

Report No.:

Test Time: 2025-08-06 18:57

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: SHOWLITE 52.04525 15D

Luminous Length (mm): -42

Voltage: 229.1 V

Power: 3.40 W

Luminous Width (mm): -42

Current: 0.027 A

Power Factor: 0.545

Photometric Results

CIE Class: Direct

Measurement Flux: 261 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H19.8

Vertical Diffuse Angle(50%): V19.8

Luminaire Efficacy Rating (LER): 76.83

Max. Intensity: 1582.43 cd

S/MH(C0/C180): 0.34

Total Rated Lamp Lumens: 261.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1580.78 cd

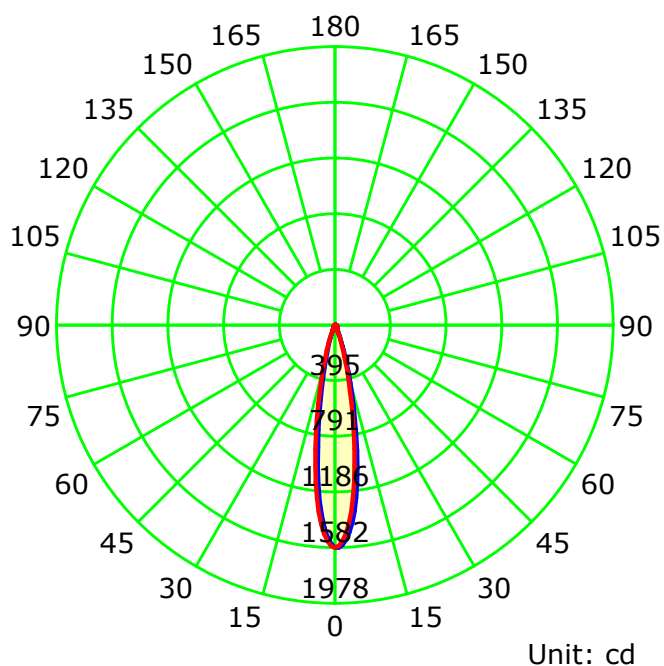
Pos of Max. Intensity: H0 V1

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

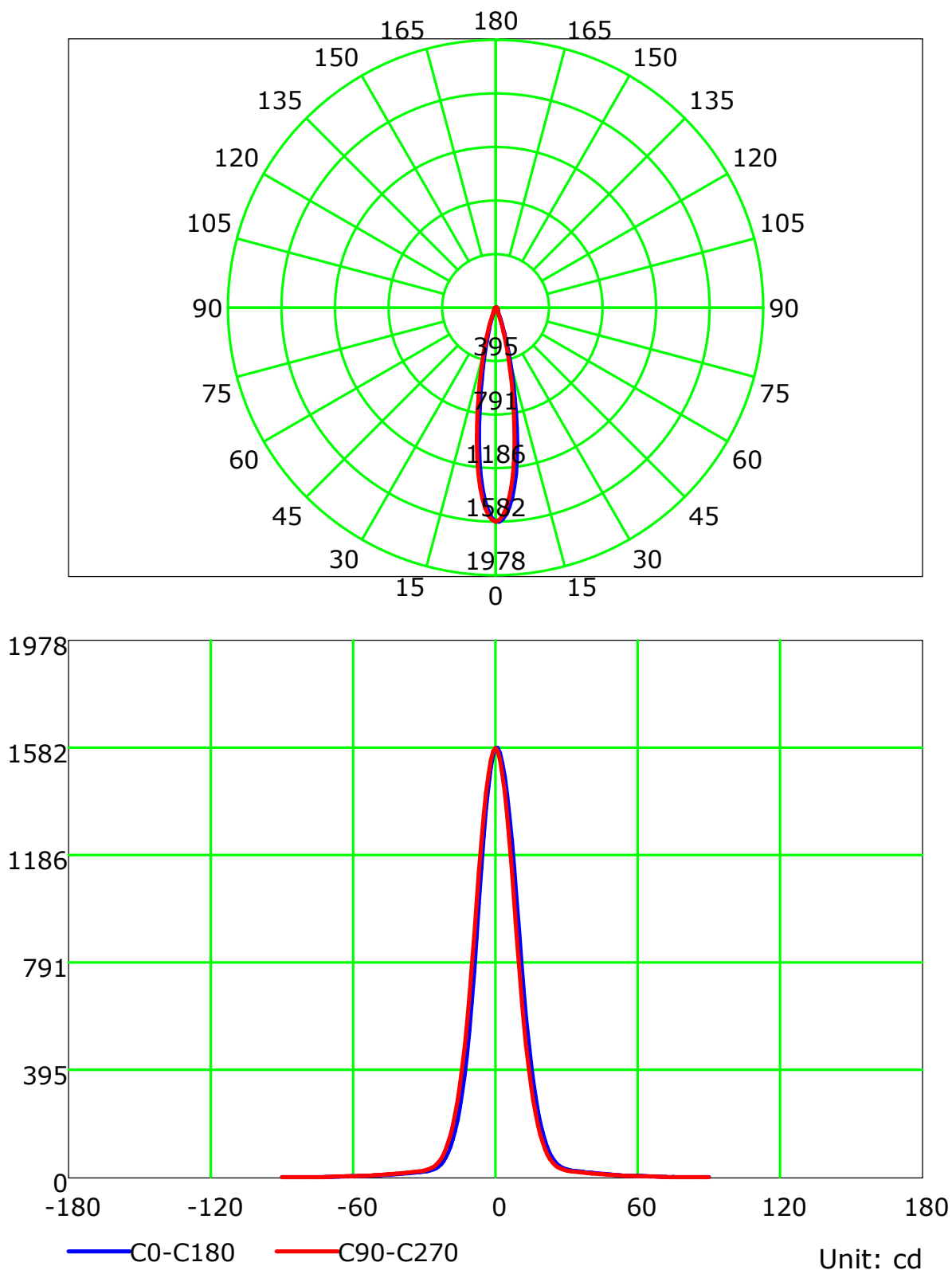
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

