

Report No.:

Test Time: 2025-08-07 16:29

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 52.05013 15D

Luminous Width (mm): -47

Current: 0.027 A

Power Factor: 0.560

Luminous Length (mm): -47

Voltage: 229.3 V

Power: 3.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 289.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H27.9

Vertical Diffuse Angle(50%): V27.9

Luminaire Efficacy Rating (LER): 82.68

Max. Intensity: 809.16 cd

S/MH(C0/C180): 0.47

Total Rated Lamp Lumens: 289.2 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 801.61 cd

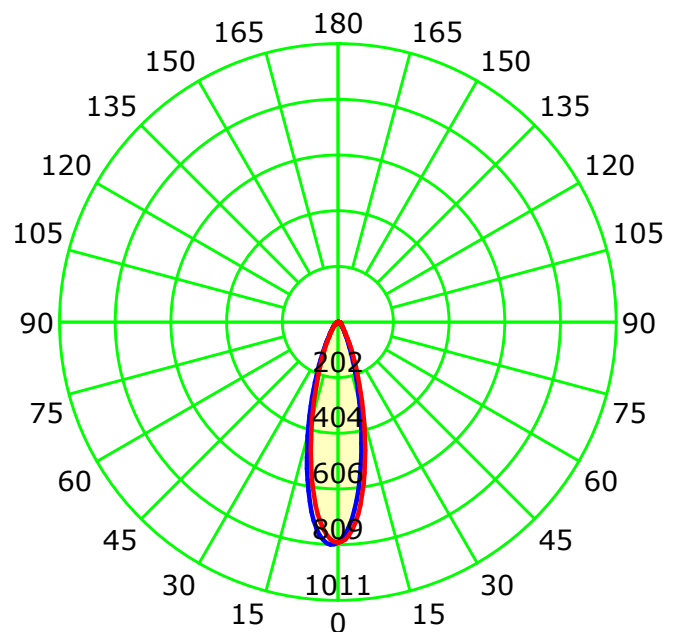
Pos of Max. Intensity: H180 V2

S/MH(C90/C270): 0.47

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

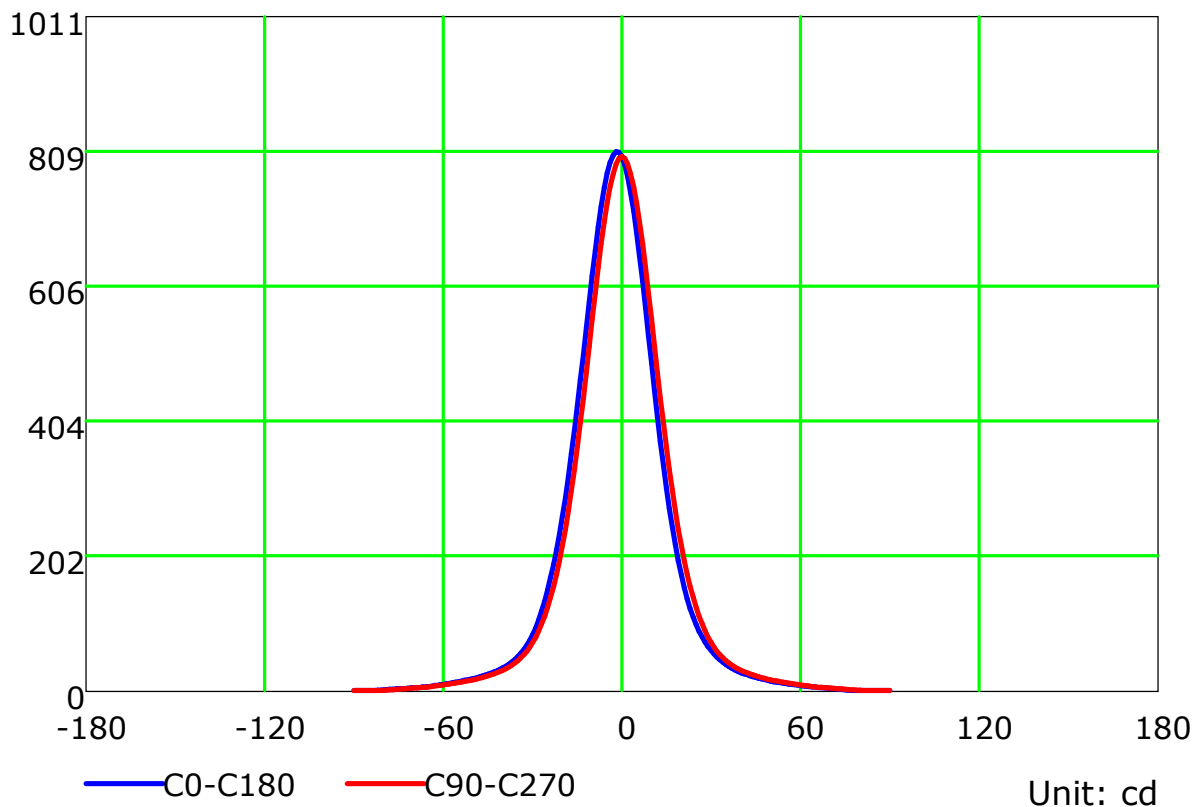
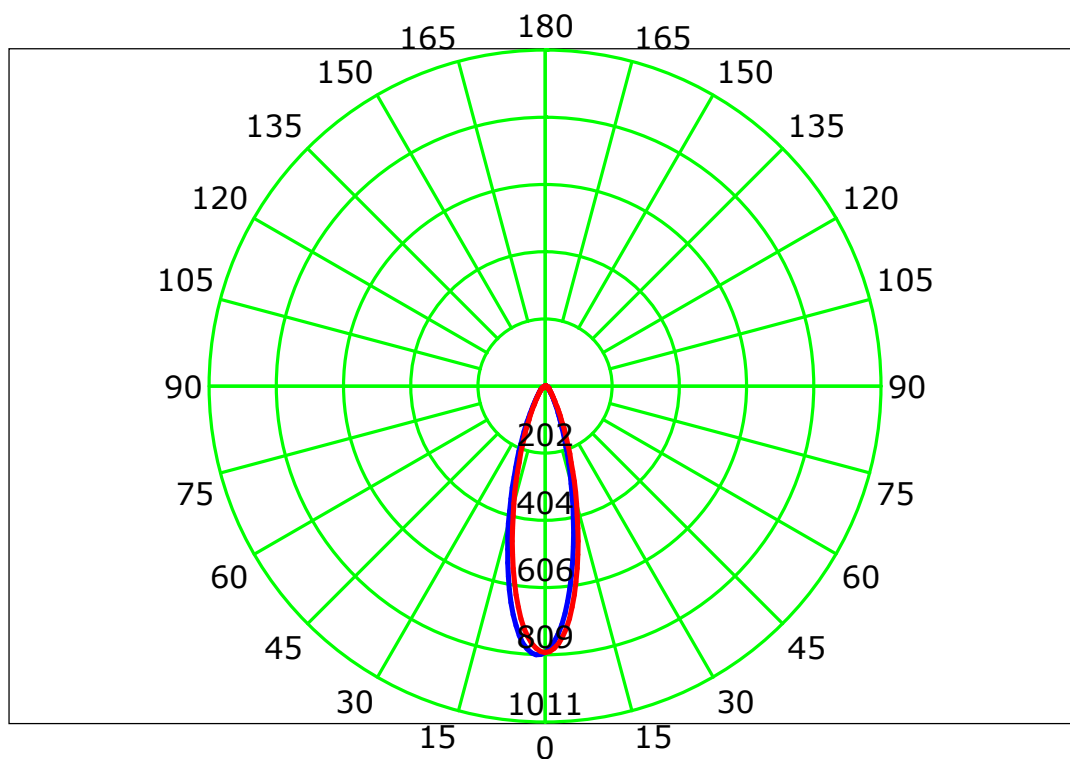
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

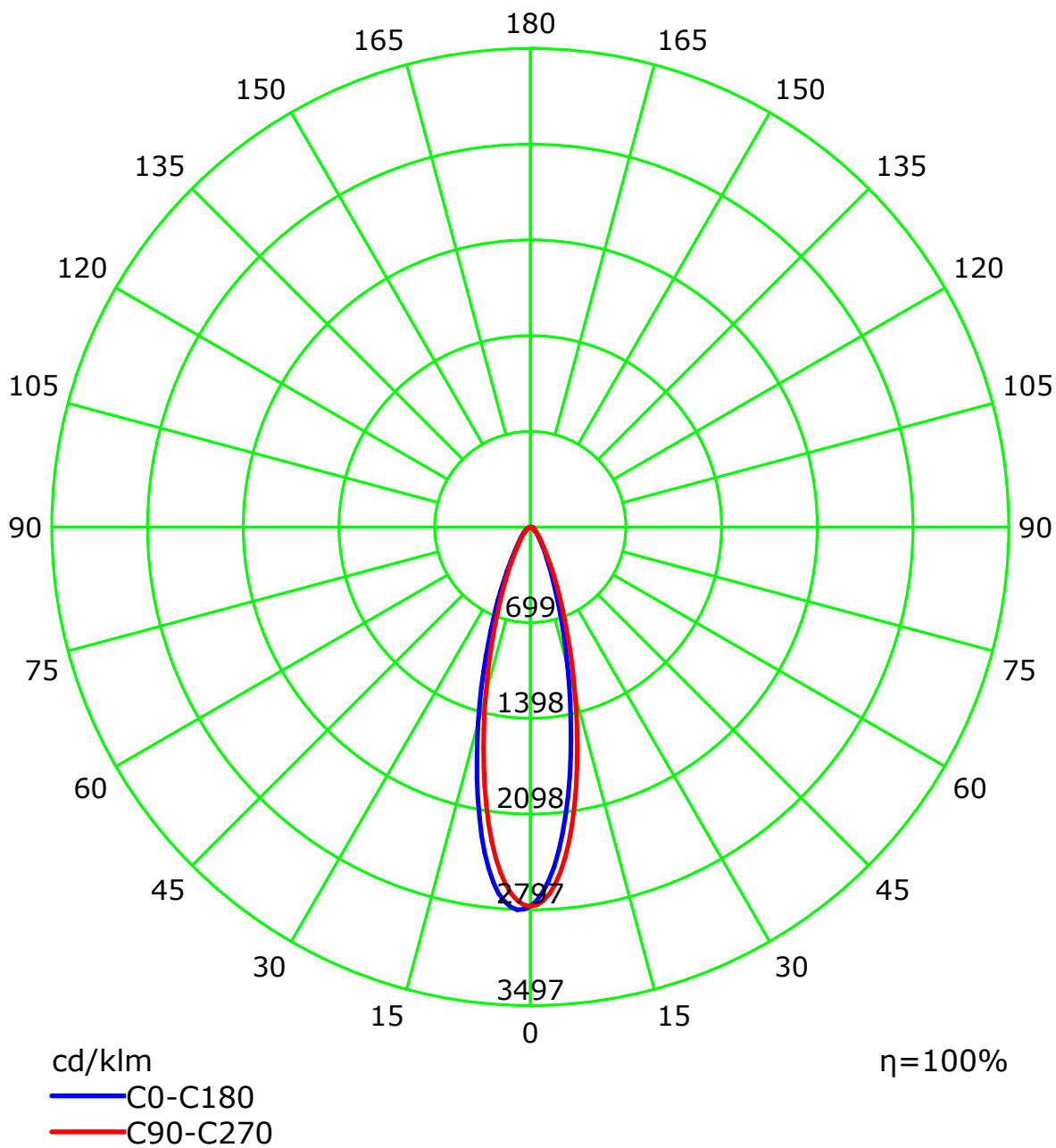
Luminous Intensity Distribution Curve



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:

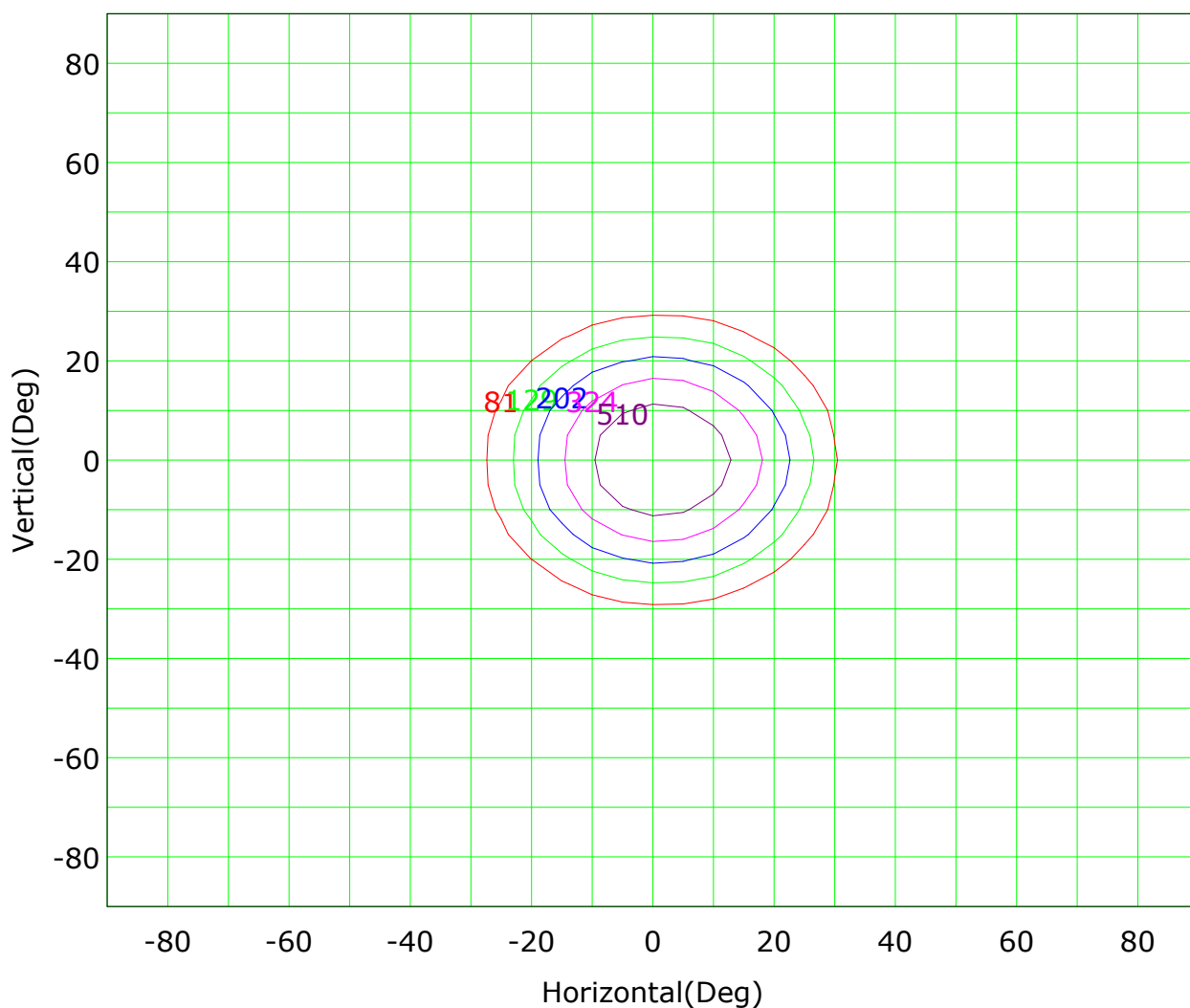
Luminous Intensity Distribution Curve(cd/klm)



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%): 809 cd

(10%): 81 cd	(16%): 129 cd
(25%): 202 cd	(40%): 324 cd
(63%): 510 cd	(100%): 809 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

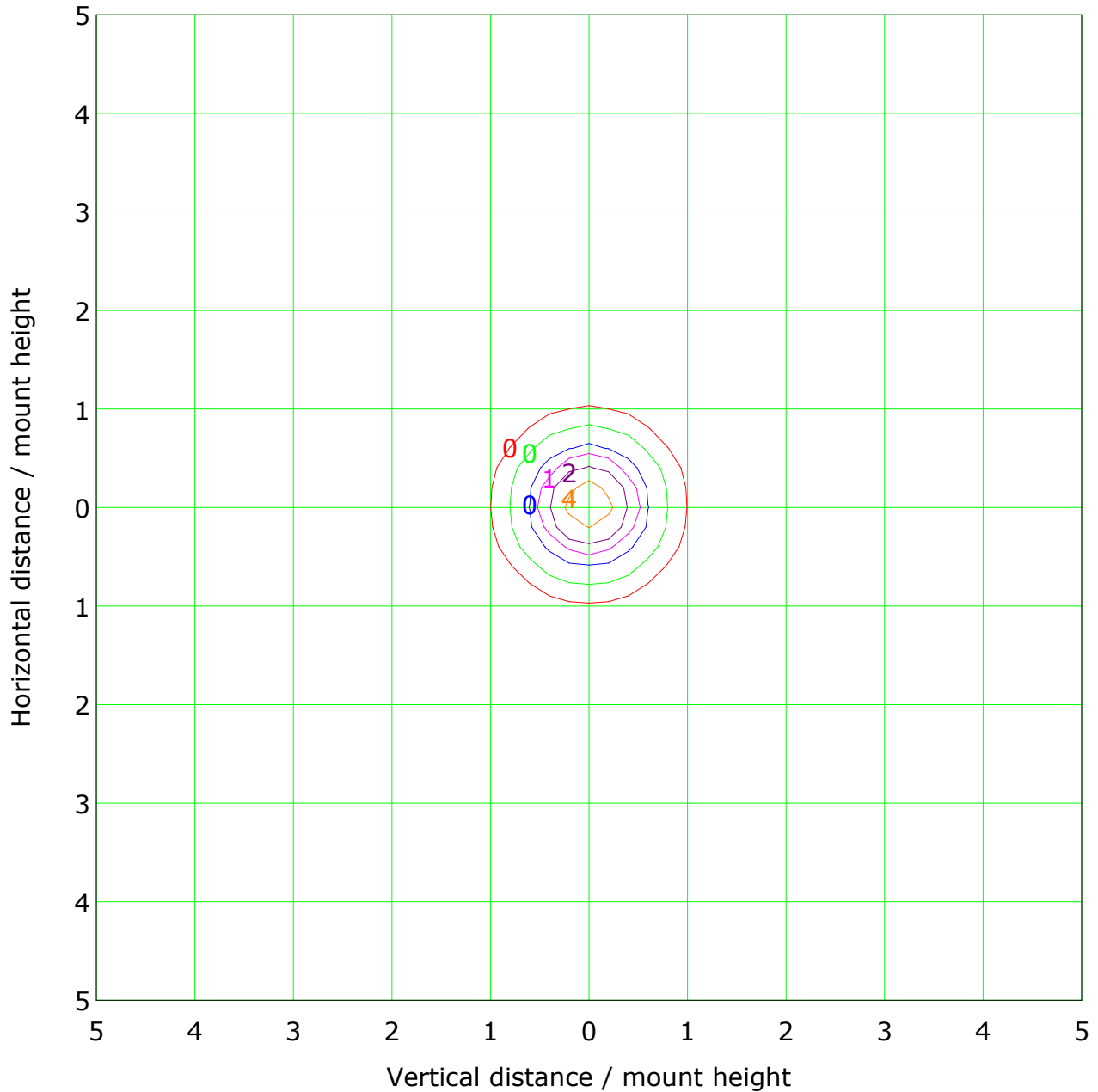
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 8.1 lx

(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.4 lx	(10%): 0.8 lx
(20%): 1.6 lx	(50%): 4.0 lx
(100%): 8.1 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

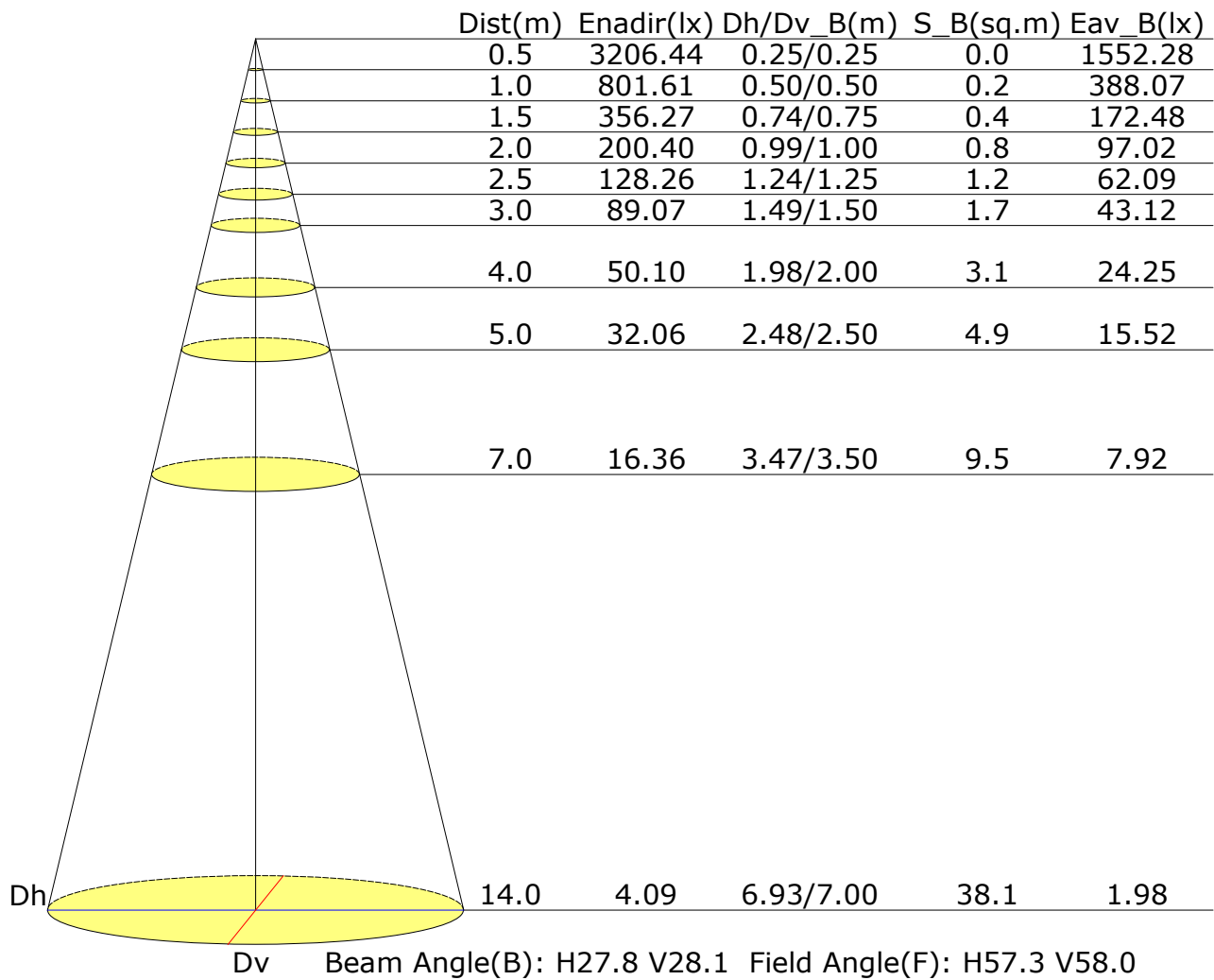
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Illuminance at a Distance



C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

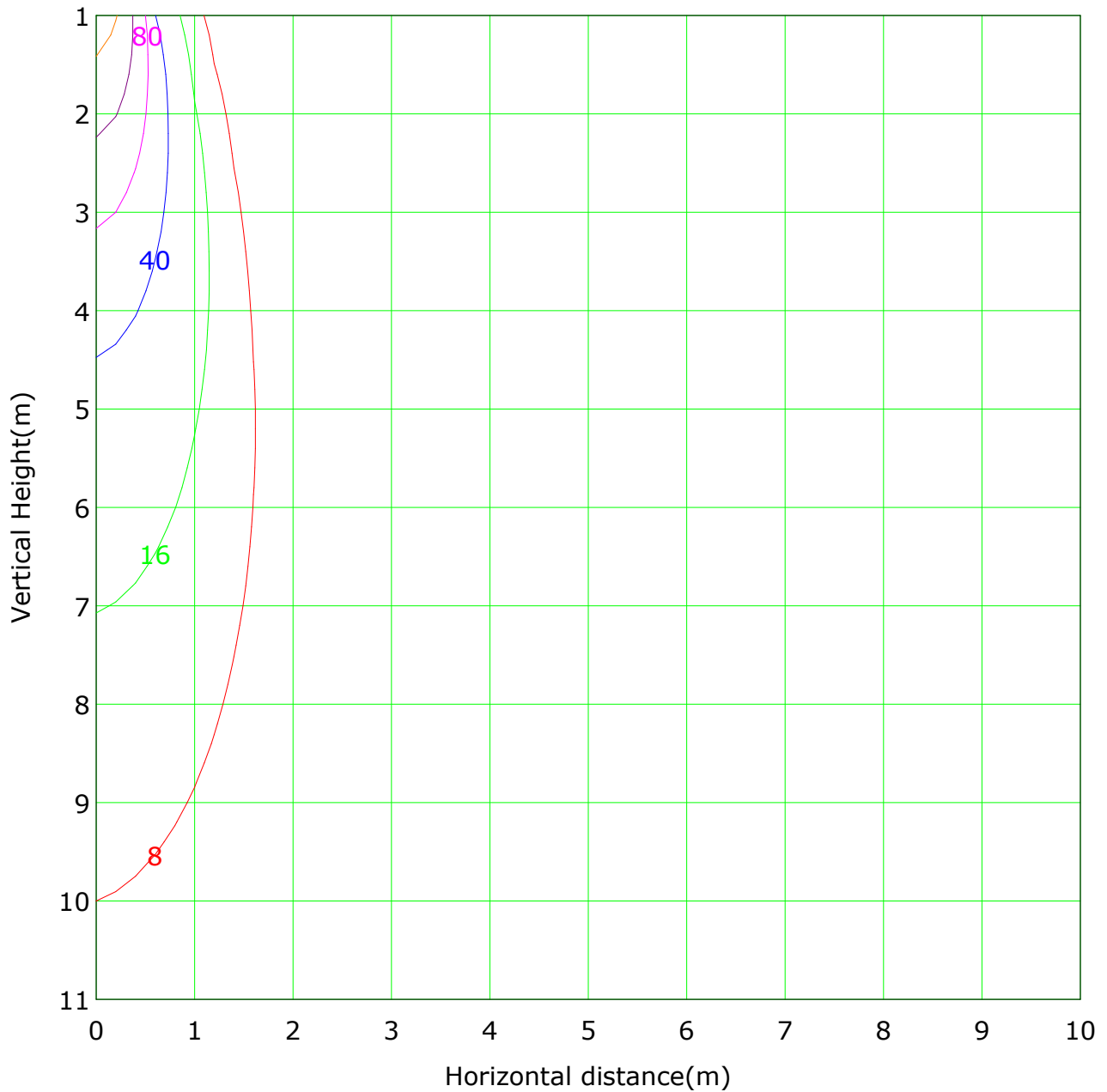
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 801.6 lx

— (1%): 8.0 lx	— (2%): 16.0 lx
— (5%): 40.1 lx	— (10%): 80.2 lx
— (20%): 160.3 lx	— (50%): 400.8 lx
— (100%): 801.6 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

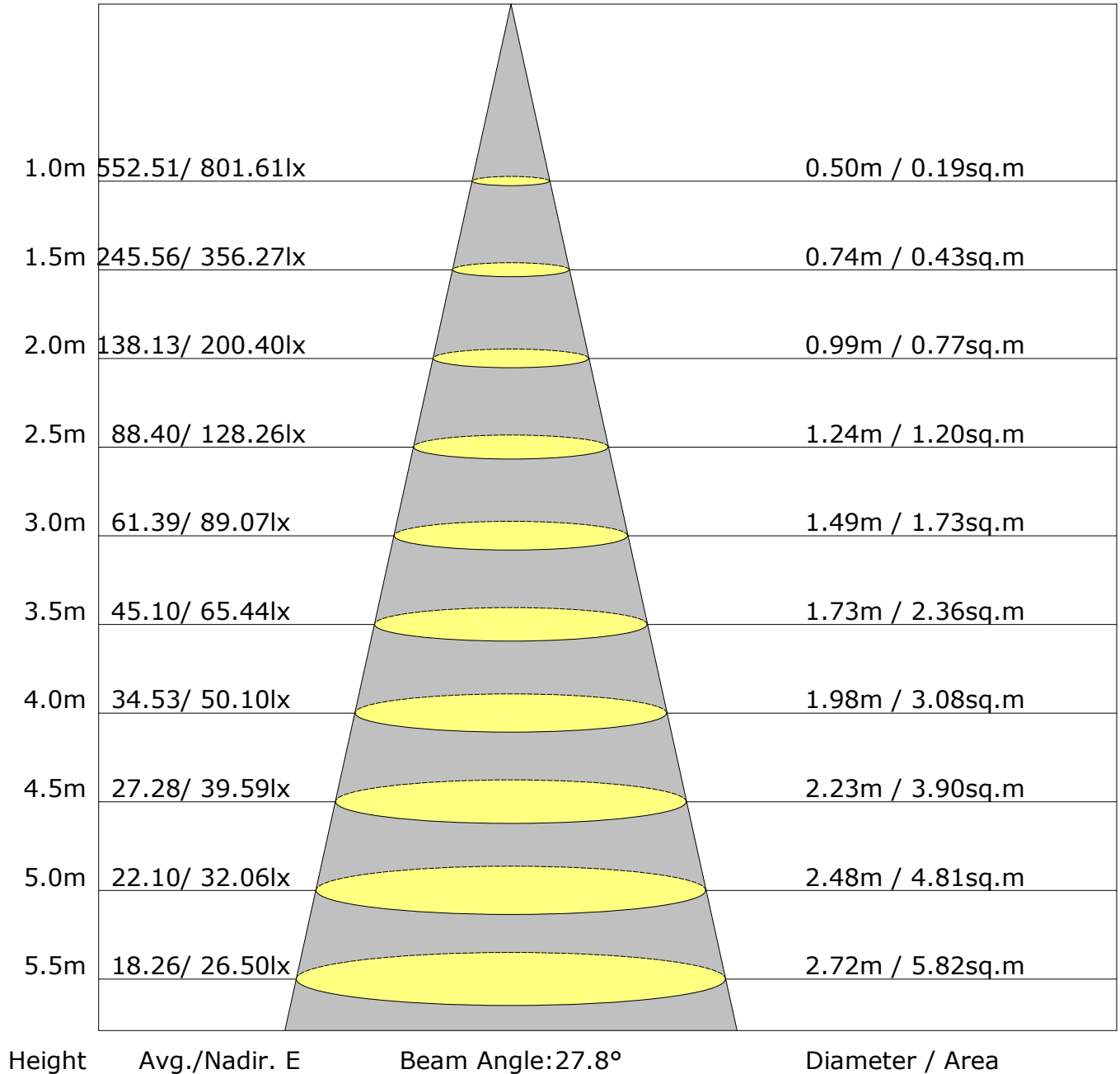
Humidity:

Inspector:

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

The Average Illuminance Effective Figure

Flux Out: 106.34lm



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	16.6	17.4	16.9	17.6	17.8	17.1	17.9	17.4	18.1	18.3
3H	17.1	17.9	17.4	18.1	18.3	17.6	18.3	17.9	18.6	18.8
4H	17.2	17.9	17.5	18.1	18.4	17.7	18.4	18.1	18.7	19.0
6H	17.1	17.8	17.5	18.0	18.3	17.7	18.4	18.1	18.6	18.9
8H	17.1	17.7	17.4	18.0	18.3	17.7	18.3	18.0	18.6	18.9
12H	17.0	17.6	17.4	17.9	18.3	17.7	18.2	18.0	18.6	18.9
X=4H Y=2H	16.9	17.6	17.2	17.8	18.1	17.3	18.0	17.6	18.3	18.5
3H	17.5	18.1	17.9	18.4	18.8	18.0	18.6	18.3	18.9	19.2
4H	17.6	18.1	18.0	18.5	18.8	18.1	18.6	18.5	19.0	19.3
6H	17.5	18.0	18.0	18.4	18.8	18.1	18.6	18.5	18.9	19.3
8H	17.5	17.9	17.9	18.3	18.7	18.1	18.5	18.5	18.9	19.3
12H	17.5	17.8	17.9	18.2	18.7	18.0	18.4	18.5	18.8	19.3
X=8H Y=4H	17.6	18.0	18.0	18.4	18.8	18.1	18.5	18.5	18.9	19.3
6H	17.5	17.9	18.0	18.3	18.7	18.1	18.4	18.5	18.8	19.3
8H	17.5	17.8	17.9	18.2	18.7	18.0	18.3	18.5	18.8	19.3
12H	17.4	17.7	17.9	18.2	18.7	18.0	18.3	18.5	18.7	19.2
X=12H Y=4H	17.6	17.9	18.0	18.4	18.8	18.0	18.4	18.5	18.8	19.3
6H	17.5	17.8	18.0	18.2	18.7	18.0	18.3	18.5	18.8	19.3
8H	17.4	17.7	17.9	18.2	18.7	18.0	18.3	18.5	18.7	19.2
Variations with the observer position at spacings:										
S=1.0H	+0.9/-1.1					+1.0/-1.0				
S=1.5H	+2.1/-2.1					+2.3/-1.9				
S=2.0H	+3.5/-3.0					+3.7/-2.8				

Calculate in accordance with CIE Pub.117. The table is revised with 289lm ($8\log(F/F_0) = -4.3$).

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	134	46.4
	FL (0°-30°)	104	35.8
	FM (30°-60°)	27	9.3
	FH (60°-80°)	4	1.3
	FVH (80°-90°)	0	0.0
	BACK LIGHT	155	53.6
	BL (0°-30°)	120	41.5
	BM (30°-60°)	30	10.5
	BH (60°-80°)	4	1.5
	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: 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	800.2	0.8	0.8	0.26	0.26
1.0-2.0	794.5	2.3	3.0	0.79	1.05
2.0-3.0	783.1	3.7	6.8	1.30	2.35
3.0-4.0	766.1	5.1	11.9	1.77	4.12
4.0-5.0	744.1	6.4	18.3	2.21	6.34
5.0-6.0	717.8	7.5	25.9	2.61	8.94
6.0-7.0	686.9	8.5	34.4	2.95	11.89
7.0-8.0	652.6	9.3	43.7	3.23	15.12
8.0-9.0	615.6	10.0	53.7	3.45	18.57
9.0-10.0	576.7	10.4	64.2	3.61	22.18
10.0-11.0	536.8	10.7	74.9	3.71	25.89
11.0-12.0	497.0	10.9	85.7	3.76	29.65
12.0-13.0	458.2	10.9	96.6	3.76	33.41
13.0-14.0	420.5	10.8	107.4	3.72	37.13
14.0-15.0	384.1	10.5	117.9	3.65	40.78
15.0-16.0	349.3	10.2	128.2	3.54	44.32
16.0-17.0	316.2	9.8	138.0	3.41	47.72
17.0-18.0	285.2	9.4	147.4	3.25	50.97
18.0-19.0	256.4	8.9	156.3	3.08	54.06
19.0-20.0	229.9	8.4	164.8	2.91	56.97
20.0-21.0	206.0	7.9	172.7	2.74	59.71
21.0-22.0	184.6	7.4	180.1	2.57	62.27
22.0-23.0	165.4	6.9	187.0	2.40	64.67
23.0-24.0	148.1	6.5	193.5	2.24	66.91
24.0-25.0	132.5	6.0	199.5	2.08	68.99
25.0-26.0	118.5	5.6	205.1	1.93	70.93
26.0-27.0	105.9	5.2	210.3	1.79	72.72
27.0-28.0	94.7	4.8	215.1	1.66	74.38
28.0-29.0	84.8	4.4	219.5	1.53	75.91
29.0-30.0	76.1	4.1	223.6	1.42	77.33
30.0-31.0	68.7	3.8	227.5	1.32	78.65
31.0-32.0	62.2	3.6	231.0	1.23	79.89
32.0-33.0	56.5	3.3	234.4	1.15	81.04
33.0-34.0	51.6	3.1	237.5	1.08	82.12
34.0-35.0	47.2	2.9	240.4	1.01	83.13
35.0-36.0	43.3	2.8	243.2	0.95	84.08

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	39.9	2.6	245.8	0.90	84.98
37.0-38.0	36.9	2.5	248.2	0.85	85.84
38.0-39.0	34.1	2.3	250.6	0.81	86.64
39.0-40.0	31.7	2.2	252.8	0.76	87.40
40.0-41.0	29.5	2.1	254.9	0.73	88.13
41.0-42.0	27.8	2.0	256.9	0.70	88.83
42.0-43.0	26.0	1.9	258.8	0.67	89.50
43.0-44.0	24.4	1.8	260.7	0.64	90.13
44.0-45.0	23.0	1.8	262.4	0.61	90.75
45.0-46.0	21.6	1.7	264.1	0.58	91.33
46.0-47.0	20.2	1.6	265.7	0.56	91.89
47.0-48.0	19.0	1.5	267.3	0.53	92.42
48.0-49.0	17.9	1.5	268.7	0.51	92.93
49.0-50.0	16.7	1.4	270.1	0.48	93.41
50.0-51.0	15.7	1.3	271.5	0.46	93.87
51.0-52.0	14.9	1.3	272.8	0.44	94.31
52.0-53.0	14.2	1.2	274.0	0.43	94.74
53.0-54.0	13.3	1.2	275.2	0.41	95.14
54.0-55.0	12.5	1.1	276.3	0.39	95.53
55.0-56.0	11.7	1.1	277.3	0.37	95.89
56.0-57.0	11.0	1.0	278.3	0.35	96.24
57.0-58.0	10.3	1.0	279.3	0.33	96.57
58.0-59.0	9.6	0.9	280.2	0.31	96.88
59.0-60.0	8.8	0.8	281.0	0.29	97.17
60.0-61.0	8.2	0.8	281.8	0.27	97.44
61.0-62.0	7.6	0.7	282.5	0.25	97.70
62.0-63.0	7.1	0.7	283.2	0.24	97.94
63.0-64.0	6.5	0.6	283.9	0.22	98.16
64.0-65.0	5.9	0.6	284.5	0.20	98.36
65.0-66.0	5.5	0.5	285.0	0.19	98.55
66.0-67.0	5.1	0.5	285.5	0.18	98.73
67.0-68.0	4.7	0.5	286.0	0.16	98.89
68.0-69.0	4.3	0.4	286.4	0.15	99.04
69.0-70.0	4.1	0.4	286.9	0.14	99.19
70.0-71.0	3.8	0.4	287.3	0.14	99.32
71.0-72.0	3.5	0.4	287.6	0.12	99.45

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	801.6	801.6								
G1.0	789.4	808.0								
G2.0	771.3	809.2								
G3.0	748.0	803.8								
G4.0	719.9	792.4								
G5.0	687.3	776.8								
G6.0	652.4	754.6								
G7.0	614.2	726.5								
G8.0	574.2	695.3								
G9.0	532.8	660.2								
G10.0	491.4	622.5								
G11.0	450.0	583.2								
G12.0	410.9	544.0								
G13.0	373.5	504.4								
G14.0	338.0	466.0								
G15.0	304.5	428.1								
G16.0	273.5	391.1								
G17.0	244.9	355.4								
G18.0	219.1	321.4								
G19.0	195.2	289.9								
G20.0	173.6	261.0								
G21.0	154.7	234.8								
G22.0	137.9	211.0								
G23.0	123.1	189.5								
G24.0	110.1	169.8								
G25.0	99.0	151.2								
G26.0	89.1	134.5								
G27.0	80.7	119.3								
G28.0	73.0	105.9								
G29.0	66.2	94.1								
G30.0	60.4	83.9								
G31.0	55.2	75.4								
G32.0	50.3	67.8								
G33.0	46.2	61.5								
G34.0	42.7	55.9								
G35.0	39.2	51.0								
G36.0	36.1	47.0								

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	33.6	43.1								
G38.0	31.2	39.6								
G39.0	29.1	36.6								
G40.0	26.9	34.1								
G41.0	25.5	31.8								
G42.0	24.0	29.8								
G43.0	22.4	28.0								
G44.0	21.1	26.3								
G45.0	20.0	24.6								
G46.0	18.6	23.2								
G47.0	17.3	21.8								
G48.0	16.4	20.6								
G49.0	15.4	19.2								
G50.0	14.4	18.0								
G51.0	13.4	17.1								
G52.0	12.9	16.2								
G53.0	12.2	15.4								
G54.0	11.3	14.4								
G55.0	10.8	13.4								
G56.0	10.1	12.6								
G57.0	9.4	11.9								
G58.0	8.9	11.1								
G59.0	8.3	10.2								
G60.0	7.6	9.4								
G61.0	7.1	8.7								
G62.0	6.7	8.0								
G63.0	6.2	7.7								
G64.0	5.6	6.7								
G65.0	5.3	6.2								
G66.0	4.8	5.7								
G67.0	4.5	5.3								
G68.0	4.2	4.8								
G69.0	3.9	4.5								
G70.0	3.4	4.5								
G71.0	3.4	4.1								
G72.0	2.8	3.6								
G73.0	2.2	3.4								

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:

Unit: cd

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