

Report No.:

Test Time: 2025-12-10 17:47

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Width (mm): -80

Current: 0.108 A

Power Factor: 0.562

Luminous Length (mm): -80

Voltage: 233.7 V

Power: 14.30 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1392.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H32.3

Vertical Diffuse Angle(50%): V32.3

Luminaire Efficacy Rating (LER): 97.44

Max. Intensity: 4501.42 cd

S/MH(C0/C180): 0.54

Total Rated Lamp Lumens: 1392.7 lm

Efficiency: 100%

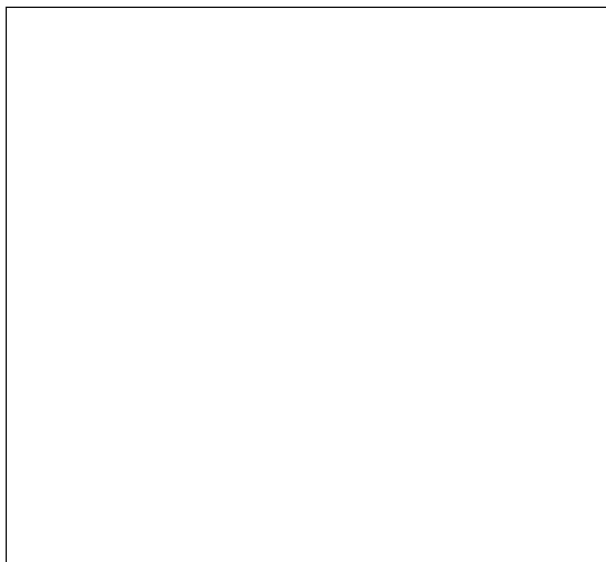
Upward Ratio: 0%

Central Intensity: 4501.42 cd

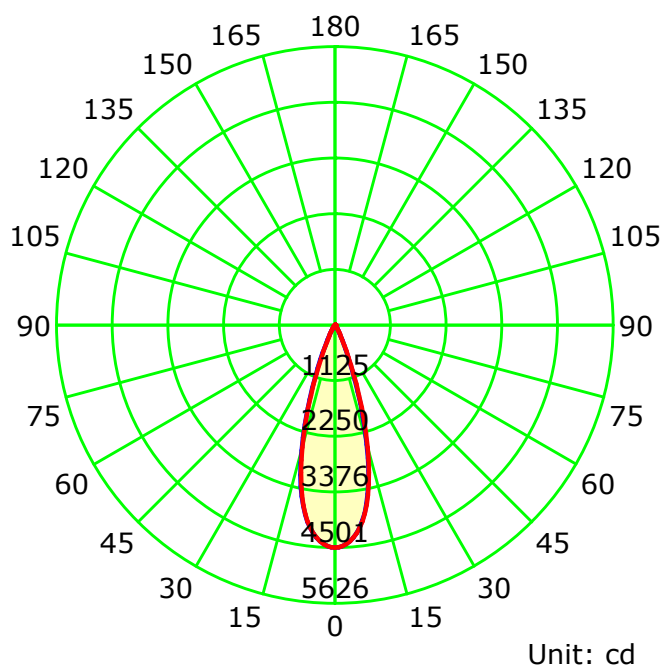
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.54

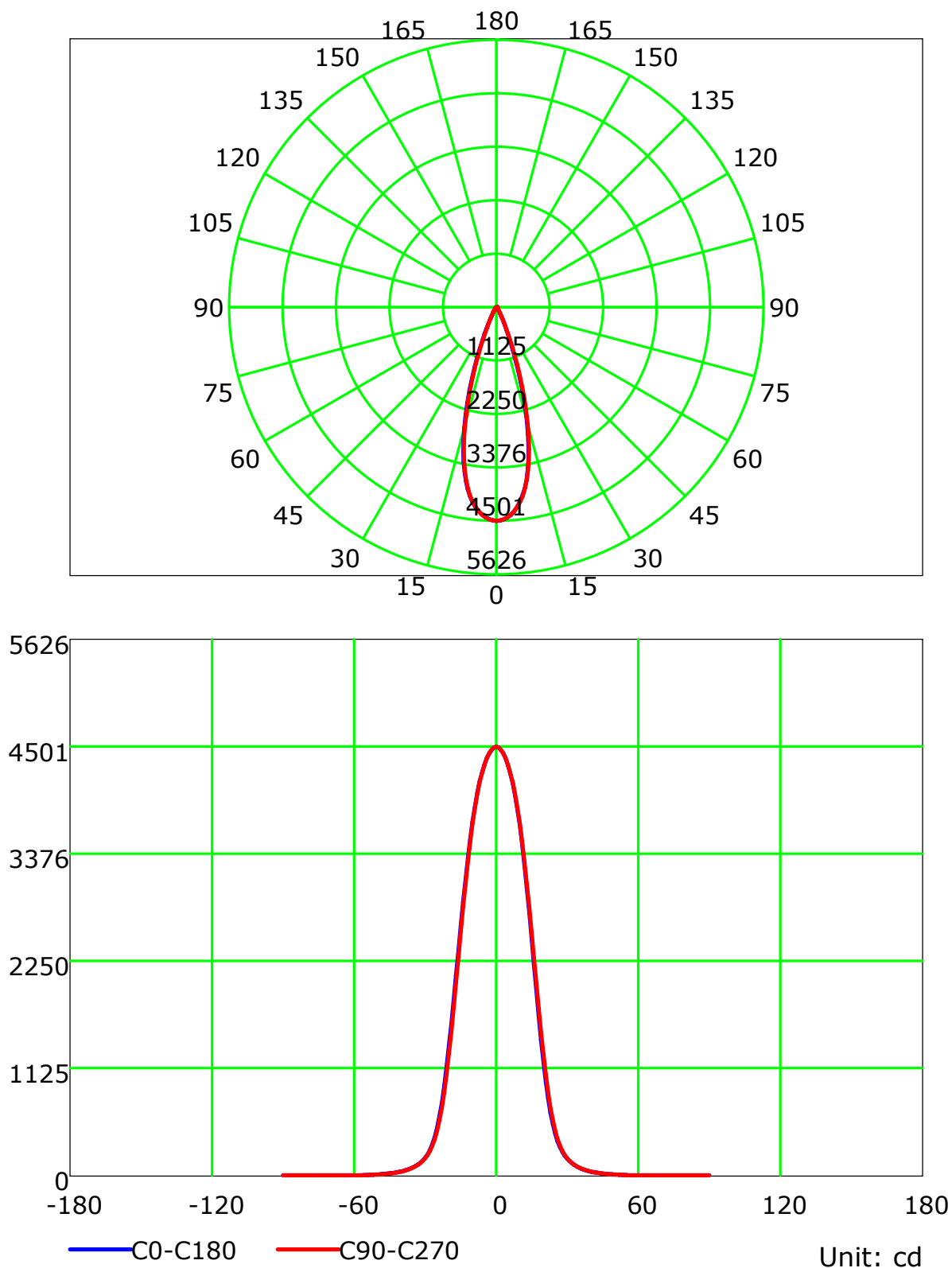
Picture Of Luminaire



Luminous Intensity Distribution Curve



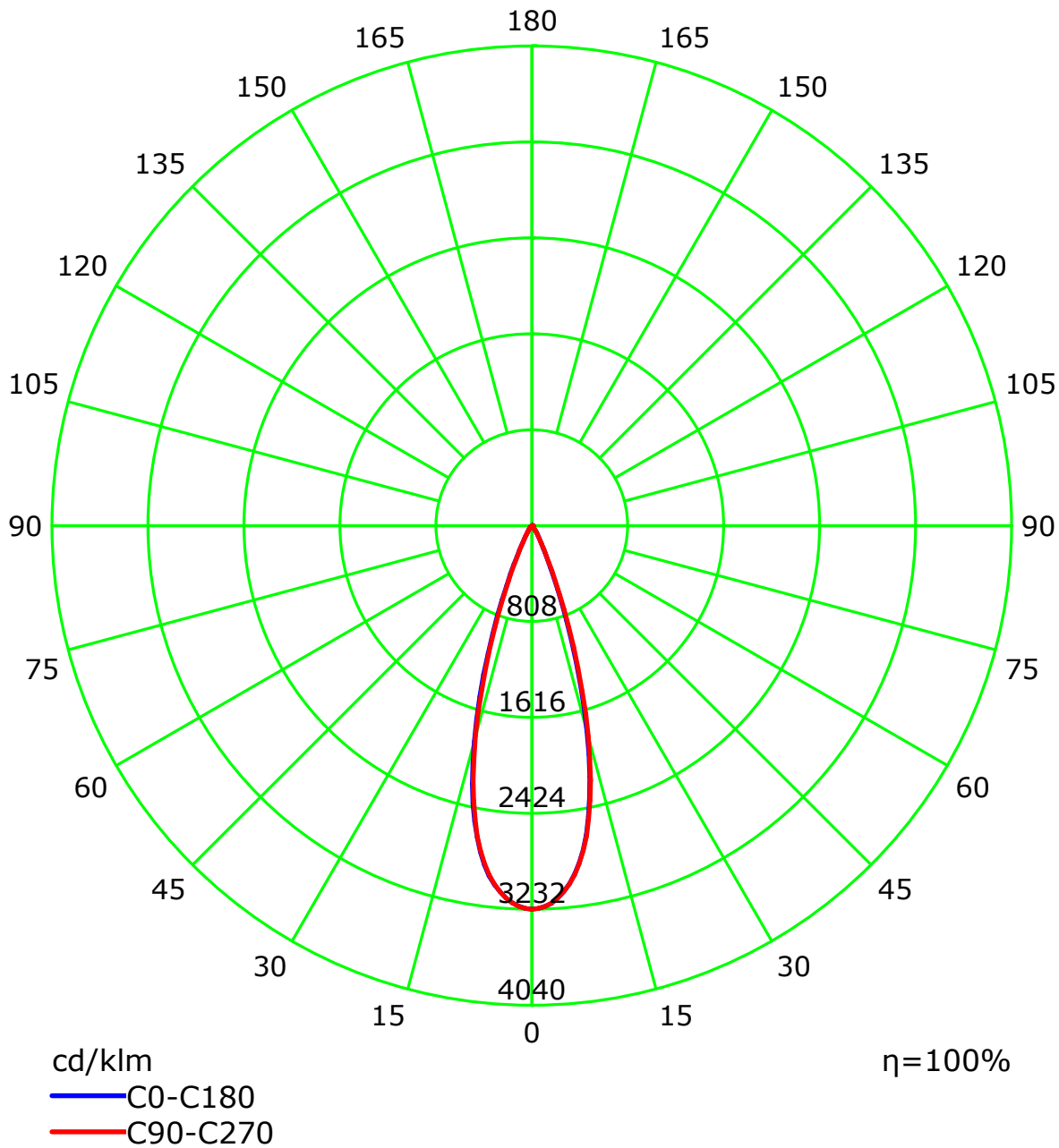
Luminous Intensity Distribution Curve



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: 3.030 m
Humidity:
Inspector:

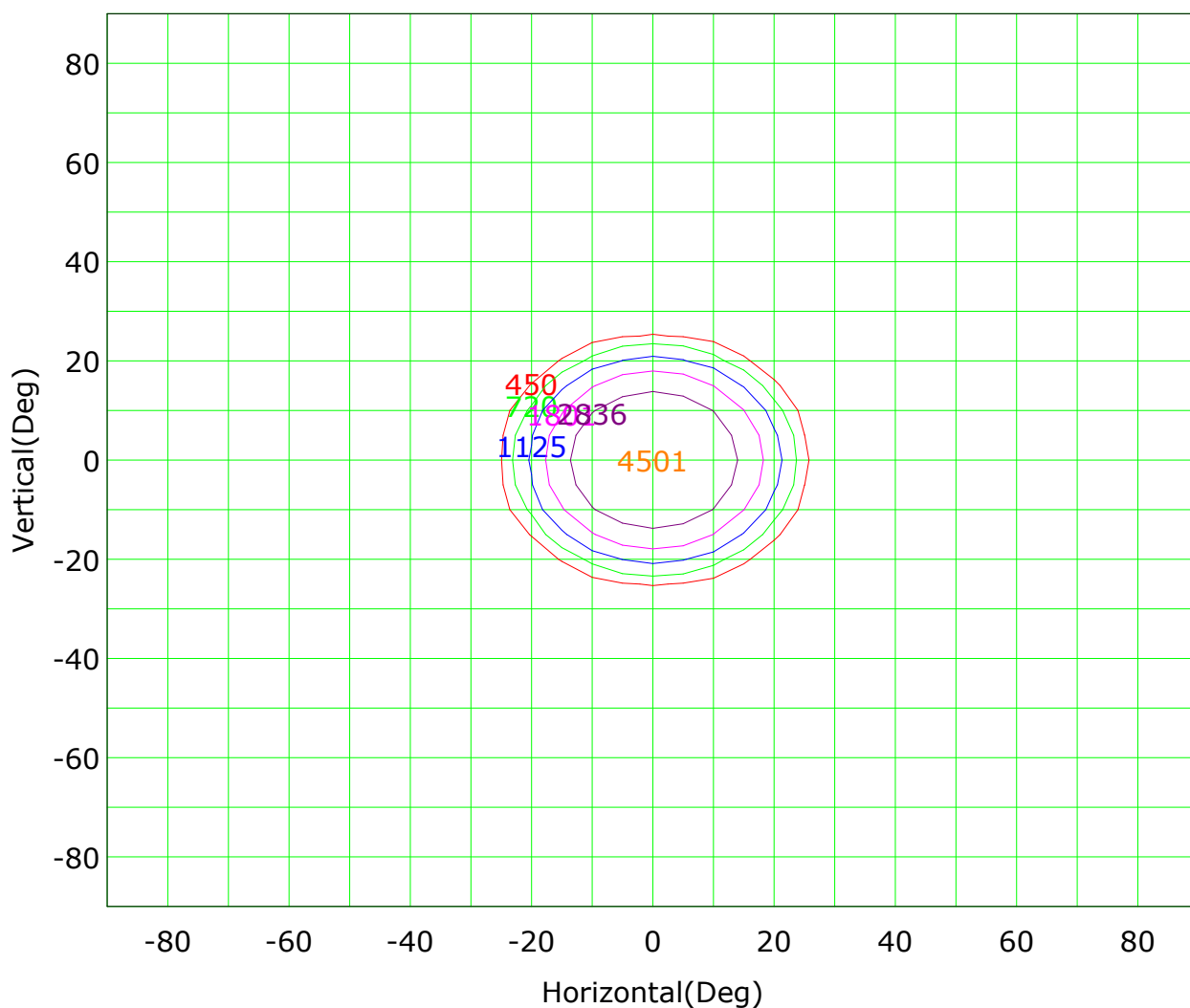
Luminous Intensity Distribution Curve(cd/klm)



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: 3.030 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 4501 cd

(10%): 450 cd	(16%): 720 cd
(25%): 1125 cd	(40%): 1801 cd
(63%): 2836 cd	(100%): 4501 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

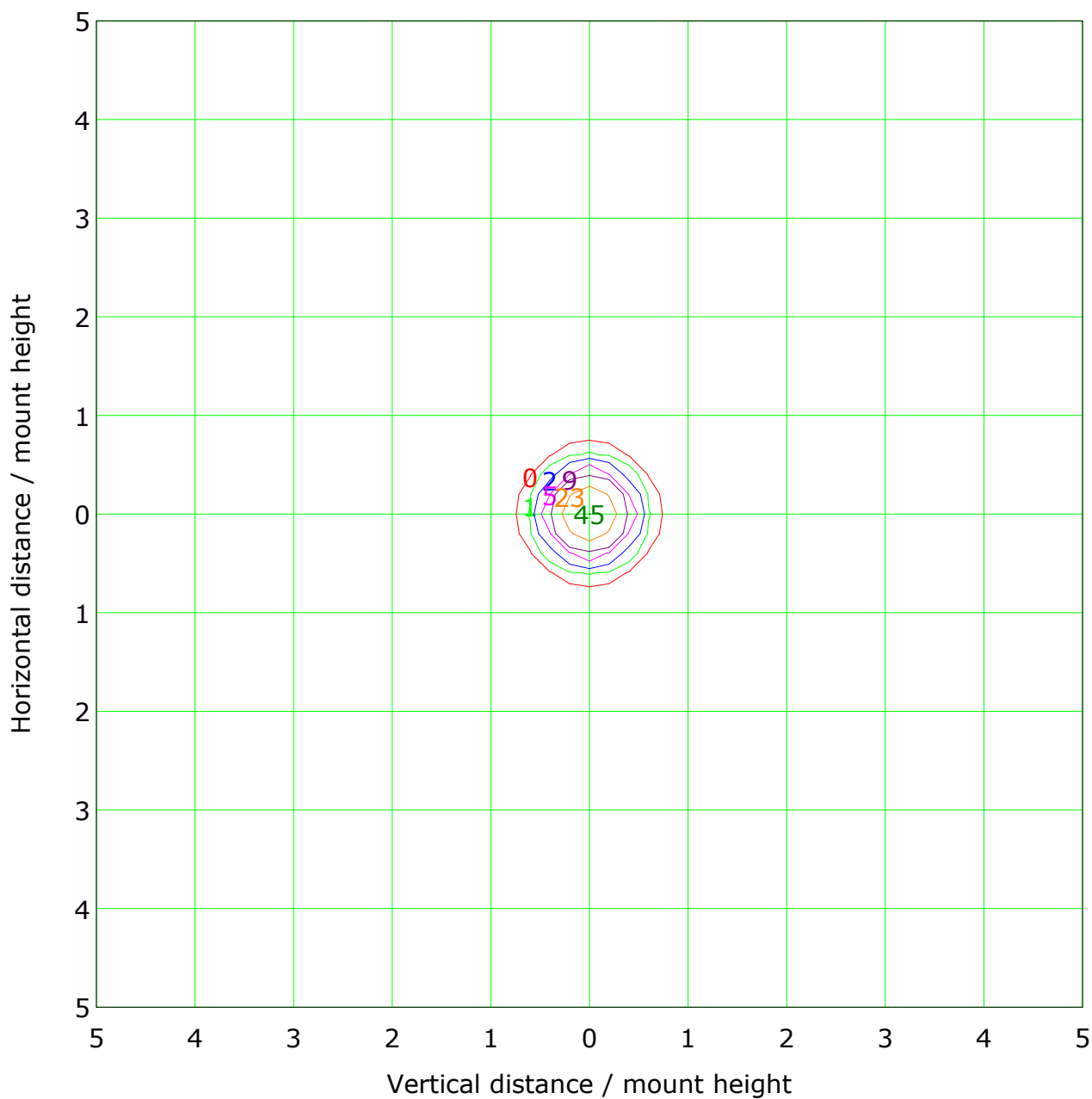
Test Device: CHL-6E

Distance: 3.030 m

Humidity:

Inspector:

IsoLux Plot



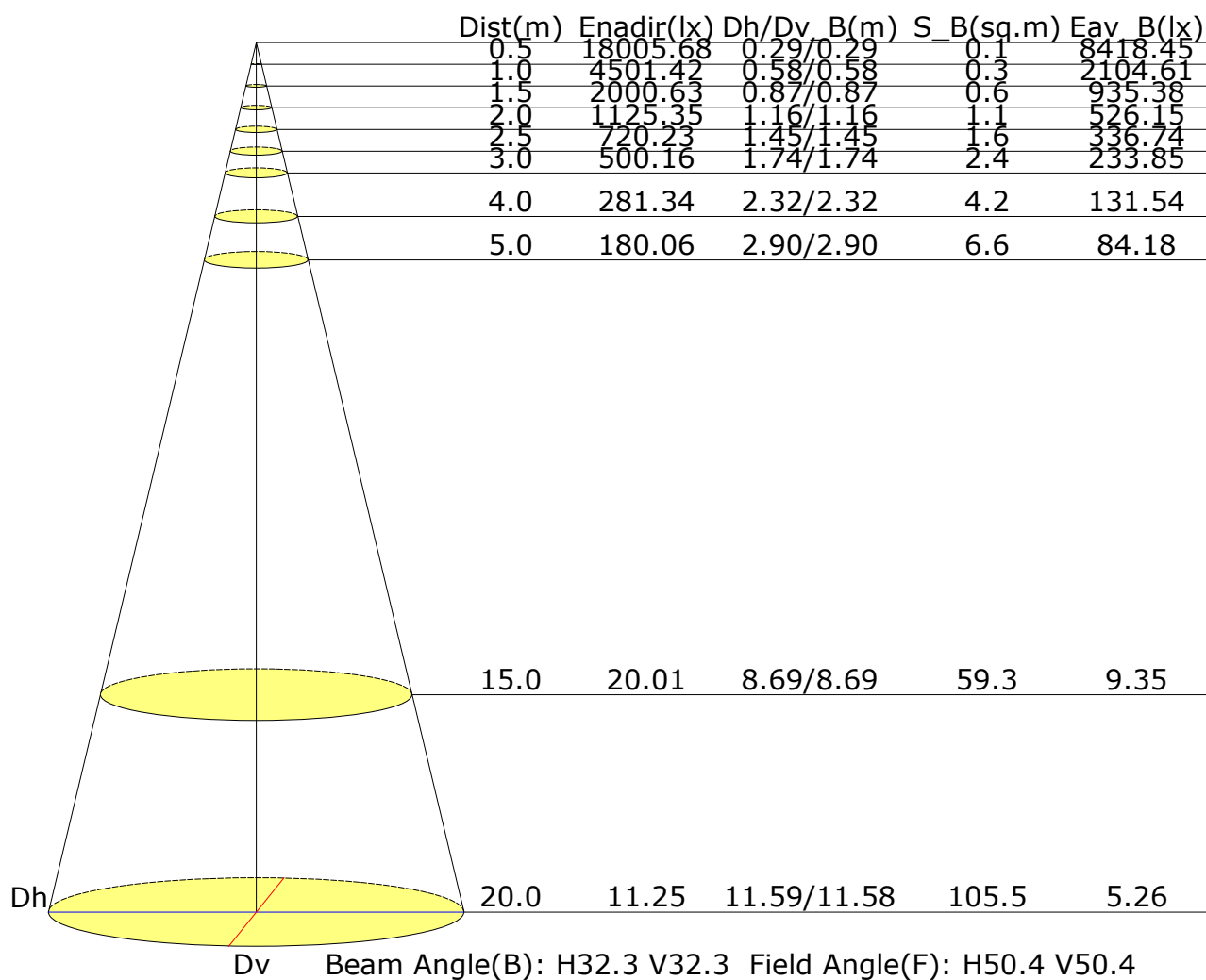
Mounting Height: 10.0m Max Lux(100%): 45.0 lx

— (1%): 0.5 lx	— (2%): 0.9 lx
— (5%): 2.3 lx	— (10%): 4.5 lx
— (20%): 9.0 lx	— (50%): 22.5 lx
— (100%): 45.0 lx	

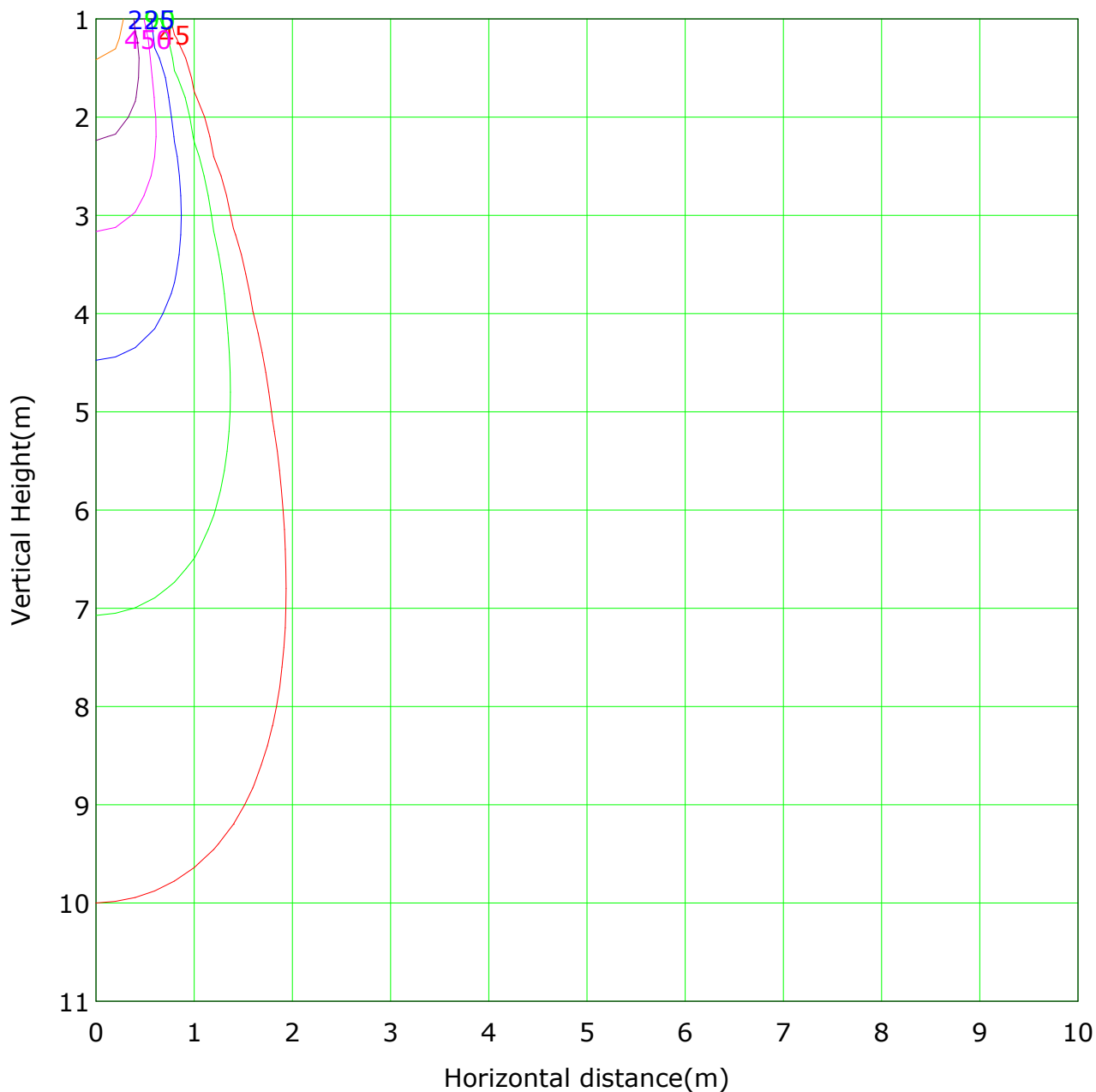
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



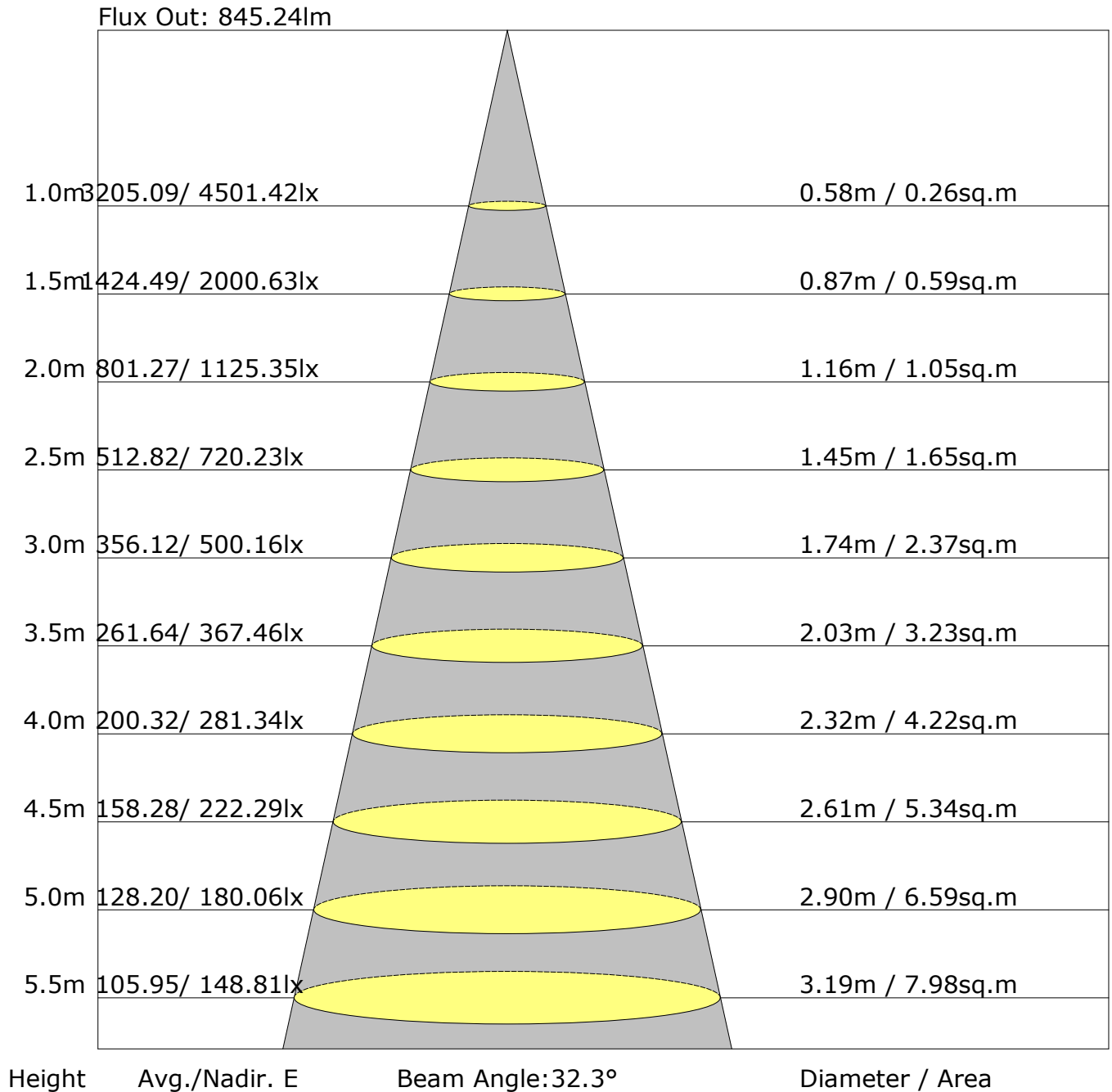
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4501.4 lx
— (1%): 45.0 lx — (2%): 90.0 lx
— (5%): 225.1 lx — (10%): 450.1 lx
— (20%): 900.3 lx — (50%): 2250.7 lx
— (100%): 4501.4 lx

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: 3.030 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 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	8.6	9.2	8.9	9.4	9.6	8.7	9.4	9.0	9.6	9.7
3H	8.5	9.1	8.8	9.3	9.5	8.6	9.2	8.9	9.4	9.6
4H	8.4	8.9	8.7	9.2	9.5	8.5	9.1	8.8	9.3	9.6
6H	8.3	8.8	8.6	9.1	9.4	8.4	8.9	8.8	9.2	9.5
8H	8.3	8.8	8.6	9.1	9.4	8.4	8.9	8.7	9.2	9.5
12H	8.2	8.7	8.6	9.0	9.3	8.4	8.8	8.7	9.1	9.4
X=4H Y=2H	8.4	9.0	8.7	9.2	9.5	8.5	9.1	8.8	9.3	9.6
3H	8.3	8.7	8.6	9.0	9.3	8.4	8.8	8.7	9.1	9.5
4H	8.2	8.6	8.5	8.9	9.3	8.3	8.7	8.7	9.0	9.4
6H	8.1	8.5	8.5	8.8	9.2	8.2	8.6	8.6	8.9	9.3
8H	8.0	8.4	8.5	8.8	9.2	8.2	8.5	8.6	8.9	9.3
12H	8.0	8.3	8.4	8.7	9.1	8.1	8.4	8.5	8.8	9.2
X=8H Y=4H	8.0	8.4	8.5	8.8	9.2	8.2	8.5	8.6	8.9	9.3
6H	7.9	8.2	8.4	8.6	9.1	8.1	8.3	8.5	8.8	9.2
8H	7.9	8.1	8.4	8.6	9.0	8.0	8.2	8.5	8.7	9.2
12H	7.8	8.0	8.3	8.5	9.0	8.0	8.2	8.4	8.6	9.1
X=12H Y=4H	8.0	8.3	8.4	8.7	9.1	8.1	8.4	8.5	8.8	9.2
6H	7.9	8.1	8.4	8.6	9.0	8.0	8.2	8.5	8.7	9.2
8H	7.8	8.0	8.3	8.5	9.0	8.0	8.2	8.4	8.6	9.1
Variations with the observer position at spacings:										
S=1.0H	+4.9/-11.6					+4.9/-11.4				
S=1.5H	+7.7/-1.\$					+7.7/-1.\$				
S=2.0H	+9.7/-1.\$					+9.7/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 1393lm ($8\log(F/F_0) = 1.2$).

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
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Gamma Plane (°):0.0-90.0:1.0
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Distance: 3.030 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	687	49.3
	FL (0°-30°)	649	46.6
	FM (30°-60°)	38	2.7
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	705	50.7
	BL (0°-30°)	666	47.8
	BM (30°-60°)	40	2.8
	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)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 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: 3.030 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	4496.2	4.3	4.3	0.31	0.31
1.0-2.0	4479.3	12.9	17.2	0.92	1.23
2.0-3.0	4450.0	21.3	38.4	1.53	2.76
3.0-4.0	4405.8	29.5	67.9	2.12	4.88
4.0-5.0	4344.7	37.4	105.3	2.68	7.56
5.0-6.0	4269.0	44.9	150.2	3.22	10.78
6.0-7.0	4177.9	51.9	202.1	3.72	14.51
7.0-8.0	4066.7	58.2	260.3	4.18	18.69
8.0-9.0	3934.1	63.8	324.0	4.58	23.27
9.0-10.0	3778.9	68.4	392.4	4.91	28.18
10.0-11.0	3598.8	71.9	464.3	5.16	33.34
11.0-12.0	3398.5	74.3	538.6	5.33	38.68
12.0-13.0	3180.0	75.5	614.1	5.42	44.10
13.0-14.0	2942.2	75.3	689.4	5.41	49.50
14.0-15.0	2688.9	73.8	763.3	5.30	54.80
15.0-16.0	2425.4	71.1	834.4	5.10	59.91
16.0-17.0	2156.2	67.2	901.5	4.82	64.73
17.0-18.0	1889.4	62.3	963.8	4.47	69.20
18.0-19.0	1632.7	56.8	1020.6	4.08	73.28
19.0-20.0	1389.8	50.9	1071.5	3.65	76.93
20.0-21.0	1166.4	44.8	1116.3	3.22	80.15
21.0-22.0	967.3	38.9	1155.2	2.79	82.94
22.0-23.0	792.8	33.3	1188.4	2.39	85.33
23.0-24.0	644.8	28.2	1216.6	2.02	87.36
24.0-25.0	523.3	23.8	1240.4	1.71	89.06
25.0-26.0	425.2	20.1	1260.5	1.44	90.51
26.0-27.0	347.0	17.0	1277.5	1.22	91.73
27.0-28.0	284.8	14.4	1291.9	1.04	92.76
28.0-29.0	235.9	12.3	1304.2	0.89	93.65
29.0-30.0	197.7	10.7	1314.9	0.77	94.41
30.0-31.0	167.7	9.3	1324.3	0.67	95.08
31.0-32.0	143.3	8.2	1332.5	0.59	95.67
32.0-33.0	123.2	7.3	1339.7	0.52	96.19
33.0-34.0	106.4	6.4	1346.2	0.46	96.66
34.0-35.0	91.9	5.7	1351.9	0.41	97.07
35.0-36.0	79.2	5.0	1356.9	0.36	97.43

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Test Device: CHL-6E
Distance: 3.030 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	68.4	4.5	1361.4	0.32	97.75
37.0-38.0	59.3	4.0	1365.3	0.28	98.03
38.0-39.0	51.4	3.5	1368.8	0.25	98.28
39.0-40.0	44.5	3.1	1371.9	0.22	98.51
40.0-41.0	38.7	2.8	1374.7	0.20	98.71
41.0-42.0	33.8	2.5	1377.2	0.18	98.88
42.0-43.0	29.6	2.2	1379.3	0.16	99.04
43.0-44.0	25.9	2.0	1381.3	0.14	99.18
44.0-45.0	22.6	1.7	1383.0	0.12	99.30
45.0-46.0	19.7	1.5	1384.6	0.11	99.41
46.0-47.0	17.0	1.4	1385.9	0.10	99.51
47.0-48.0	14.5	1.2	1387.1	0.08	99.60
48.0-49.0	12.4	1.0	1388.1	0.07	99.67
49.0-50.0	10.9	0.9	1389.0	0.07	99.73
50.0-51.0	9.6	0.8	1389.8	0.06	99.79
51.0-52.0	8.3	0.7	1390.6	0.05	99.84
52.0-53.0	7.0	0.6	1391.2	0.04	99.89
53.0-54.0	5.8	0.5	1391.7	0.04	99.92
54.0-55.0	4.5	0.4	1392.1	0.03	99.95
55.0-56.0	3.1	0.3	1392.3	0.02	99.97
56.0-57.0	1.9	0.2	1392.5	0.01	99.99
57.0-58.0	1.1	0.1	1392.6	0.01	99.99
58.0-59.0	0.8	0.1	1392.7	0.01	100.00
59.0-60.0	0.3	0.0	1392.7	0.00	100.00
60.0-61.0	0.0	0.0	1392.7	0.00	100.00
61.0-62.0	0.0	0.0	1392.7	0.00	100.00
62.0-63.0	0.0	0.0	1392.7	0.00	100.00
63.0-64.0	0.0	0.0	1392.7	0.00	100.00
64.0-65.0	0.0	0.0	1392.7	0.00	100.00
65.0-66.0	0.0	0.0	1392.7	0.00	100.00
66.0-67.0	0.0	0.0	1392.7	0.00	100.00
67.0-68.0	0.0	0.0	1392.7	0.00	100.00
68.0-69.0	0.0	0.0	1392.7	0.00	100.00
69.0-70.0	0.0	0.0	1392.7	0.00	100.00
70.0-71.0	0.0	0.0	1392.7	0.00	100.00
71.0-72.0	0.0	0.0	1392.7	0.00	100.00

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: 3.030 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	4501.4	4501.4								
G1.0	4491.5	4490.5								
G2.0	4468.7	4466.6								
G3.0	4434.8	4430.1								
G4.0	4379.9	4378.6								
G5.0	4309.0	4311.2								
G6.0	4222.2	4233.5								
G7.0	4118.5	4137.5								
G8.0	3992.8	4018.1								
G9.0	3848.3	3877.2								
G10.0	3677.3	3712.9								
G11.0	3476.6	3528.6								
G12.0	3260.1	3328.7								
G13.0	3023.7	3107.6								
G14.0	2767.1	2870.1								
G15.0	2497.7	2620.5								
G16.0	2221.6	2361.7								
G17.0	1943.0	2098.3								
G18.0	1677.7	1838.5								
G19.0	1426.5	1588.2								
G20.0	1189.9	1354.5								
G21.0	984.4	1136.7								
G22.0	810.8	937.3								
G23.0	658.6	764.4								
G24.0	535.5	620.7								
G25.0	436.2	500.9								
G26.0	357.8	406.1								
G27.0	295.6	328.6								
G28.0	247.1	268.1								
G29.0	207.4	221.1								
G30.0	176.2	186.1								
G31.0	150.9	157.5								
G32.0	129.6	135.1								
G33.0	111.4	116.8								
G34.0	96.2	101.2								
G35.0	82.5	87.6								
G36.0	71.1	75.8								

C Plane (°):0.0-180.0: 180.0

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Test Device: CHL-6E

Distance: 3.030 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	61.3	65.6								
G38.0	53.1	57.0								
G39.0	46.0	49.5								
G40.0	39.9	42.8								
G41.0	34.7	37.4								
G42.0	30.4	32.6								
G43.0	26.8	28.6								
G44.0	23.1	25.0								
G45.0	20.2	21.9								
G46.0	17.3	19.3								
G47.0	14.8	16.6								
G48.0	12.2	14.4								
G49.0	10.9	12.2								
G50.0	9.9	10.5								
G51.0	8.7	9.3								
G52.0	7.4	7.9								
G53.0	6.1	6.7								
G54.0	5.0	5.3								
G55.0	3.5	4.0								
G56.0	2.1	2.7								
G57.0	1.2	1.4								
G58.0	1.1	0.8								
G59.0	0.8	0.5								
G60.0	0.0	0.2								
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:
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Temperature:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: