

Report No.:AX-MG-FL-AC-F-27W-220

Test Time: 2025-09-20 16:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 38D

Luminous Width (mm): -20

Current: 0.122 A

Power Factor: 0.963

Luminous Length (mm): -650

Voltage: 230.4 V

Power: 27.10 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2691 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H41.6

Vertical Diffuse Angle(50%): V41.6

Luminaire Efficacy Rating (LER): 99.35

Max. Intensity: 5124.3 cd

S/MH(C0/C180): 0.67

Total Rated Lamp Lumens: 2691.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 5089.2 cd

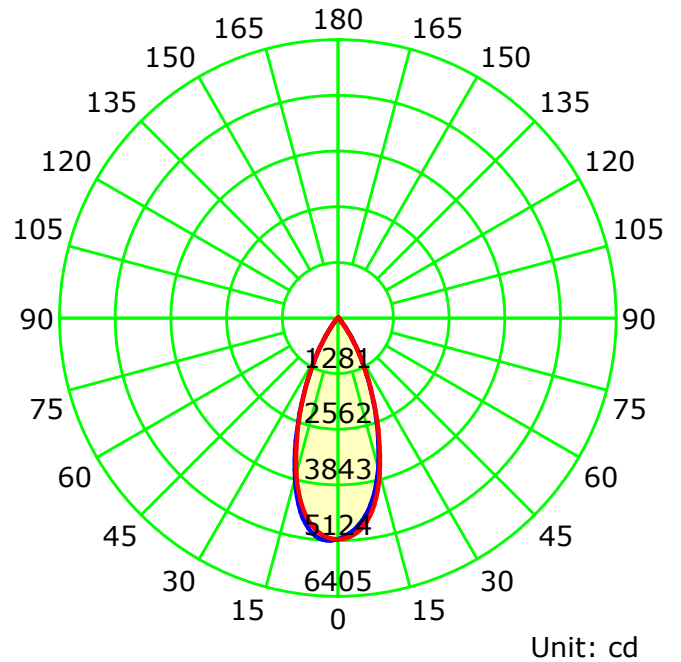
Pos of Max. Intensity: H180 V2

S/MH(C90/C270): 0.67

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

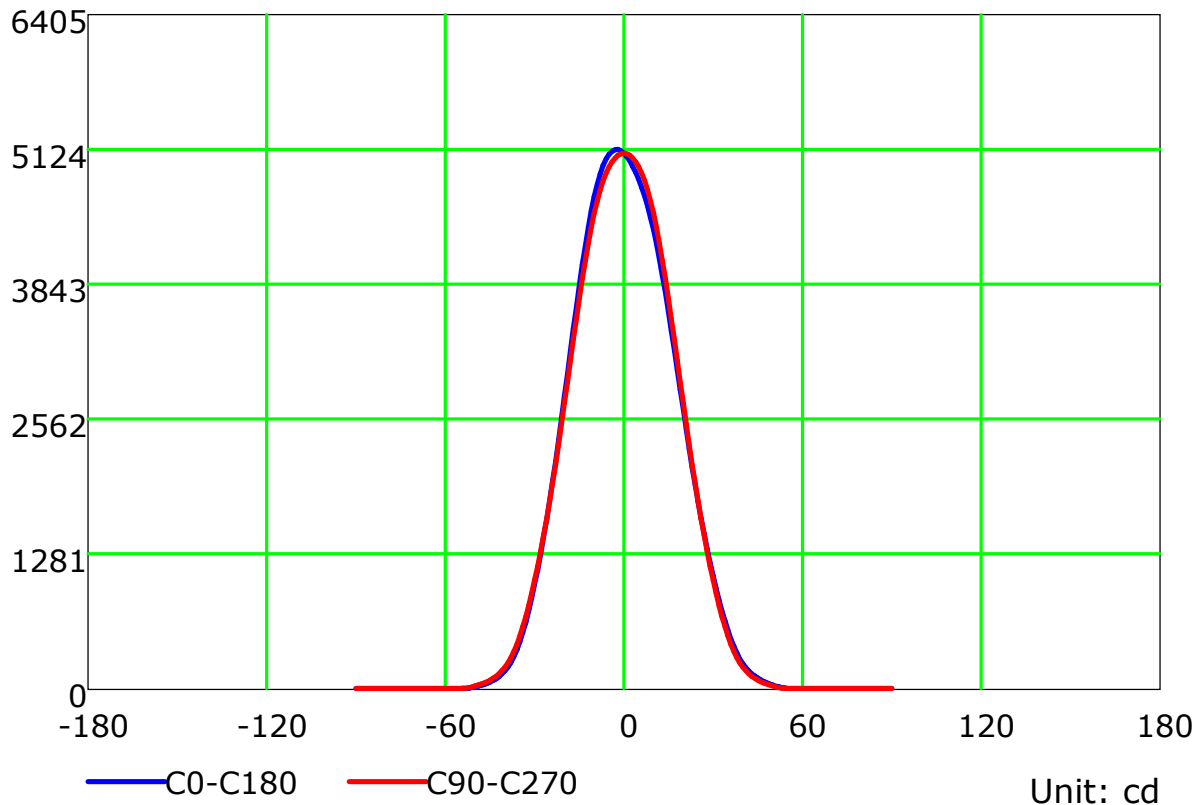
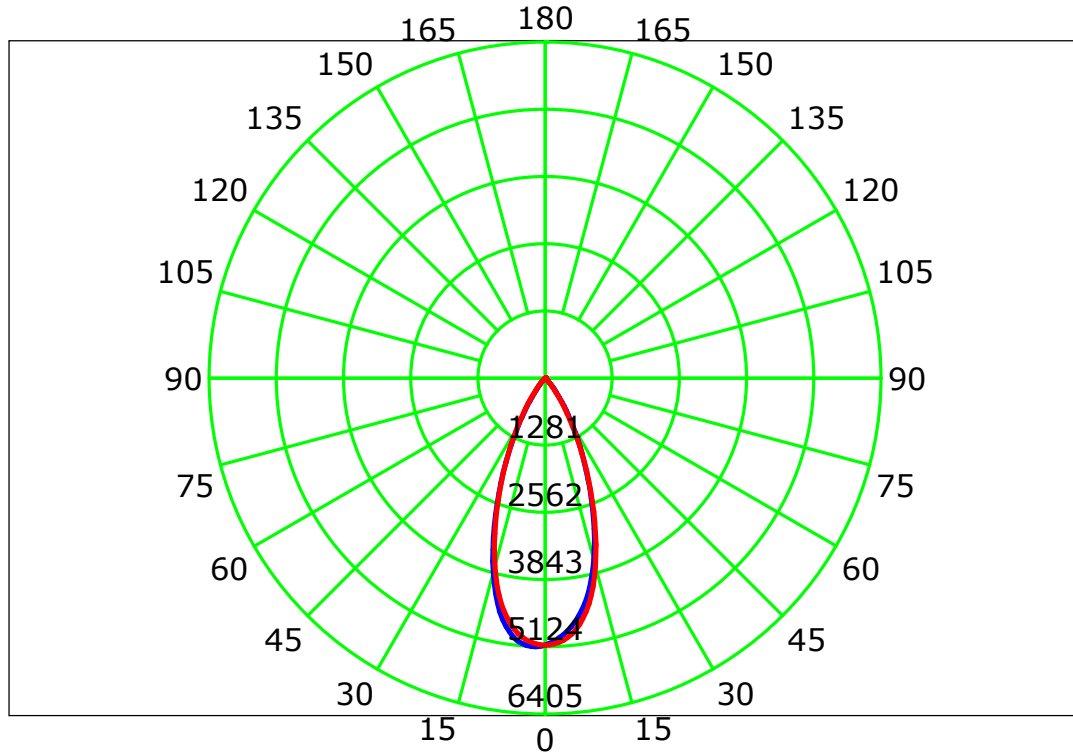
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

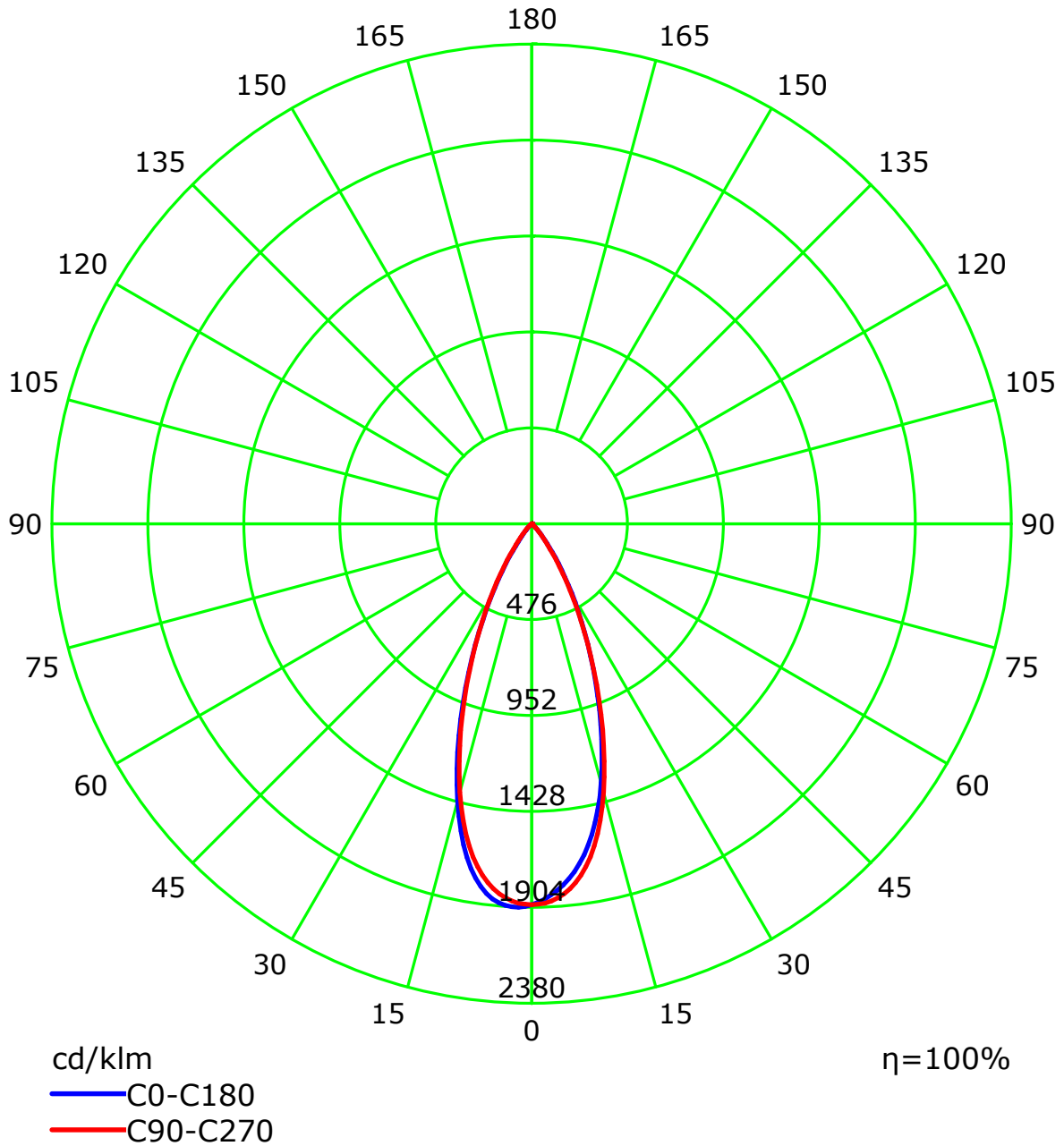
Luminous Intensity Distribution Curve



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: 2.905 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

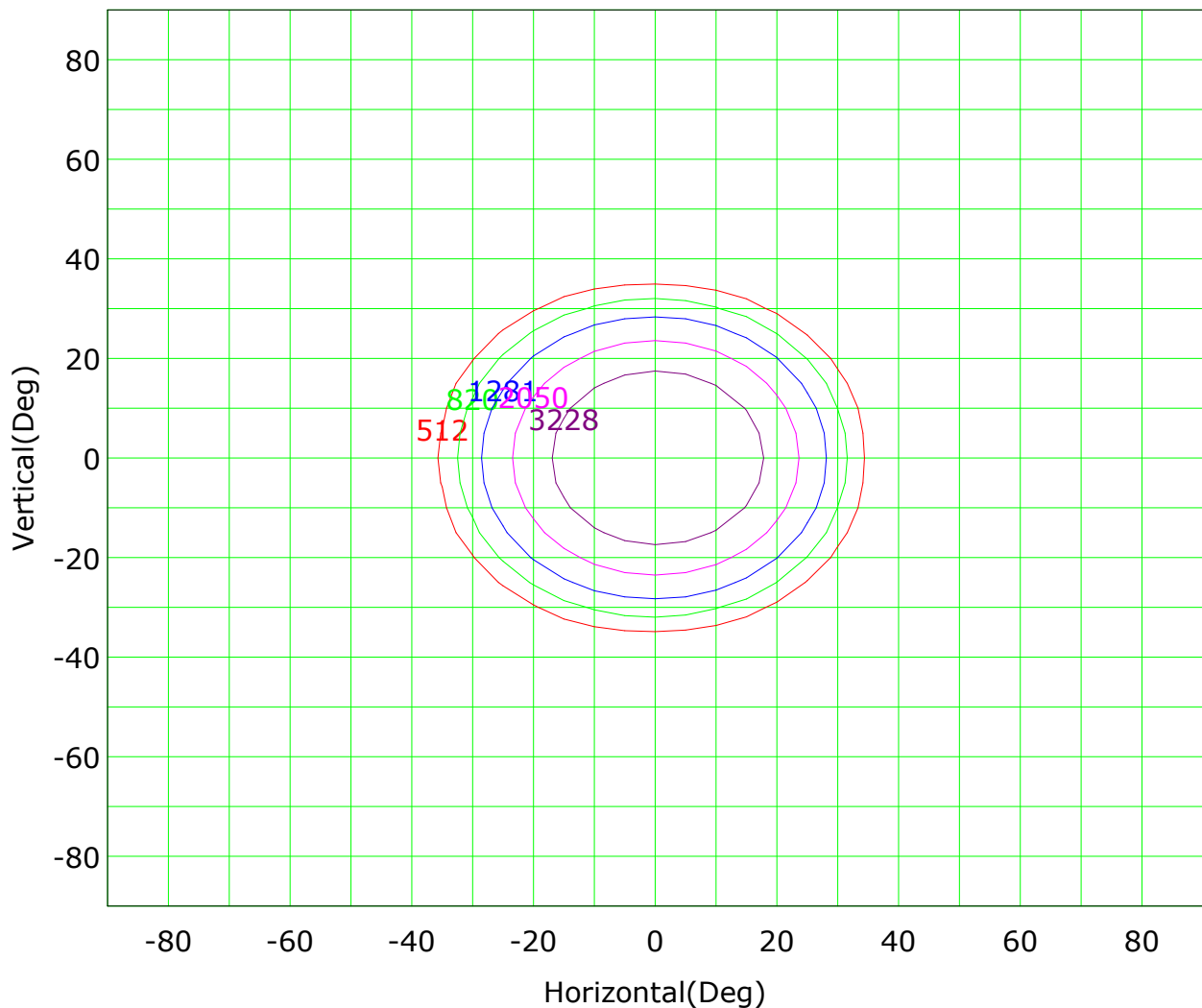
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Isocandela (rectangle)



Imax (100%): 5124 cd

(10%): 512 cd	(16%): 820 cd
(25%): 1281 cd	(40%): 2050 cd
(63%): 3228 cd	(100%): 5124 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

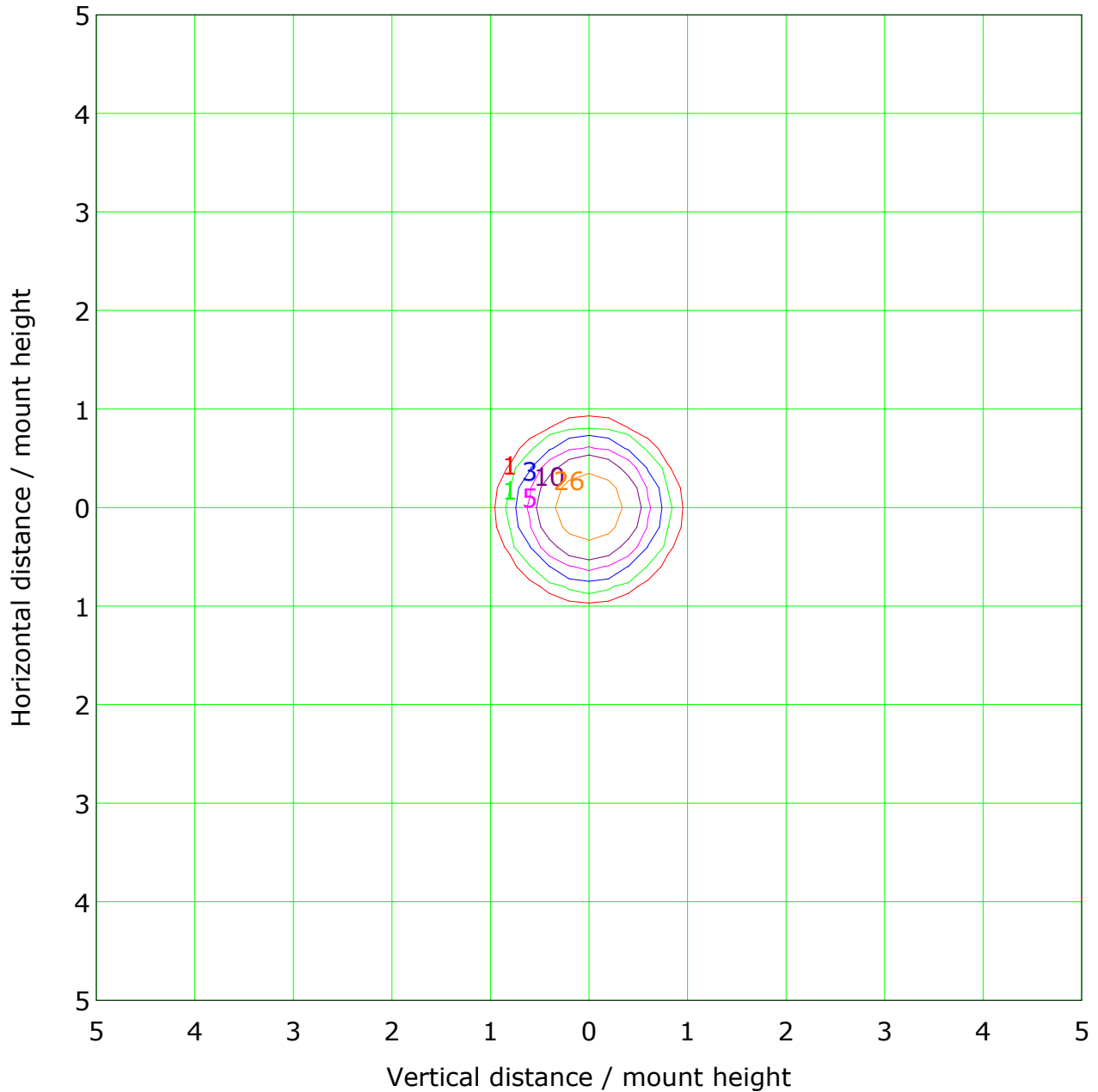
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



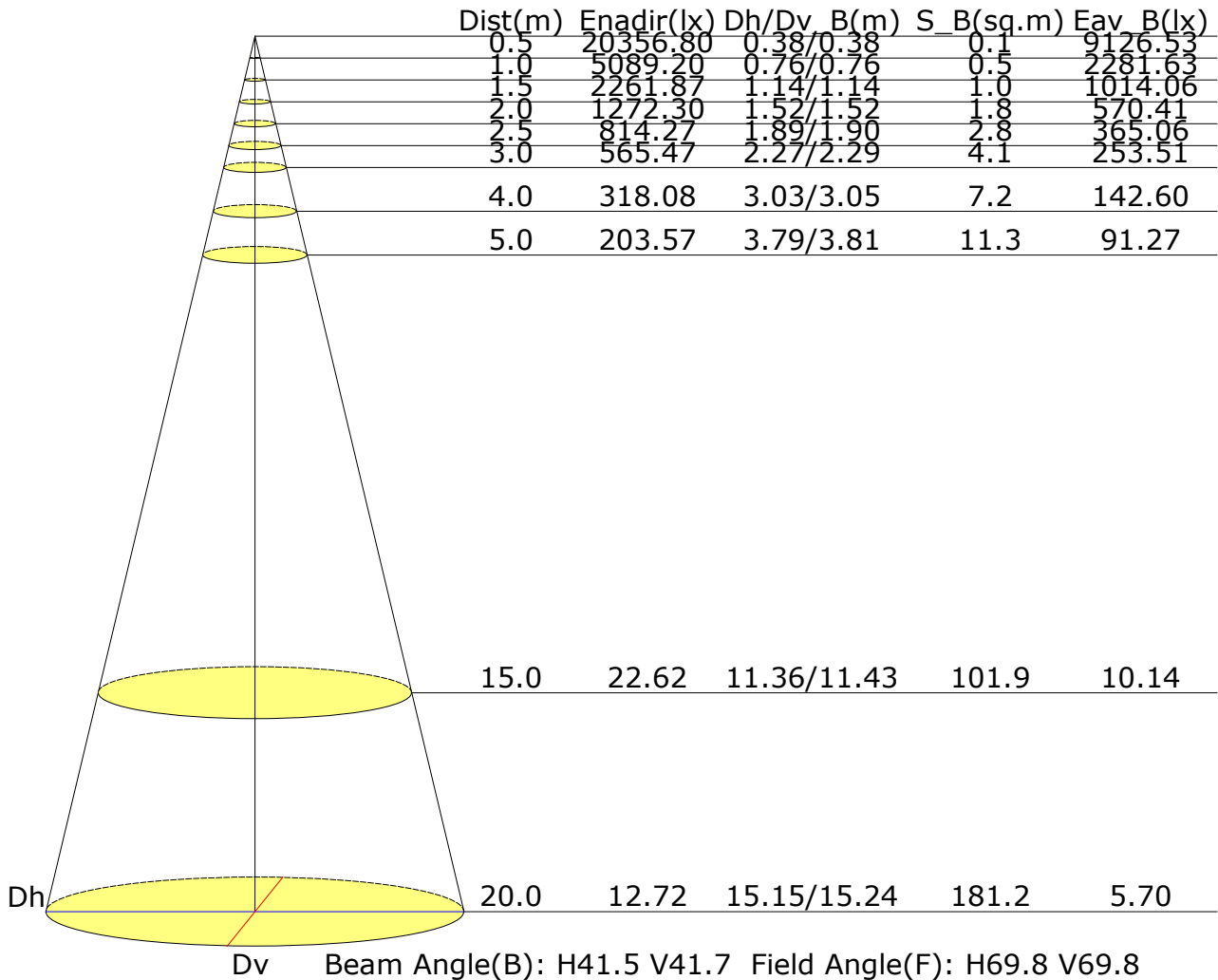
Mounting Height: 10.0m Max Lux(100%): 51.1 lx

(1%): 0.5 lx	(2%): 1.0 lx
(5%): 2.6 lx	(10%): 5.1 lx
(20%): 10.2 lx	(50%): 25.6 lx
(100%): 51.1 lx	

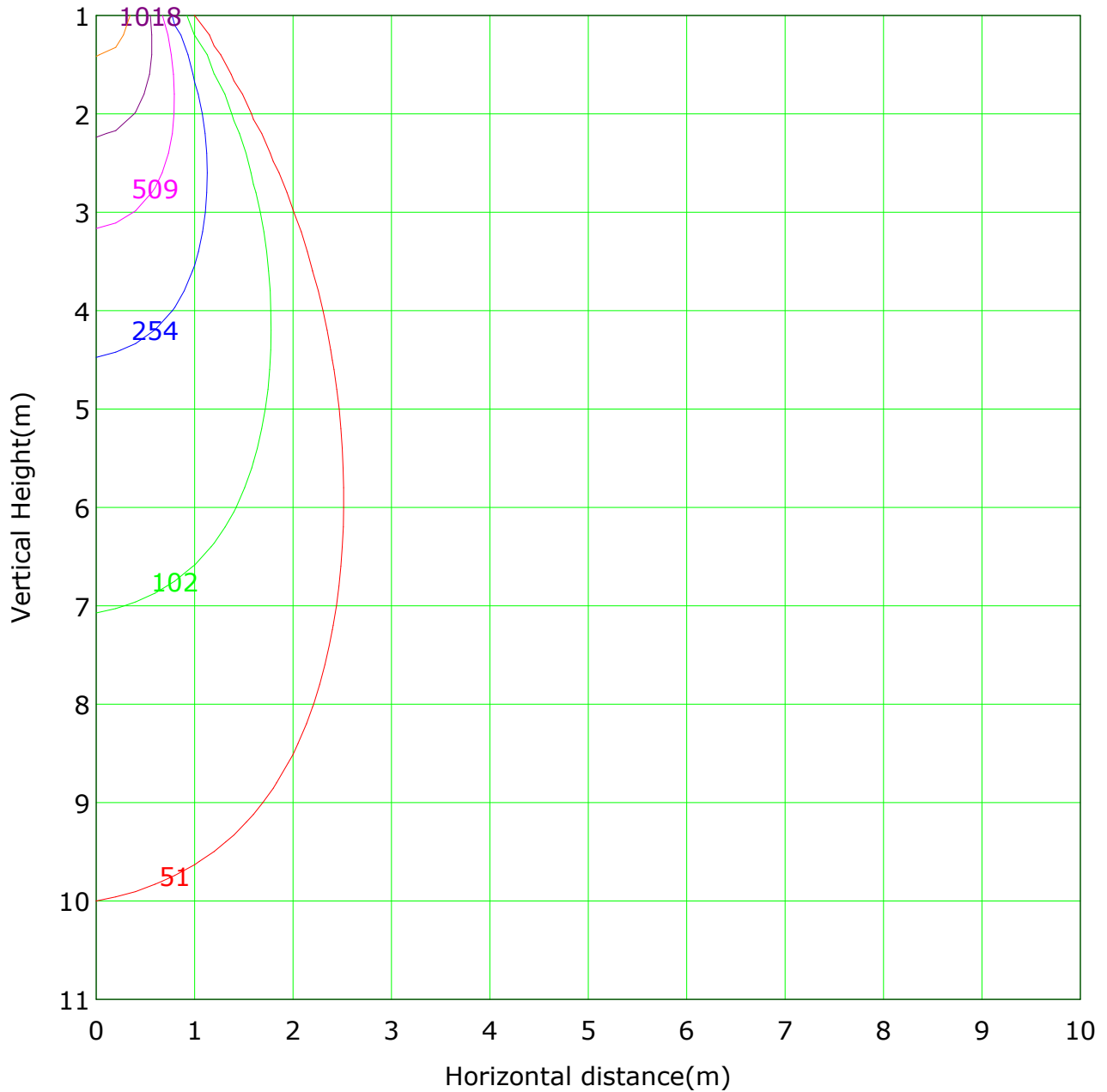
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

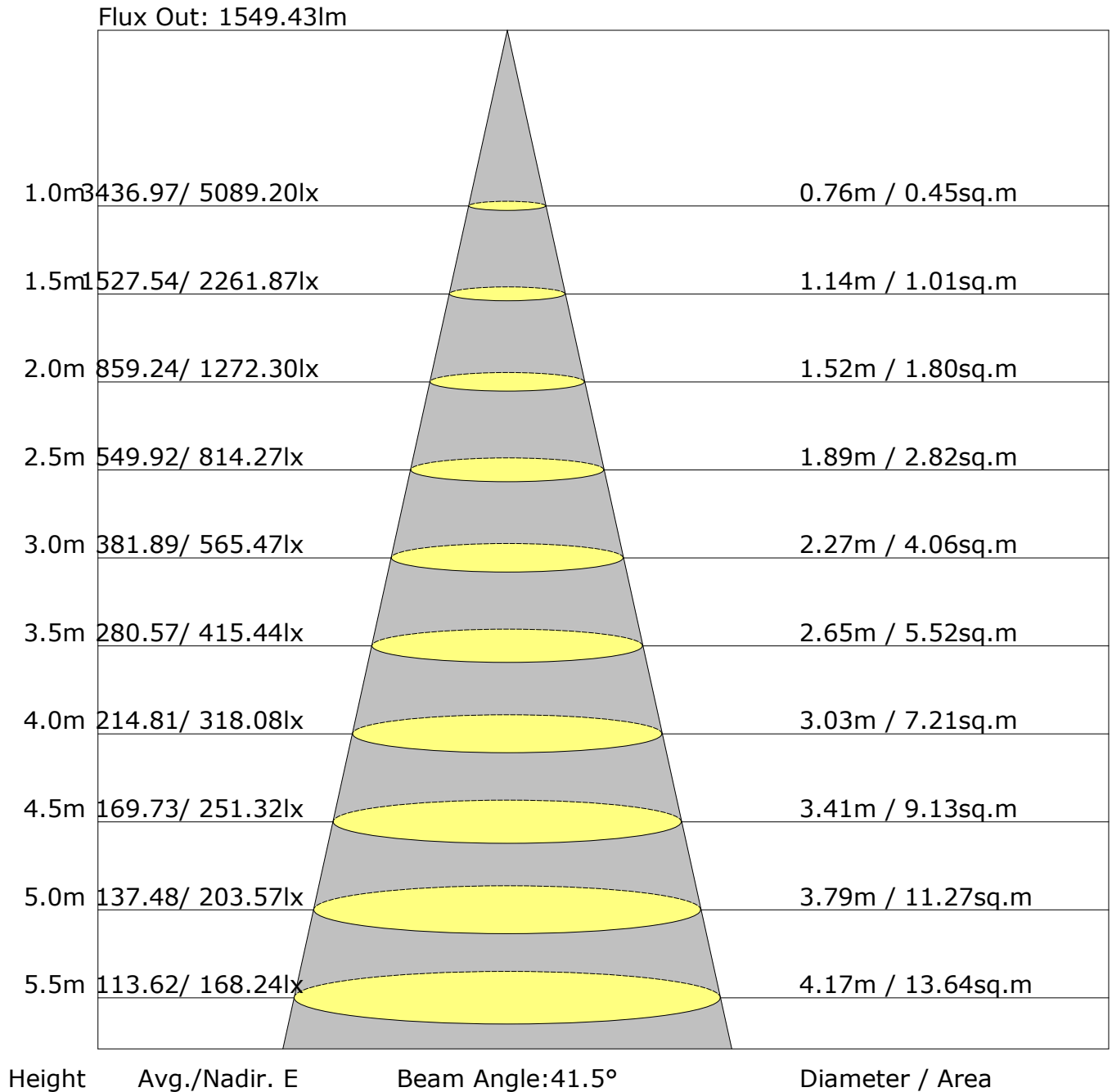


Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5089.2 lx
 (1%): 50.9 lx (2%): 101.8 lx
 (5%): 254.5 lx (10%): 508.9 lx
 (20%): 1017.8 lx (50%): 2544.6 lx
 (100%): 5089.2 lx

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: 2.905 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: 2.905 m
Humidity:
Inspector:

UGR Table

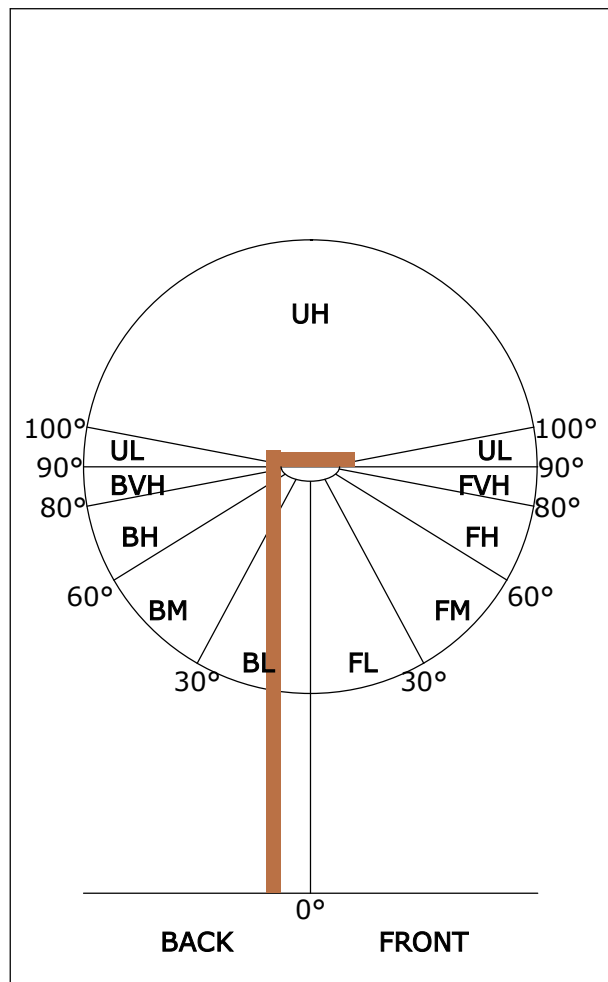
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	16.3	17.0	16.5	17.2	17.4	15.9	16.6	16.1	16.8	17.0
3H	16.1	16.8	16.4	17.1	17.3	15.8	16.4	16.0	16.7	16.9
4H	16.1	16.7	16.4	17.0	17.2	15.7	16.3	16.0	16.6	16.8
6H	16.0	16.6	16.3	16.9	17.2	15.6	16.2	15.9	16.5	16.8
8H	16.0	16.5	16.3	16.8	17.1	15.6	16.1	15.9	16.4	16.7
12H	15.9	16.5	16.3	16.8	17.1	15.5	16.1	15.9	16.4	16.7
X=4H Y=2H	16.1	16.7	16.4	17.0	17.2	15.7	16.3	16.0	16.6	16.8
3H	15.9	16.5	16.3	16.8	17.1	15.5	16.1	15.9	16.4	16.7
4H	15.8	16.3	16.2	16.7	17.0	15.4	15.9	15.8	16.3	16.6
6H	15.8	16.2	16.2	16.5	16.9	15.4	15.8	15.8	16.2	16.5
8H	15.7	16.1	16.1	16.5	16.9	15.3	15.7	15.7	16.1	16.5
12H	15.7	16.0	16.1	16.4	16.8	15.3	15.6	15.7	16.0	16.5
X=8H Y=4H	15.7	16.1	16.1	16.5	16.9	15.3	15.7	15.7	16.1	16.5
6H	15.6	15.9	16.1	16.4	16.8	15.2	15.5	15.7	16.0	16.4
8H	15.6	15.8	16.0	16.3	16.8	15.2	15.4	15.6	15.9	16.4
12H	15.5	15.8	16.0	16.2	16.7	15.1	15.4	15.6	15.8	16.3
X=12H Y=4H	15.7	16.0	16.1	16.4	16.8	15.3	15.6	15.7	16.0	16.5
6H	15.6	15.8	16.0	16.3	16.8	15.2	15.4	15.6	15.9	16.4
8H	15.5	15.8	16.0	16.2	16.7	15.1	15.4	15.6	15.8	16.3
Variations with the observer position at spacings:										
S=1.0H	+5.5/-40.8					+5.5/-43.6				
S=1.5H	+8.3/-1.\$					+8.3/-1.\$				
S=2.0H	+10.3/-1.\$					+10.3/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 2691lm ($8\log(F/F_0) = 3.4$).

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: 2.905 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1346	50.0
FL (0°-30°)	1132	42.1
FM (30°-60°)	213	7.9
FH (60°-80°)	0	0.0
FVH (80°-90°)	0	0.0
BACK LIGHT	1345	50.0
BL (0°-30°)	1156	43.0
BM (30°-60°)	189	7.0
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)	B3 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 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: 2.905 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	5086.0	4.9	4.9	0.18	0.18
1.0-2.0	5077.3	14.6	19.4	0.54	0.72
2.0-3.0	5058.0	24.2	43.6	0.90	1.62
3.0-4.0	5026.4	33.6	77.3	1.25	2.87
4.0-5.0	4984.9	42.9	120.2	1.59	4.47
5.0-6.0	4931.9	51.8	172.0	1.93	6.39
6.0-7.0	4865.2	60.4	232.4	2.24	8.64
7.0-8.0	4783.4	68.5	300.9	2.54	11.18
8.0-9.0	4687.2	76.0	376.9	2.82	14.00
9.0-10.0	4576.3	82.8	459.7	3.08	17.08
10.0-11.0	4450.6	88.9	548.6	3.31	20.39
11.0-12.0	4308.4	94.2	642.8	3.50	23.89
12.0-13.0	4151.1	98.5	741.3	3.66	27.55
13.0-14.0	3982.6	102.0	843.3	3.79	31.34
14.0-15.0	3803.2	104.4	947.7	3.88	35.22
15.0-16.0	3614.0	105.9	1053.6	3.94	39.15
16.0-17.0	3417.7	106.4	1160.1	3.96	43.11
17.0-18.0	3217.6	106.1	1266.2	3.94	47.05
18.0-19.0	3015.7	104.9	1371.1	3.90	50.95
19.0-20.0	2814.2	103.0	1474.1	3.83	54.78
20.0-21.0	2614.5	100.4	1574.5	3.73	58.51
21.0-22.0	2418.2	97.2	1671.7	3.61	62.12
22.0-23.0	2226.9	93.5	1765.2	3.47	65.60
23.0-24.0	2041.9	89.3	1854.5	3.32	68.91
24.0-25.0	1864.9	84.8	1939.3	3.15	72.07
25.0-26.0	1696.0	80.1	2019.3	2.98	75.04
26.0-27.0	1534.6	75.1	2094.4	2.79	77.83
27.0-28.0	1381.1	69.9	2164.4	2.60	80.43
28.0-29.0	1236.1	64.7	2229.0	2.40	82.83
29.0-30.0	1098.9	59.3	2288.4	2.21	85.04
30.0-31.0	970.4	54.0	2342.4	2.01	87.05
31.0-32.0	851.0	48.8	2391.1	1.81	88.86
32.0-33.0	740.1	43.6	2434.8	1.62	90.48
33.0-34.0	637.9	38.6	2473.4	1.43	91.91
34.0-35.0	544.9	33.8	2507.2	1.26	93.17
35.0-36.0	461.0	29.4	2536.6	1.09	94.26

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: 2.905 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	386.5	25.2	2561.8	0.94	95.20
37.0-38.0	322.3	21.5	2583.3	0.80	96.00
38.0-39.0	268.2	18.3	2601.6	0.68	96.68
39.0-40.0	223.3	15.6	2617.2	0.58	97.26
40.0-41.0	186.8	13.3	2630.5	0.49	97.75
41.0-42.0	155.9	11.3	2641.8	0.42	98.17
42.0-43.0	129.5	9.6	2651.4	0.36	98.53
43.0-44.0	108.8	8.2	2659.6	0.31	98.83
44.0-45.0	90.6	7.0	2666.6	0.26	99.09
45.0-46.0	74.1	5.8	2672.4	0.22	99.31
46.0-47.0	60.4	4.8	2677.2	0.18	99.49
47.0-48.0	48.8	3.9	2681.1	0.15	99.63
48.0-49.0	38.6	3.2	2684.3	0.12	99.75
49.0-50.0	29.1	2.4	2686.7	0.09	99.84
50.0-51.0	20.7	1.8	2688.5	0.07	99.91
51.0-52.0	14.0	1.2	2689.7	0.04	99.95
52.0-53.0	8.4	0.7	2690.4	0.03	99.98
53.0-54.0	4.6	0.4	2690.8	0.01	99.99
54.0-55.0	1.8	0.2	2691.0	0.01	100.00
55.0-56.0	0.0	0.0	2691.0	0.00	100.00
56.0-57.0	0.0	0.0	2691.0	0.00	100.00
57.0-58.0	0.0	0.0	2691.0	0.00	100.00
58.0-59.0	0.0	0.0	2691.0	0.00	100.00
59.0-60.0	0.0	0.0	2691.0	0.00	100.00
60.0-61.0	0.0	0.0	2691.0	0.00	100.00
61.0-62.0	0.0	0.0	2691.0	0.00	100.00
62.0-63.0	0.0	0.0	2691.0	0.00	100.00
63.0-64.0	0.0	0.0	2691.0	0.00	100.00
64.0-65.0	0.0	0.0	2691.0	0.00	100.00
65.0-66.0	0.0	0.0	2691.0	0.00	100.00
66.0-67.0	0.0	0.0	2691.0	0.00	100.00
67.0-68.0	0.0	0.0	2691.0	0.00	100.00
68.0-69.0	0.0	0.0	2691.0	0.00	100.00
69.0-70.0	0.0	0.0	2691.0	0.00	100.00
70.0-71.0	0.0	0.0	2691.0	0.00	100.00
71.0-72.0	0.0	0.0	2691.0	0.00	100.00

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: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	5089.2	5089.2								
G1.0	5055.5	5110.3								
G2.0	5019.0	5124.3								
G3.0	4965.6	5122.9								
G4.0	4908.0	5108.9								
G5.0	4842.0	5080.8								
G6.0	4766.2	5038.6								
G7.0	4682.0	4974.0								
G8.0	4586.5	4891.2								
G9.0	4478.3	4792.9								
G10.0	4357.5	4676.3								
G11.0	4227.0	4541.5								
G12.0	4080.9	4384.2								
G13.0	3926.4	4212.9								
G14.0	3762.1	4028.9								
G15.0	3586.6	3835.1								
G16.0	3404.0	3630.1								
G17.0	3215.9	3420.9								
G18.0	3024.9	3208.8								
G19.0	2839.5	2989.8								
G20.0	2651.3	2776.3								
G21.0	2464.6	2565.7								
G22.0	2282.0	2360.6								
G23.0	2105.1	2159.8								
G24.0	1933.7	1968.8								
G25.0	1773.6	1783.5								
G26.0	1619.2	1607.9								
G27.0	1471.7	1439.4								
G28.0	1332.7	1280.7								
G29.0	1199.3	1131.9								
G30.0	1071.5	992.8								
G31.0	954.9	862.2								
G32.0	844.0	742.9								
G33.0	741.5	631.9								
G34.0	644.6	533.6								
G35.0	554.7	446.6								
G36.0	471.9	370.7								

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: 2.905 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	400.2	303.3								
G38.0	338.4	247.2								
G39.0	282.3	205.0								
G40.0	237.3	168.5								
G41.0	200.8	140.4								
G42.0	168.5	113.8								
G43.0	141.8	94.1								
G44.0	120.8	78.6								
G45.0	101.1	61.8								
G46.0	82.8	50.5								
G47.0	68.8	39.3								
G48.0	56.2	30.9								
G49.0	44.9	22.5								
G50.0	33.7	15.4								
G51.0	23.9	9.8								
G52.0	18.3	4.2								
G53.0	11.2	0.0								
G54.0	7.0	0.0								
G55.0	0.0	0.0								
G56.0	0.0	0.0								
G57.0	0.0	0.0								
G58.0	0.0	0.0								
G59.0	0.0	0.0								
G60.0	0.0	0.0								
G61.0	0.0	0.0								
G62.0	0.0	0.0								
G63.0	0.0	0.0								
G64.0	0.0	0.0								
G65.0	0.0	0.0								
G66.0	0.0	0.0								
G67.0	0.0	0.0								
G68.0	0.0	0.0								
G69.0	0.0	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:

Test Type: TYPE C

Temperature:

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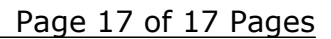
Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:



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