

Report No.:

Test Time: 2025-10-10 20:44

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Width (mm): -15

Current: 0.127 A

Power Factor: 0.964

Luminous Length (mm): -815

Voltage: 232.5 V

Power: 28.40 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2422.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H24.6

Vertical Diffuse Angle(50%): V24.6

Luminaire Efficacy Rating (LER): 85.36

Max. Intensity: 12673.84 cd

S/MH(C0/C180): 0.42

Total Rated Lamp Lumens: 2422.8 lm

Efficiency: 100%

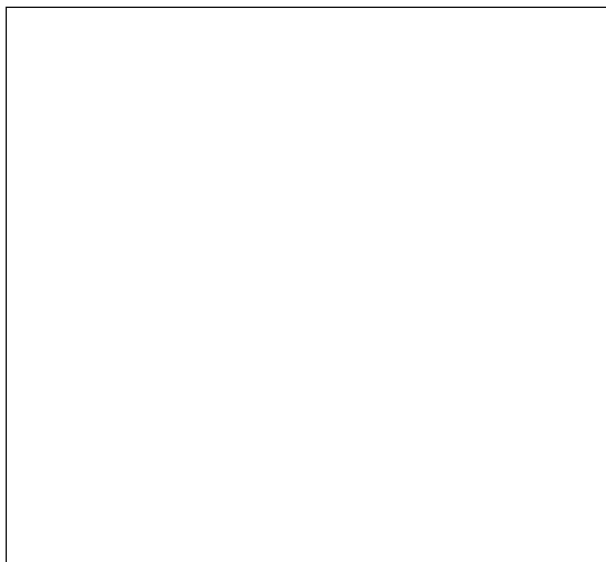
Upward Ratio: 0%

Central Intensity: 12673.84 cd

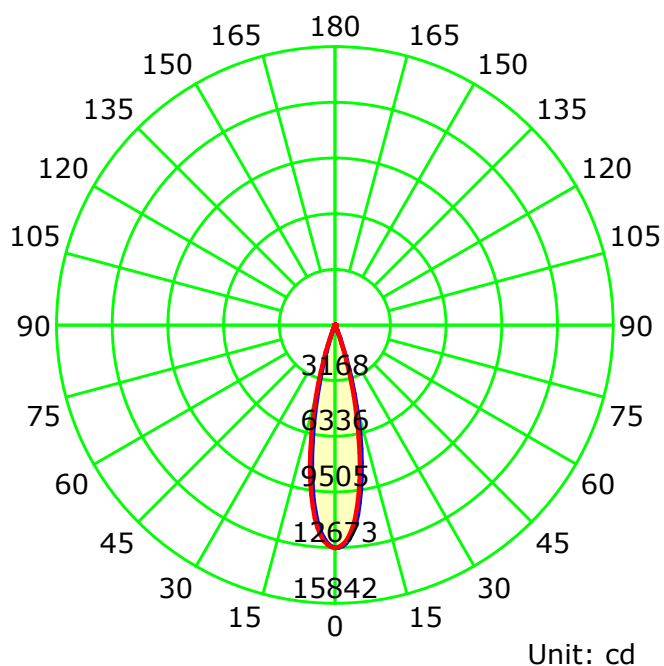
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.42

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

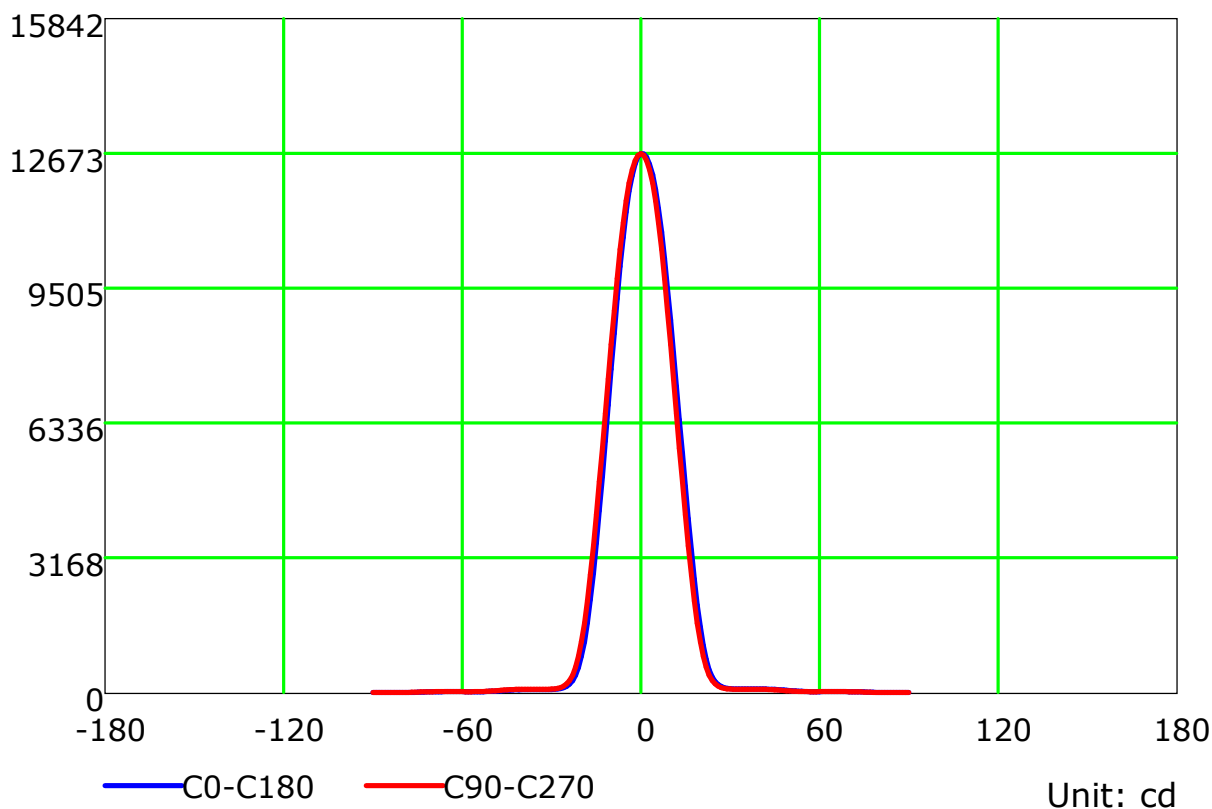
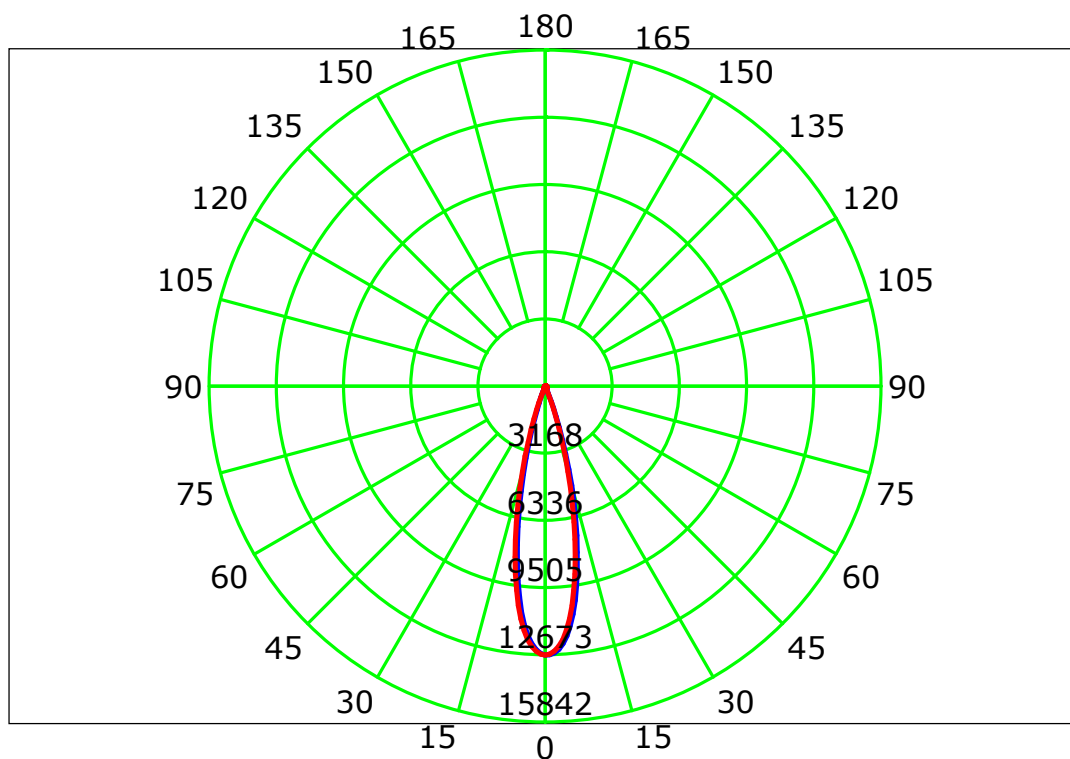
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

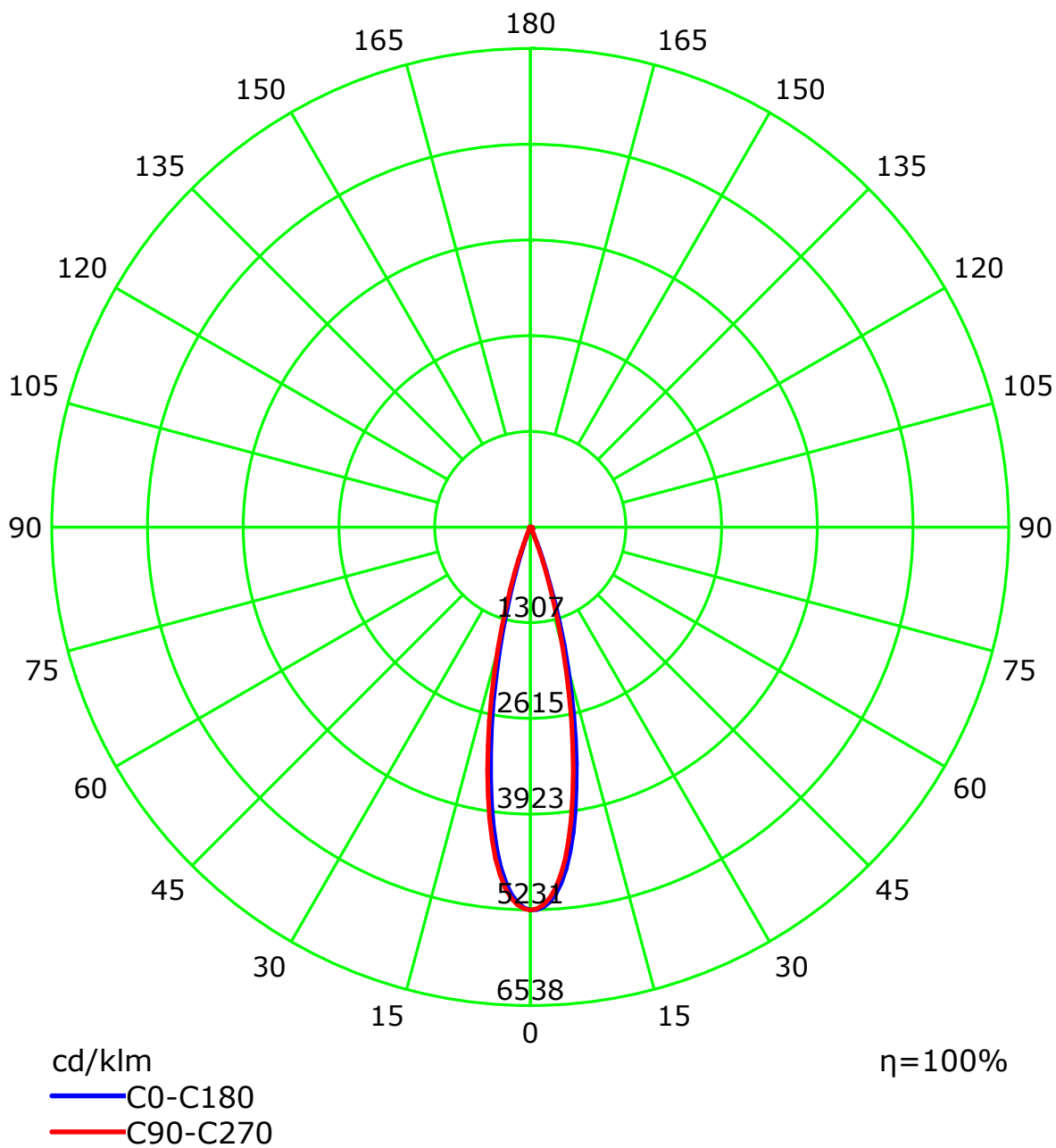
Luminous Intensity Distribution Curve



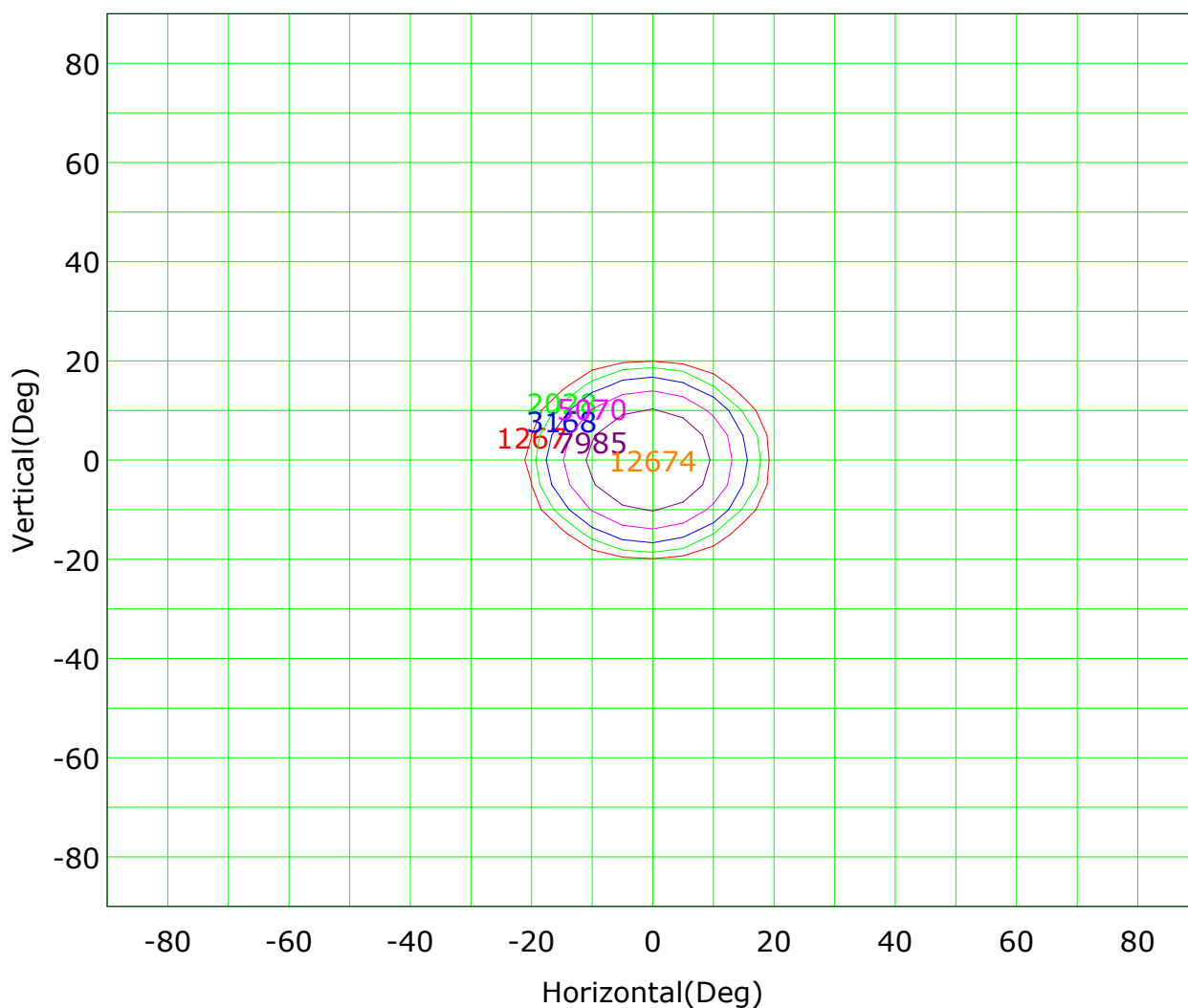
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



Isocandela (rectangle)



Imax (100%): 12674 cd

(10%): 1267 cd	(16%): 2028 cd
(25%): 3168 cd	(40%): 5070 cd
(63%): 7985 cd	(100%): 12674 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

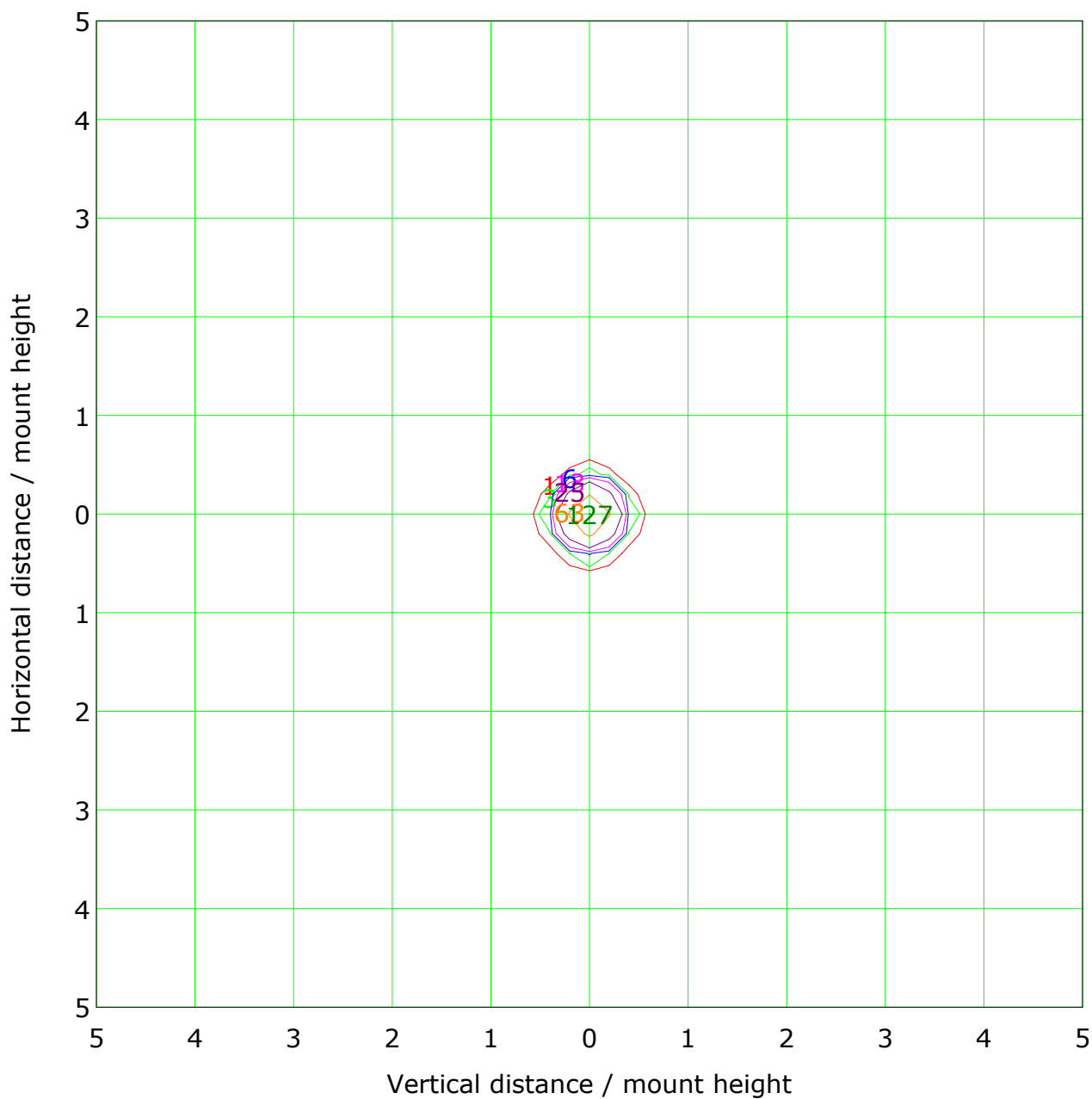
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 126.7 lx

(1%): 1.3 lx	(2%): 2.5 lx
(5%): 6.3 lx	(10%): 12.7 lx
(20%): 25.3 lx	(50%): 63.4 lx
(100%): 126.7 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

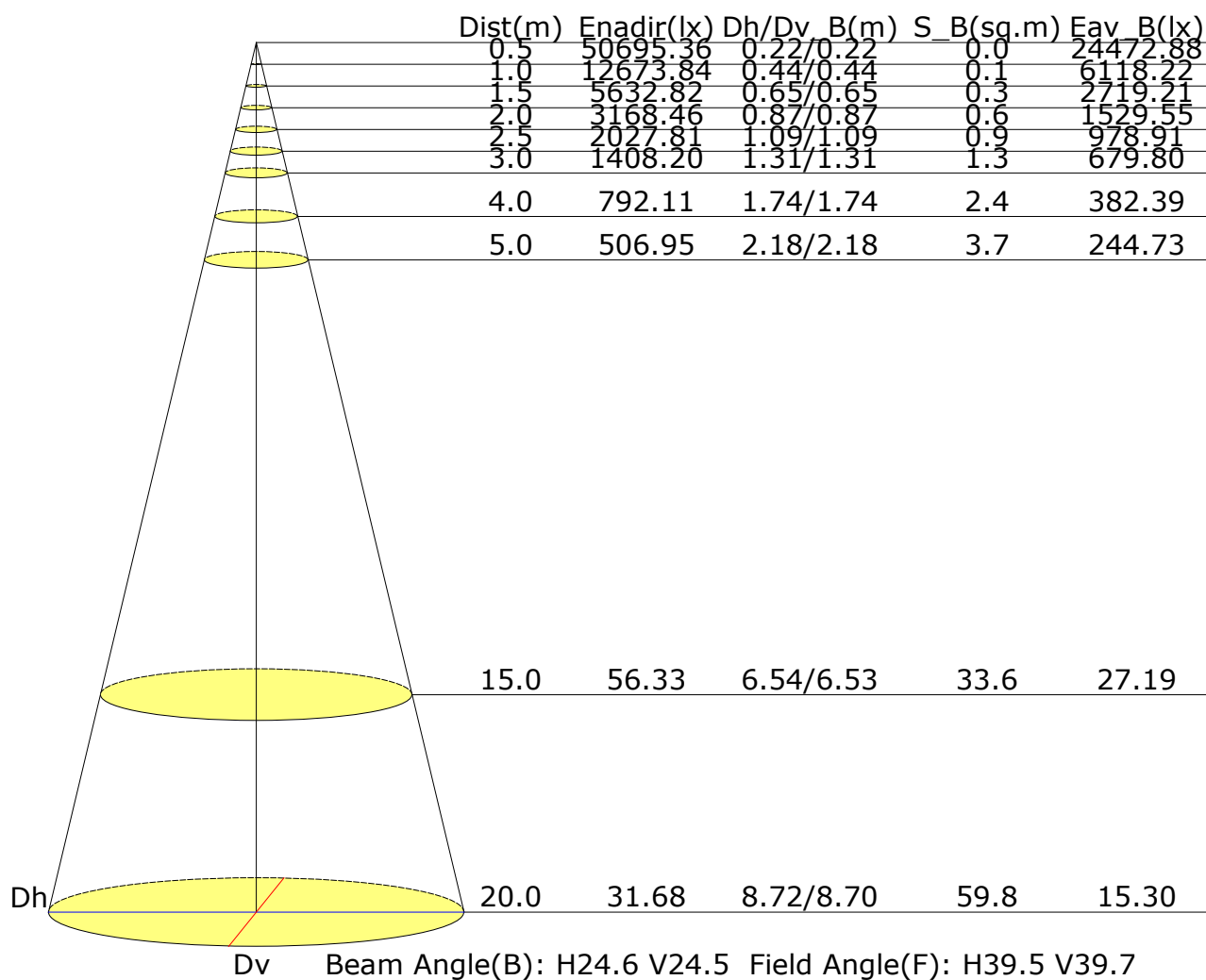
Test Device: CHL-6E

Distance: 2.905 m

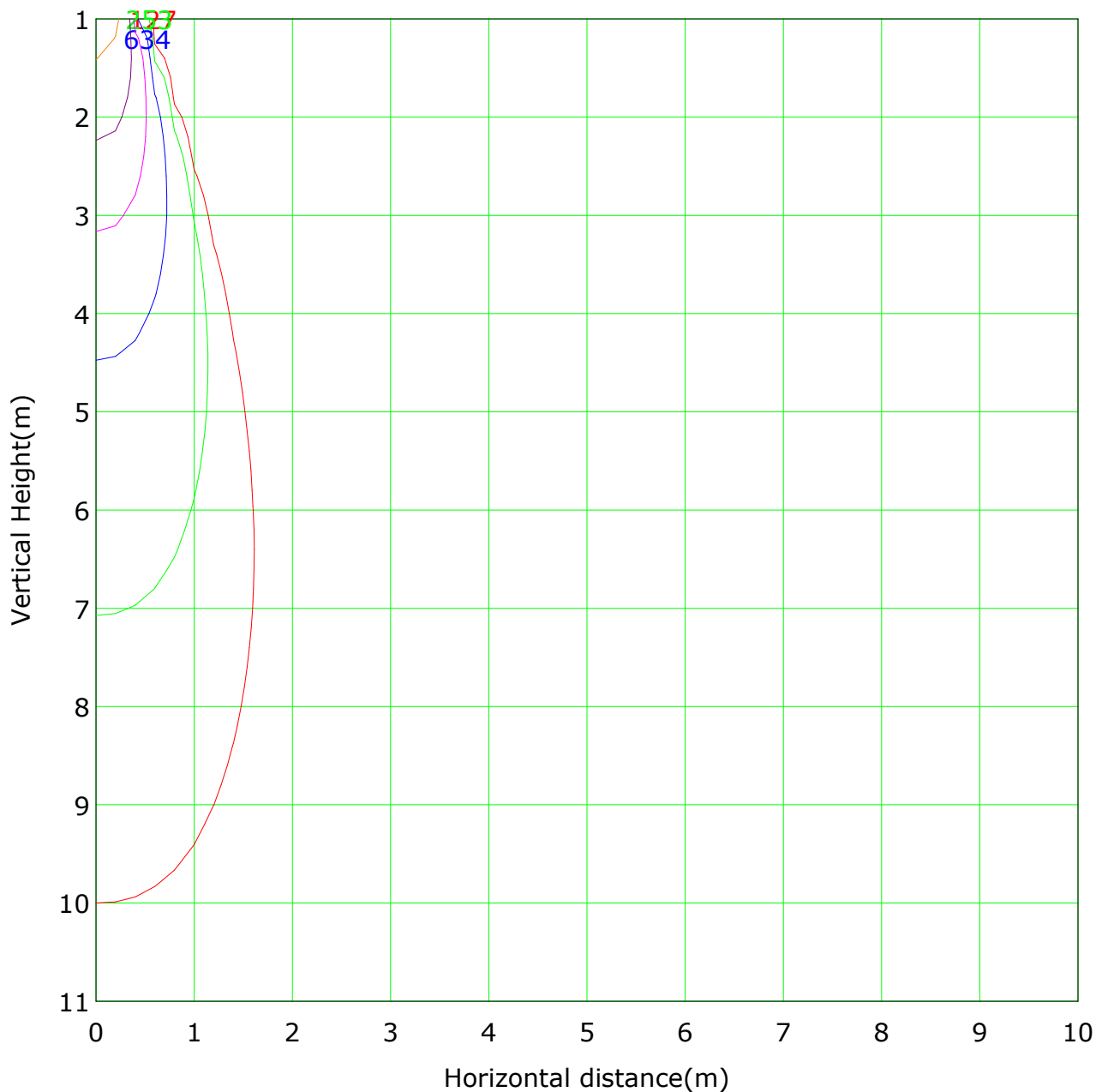
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



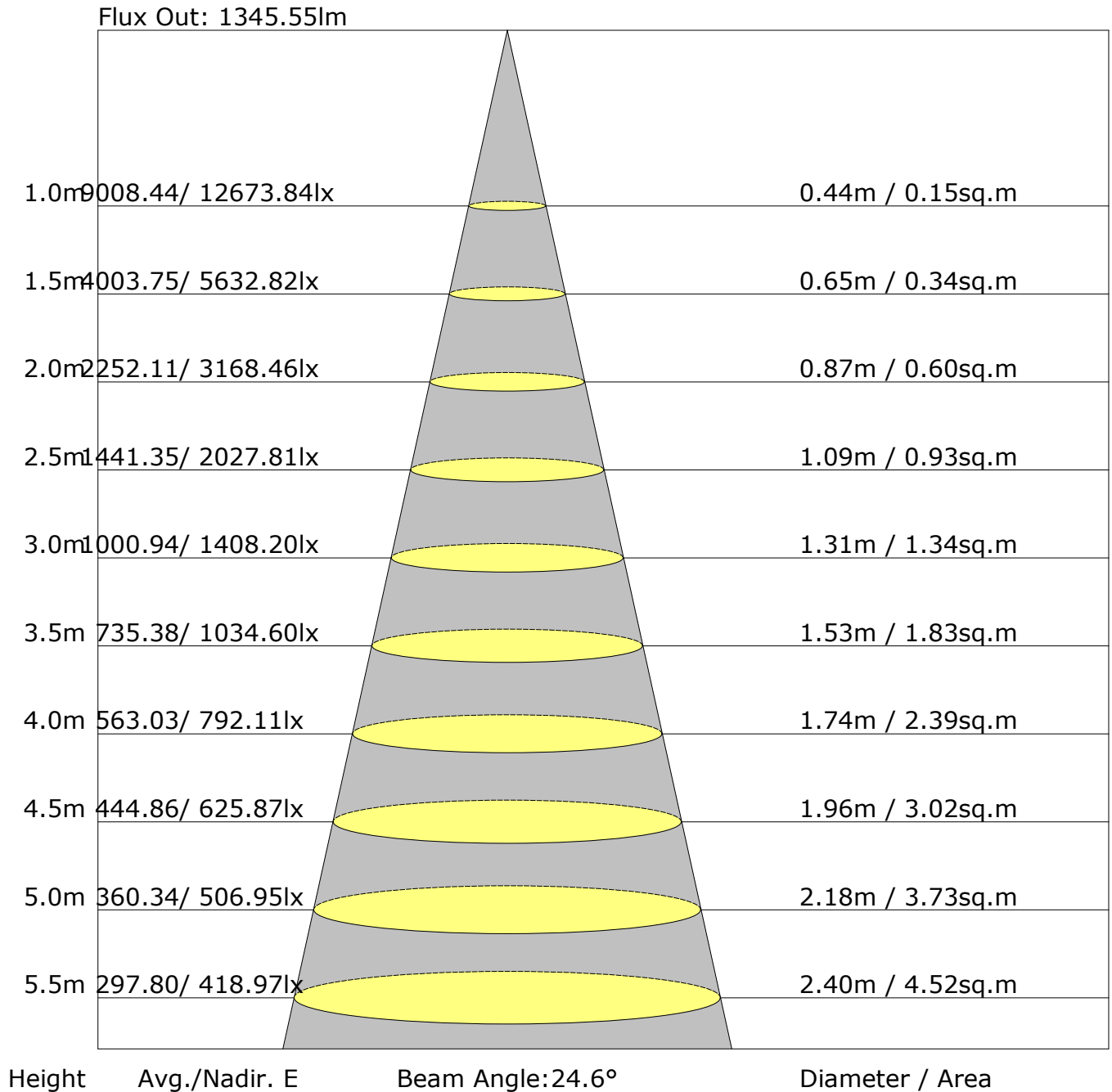
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 12673.8 lx
— (1%): 126.7 lx — (2%): 253.5 lx
— (5%): 633.7 lx — (10%): 1267.4 lx
— (20%): 2534.8 lx — (50%): 6336.9 lx
— (100%): 12673.8 lx

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: 2.905 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 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	11.0	11.5	11.2	11.7	11.9	10.6	11.2	10.9	11.4	11.6
3H	12.9	13.5	13.2	13.7	13.9	12.6	13.1	12.9	13.4	13.6
4H	13.8	14.3	14.1	14.5	14.8	13.2	13.8	13.5	14.0	14.3
6H	14.0	14.4	14.3	14.7	15.0	13.3	13.8	13.6	14.1	14.4
8H	13.9	14.4	14.3	14.7	15.0	13.3	13.8	13.6	14.0	14.3
12H	13.9	14.3	14.2	14.6	14.9	13.2	13.7	13.6	14.0	14.3
X=4H Y=2H	11.6	12.1	11.9	12.4	12.6	11.4	11.9	11.6	12.1	12.4
3H	13.9	14.3	14.2	14.6	14.9	13.6	14.0	13.9	14.3	14.6
4H	14.7	15.1	15.1	15.5	15.8	14.3	14.7	14.6	15.0	15.4
6H	14.9	15.3	15.3	15.7	16.1	14.4	14.7	14.8	15.1	15.5
8H	14.9	15.2	15.3	15.6	16.0	14.3	14.6	14.7	15.0	15.4
12H	14.8	15.1	15.3	15.5	16.0	14.3	14.6	14.7	15.0	15.4
X=8H Y=4H	14.9	15.3	15.4	15.7	16.1	14.5	14.8	14.9	15.2	15.6
6H	15.1	15.4	15.6	15.8	16.3	14.6	14.9	15.0	15.3	15.7
8H	15.1	15.3	15.5	15.8	16.2	14.5	14.8	15.0	15.2	15.7
12H	15.0	15.2	15.5	15.7	16.2	14.5	14.7	15.0	15.2	15.7
X=12H Y=4H	14.9	15.2	15.3	15.6	16.0	14.5	14.8	14.9	15.2	15.6
6H	15.1	15.3	15.6	15.8	16.2	14.6	14.8	15.0	15.2	15.7
8H	15.0	15.2	15.5	15.7	16.2	14.5	14.7	15.0	15.2	15.7
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.4					+0.5/-0.4				
S=1.5H	+0.7/-0.6					+0.8/-0.6				
S=2.0H	+1.4/-1.0					+1.4/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2423lm ($8\log(F/F_0) = 3.1$).

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	1276	52.7
	FL (0°-30°)	1191	49.2
	FM (30°-60°)	65	2.7
	FH (60°-80°)	20	0.8
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1147	47.3
	BL (0°-30°)	1071	44.2
	BM (30°-60°)	58	2.4
	BH (60°-80°)	18	0.7
	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	12653.5	12.1	12.1	0.50	0.50
1.0-2.0	12570.6	36.1	48.2	1.49	1.99
2.0-3.0	12400.7	59.3	107.5	2.45	4.44
3.0-4.0	12136.3	81.2	188.8	3.35	7.79
4.0-5.0	11771.6	101.3	290.0	4.18	11.97
5.0-6.0	11303.6	118.8	408.8	4.90	16.87
6.0-7.0	10733.4	133.2	542.1	5.50	22.37
7.0-8.0	10078.0	144.3	686.3	5.95	28.33
8.0-9.0	9354.4	151.6	838.0	6.26	34.59
9.0-10.0	8579.2	155.3	993.2	6.41	41.00
10.0-11.0	7776.3	155.4	1148.6	6.41	47.41
11.0-12.0	6963.6	152.2	1300.9	6.28	53.69
12.0-13.0	6152.3	146.0	1446.9	6.03	59.72
13.0-14.0	5350.4	137.0	1583.9	5.65	65.37
14.0-15.0	4567.5	125.4	1709.3	5.18	70.55
15.0-16.0	3816.2	111.8	1821.1	4.62	75.17
16.0-17.0	3108.1	96.8	1917.9	4.00	79.16
17.0-18.0	2460.7	81.1	1999.1	3.35	82.51
18.0-19.0	1892.3	65.8	2064.9	2.72	85.23
19.0-20.0	1412.0	51.7	2116.6	2.13	87.36
20.0-21.0	1024.1	39.3	2155.9	1.62	88.99
21.0-22.0	724.6	29.1	2185.1	1.20	90.19
22.0-23.0	503.4	21.1	2206.2	0.87	91.06
23.0-24.0	347.9	15.2	2221.4	0.63	91.69
24.0-25.0	244.7	11.1	2232.5	0.46	92.15
25.0-26.0	178.3	8.4	2240.9	0.35	92.49
26.0-27.0	136.2	6.7	2247.6	0.28	92.77
27.0-28.0	109.5	5.5	2253.2	0.23	93.00
28.0-29.0	94.4	4.9	2258.1	0.20	93.20
29.0-30.0	86.7	4.7	2262.8	0.19	93.40
30.0-31.0	82.2	4.6	2267.4	0.19	93.58
31.0-32.0	79.3	4.5	2271.9	0.19	93.77
32.0-33.0	77.9	4.6	2276.5	0.19	93.96
33.0-34.0	77.9	4.7	2281.2	0.19	94.16
34.0-35.0	78.3	4.9	2286.1	0.20	94.36
35.0-36.0	78.6	5.0	2291.1	0.21	94.56

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	78.3	5.1	2296.2	0.21	94.77
37.0-38.0	78.6	5.2	2301.4	0.22	94.99
38.0-39.0	79.0	5.4	2306.8	0.22	95.21
39.0-40.0	77.9	5.4	2312.3	0.22	95.44
40.0-41.0	76.5	5.5	2317.7	0.22	95.66
41.0-42.0	75.8	5.5	2323.2	0.23	95.89
42.0-43.0	74.1	5.5	2328.7	0.23	96.12
43.0-44.0	70.6	5.3	2334.0	0.22	96.34
44.0-45.0	67.8	5.2	2339.3	0.21	96.55
45.0-46.0	63.9	5.0	2344.3	0.21	96.76
46.0-47.0	58.6	4.7	2348.9	0.19	96.95
47.0-48.0	53.7	4.3	2353.3	0.18	97.13
48.0-49.0	48.1	4.0	2357.2	0.16	97.29
49.0-50.0	43.5	3.6	2360.8	0.15	97.44
50.0-51.0	39.7	3.4	2364.2	0.14	97.58
51.0-52.0	35.5	3.0	2367.2	0.13	97.71
52.0-53.0	30.9	2.7	2369.9	0.11	97.82
53.0-54.0	27.7	2.4	2372.4	0.10	97.92
54.0-55.0	26.0	2.3	2374.7	0.10	98.01
55.0-56.0	23.9	2.2	2376.8	0.09	98.10
56.0-57.0	22.8	2.1	2378.9	0.09	98.19
57.0-58.0	22.5	2.1	2381.0	0.09	98.28
58.0-59.0	22.5	2.1	2383.1	0.09	98.36
59.0-60.0	23.2	2.2	2385.3	0.09	98.45
60.0-61.0	24.6	2.3	2387.6	0.10	98.55
61.0-62.0	25.3	2.4	2390.1	0.10	98.65
62.0-63.0	25.3	2.5	2392.5	0.10	98.75
63.0-64.0	26.0	2.5	2395.1	0.11	98.86
64.0-65.0	26.3	2.6	2397.7	0.11	98.96
65.0-66.0	25.6	2.6	2400.3	0.11	99.07
66.0-67.0	24.9	2.5	2402.8	0.10	99.17
67.0-68.0	23.9	2.4	2405.2	0.10	99.27
68.0-69.0	23.5	2.4	2407.6	0.10	99.37
69.0-70.0	22.8	2.3	2409.9	0.10	99.47
70.0-71.0	21.1	2.2	2412.1	0.09	99.56
71.0-72.0	19.7	2.0	2414.1	0.08	99.64

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: 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	12673.8	12673.8								
G1.0	12665.4	12600.8								
G2.0	12586.8	12429.5								
G3.0	12425.3	12161.3								
G4.0	12171.1	11787.7								
G5.0	11825.6	11301.8								
G6.0	11377.7	10709.2								
G7.0	10828.6	10018.3								
G8.0	10202.3	9262.8								
G9.0	9502.9	8449.7								
G10.0	8757.2	7607.1								
G11.0	7980.7	6760.3								
G12.0	7195.6	5917.7								
G13.0	6414.9	5080.8								
G14.0	5625.6	4280.3								
G15.0	4847.7	3516.4								
G16.0	4089.3	2811.4								
G17.0	3347.9	2183.7								
G18.0	2666.8	1644.4								
G19.0	2061.5	1196.5								
G20.0	1539.1	851.0								
G21.0	1112.2	594.0								
G22.0	783.6	408.6								
G23.0	536.4	285.1								
G24.0	367.9	202.2								
G25.0	259.8	148.9								
G26.0	189.6	115.2								
G27.0	143.2	96.9								
G28.0	115.2	82.8								
G29.0	101.1	78.6								
G30.0	94.1	73.0								
G31.0	87.1	74.4								
G32.0	84.3	71.6								
G33.0	84.3	71.6								
G34.0	84.3	71.6								
G35.0	85.7	71.6								
G36.0	85.7	71.6								

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: 2.905 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	85.7	70.2								
G38.0	85.7	73.0								
G39.0	84.3	73.0								
G40.0	84.3	70.2								
G41.0	84.3	67.4								
G42.0	82.8	68.8								
G43.0	80.1	64.6								
G44.0	78.6	59.0								
G45.0	77.2	56.2								
G46.0	71.6	50.5								
G47.0	67.4	44.9								
G48.0	61.8	40.7								
G49.0	54.8	35.1								
G50.0	50.5	33.7								
G51.0	43.5	30.9								
G52.0	39.3	28.1								
G53.0	33.7	22.5								
G54.0	32.3	22.5								
G55.0	28.1	21.1								
G56.0	25.3	21.1								
G57.0	22.5	22.5								
G58.0	22.5	22.5								
G59.0	22.5	22.5								
G60.0	22.5	25.3								
G61.0	25.3	25.3								
G62.0	25.3	25.3								
G63.0	25.3	25.3								
G64.0	28.1	25.3								
G65.0	28.1	23.9								
G66.0	26.7	23.9								
G67.0	26.7	22.5								
G68.0	23.9	22.5								
G69.0	25.3	22.5								
G70.0	22.5	21.1								
G71.0	22.5	18.3								
G72.0	22.5	15.4								
G73.0	21.1	12.6								

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: 2.905 m
Humidity:
Inspector:

Unit: cd

[illegible]

Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector: