

Report No.:

Test Time: 2025-08-06 19:07

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: SHOWLITE 52.04525 24D

Luminous Length (mm): -42

Voltage: 233.4 V

Power: 3.40 W

Luminous Width (mm): -42

Current: 0.026 A

Power Factor: 0.555

Photometric Results

CIE Class: Direct

Measurement Flux: 285.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H22.7

Vertical Diffuse Angle(50%): V22.7

Luminaire Efficacy Rating (LER): 83.98

Max. Intensity: 1466.23 cd

S/MH(C0/C180): 0.39

Total Rated Lamp Lumens: 285.4 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1454.3 cd

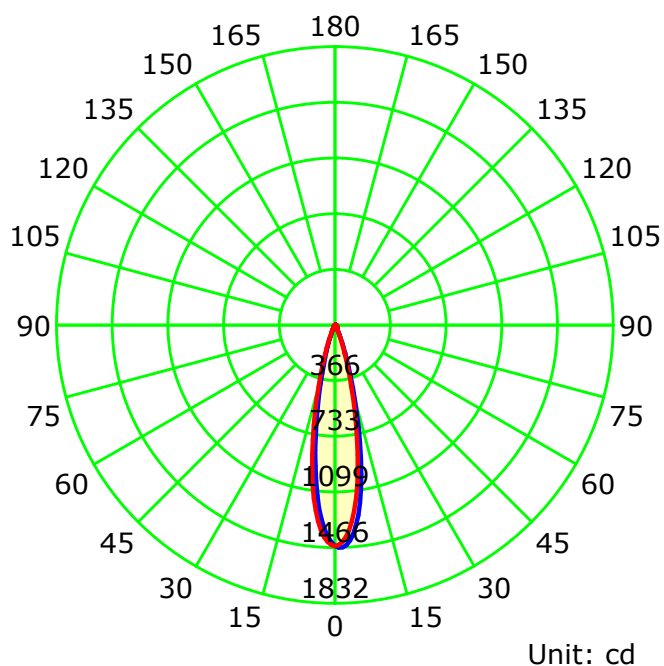
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.39

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

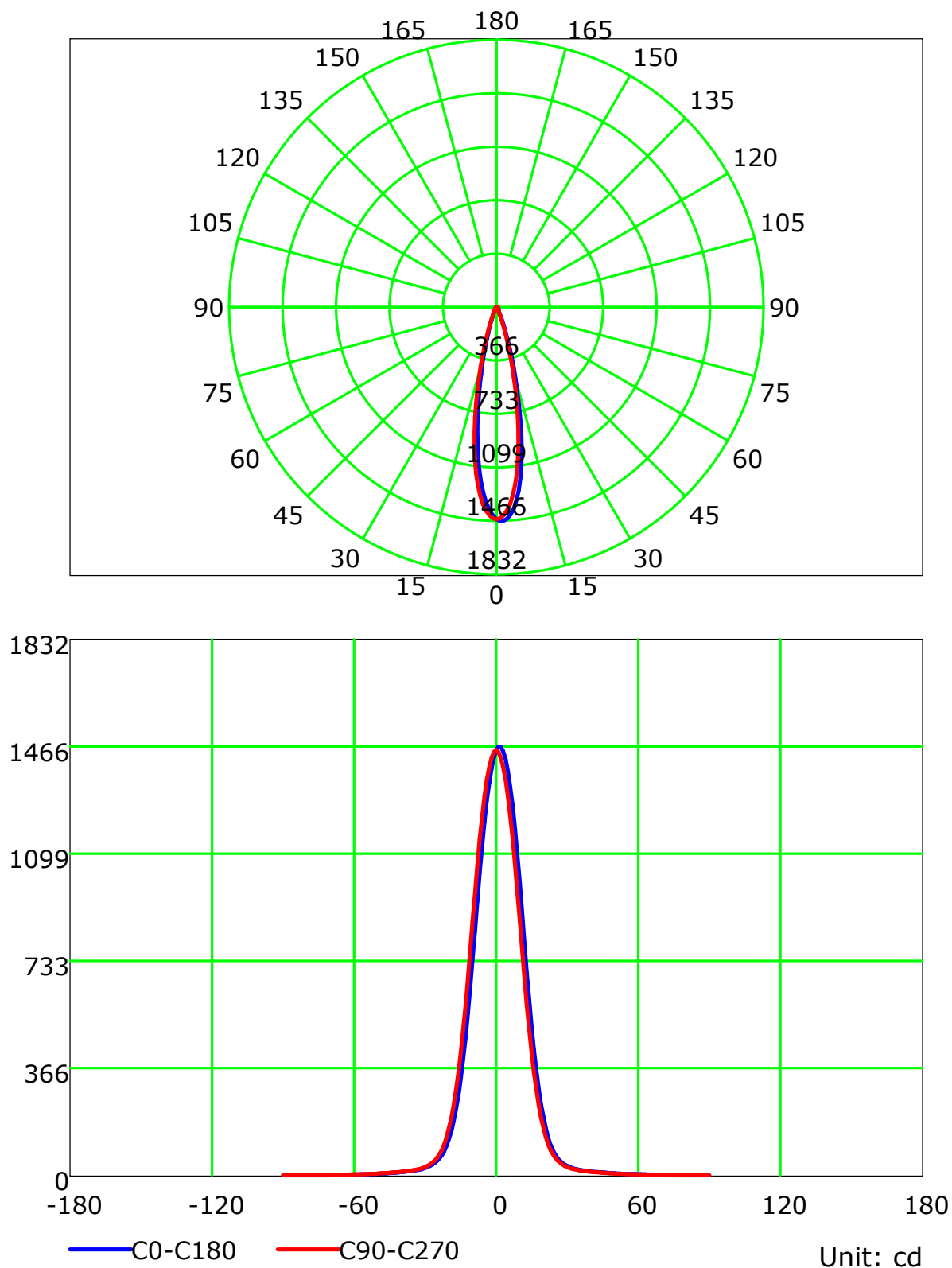
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

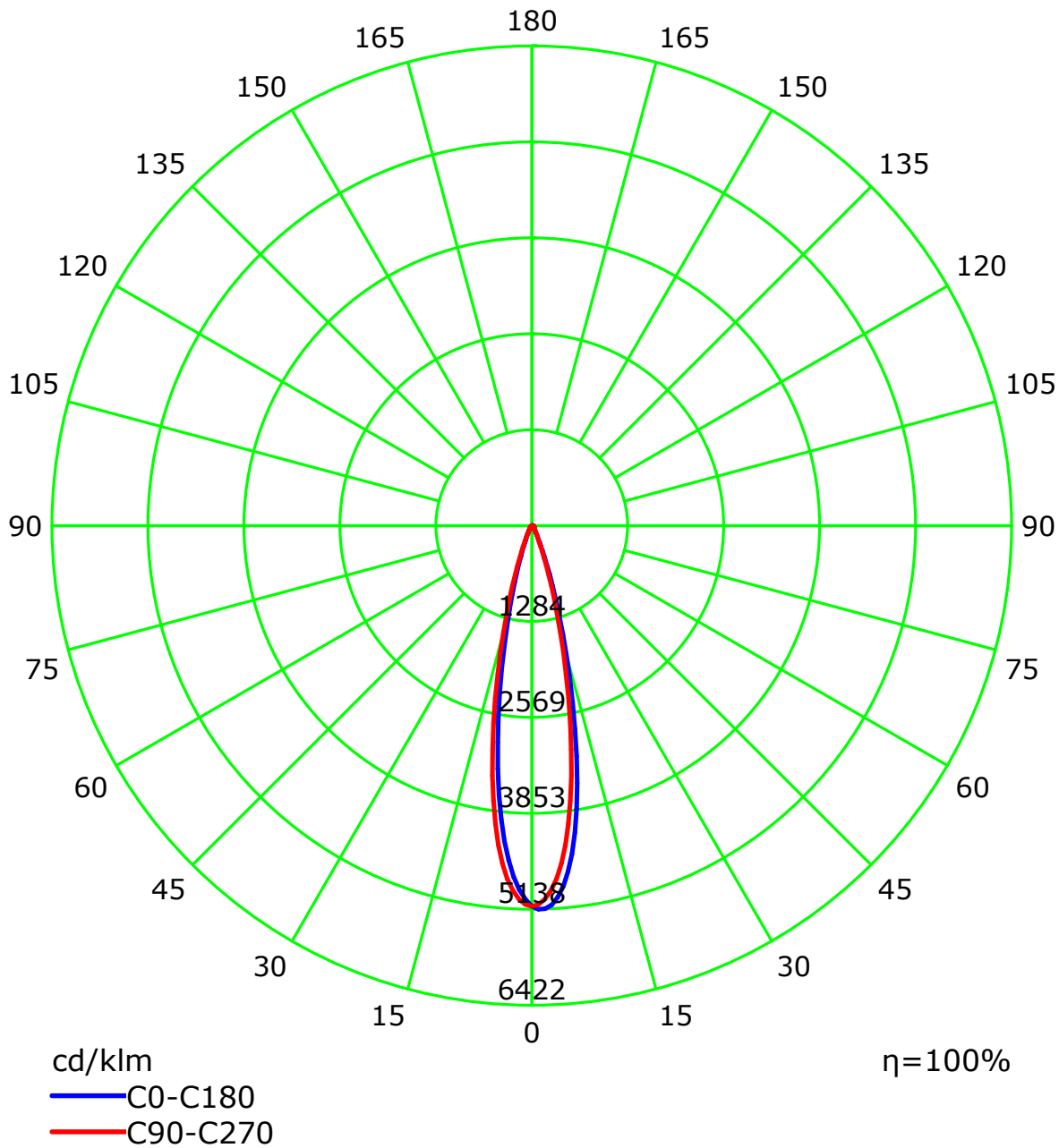
Luminous Intensity Distribution Curve



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:

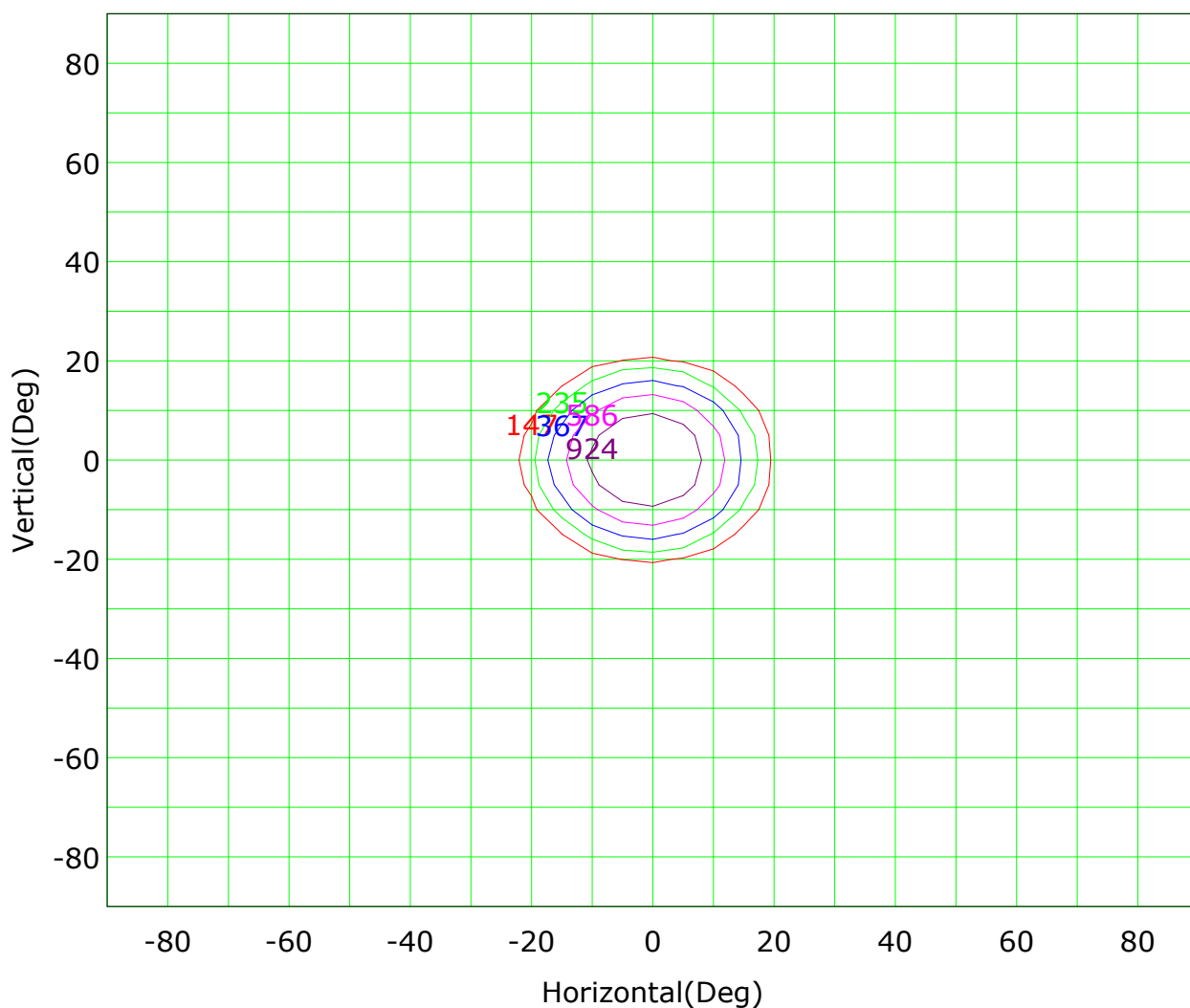
Luminous Intensity Distribution Curve(cd/klm)



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%): 1466 cd

(10%): 147 cd	(16%): 235 cd
(25%): 367 cd	(40%): 586 cd
(63%): 924 cd	(100%): 1466 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

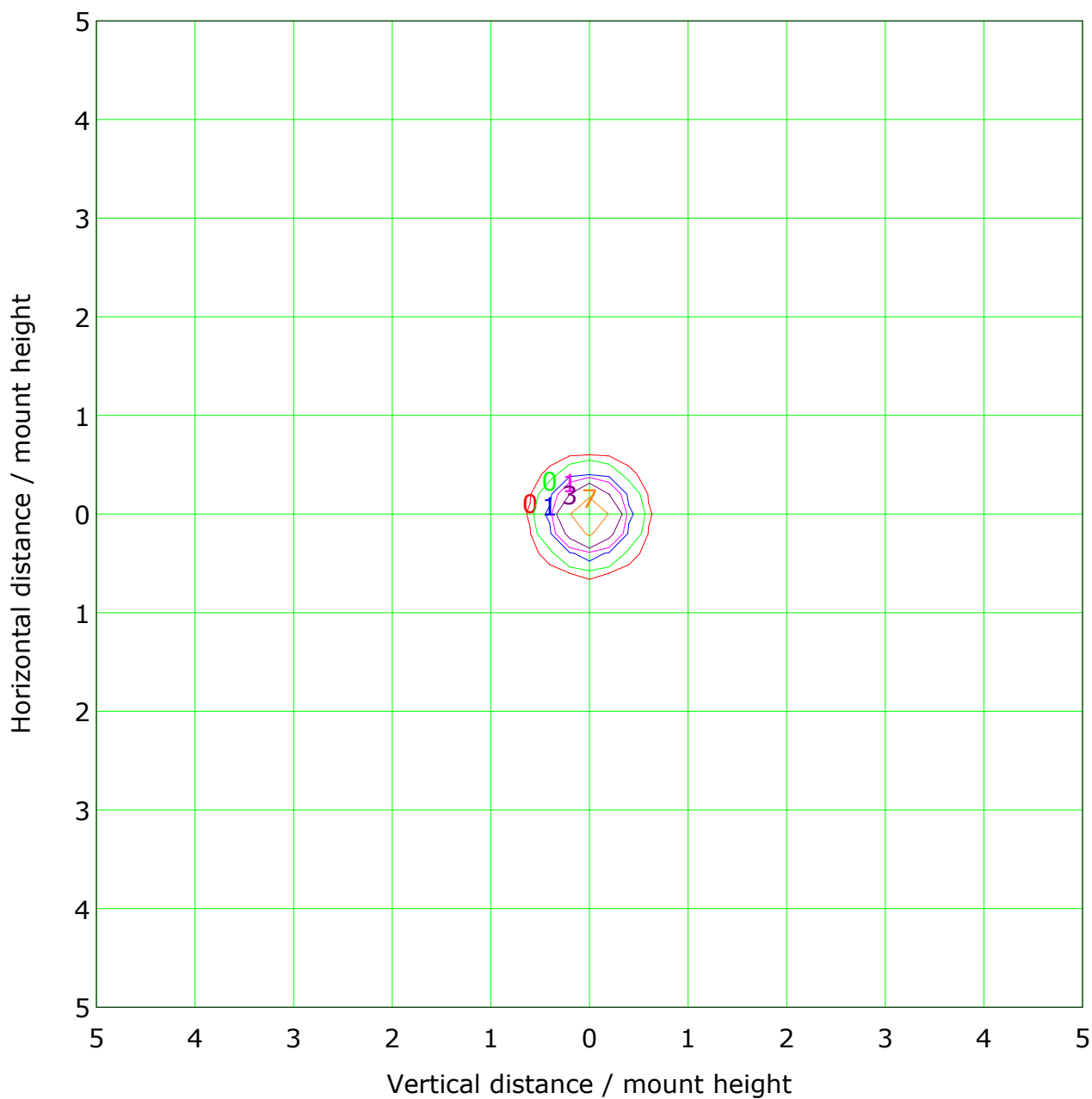
Test Device: CHL-6E

Distance: 3.000 m

Humidity:

Inspector:

IsoLux Plot



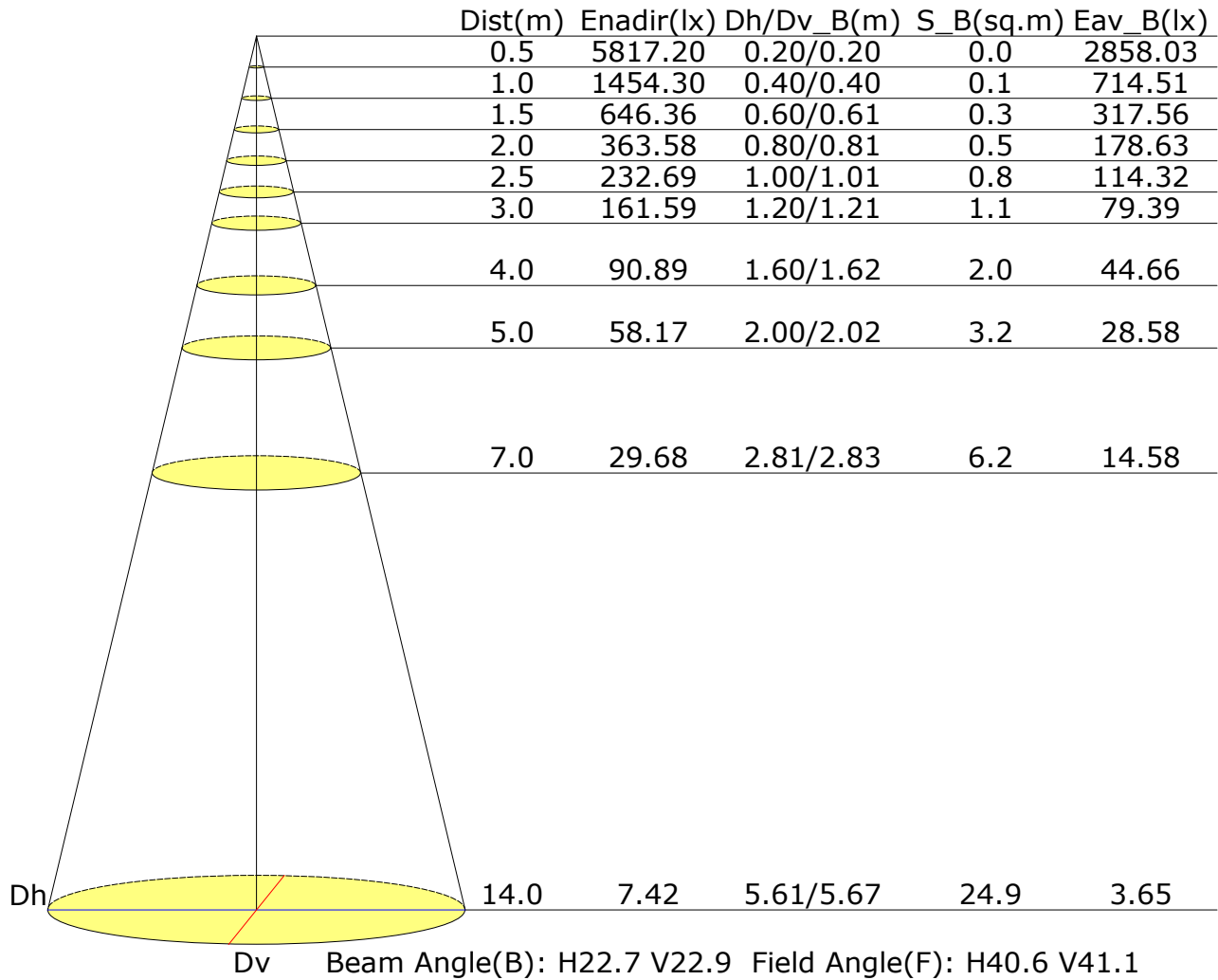
Mounting Height: 10.0m Max Lux(100%): 14.7 lx

— (1%): 0.1 lx	— (2%): 0.3 lx
— (5%): 0.7 lx	— (10%): 1.5 lx
— (20%): 2.9 lx	— (50%): 7.3 lx
— (100%): 14.7 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: 3.000 m
Humidity:
Inspector:

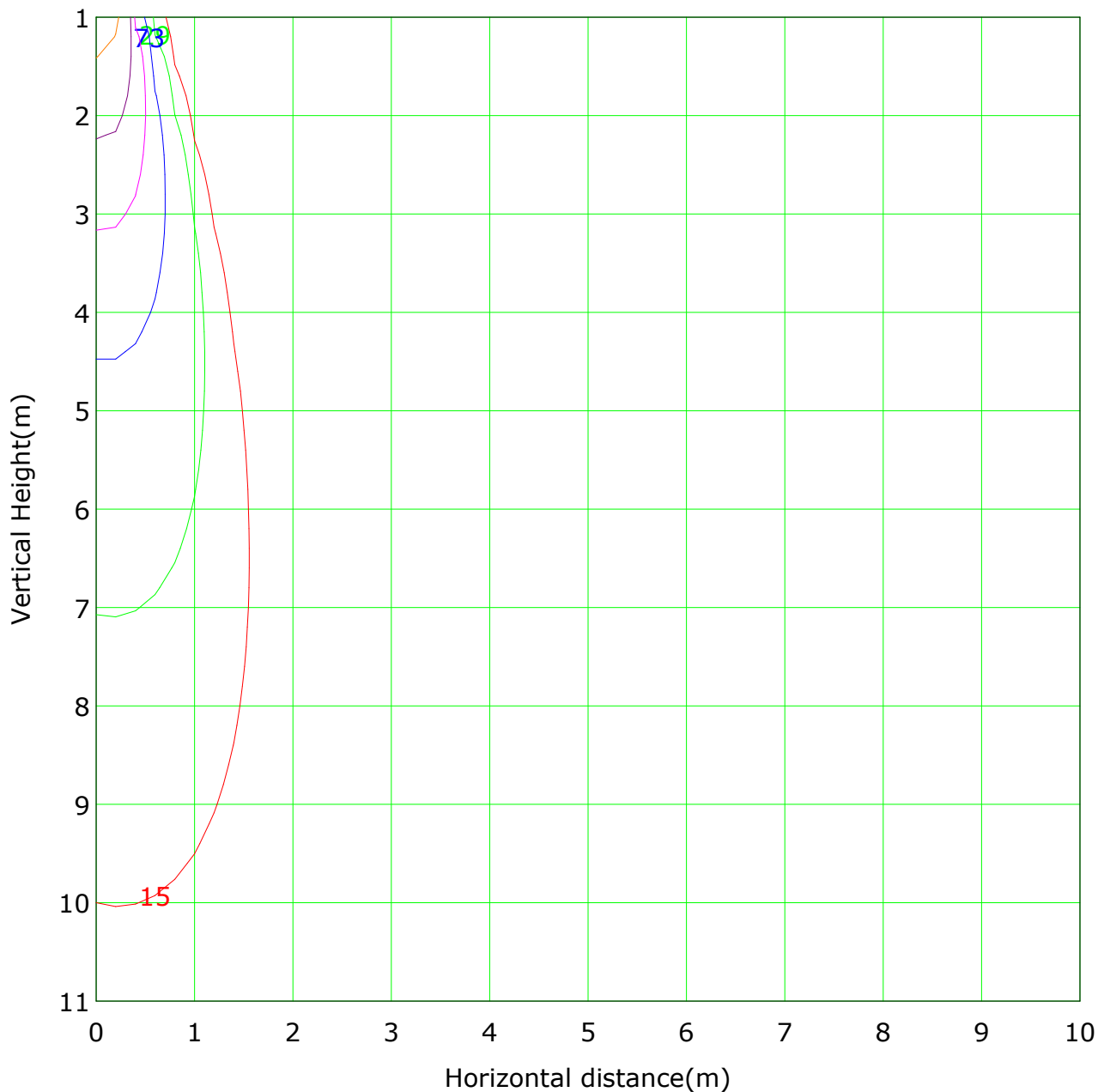
Illuminance at a Distance



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:

Vertical IsoLux Plot



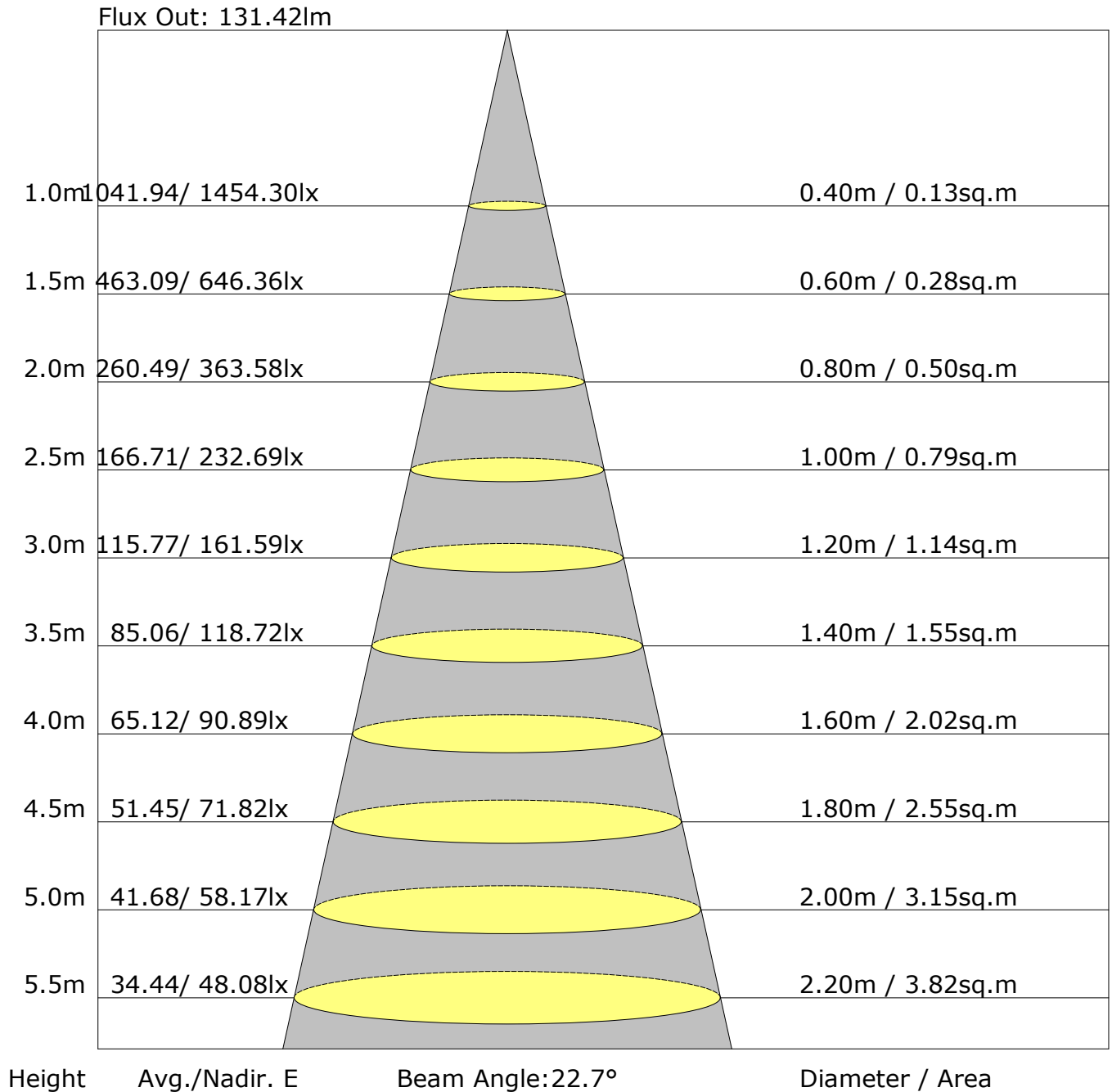
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1454.3 lx
— (1%): 14.5 lx — (2%): 29.1 lx
— (5%): 72.7 lx — (10%): 145.4 lx
— (20%): 290.9 lx — (50%): 727.2 lx
— (100%):1454.3 lx

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



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	12.7	13.3	12.9	13.5	13.7	12.2	12.8	12.4	13.0	13.2
3H	13.3	13.9	13.6	14.1	14.3	12.6	13.2	12.9	13.4	13.6
4H	13.3	13.9	13.6	14.1	14.4	12.6	13.2	12.9	13.4	13.7
6H	13.3	13.8	13.6	14.1	14.4	12.6	13.1	12.9	13.3	13.6
8H	13.3	13.8	13.6	14.0	14.3	12.5	13.0	12.9	13.3	13.6
12H	13.2	13.7	13.6	14.0	14.3	12.5	12.9	12.8	13.2	13.6
X=4H Y=2H	12.9	13.5	13.2	13.7	14.0	12.5	13.0	12.8	13.3	13.6
3H	13.6	14.1	14.0	14.4	14.7	13.0	13.5	13.4	13.8	14.1
4H	13.7	14.1	14.1	14.5	14.8	13.0	13.4	13.4	13.8	14.1
6H	13.7	14.0	14.1	14.4	14.8	13.0	13.3	13.4	13.7	14.1
8H	13.6	14.0	14.0	14.4	14.8	12.9	13.3	13.3	13.6	14.0
12H	13.6	13.9	14.0	14.3	14.7	12.9	13.2	13.3	13.6	14.0
X=8H Y=4H	13.6	14.0	14.1	14.4	14.8	13.0	13.3	13.4	13.7	14.1
6H	13.6	13.9	14.0	14.3	14.7	12.9	13.2	13.4	13.6	14.1
8H	13.6	13.8	14.0	14.2	14.7	12.9	13.1	13.3	13.6	14.0
12H	13.5	13.7	14.0	14.2	14.7	12.8	13.0	13.3	13.5	14.0
X=12H Y=4H	13.6	13.9	14.0	14.3	14.7	12.9	13.2	13.4	13.6	14.1
6H	13.5	13.8	14.0	14.2	14.7	12.9	13.1	13.3	13.6	14.0
8H	13.5	13.7	14.0	14.2	14.7	12.8	13.0	13.3	13.5	14.0
Variations with the observer position at spacings:										
S=1.0H	+0.9/-1.0					+0.9/-1.2				
S=1.5H	+2.2/-1.6					+2.2/-1.9				
S=2.0H	+3.4/-2.6					+3.4/-3.6				

Calculate in accordance with CIE Pub.117. The table is revised with 285lm ($8\log(F/F_0) = -4.4$).

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: 3.000 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	153	53.7
	FL (0°-30°)	139	48.8
	FM (30°-60°)	12	4.3
	FH (60°-80°)	2	0.6
	FVH (80°-90°)	0	0.0
	BACK LIGHT	132	46.3
	BL (0°-30°)	120	42.0
	BM (30°-60°)	11	3.8
	BH (60°-80°)	1	0.4
	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: 3.000 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	1450.9	1.4	1.4	0.49	0.49
1.0-2.0	1438.0	4.1	5.5	1.45	1.93
2.0-3.0	1412.7	6.8	12.3	2.37	4.30
3.0-4.0	1374.7	9.2	21.5	3.22	7.53
4.0-5.0	1324.2	11.4	32.9	3.99	11.52
5.0-6.0	1261.9	13.3	46.1	4.65	16.17
6.0-7.0	1188.4	14.8	60.9	5.17	21.34
7.0-8.0	1105.0	15.8	76.7	5.54	26.88
8.0-9.0	1014.0	16.4	93.1	5.76	32.64
9.0-10.0	917.9	16.6	109.8	5.82	38.46
10.0-11.0	819.4	16.4	126.1	5.74	44.20
11.0-12.0	721.9	15.8	141.9	5.53	49.73
12.0-13.0	628.1	14.9	156.8	5.22	54.95
13.0-14.0	540.2	13.8	170.6	4.85	59.80
14.0-15.0	459.4	12.6	183.3	4.42	64.22
15.0-16.0	386.8	11.3	194.6	3.97	68.19
16.0-17.0	322.4	10.0	204.6	3.52	71.71
17.0-18.0	266.6	8.8	213.4	3.08	74.79
18.0-19.0	219.2	7.6	221.1	2.67	77.47
19.0-20.0	179.3	6.6	227.6	2.30	79.77
20.0-21.0	146.2	5.6	233.2	1.97	81.73
21.0-22.0	119.1	4.8	238.0	1.68	83.41
22.0-23.0	97.2	4.1	242.1	1.43	84.84
23.0-24.0	79.9	3.5	245.6	1.22	86.06
24.0-25.0	66.5	3.0	248.6	1.06	87.12
25.0-26.0	55.8	2.6	251.3	0.92	88.05
26.0-27.0	47.3	2.3	253.6	0.81	88.86
27.0-28.0	40.6	2.1	255.6	0.72	89.58
28.0-29.0	35.3	1.8	257.5	0.65	90.23
29.0-30.0	30.8	1.7	259.1	0.58	90.81
30.0-31.0	27.3	1.5	260.7	0.53	91.34
31.0-32.0	24.6	1.4	262.1	0.49	91.84
32.0-33.0	22.2	1.3	263.4	0.46	92.30
33.0-34.0	20.2	1.2	264.6	0.43	92.73
34.0-35.0	18.6	1.2	265.8	0.40	93.13
35.0-36.0	17.2	1.1	266.9	0.38	93.51

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	16.1	1.0	267.9	0.37	93.88
37.0-38.0	14.9	1.0	268.9	0.35	94.23
38.0-39.0	14.0	1.0	269.9	0.34	94.57
39.0-40.0	13.2	0.9	270.8	0.32	94.89
40.0-41.0	12.4	0.9	271.7	0.31	95.20
41.0-42.0	11.6	0.8	272.5	0.30	95.49
42.0-43.0	10.9	0.8	273.3	0.28	95.78
43.0-44.0	10.3	0.8	274.1	0.27	96.05
44.0-45.0	9.5	0.7	274.8	0.26	96.30
45.0-46.0	8.9	0.7	275.5	0.24	96.55
46.0-47.0	8.3	0.7	276.2	0.23	96.78
47.0-48.0	7.7	0.6	276.8	0.22	97.00
48.0-49.0	7.2	0.6	277.4	0.21	97.20
49.0-50.0	6.8	0.6	278.0	0.20	97.40
50.0-51.0	6.2	0.5	278.5	0.18	97.59
51.0-52.0	5.8	0.5	279.0	0.17	97.76
52.0-53.0	5.5	0.5	279.5	0.17	97.93
53.0-54.0	5.2	0.5	279.9	0.16	98.09
54.0-55.0	4.9	0.4	280.3	0.15	98.24
55.0-56.0	4.7	0.4	280.8	0.15	98.39
56.0-57.0	4.5	0.4	281.2	0.14	98.53
57.0-58.0	4.3	0.4	281.6	0.14	98.67
58.0-59.0	4.1	0.4	282.0	0.13	98.80
59.0-60.0	3.8	0.4	282.3	0.13	98.93
60.0-61.0	3.6	0.3	282.7	0.12	99.05
61.0-62.0	3.4	0.3	283.0	0.11	99.17
62.0-63.0	3.1	0.3	283.3	0.11	99.27
63.0-64.0	2.9	0.3	283.6	0.10	99.37
64.0-65.0	2.7	0.3	283.8	0.09	99.47
65.0-66.0	2.4	0.2	284.1	0.08	99.55
66.0-67.0	2.1	0.2	284.3	0.07	99.63
67.0-68.0	1.9	0.2	284.5	0.07	99.69
68.0-69.0	1.6	0.2	284.7	0.06	99.75
69.0-70.0	1.3	0.1	284.8	0.05	99.80
70.0-71.0	1.2	0.1	284.9	0.04	99.84
71.0-72.0	1.0	0.1	285.0	0.04	99.88

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	1454.3	1454.3								
G1.0	1466.2	1428.9								
G2.0	1464.9	1392.1								
G3.0	1450.9	1342.9								
G4.0	1423.1	1281.9								
G5.0	1382.6	1209.4								
G6.0	1328.4	1127.2								
G7.0	1262.7	1035.2								
G8.0	1184.3	937.7								
G9.0	1096.1	838.0								
G10.0	999.0	738.6								
G11.0	897.0	643.3								
G12.0	793.3	554.2								
G13.0	693.5	471.4								
G14.0	598.7	397.0								
G15.0	510.2	331.7								
G16.0	430.9	274.6								
G17.0	358.4	225.9								
G18.0	296.5	185.5								
G19.0	243.6	151.4								
G20.0	198.7	123.6								
G21.0	161.1	101.4								
G22.0	130.5	83.5								
G23.0	105.3	69.5								
G24.0	85.9	58.9								
G25.0	71.1	50.1								
G26.0	59.1	43.0								
G27.0	50.0	37.3								
G28.0	42.5	32.8								
G29.0	37.0	28.8								
G30.0	32.2	25.4								
G31.0	28.8	23.0								
G32.0	25.6	20.9								
G33.0	23.3	19.1								
G34.0	21.0	17.6								
G35.0	19.2	16.4								
G36.0	17.9	15.4								

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: 3.000 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	16.7	14.3								
G38.0	15.5	13.3								
G39.0	14.6	12.7								
G40.0	13.7	11.8								
G41.0	13.0	11.0								
G42.0	12.1	10.3								
G43.0	11.8	9.6								
G44.0	10.9	8.8								
G45.0	10.1	8.1								
G46.0	9.7	7.6								
G47.0	9.1	6.9								
G48.0	8.5	6.3								
G49.0	8.2	6.0								
G50.0	7.6	5.4								
G51.0	6.9	5.1								
G52.0	6.4	4.8								
G53.0	6.0	4.8								
G54.0	5.7	4.3								
G55.0	5.4	4.2								
G56.0	5.1	4.2								
G57.0	4.8	3.9								
G58.0	4.8	3.6								
G59.0	4.5	3.4								
G60.0	4.3	3.1								
G61.0	4.2	2.8								
G62.0	3.9	2.7								
G63.0	3.6	2.4								
G64.0	3.4	2.2								
G65.0	3.3	1.9								
G66.0	2.8	1.6								
G67.0	2.5	1.3								
G68.0	2.4	1.2								
G69.0	2.2	0.8								
G70.0	1.6	0.8								
G71.0	1.8	0.4								
G72.0	1.2	0.4								
G73.0	0.9	0.4								

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: 3.000 m

Humidity:

Inspector:

Unit: cd

[illegible]

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