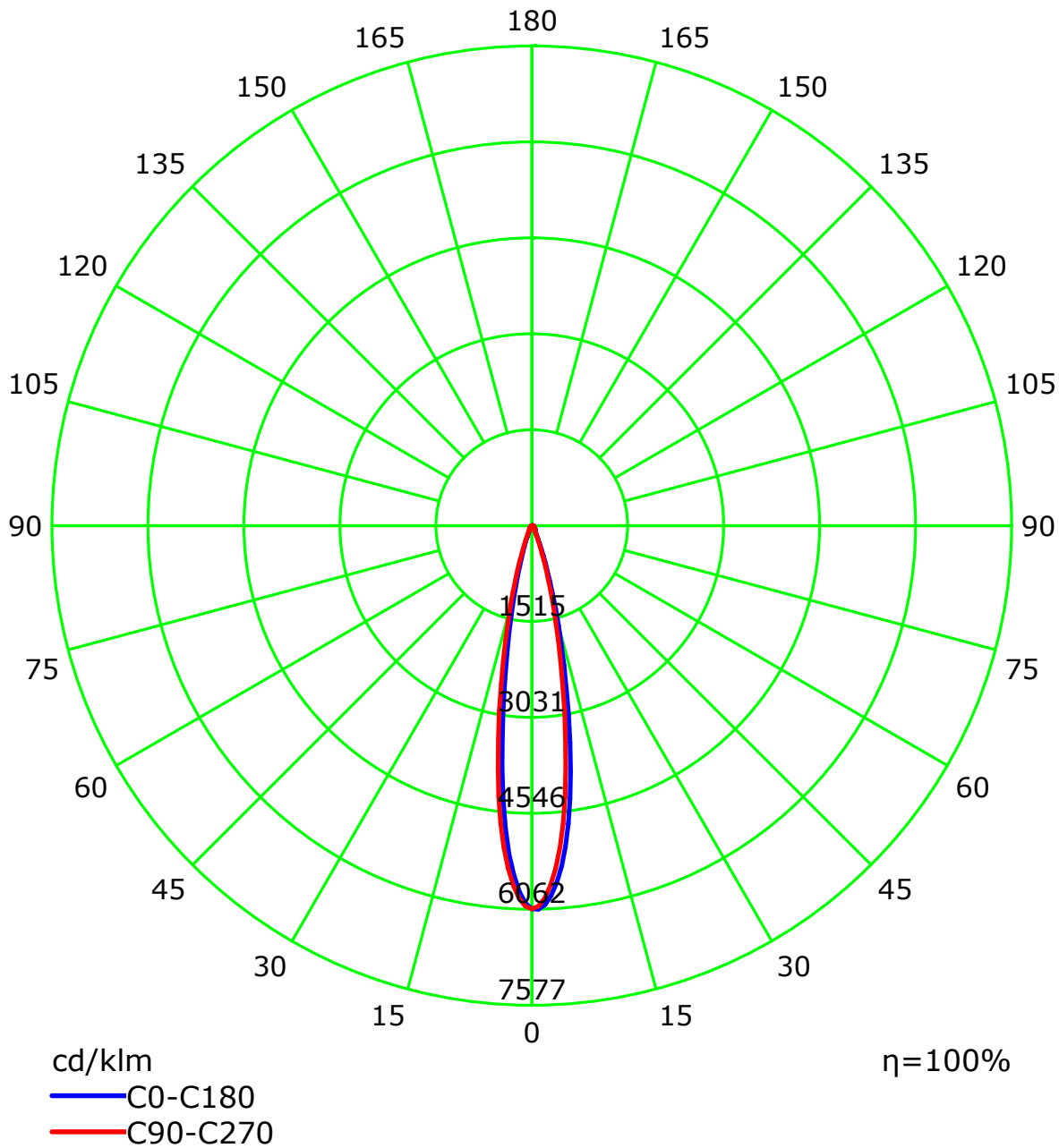
Luminous Intensity Distribution Curve



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: 3.000 m
Humidity:
Inspector:

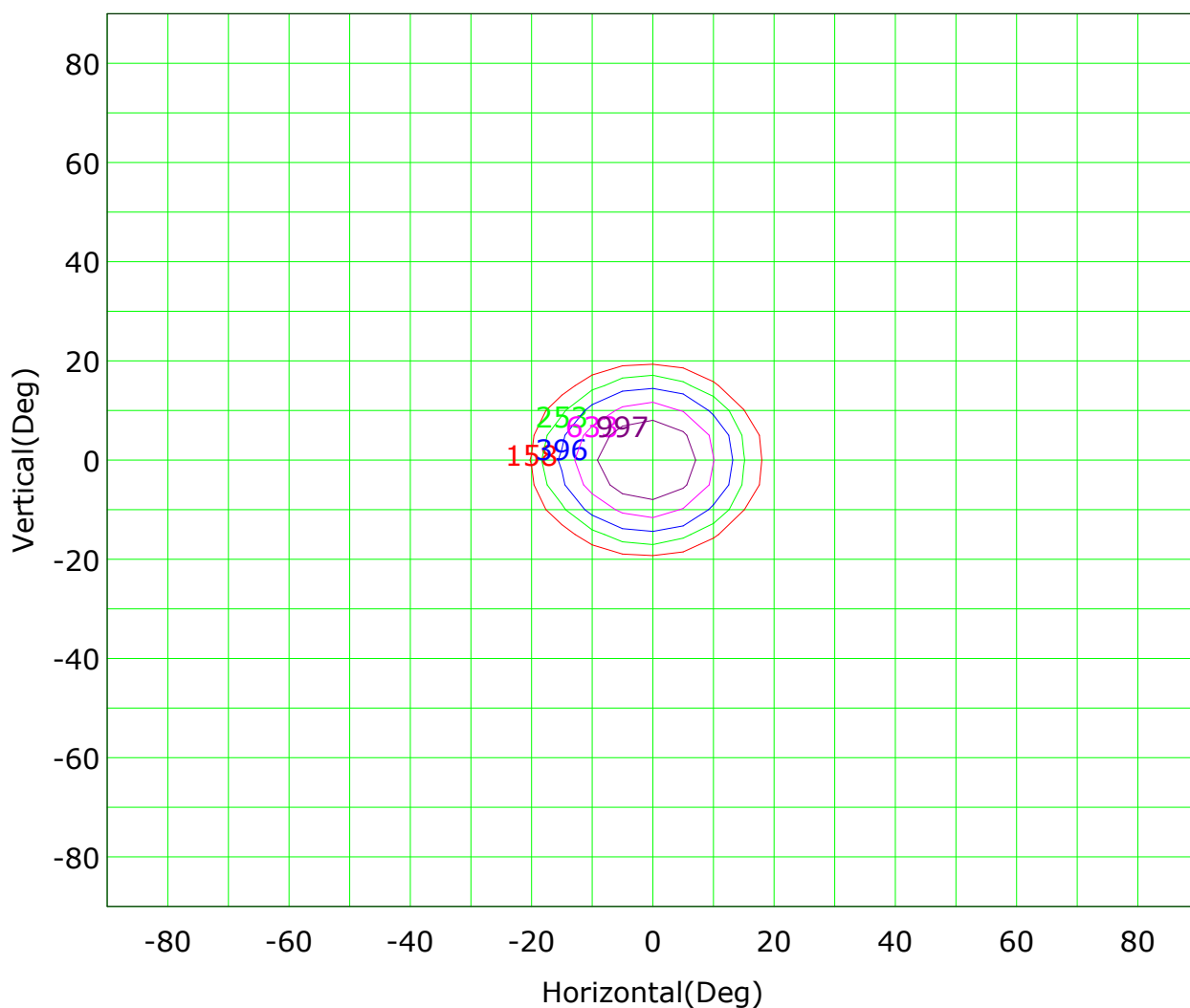
Luminous Intensity Distribution Curve(cd/klm)



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: 3.000 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 1582 cd

(10%): 158 cd	(16%): 253 cd
(25%): 396 cd	(40%): 633 cd
(63%): 997 cd	(100%): 1582 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

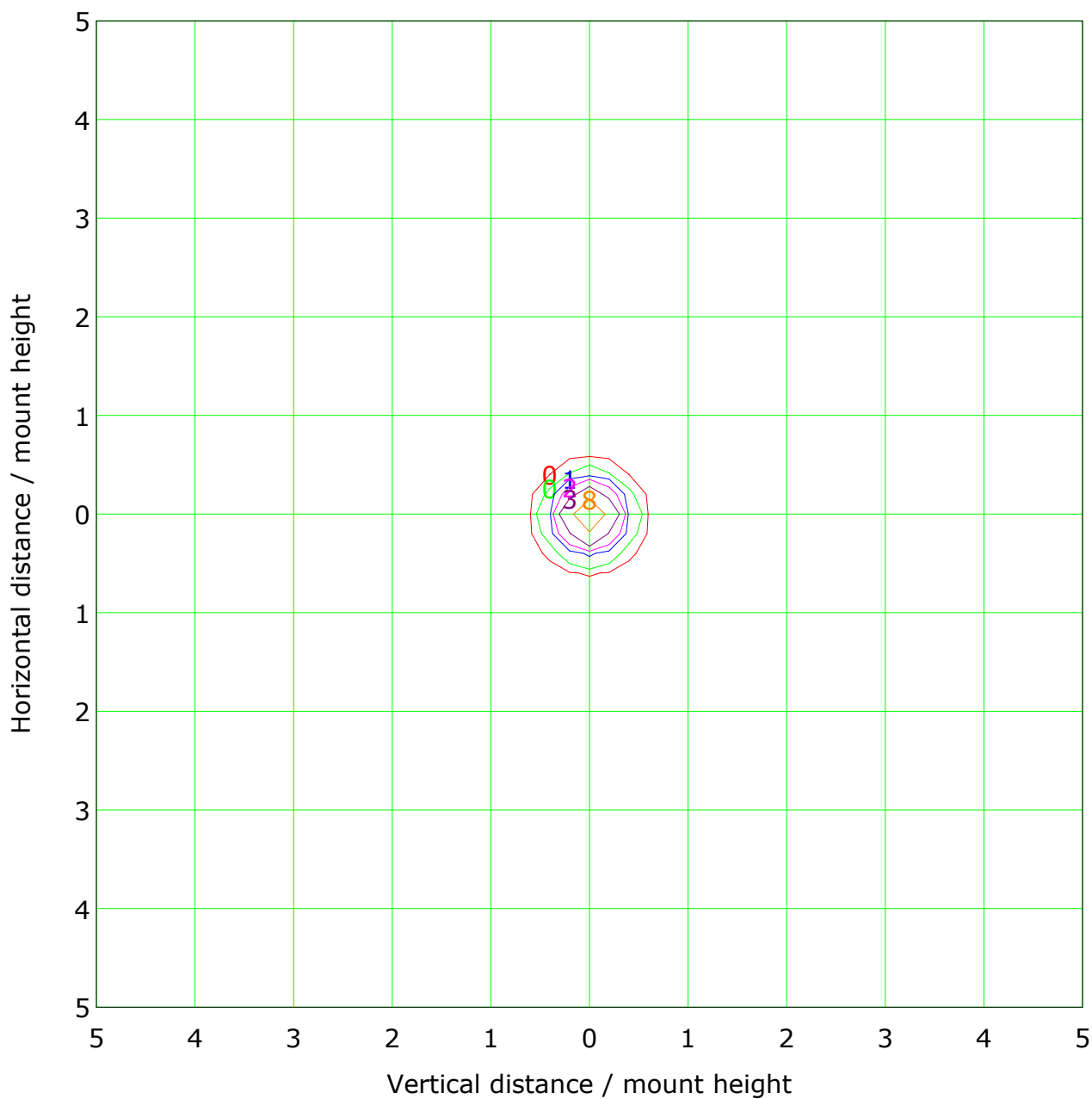
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

IsoLux Plot



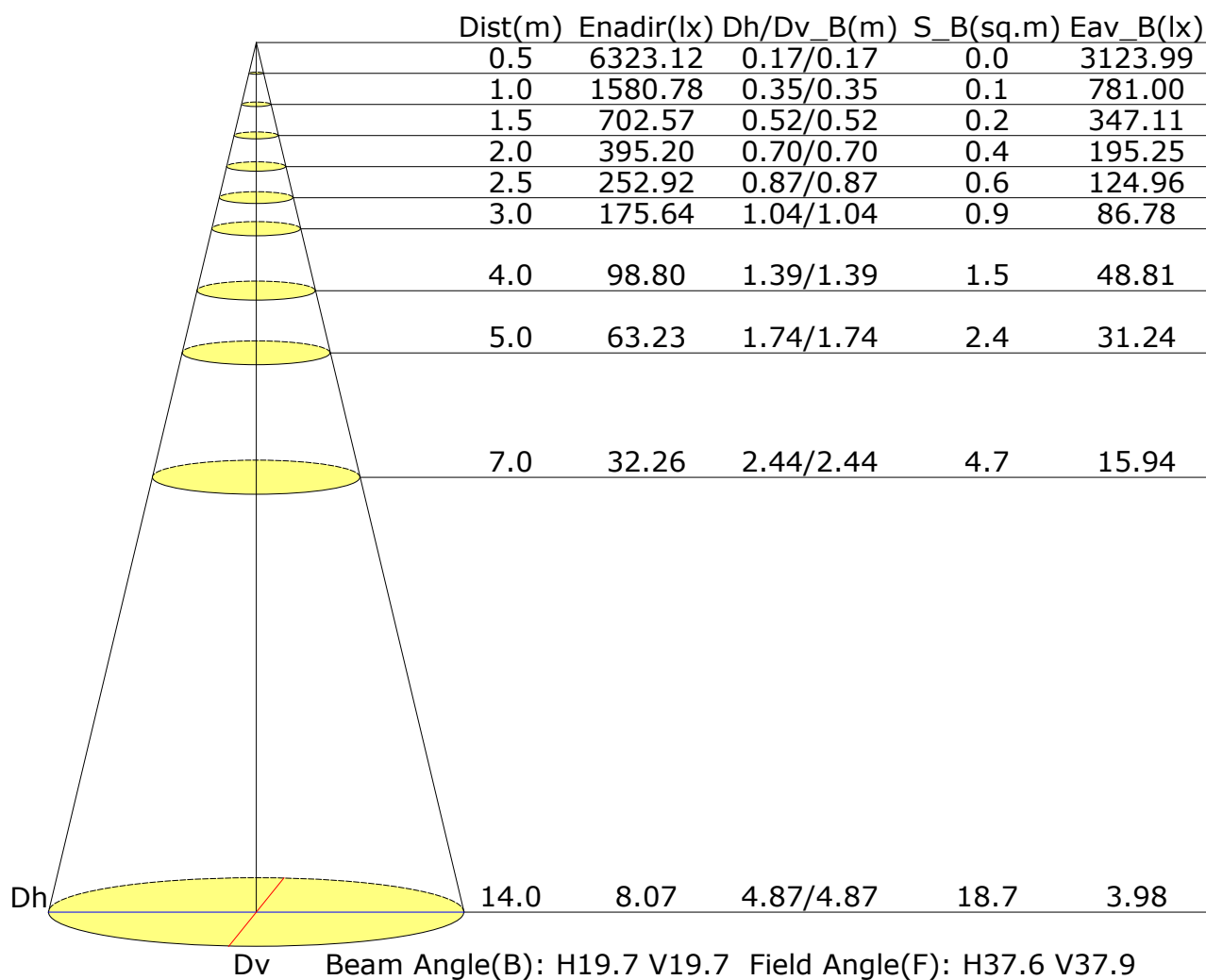
Mounting Height: 10.0m Max Lux(100%): 15.8 lx

— (1%): 0.2 lx	— (2%): 0.3 lx
— (5%): 0.8 lx	— (10%): 1.6 lx
— (20%): 3.2 lx	— (50%): 7.9 lx
— (100%): 15.8 lx	

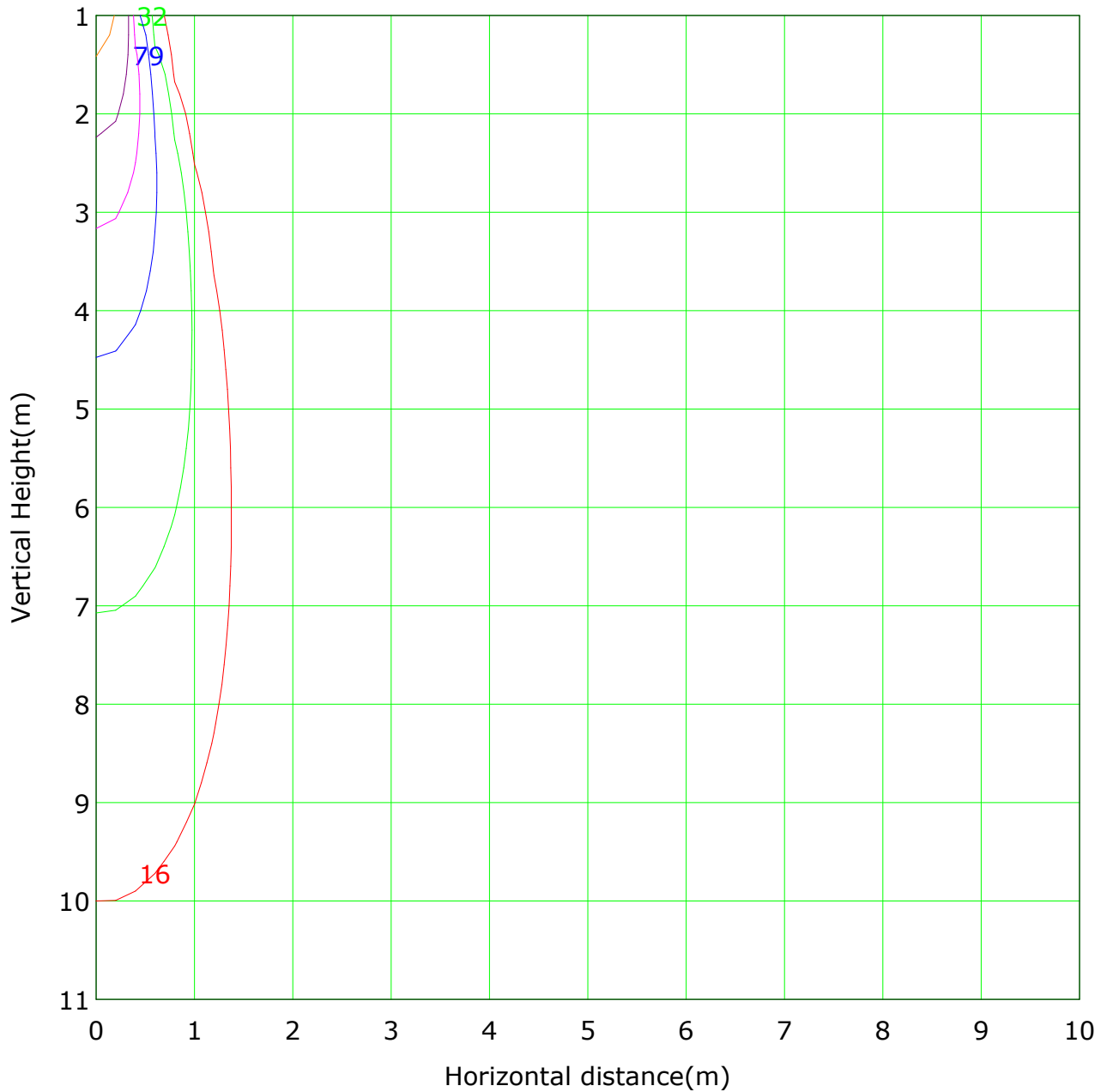
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.000 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



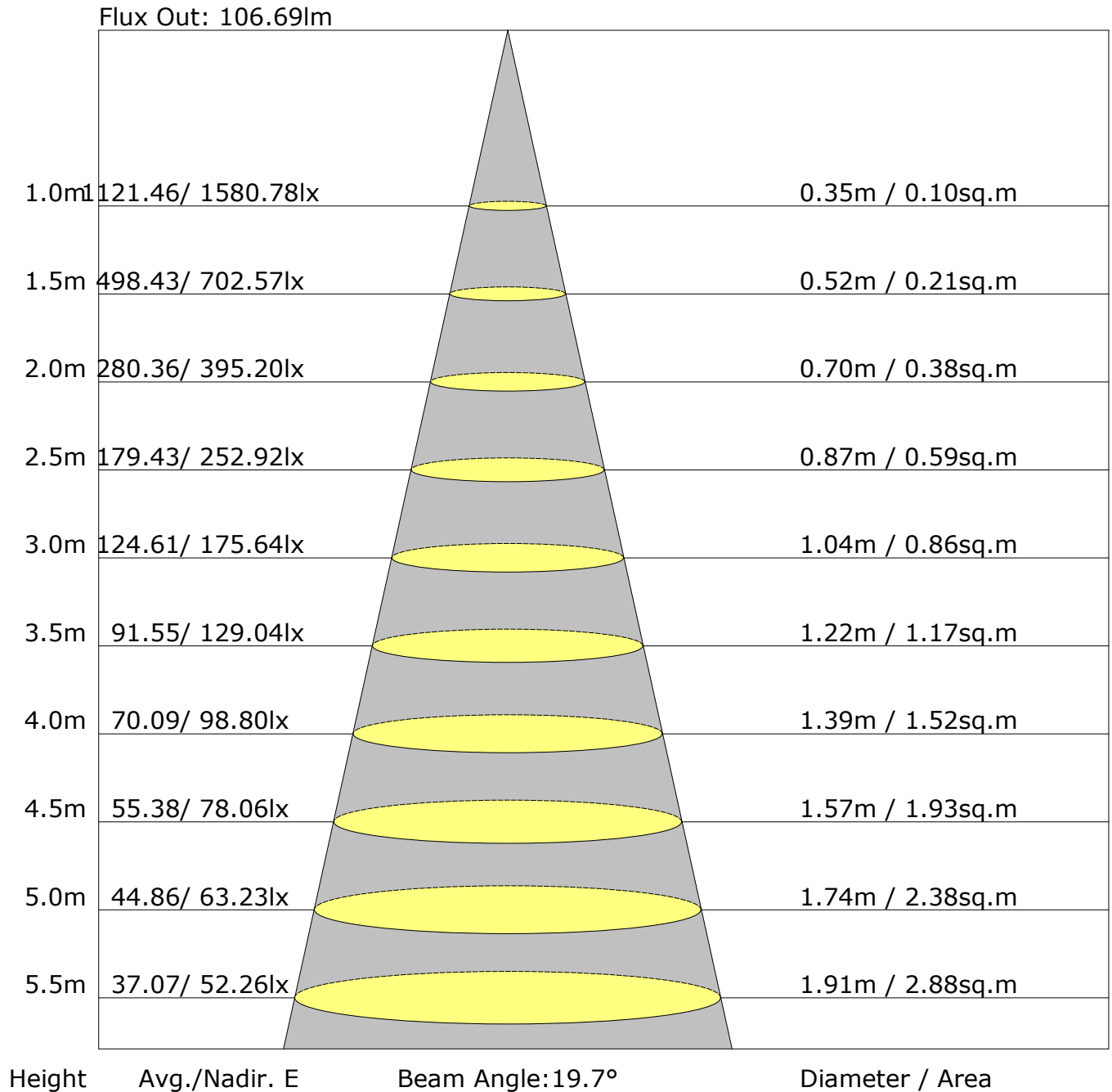
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1580.8 lx
— (1%): 15.8 lx — (2%): 31.6 lx
— (5%): 79.0 lx — (10%): 158.1 lx
— (20%): 316.2 lx — (50%): 790.4 lx
— (100%):1580.8 lx

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: 3.000 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.000 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: 3.000 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	14.1	14.7	14.3	14.9	15.1	13.6	14.3	13.9	14.4	14.6
3H	14.7	15.3	15.0	15.5	15.8	14.2	14.8	14.5	15.0	15.2
4H	14.8	15.3	15.1	15.6	15.8	14.2	14.8	14.5	15.0	15.3
6H	14.8	15.3	15.1	15.6	15.8	14.2	14.7	14.5	15.0	15.3
8H	14.7	15.2	15.1	15.5	15.8	14.1	14.6	14.5	14.9	15.2
12H	14.7	15.2	15.0	15.5	15.8	14.1	14.6	14.5	14.9	15.2
X=4H Y=2H	14.4	15.0	14.7	15.2	15.5	14.0	14.6	14.3	14.8	15.1
3H	15.1	15.6	15.5	15.9	16.2	14.6	15.1	15.0	15.4	15.7
4H	15.2	15.6	15.5	15.9	16.3	14.7	15.1	15.0	15.4	15.8
6H	15.2	15.5	15.6	15.9	16.3	14.6	15.0	15.0	15.4	15.8
8H	15.1	15.5	15.5	15.9	16.3	14.6	14.9	15.0	15.3	15.7
12H	15.1	15.4	15.5	15.8	16.2	14.5	14.9	15.0	15.3	15.7
X=8H Y=4H	15.1	15.5	15.5	15.8	16.2	14.6	15.0	15.1	15.4	15.8
6H	15.1	15.4	15.6	15.8	16.3	14.6	14.9	15.1	15.3	15.8
8H	15.1	15.3	15.5	15.8	16.2	14.6	14.8	15.0	15.3	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	15.1	15.4	15.5	15.8	16.2	14.6	14.9	15.0	15.3	15.7
6H	15.1	15.3	15.5	15.8	16.2	14.6	14.8	15.0	15.3	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	+0.6/-1.0					+0.6/-1.1				
S=1.5H	+1.4/-1.2					+1.2/-1.4				
S=2.0H	+2.4/-2.2					+2.1/-2.4				

Calculate in accordance with CIE Pub.117. The table is revised with 261lm ($8\log(F/F_0) = -4.7$).

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: 3.000 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	141	54.1
	FL (0°-30°)	125	47.9
	FM (30°-60°)	14	5.3
	FH (60°-80°)	2	0.8
	FVH (80°-90°)	0	0.0
	BACK LIGHT	120	45.9
	BL (0°-30°)	106	40.6
	BM (30°-60°)	12	4.6
	BH (60°-80°)	2	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)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 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: 3.000 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	1575.1	1.5	1.5	0.58	0.58
1.0-2.0	1553.0	4.5	6.0	1.71	2.29
2.0-3.0	1510.5	7.2	13.2	2.77	5.05
3.0-4.0	1450.4	9.7	22.9	3.72	8.77
4.0-5.0	1374.3	11.8	34.7	4.53	13.30
5.0-6.0	1283.7	13.5	48.2	5.17	18.47
6.0-7.0	1180.1	14.6	62.9	5.61	24.08
7.0-8.0	1066.8	15.3	78.1	5.85	29.93
8.0-9.0	949.4	15.4	93.5	5.90	35.83
9.0-10.0	832.7	15.1	108.6	5.77	41.60
10.0-11.0	721.3	14.4	123.0	5.52	47.12
11.0-12.0	619.1	13.5	136.5	5.19	52.31
12.0-13.0	527.7	12.5	149.1	4.80	57.11
13.0-14.0	446.7	11.4	160.5	4.38	61.49
14.0-15.0	375.7	10.3	170.8	3.95	65.44
15.0-16.0	313.4	9.2	180.0	3.52	68.96
16.0-17.0	258.6	8.1	188.1	3.09	72.04
17.0-18.0	212.2	7.0	195.1	2.68	74.72
18.0-19.0	173.8	6.0	201.1	2.32	77.04
19.0-20.0	141.7	5.2	206.3	1.99	79.03
20.0-21.0	115.0	4.4	210.7	1.69	80.72
21.0-22.0	93.1	3.7	214.5	1.43	82.15
22.0-23.0	75.5	3.2	217.6	1.21	83.37
23.0-24.0	61.6	2.7	220.3	1.03	84.40
24.0-25.0	51.1	2.3	222.6	0.89	85.29
25.0-26.0	43.0	2.0	224.7	0.78	86.07
26.0-27.0	36.8	1.8	226.5	0.69	86.76
27.0-28.0	32.2	1.6	228.1	0.62	87.38
28.0-29.0	28.9	1.5	229.6	0.58	87.96
29.0-30.0	26.4	1.4	231.0	0.55	88.51
30.0-31.0	24.4	1.4	232.4	0.52	89.03
31.0-32.0	22.8	1.3	233.7	0.50	89.53
32.0-33.0	21.5	1.3	235.0	0.48	90.01
33.0-34.0	20.4	1.2	236.2	0.47	90.48
34.0-35.0	19.4	1.2	237.4	0.46	90.94
35.0-36.0	18.6	1.2	238.6	0.45	91.40

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: 3.000 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	17.8	1.2	239.7	0.45	91.84
37.0-38.0	16.9	1.1	240.9	0.43	92.28
38.0-39.0	16.0	1.1	242.0	0.42	92.70
39.0-40.0	15.3	1.1	243.0	0.41	93.10
40.0-41.0	14.5	1.0	244.1	0.39	93.50
41.0-42.0	13.8	1.0	245.1	0.38	93.88
42.0-43.0	13.1	1.0	246.0	0.37	94.25
43.0-44.0	12.3	0.9	247.0	0.35	94.61
44.0-45.0	11.7	0.9	247.9	0.34	94.95
45.0-46.0	11.1	0.9	248.7	0.33	95.28
46.0-47.0	10.4	0.8	249.6	0.32	95.60
47.0-48.0	9.7	0.8	250.3	0.30	95.90
48.0-49.0	8.9	0.7	251.1	0.28	96.18
49.0-50.0	8.3	0.7	251.8	0.27	96.45
50.0-51.0	7.8	0.7	252.4	0.25	96.70
51.0-52.0	7.2	0.6	253.0	0.24	96.94
52.0-53.0	6.6	0.6	253.6	0.22	97.16
53.0-54.0	6.1	0.5	254.2	0.21	97.36
54.0-55.0	5.7	0.5	254.7	0.20	97.56
55.0-56.0	5.4	0.5	255.2	0.19	97.74
56.0-57.0	5.3	0.5	255.6	0.18	97.93
57.0-58.0	5.0	0.5	256.1	0.18	98.11
58.0-59.0	4.7	0.4	256.5	0.17	98.28
59.0-60.0	4.6	0.4	257.0	0.17	98.44
60.0-61.0	4.5	0.4	257.4	0.16	98.61
61.0-62.0	4.3	0.4	257.8	0.16	98.77
62.0-63.0	4.1	0.4	258.2	0.15	98.92
63.0-64.0	3.8	0.4	258.6	0.14	99.06
64.0-65.0	3.5	0.3	258.9	0.13	99.19
65.0-66.0	3.2	0.3	259.3	0.12	99.32
66.0-67.0	3.0	0.3	259.6	0.12	99.43
67.0-68.0	2.7	0.3	259.8	0.10	99.54
68.0-69.0	2.2	0.2	260.1	0.09	99.62
69.0-70.0	1.8	0.2	260.2	0.07	99.70
70.0-71.0	1.5	0.2	260.4	0.06	99.75
71.0-72.0	1.2	0.1	260.5	0.05	99.80

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: 3.000 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.000 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	1580.8	1580.8								
G1.0	1582.4	1556.5								
G2.0	1563.5	1509.5								
G3.0	1526.9	1442.2								
G4.0	1474.9	1357.7								
G5.0	1409.3	1255.3								
G6.0	1331.3	1139.0								
G7.0	1239.2	1010.8								
G8.0	1136.2	881.1								
G9.0	1024.3	756.0								
G10.0	908.6	642.1								
G11.0	793.9	540.8								
G12.0	686.8	454.9								
G13.0	589.3	380.0								
G14.0	502.2	315.1								
G15.0	426.3	259.1								
G16.0	356.6	211.6								
G17.0	294.0	172.3								
G18.0	242.2	140.5								
G19.0	199.3	113.3								
G20.0	163.3	90.8								
G21.0	133.0	72.6								
G22.0	108.3	58.5								
G23.0	87.7	47.7								
G24.0	71.6	39.5								
G25.0	59.5	33.7								
G26.0	49.4	29.5								
G27.0	41.8	26.4								
G28.0	36.4	24.2								
G29.0	32.4	22.5								
G30.0	29.5	21.0								
G31.0	27.1	19.8								
G32.0	25.4	18.8								
G33.0	23.9	17.9								
G34.0	22.7	17.0								
G35.0	21.6	16.4								
G36.0	20.9	15.7								

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: 3.000 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	19.8	14.9								
G38.0	18.8	14.2								
G39.0	17.8	13.4								
G40.0	17.1	12.7								
G41.0	16.1	11.9								
G42.0	15.5	11.5								
G43.0	14.3	10.9								
G44.0	13.6	10.3								
G45.0	13.1	9.7								
G46.0	12.2	9.3								
G47.0	11.5	8.8								
G48.0	10.6	8.1								
G49.0	9.7	7.5								
G50.0	8.9	7.2								
G51.0	8.4	6.7								
G52.0	7.6	6.0								
G53.0	7.0	5.7								
G54.0	6.4	5.4								
G55.0	6.0	5.1								
G56.0	5.8	4.8								
G57.0	5.7	4.8								
G58.0	5.4	4.3								
G59.0	5.1	4.2								
G60.0	5.1	4.2								
G61.0	4.8	3.9								
G62.0	4.8	3.6								
G63.0	4.5	3.4								
G64.0	4.2	3.1								
G65.0	3.7	3.0								
G66.0	3.6	2.7								
G67.0	3.4	2.4								
G68.0	3.0	1.9								
G69.0	2.4	1.6								
G70.0	2.2	1.0								
G71.0	1.5	1.0								
G72.0	1.2	0.9								
G73.0	0.9	0.8								

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: 3.000 m
Humidity:
Inspector:

Unit: cd

[illegible]

Test Device: CHL-6E
Distance: 3.000 m
Humidity:
Inspector: