

Report No.:

Test Time: 2024-10-06 14:27

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): -75

Voltage: 229.4 V

Power: 32.50 W

Luminous Width (mm): -75

Current: 0.144 A

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 3200.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H31.1

Vertical Diffuse Angle(50%): V31.1

Luminaire Efficacy Rating (LER): 98.52

Max. Intensity: 8730.25 cd

S/MH(C0/C180): 0.54

Total Rated Lamp Lumens: 3200.2 lm

Efficiency: 100%

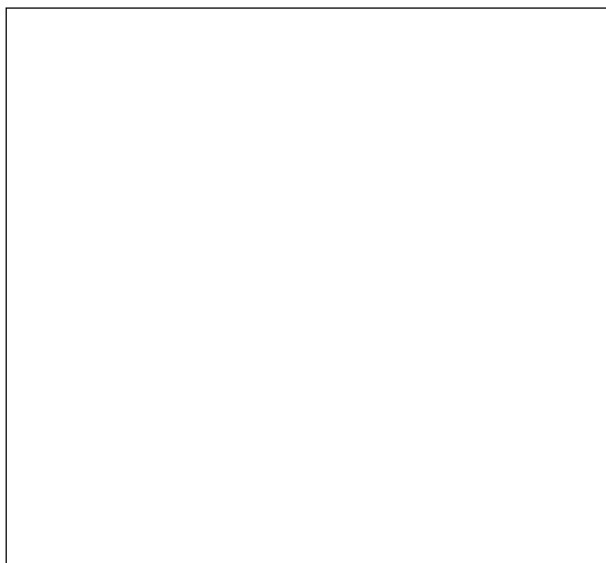
Upward Ratio: 0%

Central Intensity: 8548.23 cd

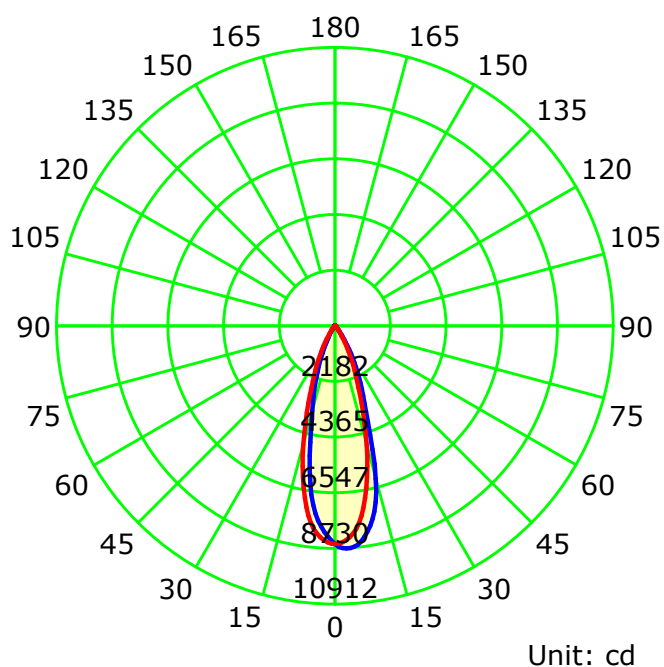
Pos of Max. Intensity: H0 V3

S/MH(C90/C270): 0.54

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

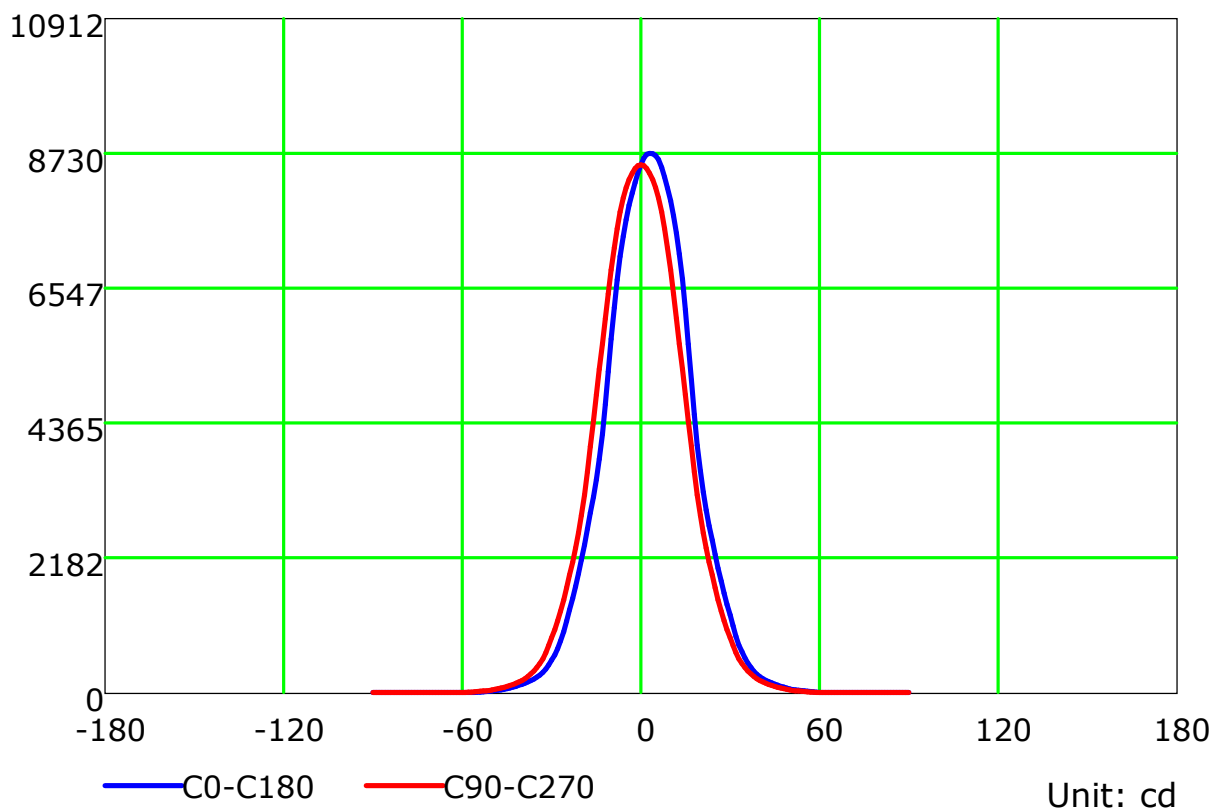
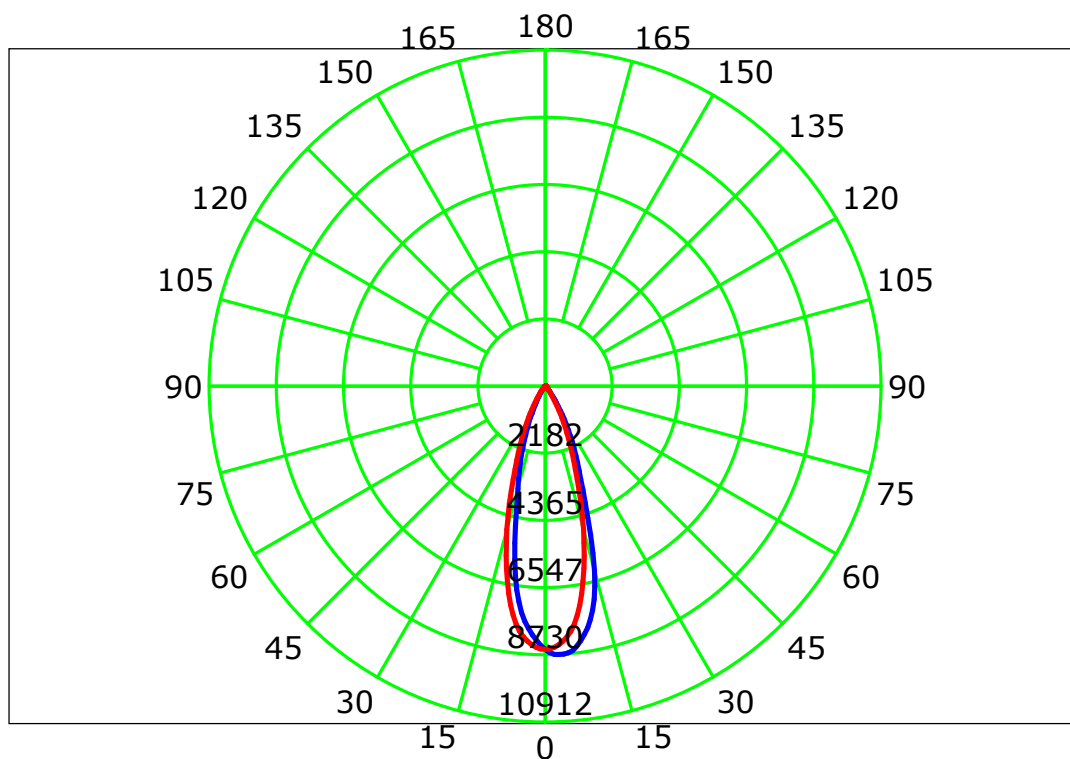
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

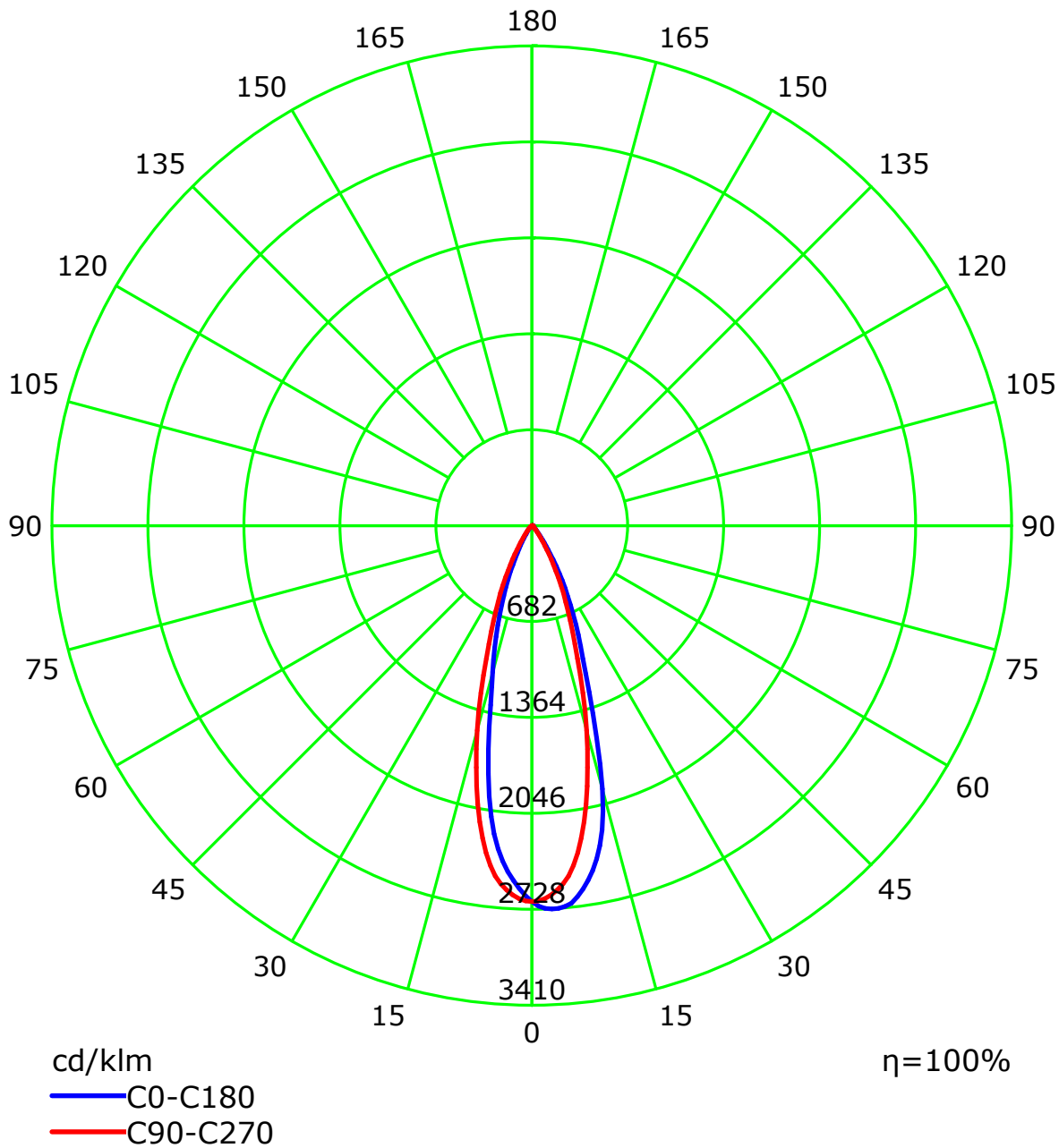


Unit: cd

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: 3.328 m
Humidity:
Inspector:

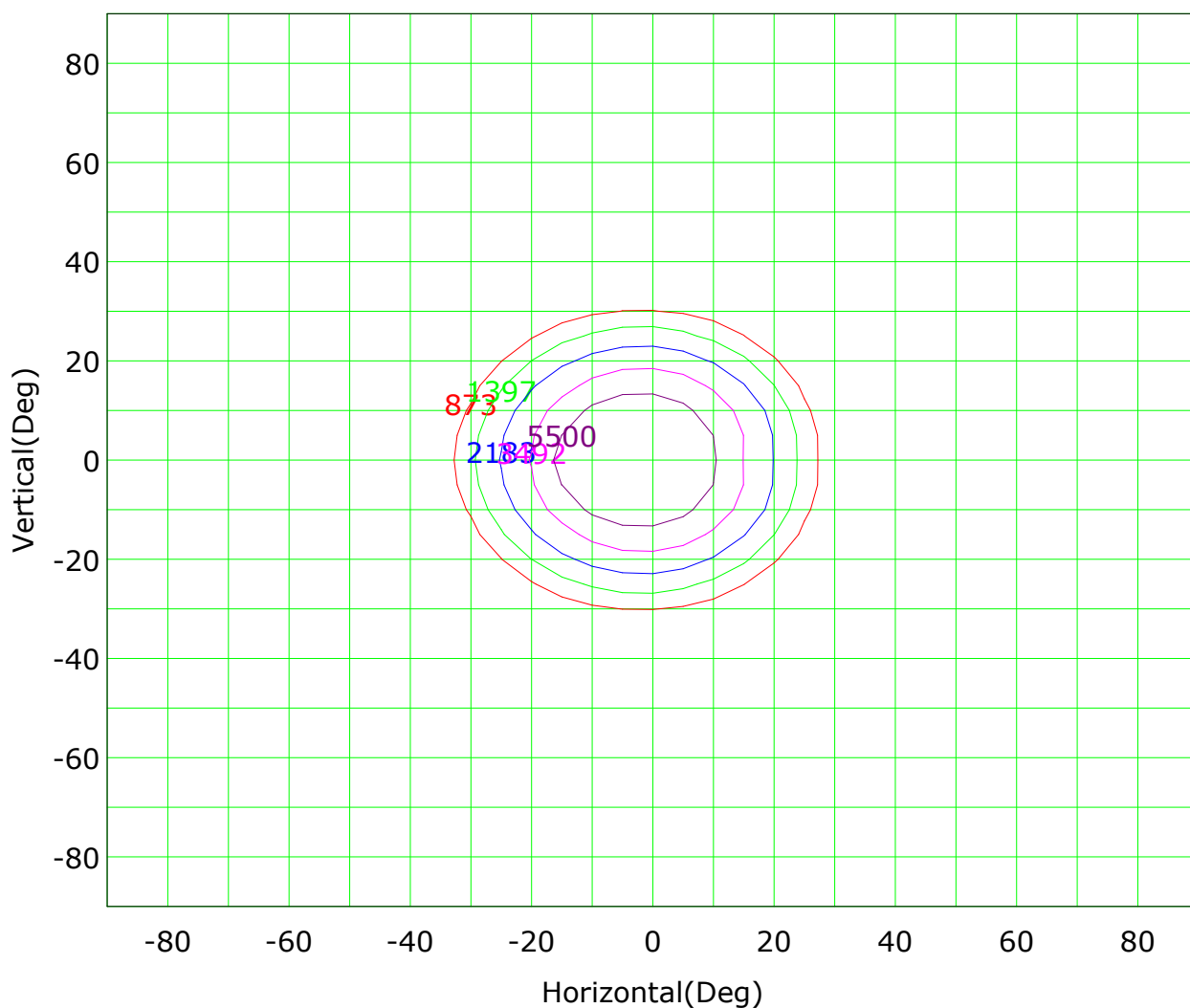
Luminous Intensity Distribution Curve(cd/klm)



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: 3.328 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 8730 cd

(10%): 873 cd	(16%): 1397 cd
(25%): 2183 cd	(40%): 3492 cd
(63%): 5500 cd	(100%): 8730 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

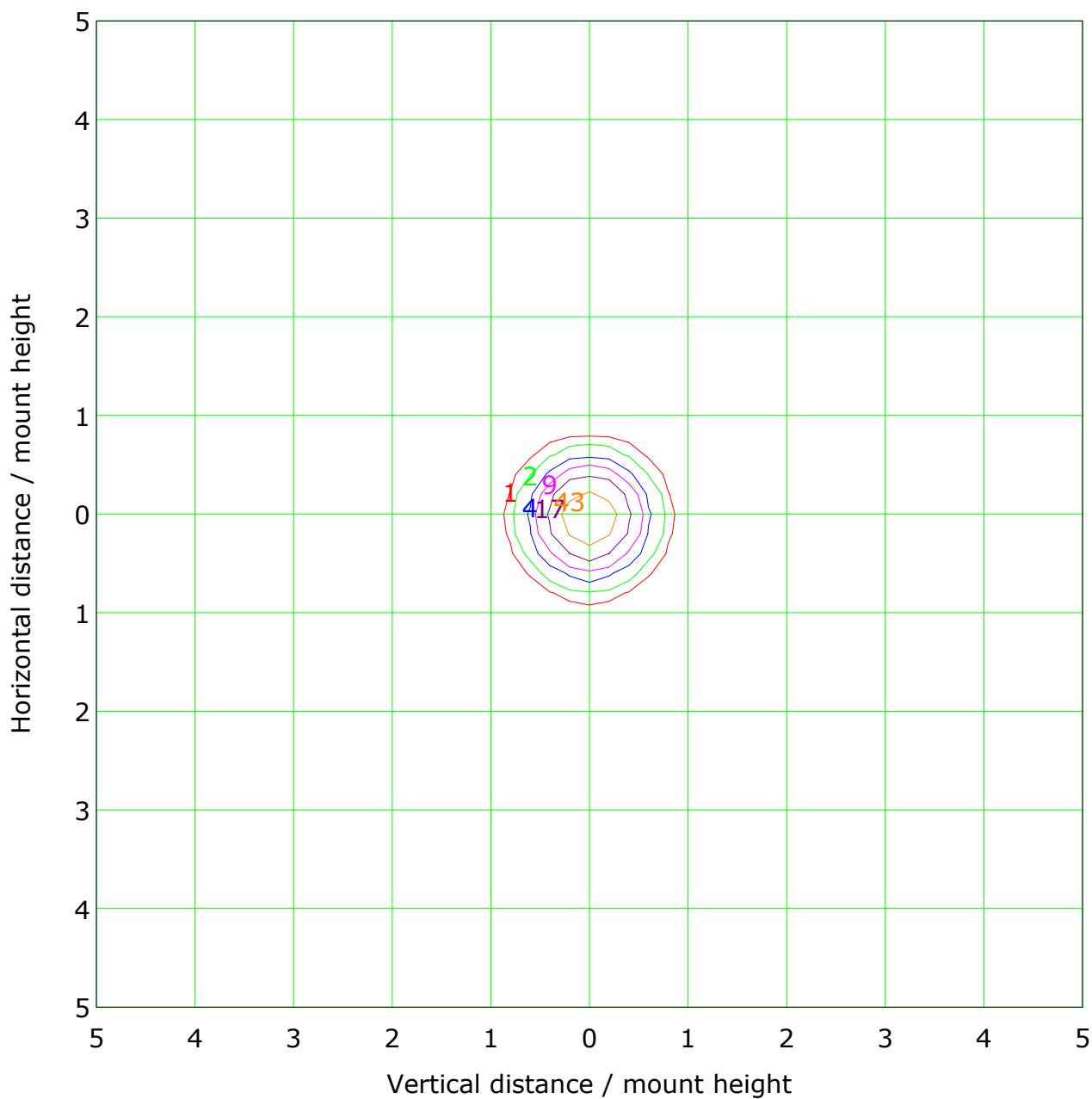
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 87.0 lx

(1%): 0.9 lx	(2%): 1.7 lx
(5%): 4.3 lx	(10%): 8.7 lx
(20%): 17.4 lx	(50%): 43.5 lx
(100%): 87.0 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

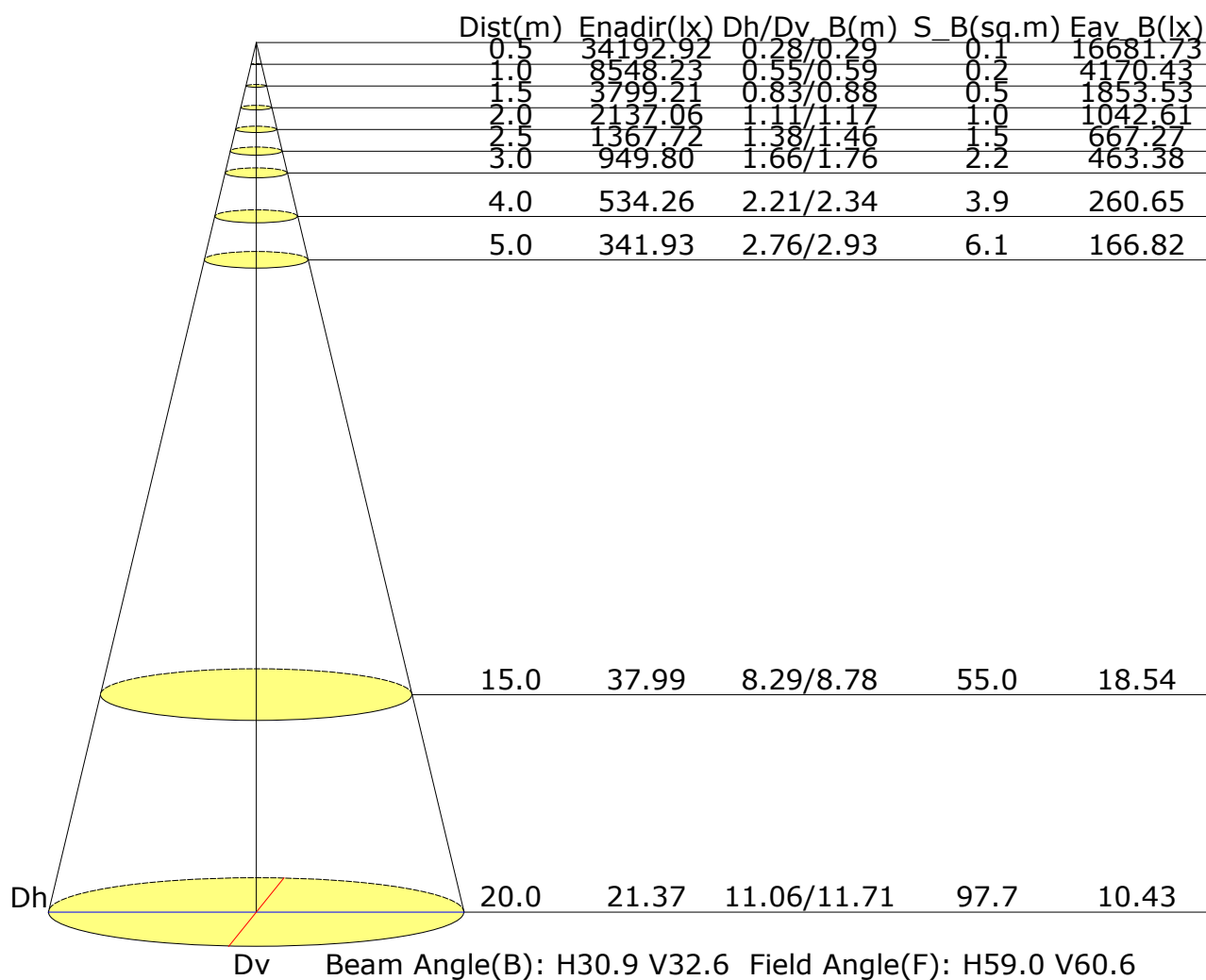
Test Device: CHL-6E

Distance: 3.328 m

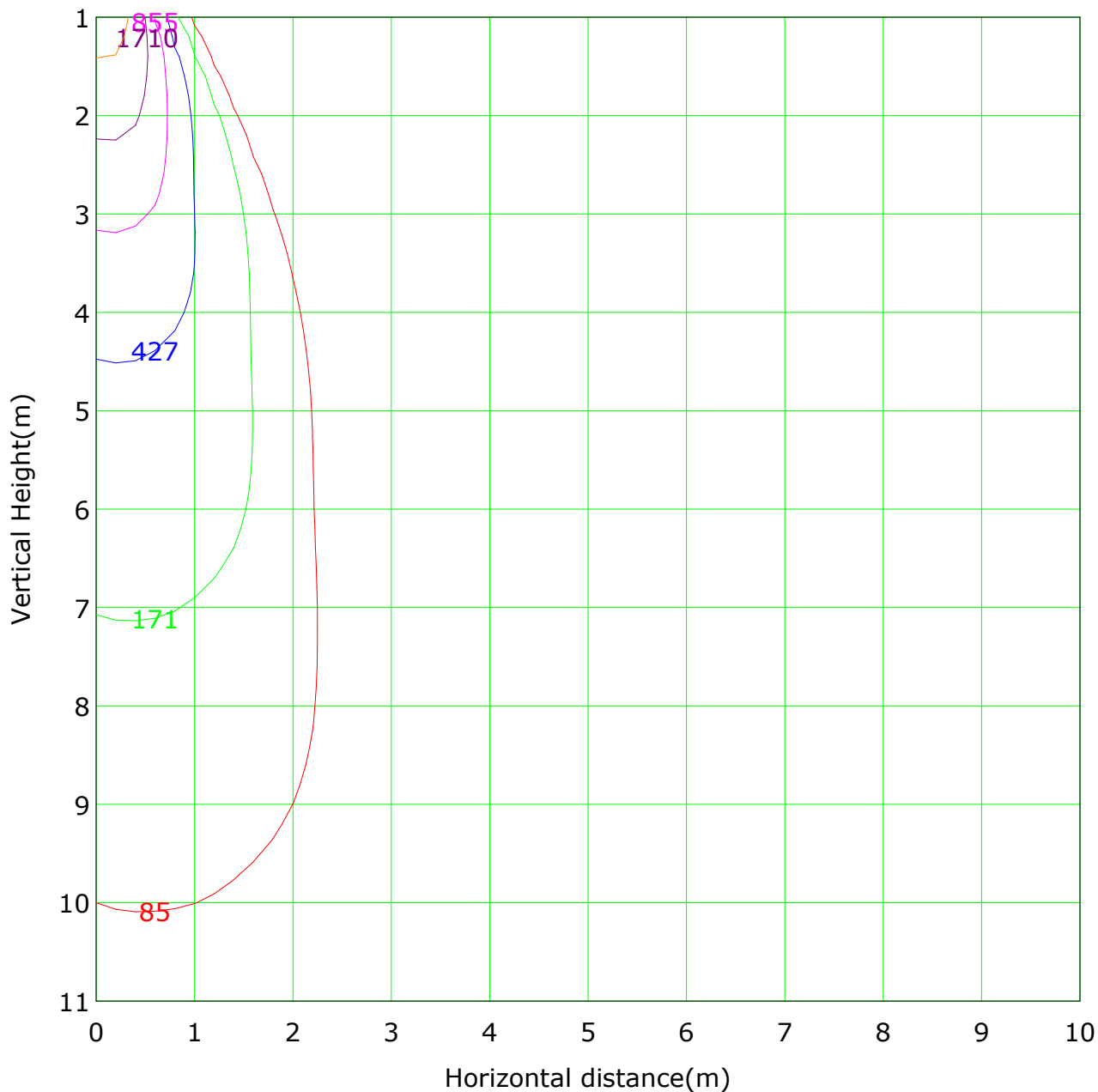
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



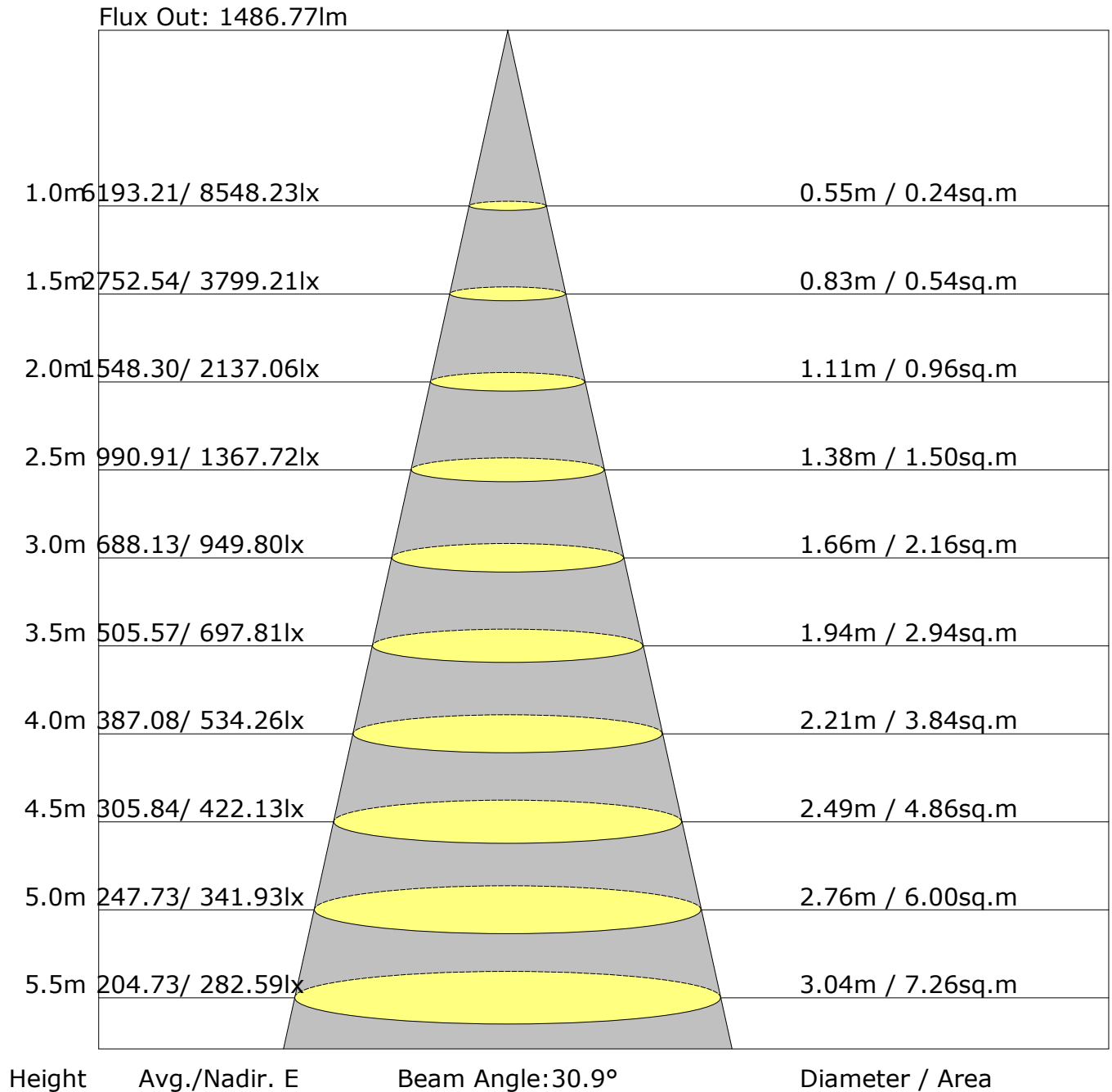
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 8548.2 lx
— (1%): 85.5 lx — (2%): 171.0 lx
— (5%): 427.4 lx — (10%): 854.8 lx
— (20%): 1709.6 lx — (50%): 4274.1 lx
— (100%): 8548.2 lx

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: 3.328 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 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: 3.328 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	19.1	19.8	19.3	20.0	20.2	17.7	18.4	18.0	18.6	18.8
3H	18.9	19.6	19.2	19.8	20.0	17.6	18.2	17.9	18.4	18.7
4H	18.9	19.5	19.2	19.7	20.0	17.5	18.1	17.8	18.4	18.6
6H	18.8	19.3	19.1	19.6	19.9	17.4	18.0	17.7	18.3	18.5
8H	18.8	19.3	19.1	19.6	19.9	17.4	17.9	17.7	18.2	18.5
12H	18.7	19.2	19.1	19.5	19.8	17.3	17.9	17.7	18.2	18.5
X=4H Y=2H	18.9	19.5	19.2	19.7	20.0	17.5	18.1	17.8	18.4	18.6
3H	18.7	19.2	19.1	19.5	19.9	17.4	17.9	17.7	18.2	18.5
4H	18.6	19.1	19.0	19.4	19.8	17.3	17.7	17.6	18.1	18.4
6H	18.6	19.0	19.0	19.3	19.7	17.2	17.6	17.6	18.0	18.3
8H	18.5	18.9	18.9	19.3	19.7	17.1	17.5	17.6	17.9	18.3
12H	18.5	18.8	18.9	19.2	19.6	17.1	17.4	17.5	17.8	18.3
X=8H Y=4H	18.5	18.9	18.9	19.3	19.7	17.1	17.5	17.6	17.9	18.3
6H	18.4	18.7	18.9	19.1	19.6	17.0	17.3	17.5	17.8	18.2
8H	18.4	18.6	18.8	19.1	19.5	17.0	17.3	17.5	17.7	18.2
12H	18.3	18.5	18.8	19.0	19.5	16.9	17.2	17.4	17.6	18.1
X=12H Y=4H	18.5	18.8	18.9	19.2	19.6	17.1	17.4	17.5	17.8	18.3
6H	18.4	18.6	18.8	19.1	19.5	17.0	17.3	17.5	17.7	18.2
8H	18.3	18.5	18.8	19.0	19.5	16.9	17.2	17.4	17.6	18.1
Variations with the observer position at spacings:										
S=1.0H	+5.2/-10.2					+4.8/-11.4				
S=1.5H	+8.0/-1.\$					+7.6/-1.\$				
S=2.0H	+10.0/-1.\$					+9.6/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 3200lm ($8\log(F/F_0) = 4.0$).

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: 3.328 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1796	56.1
	FL (0°-30°)	1574	49.2
	FM (30°-60°)	222	6.9
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1404	43.9
	BL (0°-30°)	1254	39.2
	BM (30°-60°)	150	4.7
	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)	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: 3.328 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	8543.2	8.2	8.2	0.26	0.26
1.0-2.0	8513.6	24.4	32.6	0.76	1.02
2.0-3.0	8449.4	40.4	73.0	1.26	2.28
3.0-4.0	8359.4	56.0	129.0	1.75	4.03
4.0-5.0	8243.7	70.9	199.9	2.22	6.25
5.0-6.0	8096.0	85.1	285.0	2.66	8.91
6.0-7.0	7899.4	98.1	383.1	3.06	11.97
7.0-8.0	7651.0	109.5	492.6	3.42	15.39
8.0-9.0	7359.6	119.3	611.9	3.73	19.12
9.0-10.0	7024.2	127.1	739.0	3.97	23.09
10.0-11.0	6652.1	132.9	872.0	4.15	27.25
11.0-12.0	6256.9	136.8	1008.7	4.27	31.52
12.0-13.0	5850.8	138.9	1147.6	4.34	35.86
13.0-14.0	5442.2	139.3	1286.9	4.35	40.21
14.0-15.0	5032.4	138.2	1425.1	4.32	44.53
15.0-16.0	4616.3	135.3	1560.4	4.23	48.76
16.0-17.0	4194.0	130.6	1691.0	4.08	52.84
17.0-18.0	3778.9	124.6	1815.6	3.89	56.74
18.0-19.0	3388.1	117.9	1933.5	3.68	60.42
19.0-20.0	3034.3	111.1	2044.6	3.47	63.89
20.0-21.0	2727.3	104.7	2149.3	3.27	67.16
21.0-22.0	2462.7	99.0	2248.3	3.09	70.26
22.0-23.0	2226.8	93.4	2341.8	2.92	73.18
23.0-24.0	2009.3	87.9	2429.6	2.75	75.92
24.0-25.0	1800.2	81.9	2511.5	2.56	78.48
25.0-26.0	1598.8	75.5	2587.0	2.36	80.84
26.0-27.0	1411.2	69.1	2656.0	2.16	83.00
27.0-28.0	1241.7	62.9	2718.9	1.96	84.96
28.0-29.0	1091.1	57.1	2776.0	1.78	86.75
29.0-30.0	955.2	51.6	2827.6	1.61	88.36
30.0-31.0	826.8	46.0	2873.6	1.44	89.80
31.0-32.0	704.4	40.4	2913.9	1.26	91.06
32.0-33.0	596.8	35.2	2949.1	1.10	92.16
33.0-34.0	508.9	30.8	2979.9	0.96	93.12
34.0-35.0	438.2	27.2	3007.1	0.85	93.97
35.0-36.0	378.4	24.1	3031.2	0.75	94.72

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: 3.328 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	325.7	21.2	3052.5	0.66	95.39
37.0-38.0	280.2	18.7	3071.2	0.58	95.97
38.0-39.0	241.8	16.5	3087.7	0.52	96.49
39.0-40.0	210.1	14.7	3102.3	0.46	96.94
40.0-41.0	184.5	13.1	3115.5	0.41	97.35
41.0-42.0	163.0	11.8	3127.3	0.37	97.72
42.0-43.0	143.4	10.6	3137.9	0.33	98.06
43.0-44.0	125.0	9.4	3147.4	0.29	98.35
44.0-45.0	108.1	8.3	3155.7	0.26	98.61
45.0-46.0	93.5	7.3	3163.0	0.23	98.84
46.0-47.0	79.8	6.3	3169.3	0.20	99.04
47.0-48.0	67.9	5.5	3174.8	0.17	99.21
48.0-49.0	57.7	4.7	3179.6	0.15	99.36
49.0-50.0	48.3	4.0	3183.6	0.13	99.48
50.0-51.0	40.2	3.4	3187.0	0.11	99.59
51.0-52.0	33.3	2.9	3189.9	0.09	99.68
52.0-53.0	28.7	2.5	3192.4	0.08	99.76
53.0-54.0	24.0	2.1	3194.5	0.07	99.82
54.0-55.0	19.3	1.7	3196.2	0.05	99.88
55.0-56.0	15.0	1.4	3197.6	0.04	99.92
56.0-57.0	10.9	1.0	3198.5	0.03	99.95
57.0-58.0	7.8	0.7	3199.3	0.02	99.97
58.0-59.0	5.3	0.5	3199.8	0.02	99.99
59.0-60.0	3.1	0.3	3200.1	0.01	100.00
60.0-61.0	0.9	0.1	3200.1	0.00	100.00
61.0-62.0	0.0	0.0	3200.1	0.00	100.00
62.0-63.0	0.0	0.0	3200.1	0.00	100.00
63.0-64.0	0.0	0.0	3200.1	0.00	100.00
64.0-65.0	0.0	0.0	3200.1	0.00	100.00
65.0-66.0	0.0	0.0	3200.1	0.00	100.00
66.0-67.0	0.0	0.0	3200.1	0.00	100.00
67.0-68.0	0.0	0.0	3200.1	0.00	100.00
68.0-69.0	0.0	0.0	3200.1	0.00	100.00
69.0-70.0	0.0	0.0	3200.1	0.00	100.00
70.0-71.0	0.0	0.0	3200.1	0.00	100.00
71.0-72.0	0.0	0.0	3200.1	0.00	100.00

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
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Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	8548.2	8548.2								
G1.0	8656.7	8419.8								
G2.0	8715.3	8262.8								
G3.0	8730.2	8089.5								
G4.0	8726.5	7891.3								
G5.0	8695.3	7661.9								
G6.0	8634.3	7392.6								
G7.0	8505.8	7064.7								
G8.0	8350.0	6683.3								
G9.0	8170.5	6234.5								
G10.0	7966.0	5725.8								
G11.0	7721.7	5194.8								
G12.0	7441.2	4669.9								
G13.0	7104.6	4187.5								
G14.0	6697.0	3779.8								
G15.0	6203.3	3449.5								
G16.0	5643.5	3169.0								
G17.0	5055.1	2908.4								
G18.0	4500.4	2651.6								
G19.0	4005.5	2394.8								
G20.0	3589.1	2148.0								
G21.0	3247.5	1924.8								
G22.0	2959.5	1719.1								
G23.0	2702.7	1525.9								
G24.0	2469.6	1338.9								
G25.0	2235.2	1156.9								
G26.0	2015.8	987.3								
G27.0	1806.4	835.3								
G28.0	1611.9	713.1								
G29.0	1429.9	609.6								
G30.0	1256.6	524.8								
G31.0	1078.3	447.5								
G32.0	910.0	381.5								
G33.0	769.2	326.6								
G34.0	659.5	280.5								
G35.0	563.5	249.3								
G36.0	480.0	220.7								

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: 3.328 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	406.4	195.7								
G38.0	345.3	173.3								
G39.0	296.7	152.1								
G40.0	256.8	134.6								
G41.0	226.9	119.7								
G42.0	202.0	103.5								
G43.0	178.3	89.8								
G44.0	157.1	74.8								
G45.0	137.1	63.6								
G46.0	119.7	53.6								
G47.0	103.5	42.4								
G48.0	88.5	37.4								
G49.0	73.6	31.2								
G50.0	59.8	28.7								
G51.0	49.9	22.4								
G52.0	42.4	18.7								
G53.0	39.9	13.7								
G54.0	32.4	10.0								
G55.0	28.7	6.2								
G56.0	22.4	2.5								
G57.0	18.7	0.0								
G58.0	12.5	0.0								
G59.0	8.7	0.0								
G60.0	3.7	0.0								
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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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

