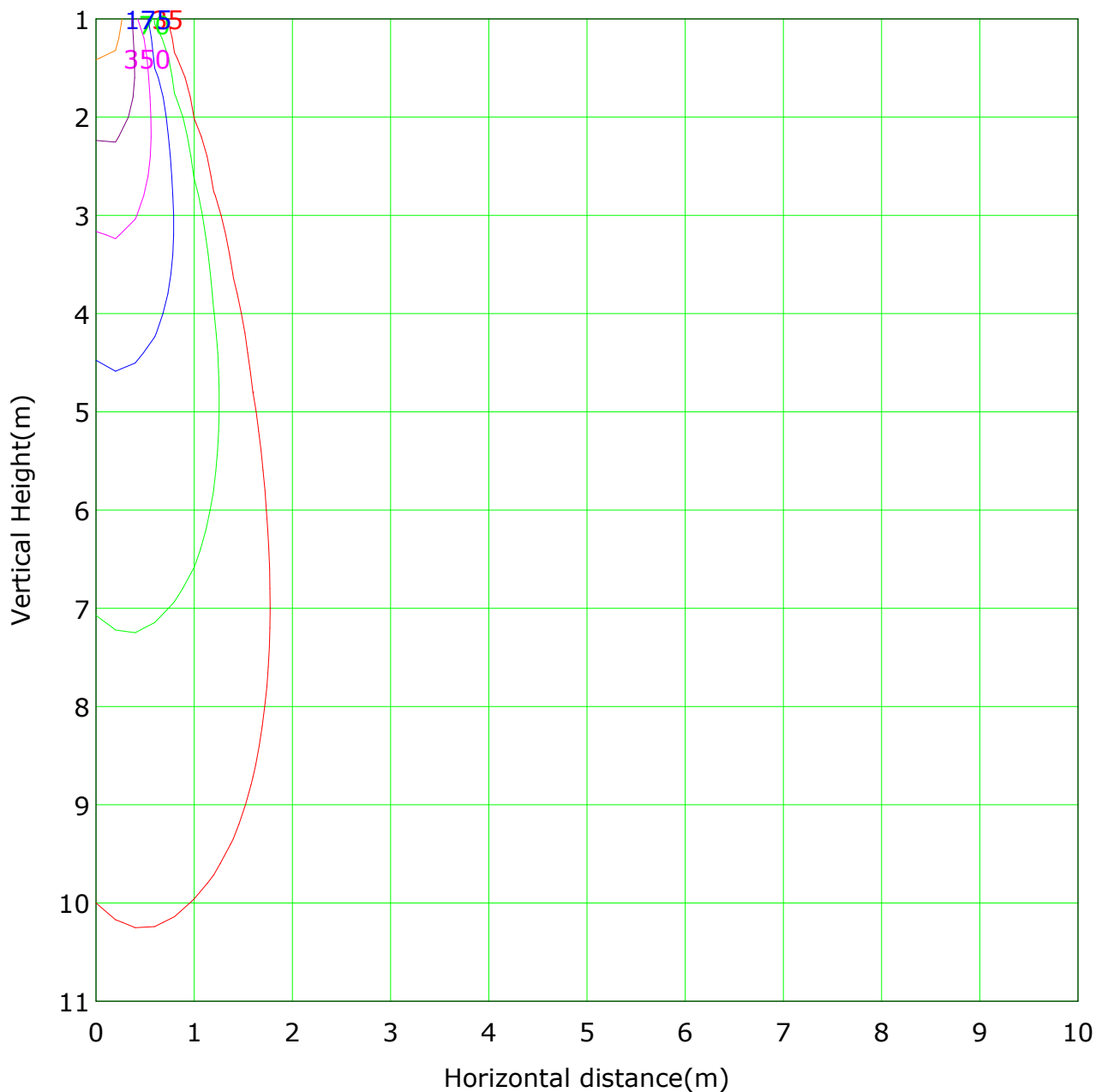
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



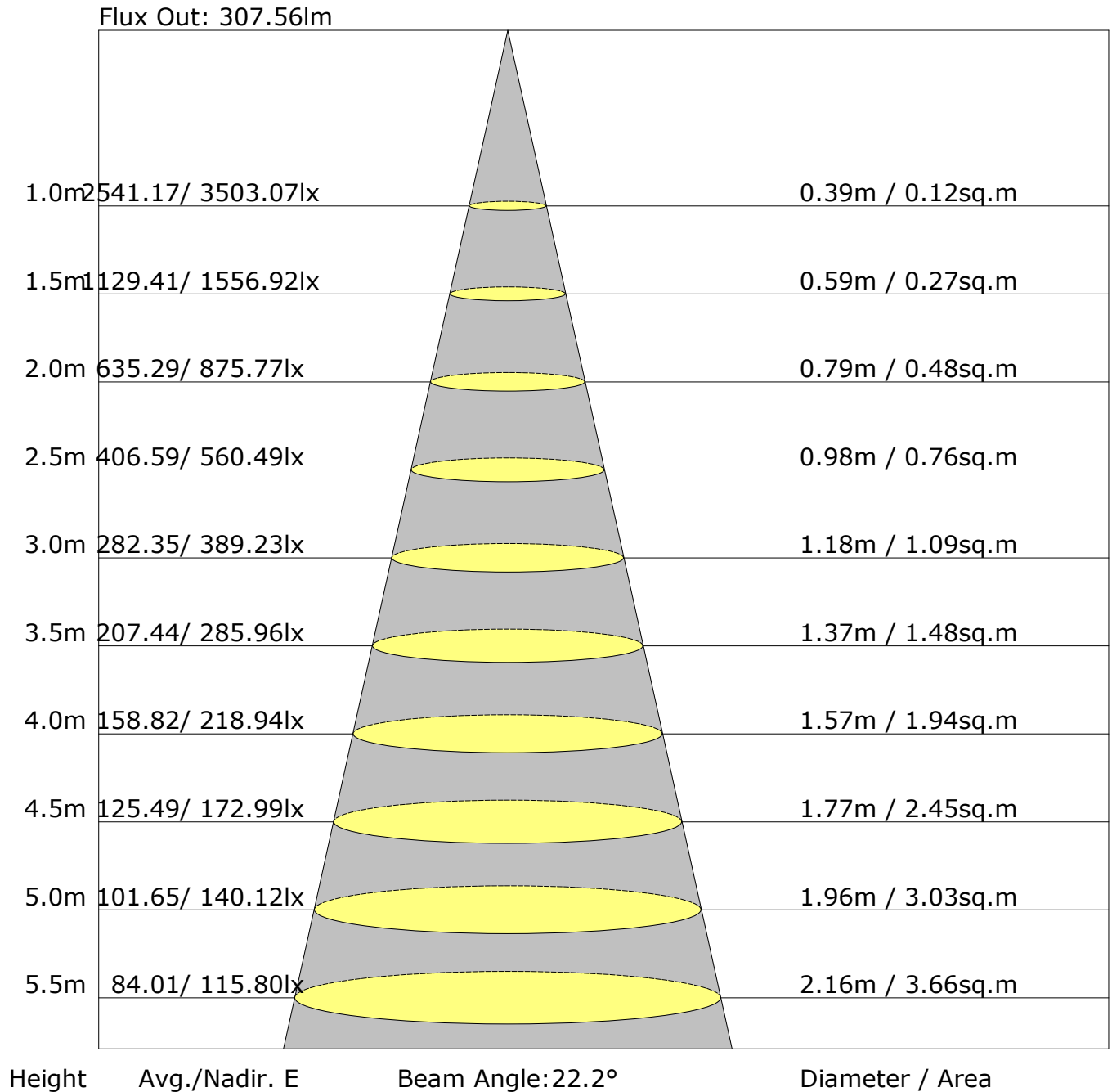
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3503.1 lx
— (1%): 35.0 lx — (2%): 70.1 lx
— (5%): 175.2 lx — (10%): 350.3 lx
— (20%): 700.6 lx — (50%): 1751.5 lx
— (100%): 3503.1 lx

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: 3.655 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.655 m
Humidity:
Inspector:

The Average Illuminance Effective Figure



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: 3.655 m
Humidity:
Inspector:

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	11.8	12.4	12.0	12.6	12.8	10.7	11.3	11.0	11.5	11.7
3H	11.7	12.2	12.0	12.5	12.7	10.6	11.2	10.9	11.4	11.6
4H	11.6	12.1	11.9	12.4	12.6	10.5	11.0	10.8	11.3	11.6
6H	11.5	12.0	11.9	12.3	12.6	10.5	10.9	10.8	11.2	11.5
8H	11.5	12.0	11.8	12.3	12.5	10.4	10.9	10.8	11.2	11.5
12H	11.5	11.9	11.8	12.2	12.5	10.4	10.8	10.7	11.1	11.4
X=4H Y=2H	11.7	12.2	12.0	12.5	12.7	10.7	11.2	11.0	11.4	11.7
3H	11.6	12.0	11.9	12.3	12.6	10.5	11.0	10.9	11.3	11.6
4H	11.5	11.9	11.9	12.2	12.6	10.4	10.8	10.8	11.2	11.5
6H	11.4	11.7	11.8	12.1	12.5	10.4	10.7	10.8	11.1	11.5
8H	11.3	11.7	11.8	12.1	12.5	10.3	10.6	10.7	11.0	11.4
12H	11.3	11.6	11.7	12.0	12.4	10.3	10.6	10.7	11.0	11.4
X=8H Y=4H	11.3	11.7	11.8	12.1	12.5	10.3	10.6	10.7	11.0	11.4
6H	11.2	11.5	11.7	11.9	12.4	10.2	10.5	10.7	10.9	11.3
8H	11.2	11.4	11.7	11.9	12.3	10.2	10.4	10.6	10.8	11.3
12H	11.1	11.3	11.6	11.8	12.3	10.1	10.3	10.6	10.8	11.3
X=12H Y=4H	11.3	11.6	11.7	12.0	12.4	10.3	10.6	10.7	11.0	11.4
6H	11.2	11.4	11.7	11.9	12.3	10.2	10.4	10.6	10.8	11.3
8H	11.1	11.3	11.6	11.8	12.3	10.1	10.3	10.6	10.8	11.3
Variations with the observer position at spacings:										
S=1.0H	+3.0/-3.4					+2.6/-3.6				
S=1.5H	+5.4/-7.1					+4.9/-8.4				
S=2.0H	+7.3/-20.6					+6.8/-22.1				

Calculate in accordance with CIE Pub.117. The table is revised with 685lm ($8\log(F/F_0) = -1.3$).

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: 3.655 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	405	59.2
	FL (0°-30°)	380	55.5
	FM (30°-60°)	24	3.6
	FH (60°-80°)	1	0.1
	FVH (80°-90°)	0	0.0
	BACK LIGHT	279	40.8
	BL (0°-30°)	261	38.1
	BM (30°-60°)	18	2.6
	BH (60°-80°)	0	0.0
	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: 3.655 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	3496.9	3.3	3.3	0.49	0.49
1.0-2.0	3467.0	10.0	13.3	1.45	1.94
2.0-3.0	3402.0	16.3	29.6	2.38	4.32
3.0-4.0	3301.4	22.1	51.7	3.23	7.55
4.0-5.0	3166.9	27.2	78.9	3.98	11.53
5.0-6.0	3007.3	31.6	110.5	4.62	16.15
6.0-7.0	2832.2	35.2	145.7	5.14	21.28
7.0-8.0	2642.5	37.8	183.5	5.53	26.81
8.0-9.0	2439.0	39.5	223.0	5.78	32.59
9.0-10.0	2225.7	40.3	263.3	5.88	38.47
10.0-11.0	2005.7	40.1	303.4	5.86	44.33
11.0-12.0	1785.6	39.0	342.5	5.70	50.03
12.0-13.0	1570.9	37.3	379.7	5.45	55.48
13.0-14.0	1365.0	34.9	414.7	5.11	60.58
14.0-15.0	1171.1	32.2	446.8	4.70	65.28
15.0-16.0	991.4	29.1	475.9	4.24	69.52
16.0-17.0	827.9	25.8	501.7	3.77	73.29
17.0-18.0	684.4	22.6	524.2	3.30	76.59
18.0-19.0	562.7	19.6	543.8	2.86	79.45
19.0-20.0	461.0	16.9	560.7	2.47	81.91
20.0-21.0	377.4	14.5	575.2	2.12	84.03
21.0-22.0	309.0	12.4	587.6	1.81	85.84
22.0-23.0	253.0	10.6	598.2	1.55	87.40
23.0-24.0	207.4	9.1	607.3	1.32	88.72
24.0-25.0	170.9	7.8	615.1	1.14	89.86
25.0-26.0	141.7	6.7	621.8	0.98	90.83
26.0-27.0	118.3	5.8	627.5	0.85	91.68
27.0-28.0	99.7	5.0	632.6	0.74	92.42
28.0-29.0	84.9	4.4	637.0	0.65	93.06
29.0-30.0	73.1	3.9	641.0	0.58	93.64
30.0-31.0	63.7	3.5	644.5	0.52	94.16
31.0-32.0	55.9	3.2	647.7	0.47	94.63
32.0-33.0	49.2	2.9	650.6	0.42	95.05
33.0-34.0	43.7	2.6	653.3	0.39	95.44
34.0-35.0	39.3	2.4	655.7	0.36	95.79
35.0-36.0	35.6	2.3	658.0	0.33	96.12

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: 3.655 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	32.7	2.1	660.1	0.31	96.44
37.0-38.0	30.1	2.0	662.1	0.29	96.73
38.0-39.0	27.9	1.9	664.0	0.28	97.01
39.0-40.0	25.8	1.8	665.8	0.26	97.27
40.0-41.0	23.8	1.7	667.5	0.25	97.52
41.0-42.0	21.8	1.6	669.1	0.23	97.75
42.0-43.0	19.8	1.5	670.6	0.21	97.96
43.0-44.0	18.0	1.4	671.9	0.20	98.16
44.0-45.0	16.3	1.3	673.2	0.18	98.35
45.0-46.0	14.5	1.1	674.3	0.17	98.51
46.0-47.0	12.9	1.0	675.3	0.15	98.66
47.0-48.0	11.6	0.9	676.3	0.14	98.80
48.0-49.0	10.6	0.9	677.1	0.13	98.92
49.0-50.0	9.8	0.8	678.0	0.12	99.04
50.0-51.0	9.2	0.8	678.7	0.11	99.16
51.0-52.0	8.5	0.7	679.5	0.11	99.26
52.0-53.0	7.8	0.7	680.1	0.10	99.36
53.0-54.0	7.1	0.6	680.8	0.09	99.45
54.0-55.0	6.4	0.6	681.3	0.08	99.54
55.0-56.0	5.8	0.5	681.9	0.08	99.61
56.0-57.0	5.1	0.5	682.3	0.07	99.68
57.0-58.0	4.6	0.4	682.8	0.06	99.74
58.0-59.0	4.0	0.4	683.1	0.05	99.80
59.0-60.0	3.4	0.3	683.4	0.05	99.85
60.0-61.0	2.7	0.3	683.7	0.04	99.88
61.0-62.0	2.2	0.2	683.9	0.03	99.92
62.0-63.0	1.9	0.2	684.1	0.03	99.94
63.0-64.0	1.4	0.1	684.2	0.02	99.96
64.0-65.0	1.0	0.1	684.3	0.01	99.98
65.0-66.0	0.7	0.1	684.4	0.01	99.99
66.0-67.0	0.5	0.0	684.5	0.01	99.99
67.0-68.0	0.3	0.0	684.5	0.00	100.00
68.0-69.0	0.1	0.0	684.5	0.00	100.00
69.0-70.0	0.0	0.0	684.5	0.00	100.00
70.0-71.0	0.0	0.0	684.5	0.00	100.00
71.0-72.0	0.0	0.0	684.5	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: 3.655 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.655 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	3503.1	3503.1								
G1.0	3617.0	3364.4								
G2.0	3683.8	3202.7								
G3.0	3698.5	3023.1								
G4.0	3664.5	2819.5								
G5.0	3585.0	2598.6								
G6.0	3481.5	2364.0								
G7.0	3363.2	2120.1								
G8.0	3218.1	1868.8								
G9.0	3044.1	1625.0								
G10.0	2843.0	1390.5								
G11.0	2618.1	1171.3								
G12.0	2380.0	973.2								
G13.0	2133.1	797.4								
G14.0	1881.5	648.2								
G15.0	1631.9	522.8								
G16.0	1392.0	418.8								
G17.0	1167.5	333.2								
G18.0	970.9	265.8								
G19.0	801.0	212.9								
G20.0	656.3	173.7								
G21.0	535.6	143.9								
G22.0	435.1	121.4								
G23.0	351.7	103.6								
G24.0	285.0	89.3								
G25.0	231.8	77.6								
G26.0	189.9	67.5								
G27.0	156.9	58.7								
G28.0	131.3	51.7								
G29.0	110.8	45.8								
G30.0	95.1	40.7								
G31.0	82.2	36.8								
G32.0	71.1	33.4								
G33.0	61.5	30.7								
G34.0	54.2	28.5								
G35.0	48.1	26.4								
G36.0	43.1	24.9								

C Plane (°):0.0-180.0: 180.0

Test Lab:

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Test Device: CHL-6E

Distance: 3.655 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	39.4	23.4								
G38.0	35.9	21.7								
G39.0	33.4	20.4								
G40.0	31.1	18.3								
G41.0	29.2	16.5								
G42.0	27.3	14.4								
G43.0	24.7	13.0								
G44.0	22.3	12.0								
G45.0	19.9	10.9								
G46.0	17.1	10.0								
G47.0	14.8	9.6								
G48.0	13.2	8.8								
G49.0	12.1	8.1								
G50.0	11.5	7.6								
G51.0	10.6	6.9								
G52.0	10.0	6.3								
G53.0	9.3	5.7								
G54.0	8.5	4.8								
G55.0	8.1	4.2								
G56.0	7.2	3.6								
G57.0	6.6	3.1								
G58.0	6.0	2.7								
G59.0	5.1	2.3								
G60.0	4.3	1.8								
G61.0	3.9	0.9								
G62.0	3.4	0.8								
G63.0	2.8	0.4								
G64.0	2.3	0.0								
G65.0	1.6	0.0								
G66.0	1.2	0.0								
G67.0	0.6	0.0								
G68.0	0.4	0.0								
G69.0	0.2	0.0								
G70.0	0.0	0.0								
G71.0	0.0	0.0								
G72.0	0.0	0.0								
G73.0	0.0	0.0								

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: 3.655 m

Humidity:

Inspector:

Unit: cd

Inspector: