

Report No.:

Test Time: 2025-10-10 19:48

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 40D

Luminous Width (mm): -15

Current: 0.124 A

Power Factor: 0.963

Luminous Length (mm): -815

Voltage: 235.7 V

Power: 28.30 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2353.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H37.1

Vertical Diffuse Angle(50%): V37.1

Luminaire Efficacy Rating (LER): 83.22

Max. Intensity: 5669.17 cd

S/MH(C0/C180): 0.61

Total Rated Lamp Lumens: 2353.8 lm

Efficiency: 100%

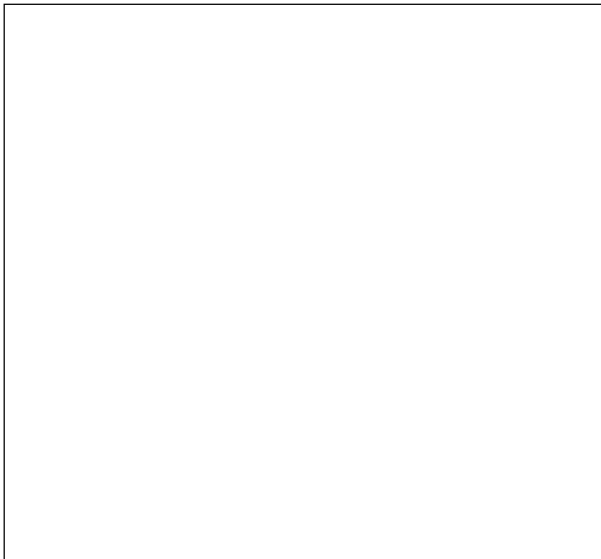
Upward Ratio: 0%

Central Intensity: 5669.17 cd

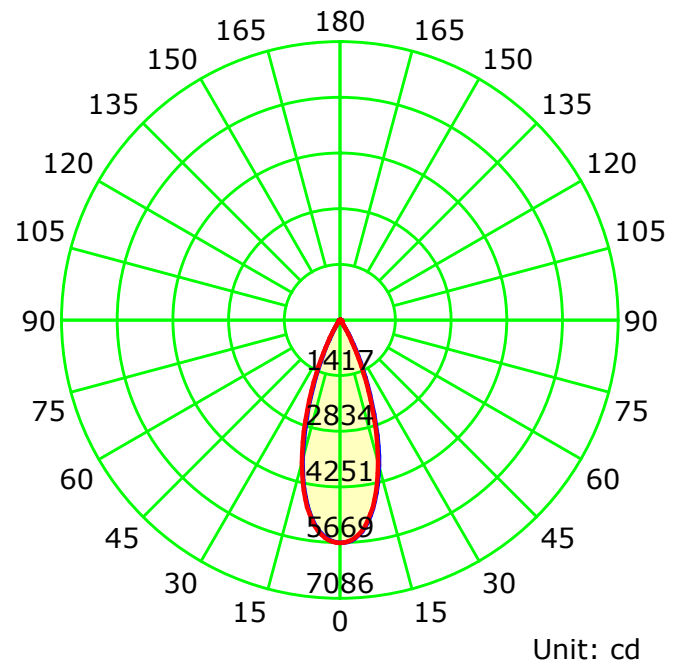
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.61

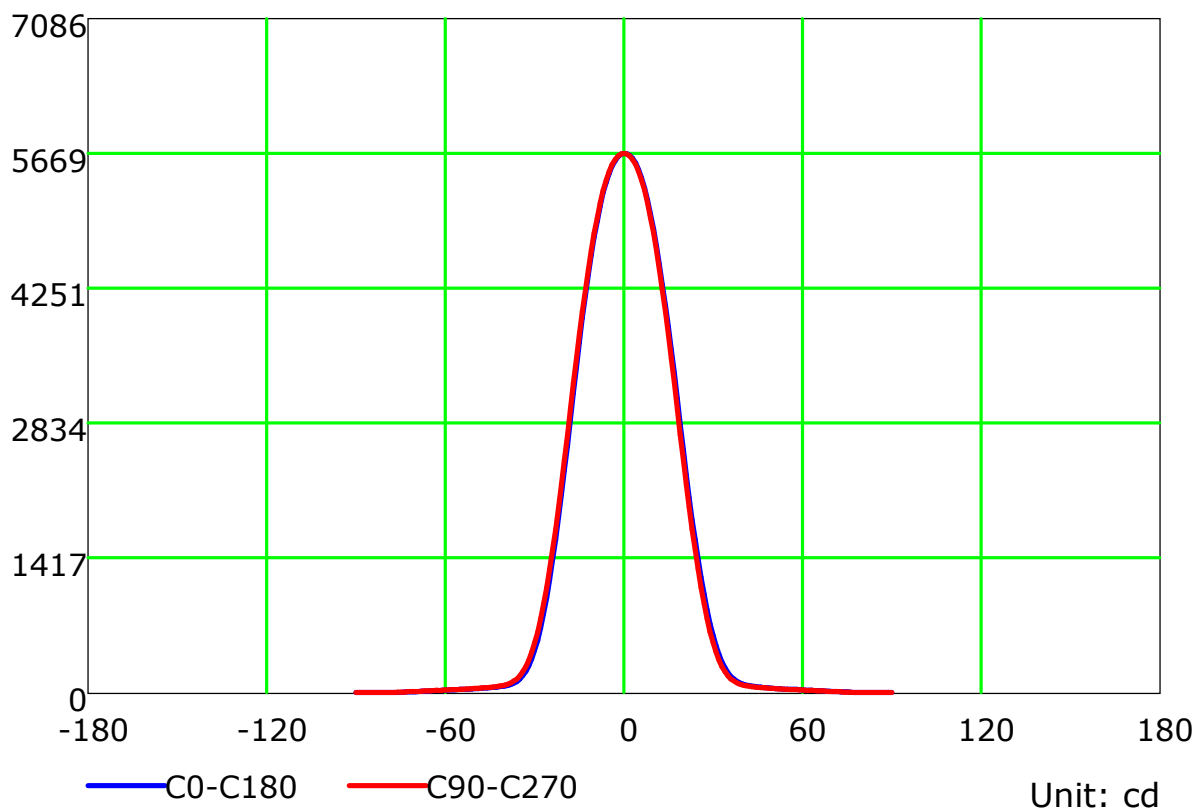
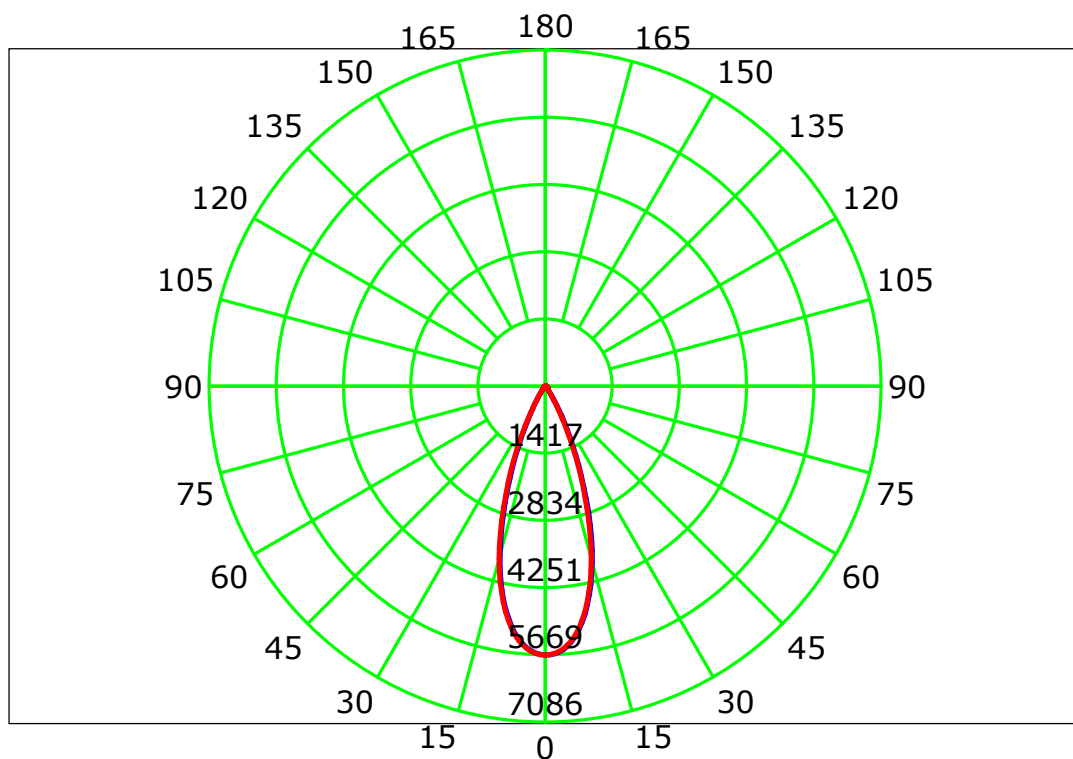
Picture Of Luminaire



Luminous Intensity Distribution Curve



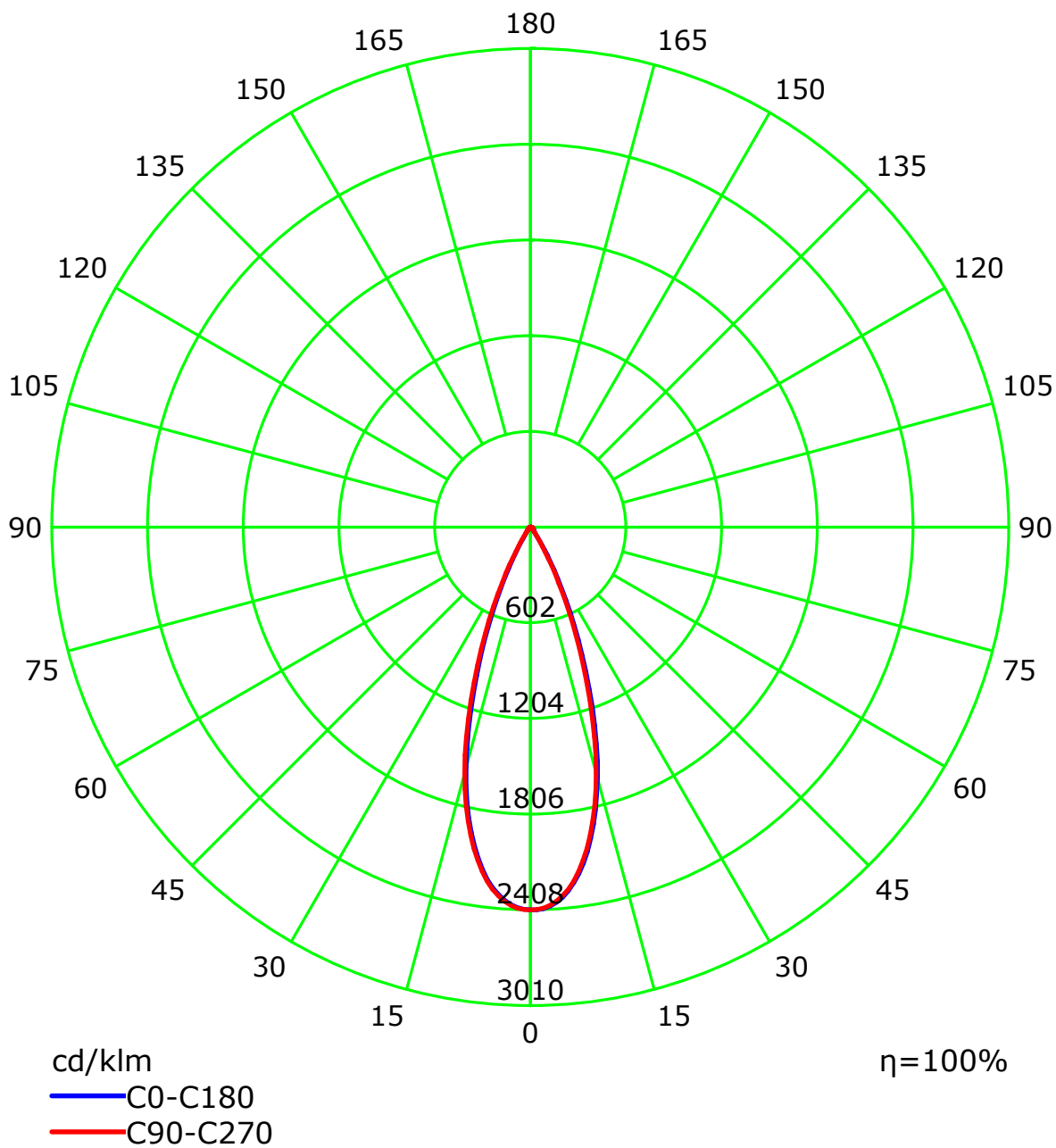
Luminous Intensity Distribution Curve



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: 2.905 m
Humidity:
Inspector:

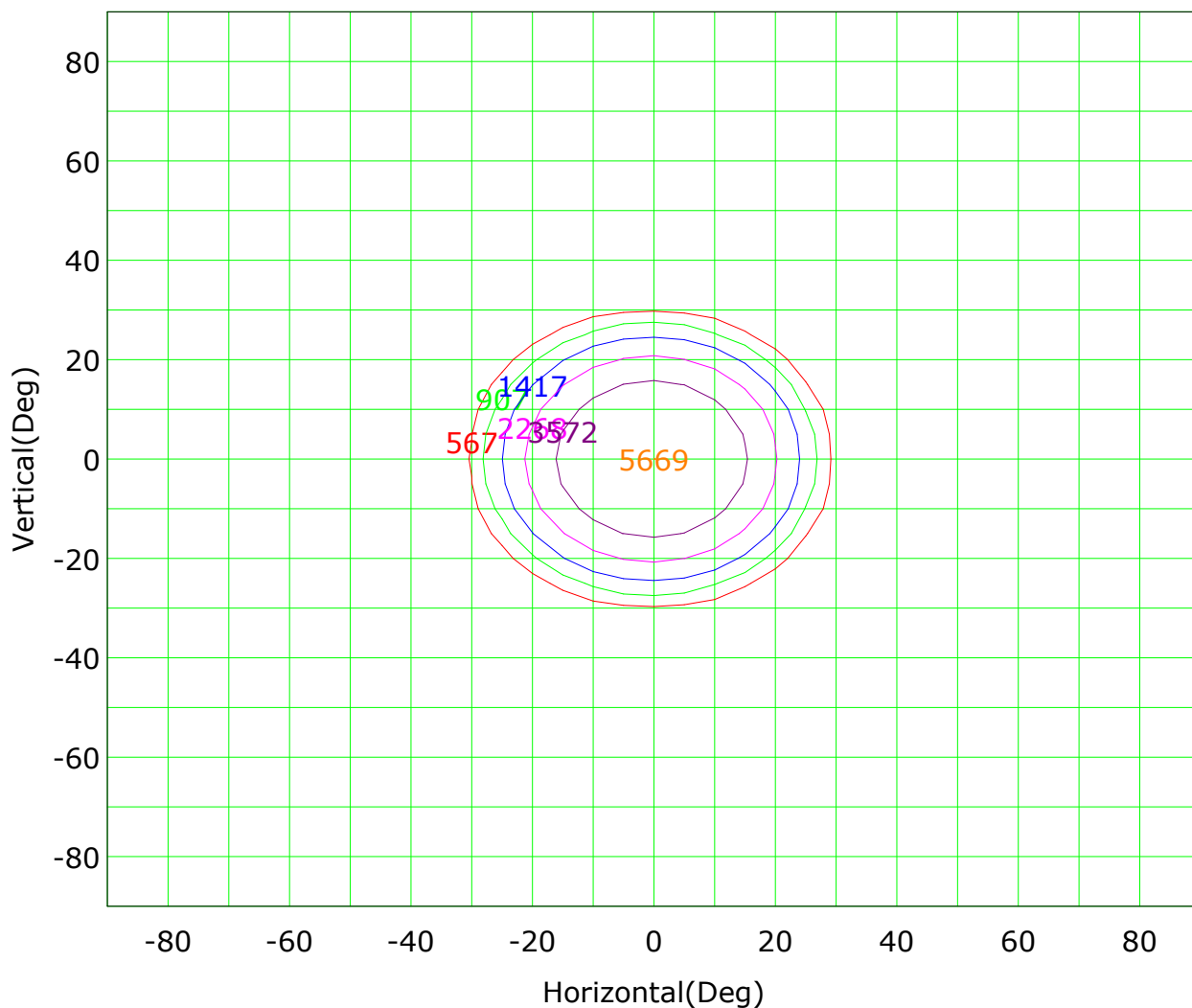
Luminous Intensity Distribution Curve(cd/klm)



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)



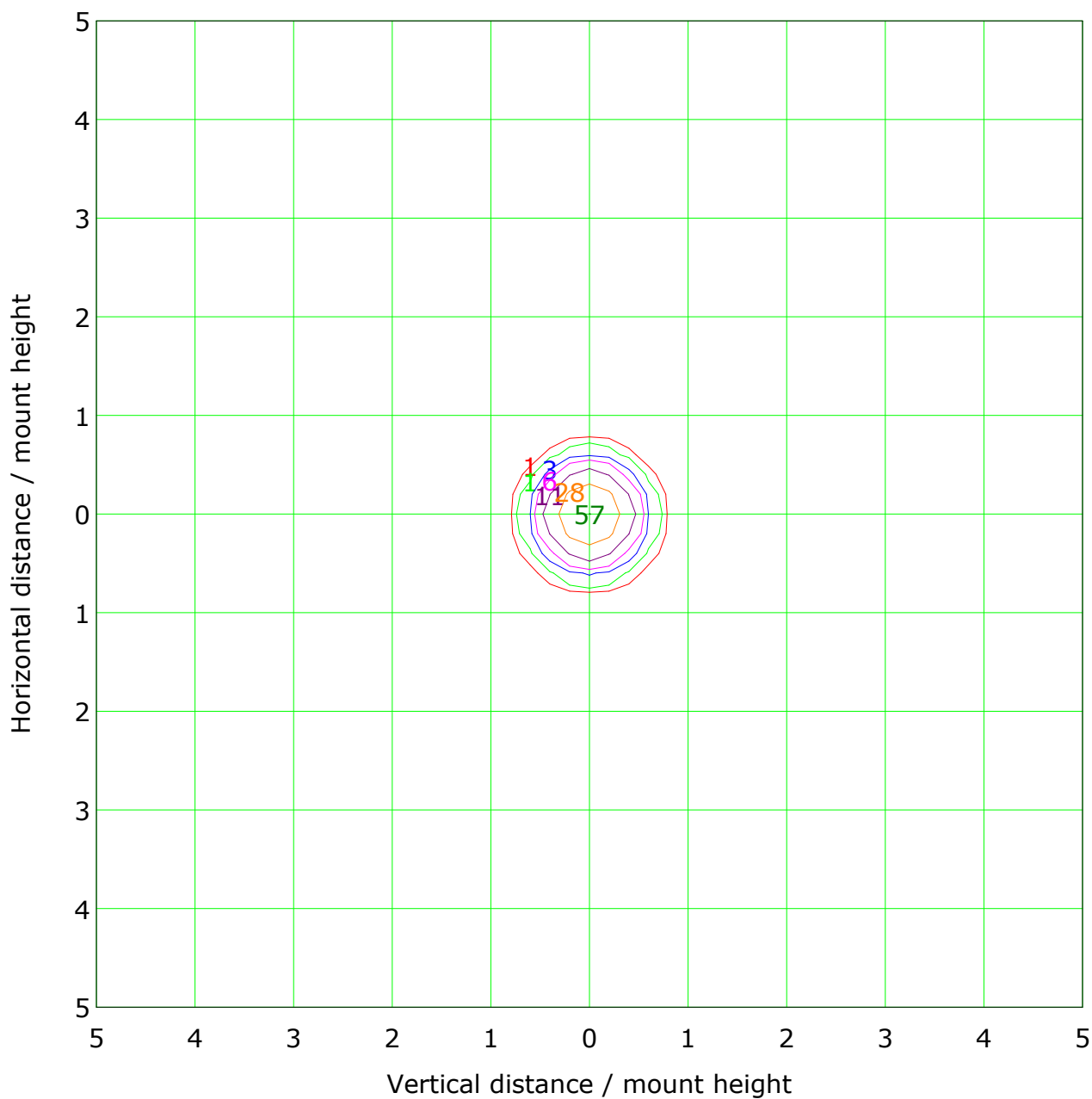
Imax (100%): 5669 cd

(10%): 567 cd	(16%): 907 cd
(25%): 1417 cd	(40%): 2268 cd
(63%): 3572 cd	(100%): 5669 cd

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

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

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 56.7 lx

(1%): 0.6 lx	(2%): 1.1 lx
(5%): 2.8 lx	(10%): 5.7 lx
(20%): 11.3 lx	(50%): 28.3 lx
(100%): 56.7 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

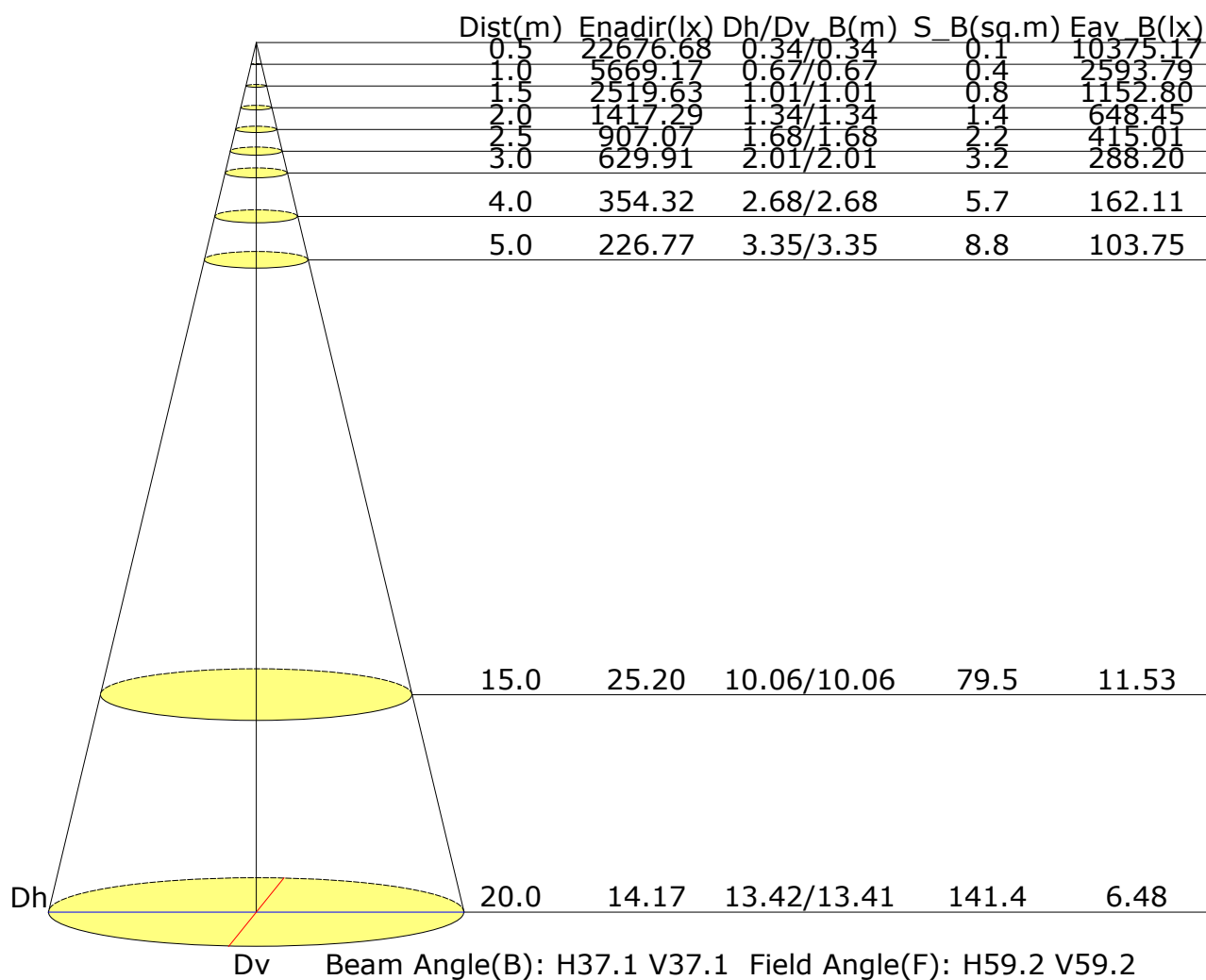
Test Device: CHL-6E

Distance: 2.905 m

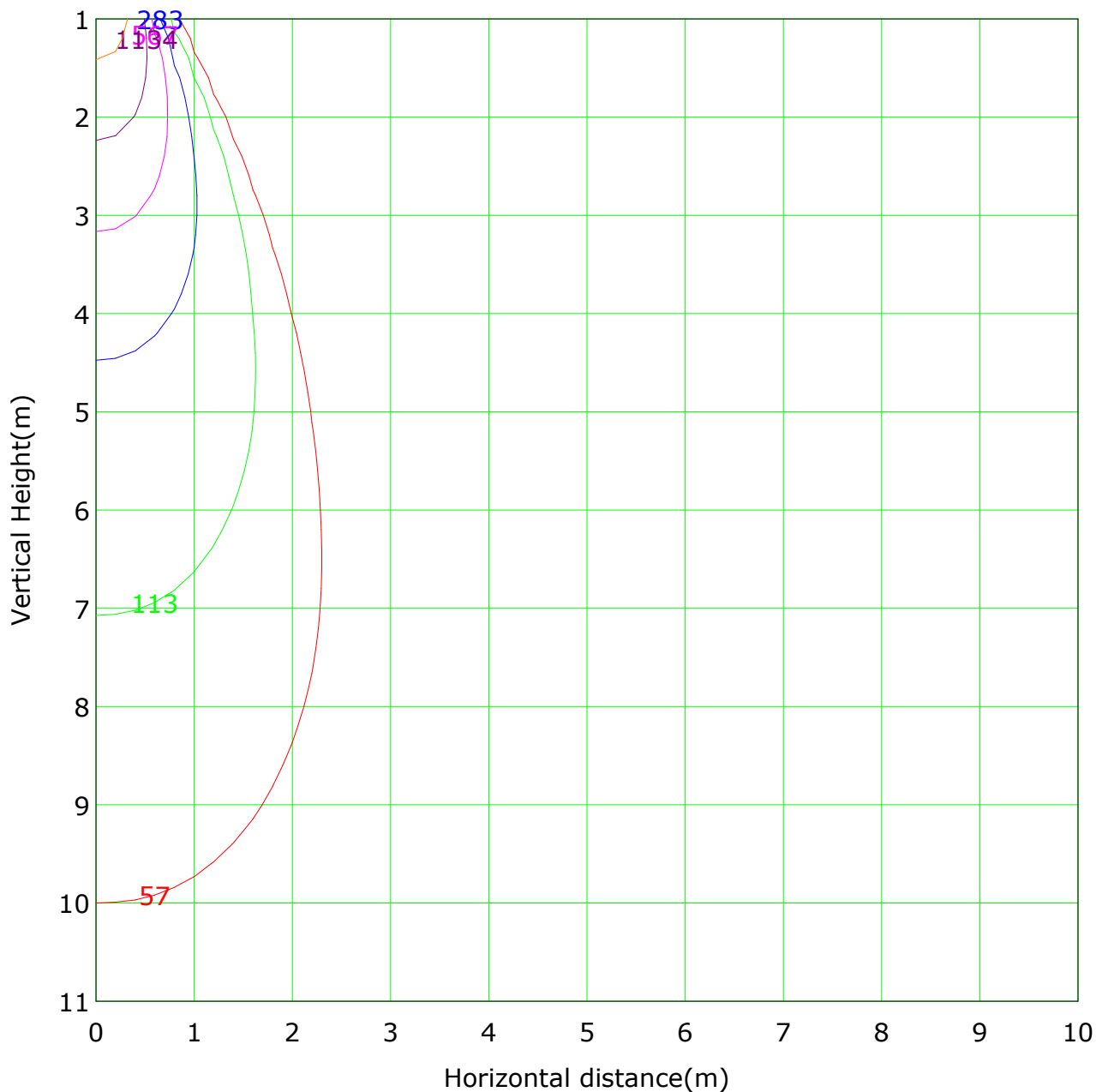
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



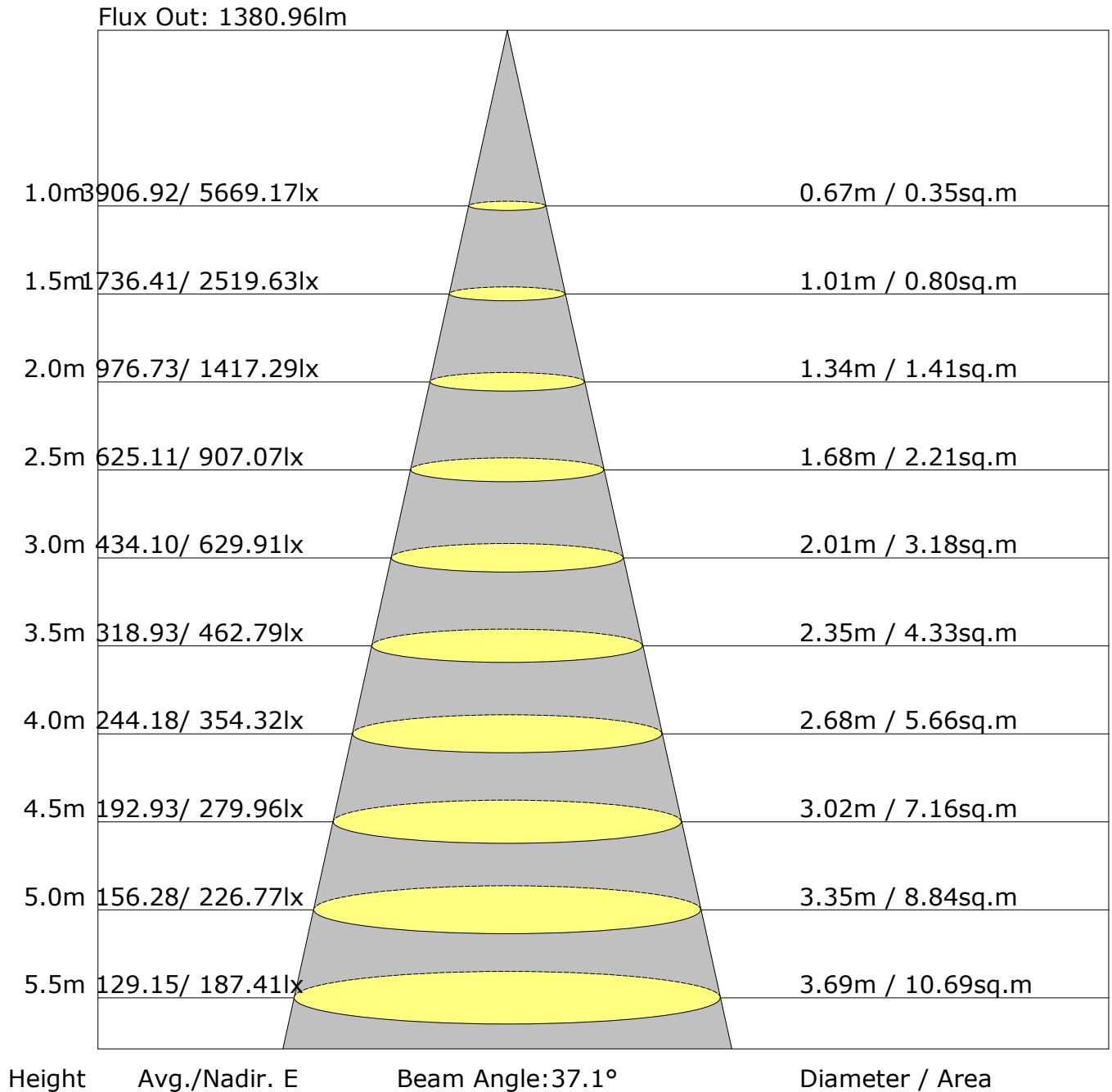
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5669.2 lx
— (1%): 56.7 lx — (2%): 113.4 lx
— (5%): 283.5 lx — (10%): 566.9 lx
— (20%): 1133.8 lx — (50%): 2834.6 lx
— (100%): 5669.2 lx

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



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	13.1	13.8	13.3	14.0	14.2	12.6	13.3	12.8	13.5	13.7
3H	13.5	14.2	13.8	14.4	14.6	13.1	13.7	13.3	13.9	14.2
4H	13.6	14.2	13.9	14.5	14.7	13.1	13.7	13.4	14.0	14.2
6H	13.5	14.1	13.9	14.4	14.7	13.0	13.6	13.4	13.9	14.2
8H	13.5	14.1	13.8	14.3	14.6	13.0	13.6	13.3	13.8	14.2
12H	13.5	14.0	13.8	14.3	14.6	13.0	13.5	13.3	13.8	14.1
X=4H Y=2H	13.2	13.8	13.5	14.1	14.4	12.8	13.4	13.1	13.7	14.0
3H	13.8	14.3	14.2	14.6	15.0	13.4	13.9	13.8	14.2	14.6
4H	13.9	14.4	14.3	14.7	15.1	13.5	13.9	13.9	14.3	14.6
6H	13.9	14.3	14.3	14.6	15.0	13.4	13.8	13.8	14.2	14.6
8H	13.8	14.2	14.2	14.6	15.0	13.4	13.7	13.8	14.1	14.5
12H	13.8	14.1	14.2	14.5	14.9	13.3	13.6	13.7	14.1	14.5
X=8H Y=4H	13.9	14.3	14.3	14.6	15.0	13.4	13.8	13.9	14.2	14.6
6H	13.8	14.1	14.2	14.5	15.0	13.3	13.7	13.8	14.1	14.5
8H	13.7	14.0	14.2	14.5	14.9	13.3	13.6	13.8	14.0	14.5
12H	13.7	13.9	14.2	14.4	14.9	13.3	13.5	13.7	14.0	14.5
X=12H Y=4H	13.8	14.2	14.3	14.6	15.0	13.4	13.7	13.8	14.1	14.6
6H	13.7	14.0	14.2	14.5	14.9	13.3	13.6	13.8	14.0	14.5
8H	13.7	13.9	14.2	14.4	14.9	13.3	13.5	13.7	14.0	14.5
Variations with the observer position at spacings:										
S=1.0H	+3.3/-1.7					+3.0/-1.6				
S=1.5H	+5.6/-2.4					+5.2/-2.4				
S=2.0H	+7.4/-3.5					+7.0/-3.4				

Calculate in accordance with CIE Pub.117. The table is revised with 2354lm ($8\log(F/F_0) = 3.0$).

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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	1203	51.1
	FL (0°-30°)	1079	45.8
	FM (30°-60°)	111	4.7
	FH (60°-80°)	13	0.6
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1151	48.9
	BL (0°-30°)	1042	44.3
	BM (30°-60°)	97	4.1
	BH (60°-80°)	12	0.5
	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)	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	5666.4	5.4	5.4	0.23	0.23
1.0-2.0	5654.1	16.2	21.7	0.69	0.92
2.0-3.0	5626.0	26.9	48.6	1.14	2.06
3.0-4.0	5580.3	37.4	85.9	1.59	3.65
4.0-5.0	5516.8	47.5	133.4	2.02	5.67
5.0-6.0	5436.1	57.1	190.5	2.43	8.09
6.0-7.0	5336.4	66.2	256.8	2.81	10.91
7.0-8.0	5214.2	74.6	331.4	3.17	14.08
8.0-9.0	5071.6	82.2	413.6	3.49	17.57
9.0-10.0	4913.7	88.9	502.5	3.78	21.35
10.0-11.0	4739.2	94.7	597.3	4.02	25.37
11.0-12.0	4546.8	99.4	696.7	4.22	29.60
12.0-13.0	4340.4	103.0	799.7	4.38	33.97
13.0-14.0	4119.5	105.5	905.1	4.48	38.45
14.0-15.0	3886.4	106.7	1011.8	4.53	42.99
15.0-16.0	3641.7	106.7	1118.6	4.53	47.52
16.0-17.0	3383.3	105.4	1223.9	4.48	52.00
17.0-18.0	3116.1	102.8	1326.7	4.37	56.37
18.0-19.0	2845.1	99.0	1425.7	4.21	60.57
19.0-20.0	2577.3	94.3	1520.0	4.01	64.58
20.0-21.0	2317.4	89.0	1609.0	3.78	68.36
21.0-22.0	2067.8	83.1	1692.1	3.53	71.89
22.0-23.0	1830.9	76.8	1769.0	3.26	75.16
23.0-24.0	1607.6	70.3	1839.3	2.99	78.14
24.0-25.0	1398.0	63.6	1902.8	2.70	80.84
25.0-26.0	1201.0	56.7	1959.5	2.41	83.25
26.0-27.0	1018.5	49.8	2009.4	2.12	85.37
27.0-28.0	853.1	43.2	2052.6	1.84	87.20
28.0-29.0	706.7	37.0	2089.6	1.57	88.78
29.0-30.0	580.7	31.4	2120.9	1.33	90.11
30.0-31.0	474.0	26.4	2147.3	1.12	91.23
31.0-32.0	383.7	22.0	2169.3	0.93	92.16
32.0-33.0	308.6	18.2	2187.5	0.77	92.94
33.0-34.0	247.5	15.0	2202.4	0.64	93.57
34.0-35.0	199.4	12.4	2214.8	0.53	94.10
35.0-36.0	161.1	10.3	2225.1	0.44	94.53

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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	132.7	8.7	2233.7	0.37	94.90
37.0-38.0	111.6	7.5	2241.2	0.32	95.22
38.0-39.0	95.1	6.5	2247.7	0.28	95.49
39.0-40.0	83.9	5.9	2253.5	0.25	95.74
40.0-41.0	75.5	5.4	2258.9	0.23	95.97
41.0-42.0	70.2	5.1	2264.0	0.22	96.19
42.0-43.0	65.6	4.9	2268.9	0.21	96.39
43.0-44.0	61.4	4.6	2273.5	0.20	96.59
44.0-45.0	57.9	4.5	2278.0	0.19	96.78
45.0-46.0	54.4	4.3	2282.2	0.18	96.96
46.0-47.0	52.3	4.2	2286.4	0.18	97.14
47.0-48.0	49.5	4.0	2290.4	0.17	97.31
48.0-49.0	46.7	3.8	2294.2	0.16	97.47
49.0-50.0	44.9	3.7	2298.0	0.16	97.63
50.0-51.0	42.5	3.6	2301.6	0.15	97.78
51.0-52.0	39.7	3.4	2305.0	0.14	97.93
52.0-53.0	37.9	3.3	2308.3	0.14	98.07
53.0-54.0	36.2	3.2	2311.5	0.14	98.20
54.0-55.0	35.1	3.1	2314.6	0.13	98.34
55.0-56.0	34.1	3.1	2317.7	0.13	98.47
56.0-57.0	32.3	3.0	2320.6	0.13	98.59
57.0-58.0	31.6	2.9	2323.6	0.12	98.72
58.0-59.0	30.5	2.9	2326.4	0.12	98.84
59.0-60.0	28.8	2.7	2329.1	0.12	98.95
60.0-61.0	26.7	2.5	2331.7	0.11	99.06
61.0-62.0	24.2	2.3	2334.0	0.10	99.16
62.0-63.0	23.5	2.3	2336.3	0.10	99.26
63.0-64.0	22.8	2.2	2338.5	0.10	99.35
64.0-65.0	20.7	2.1	2340.6	0.09	99.44
65.0-66.0	19.0	1.9	2342.5	0.08	99.52
66.0-67.0	17.9	1.8	2344.3	0.08	99.60
67.0-68.0	16.2	1.6	2345.9	0.07	99.67
68.0-69.0	13.7	1.4	2347.3	0.06	99.73
69.0-70.0	11.9	1.2	2348.5	0.05	99.78
70.0-71.0	10.9	1.1	2349.7	0.05	99.83
71.0-72.0	10.5	1.1	2350.8	0.05	99.87

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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	5669.2	5669.2								
G1.0	5666.4	5660.8								
G2.0	5652.3	5636.9								
G3.0	5620.0	5594.7								
G4.0	5570.9	5535.8								
G5.0	5500.7	5459.9								
G6.0	5415.0	5368.6								
G7.0	5305.5	5256.3								
G8.0	5179.1	5115.9								
G9.0	5034.4	4957.2								
G10.0	4874.3	4788.7								
G11.0	4694.6	4599.1								
G12.0	4498.0	4395.5								
G13.0	4291.5	4176.4								
G14.0	4071.1	3939.1								
G15.0	3849.2	3686.3								
G16.0	3609.1	3422.3								
G17.0	3356.3	3145.6								
G18.0	3090.9	2871.8								
G19.0	2821.3	2596.6								
G20.0	2554.4	2336.8								
G21.0	2291.8	2086.8								
G22.0	2047.5	1845.3								
G23.0	1820.0	1610.7								
G24.0	1606.5	1393.1								
G25.0	1404.3	1188.0								
G26.0	1213.3	998.5								
G27.0	1030.8	831.3								
G28.0	869.3	681.1								
G29.0	724.6	551.9								
G30.0	599.6	446.6								
G31.0	492.9	356.7								
G32.0	403.0	282.3								
G33.0	324.4	224.7								
G34.0	261.2	179.8								
G35.0	212.1	144.6								
G36.0	171.3	116.6								

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Test Device: CHL-6E

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Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	143.2	99.7								
G38.0	119.4	84.3								
G39.0	101.1	75.8								
G40.0	89.9	68.8								
G41.0	78.6	64.6								
G42.0	74.4	63.2								
G43.0	68.8	56.2								
G44.0	64.6	56.2								
G45.0	60.4	50.5								
G46.0	57.6	49.2								
G47.0	53.4	49.2								
G48.0	50.5	44.9								
G49.0	47.8	43.5								
G50.0	46.3	42.1								
G51.0	43.5	37.9								
G52.0	40.7	36.5								
G53.0	37.9	36.5								
G54.0	36.5	33.7								
G55.0	36.5	33.7								
G56.0	33.7	32.3								
G57.0	33.7	29.5								
G58.0	33.7	29.5								
G59.0	30.9	28.1								
G60.0	29.5	26.7								
G61.0	26.7	23.9								
G62.0	23.9	22.5								
G63.0	25.3	22.5								
G64.0	22.5	21.1								
G65.0	21.1	18.3								
G66.0	21.1	15.4								
G67.0	19.7	15.4								
G68.0	15.4	14.0								
G69.0	14.0	11.2								
G70.0	12.6	9.8								
G71.0	11.2	9.8								
G72.0	11.2	9.8								
G73.0	9.8	7.0								

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Unit: cd

Inspector: