

Report No.:

Test Time: 2026-09-29 11:43

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Length (mm): -68

Voltage: 226.0 V

Power: 24.40 W

Lamp Description: BLX V10A F90 3000K

Luminous Width (mm): -68

Current: 0.111 A

Power Factor: 0.971

Photometric Results

CIE Class: Direct

Measurement Flux: 2312.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H31.7

Vertical Diffuse Angle(50%): V31.7

Luminaire Efficacy Rating (LER): 94.84

Max. Intensity: 7710.15 cd

S/MH(C0/C180): 0.53

Total Rated Lamp Lumens: 2312.8 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 7710.14 cd

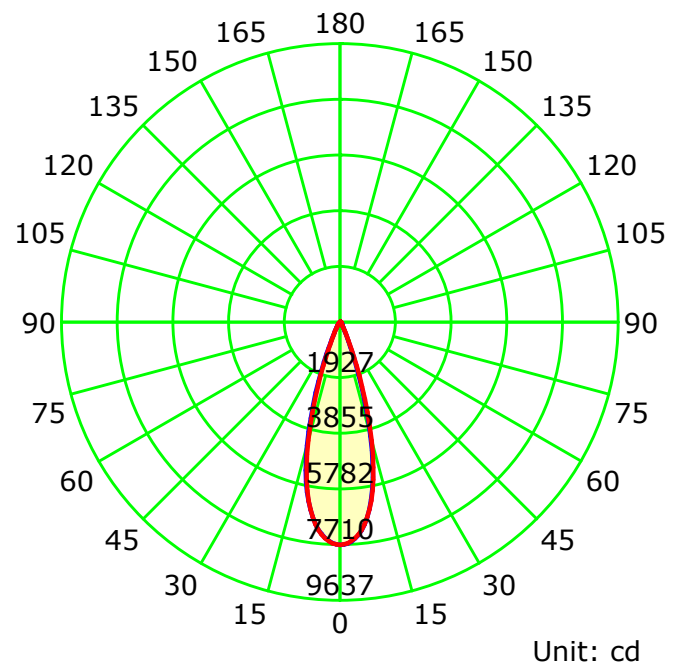
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.53

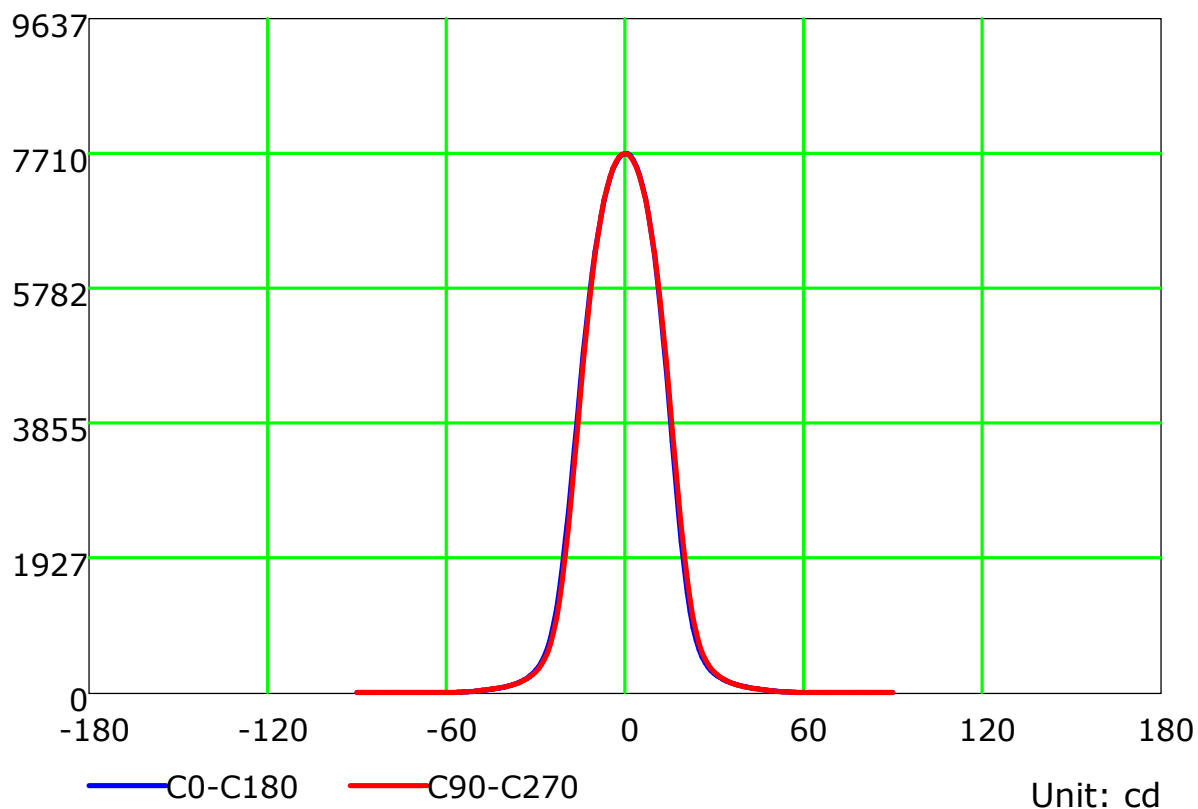
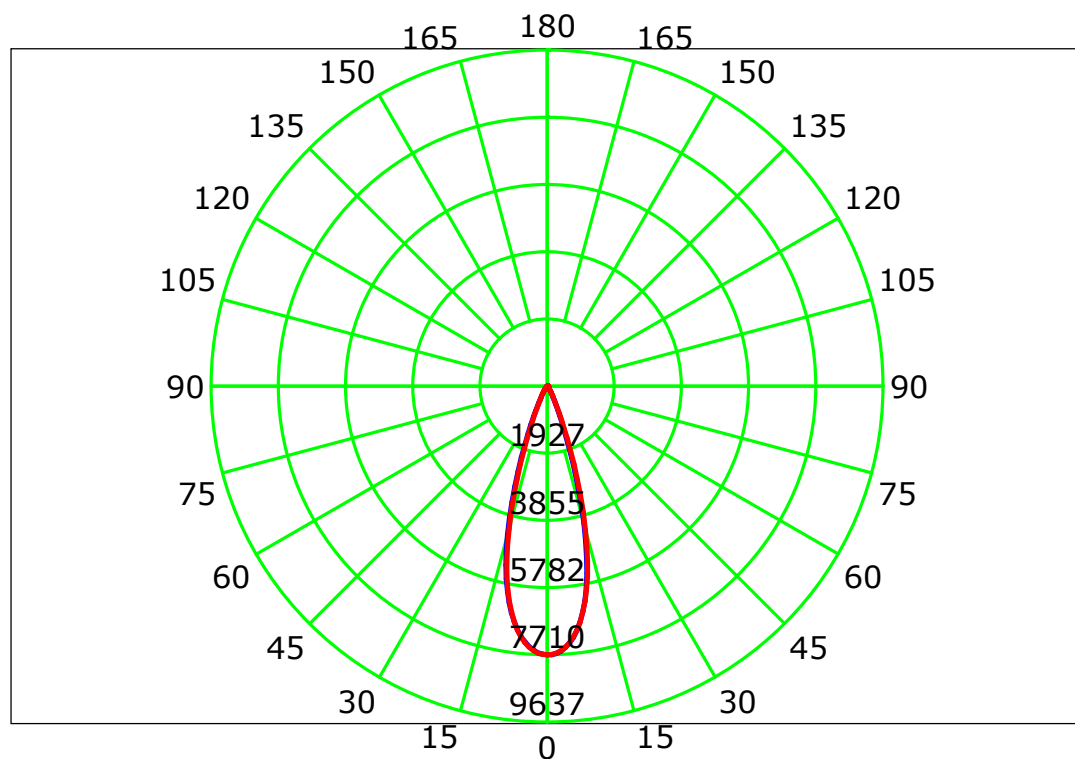
Picture Of Luminaire



Luminous Intensity Distribution Curve



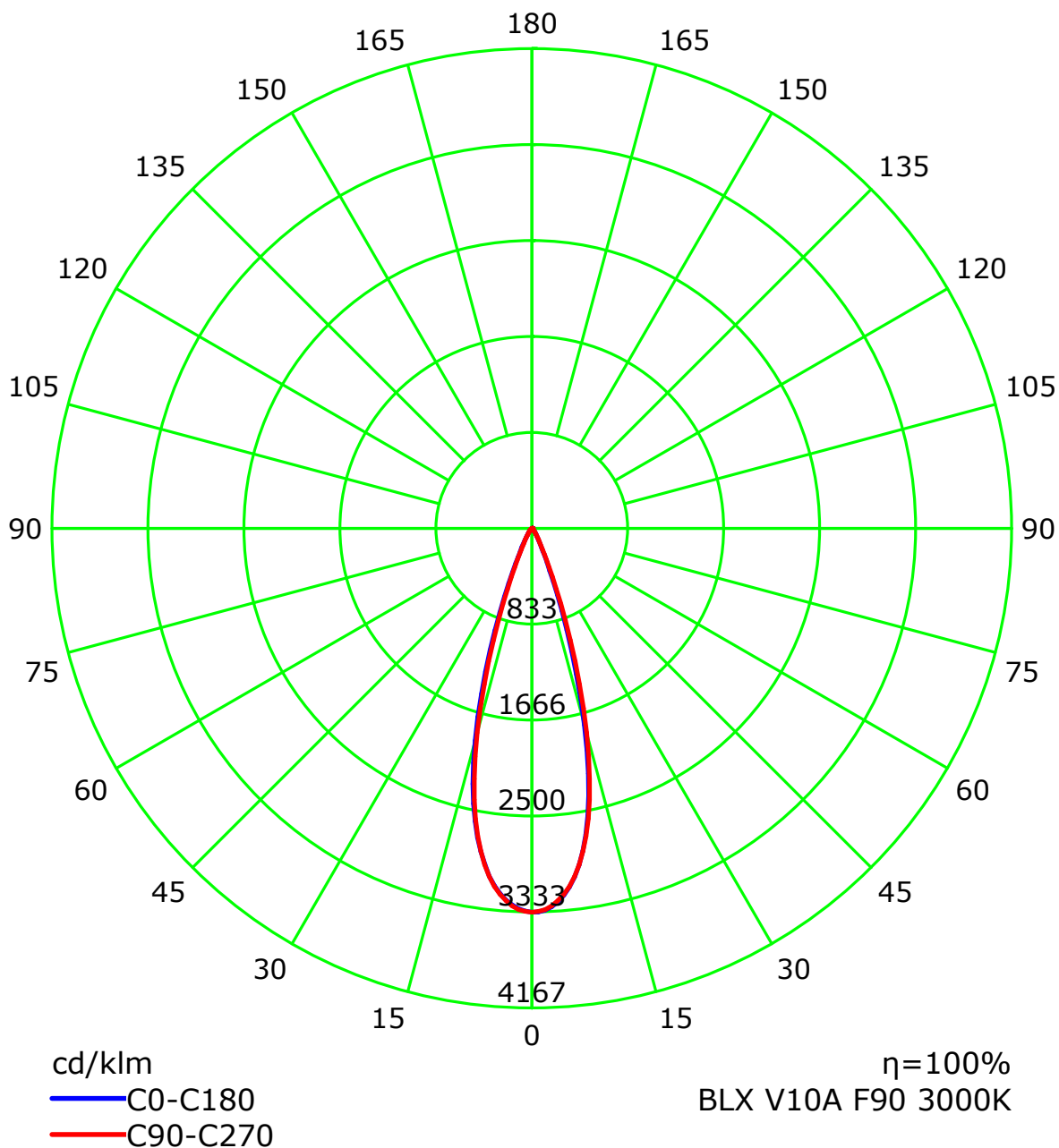
Luminous Intensity Distribution Curve



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: 3.010 m
Humidity:
Inspector:

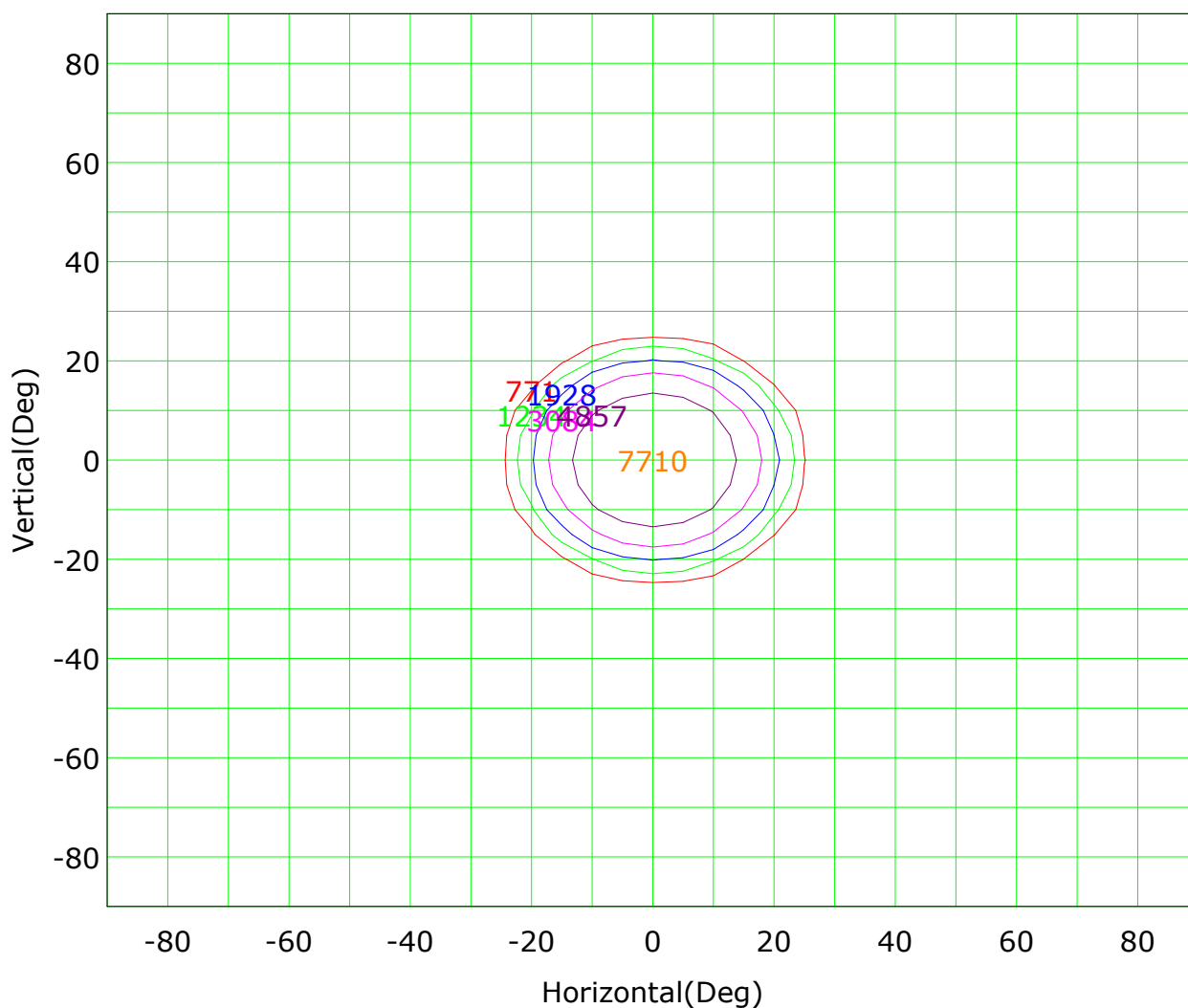
Luminous Intensity Distribution Curve(cd/klm)



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: 3.010 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 7710 cd

(10%): 771 cd	(16%): 1234 cd
(25%): 1928 cd	(40%): 3084 cd
(63%): 4857 cd	(100%): 7710 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

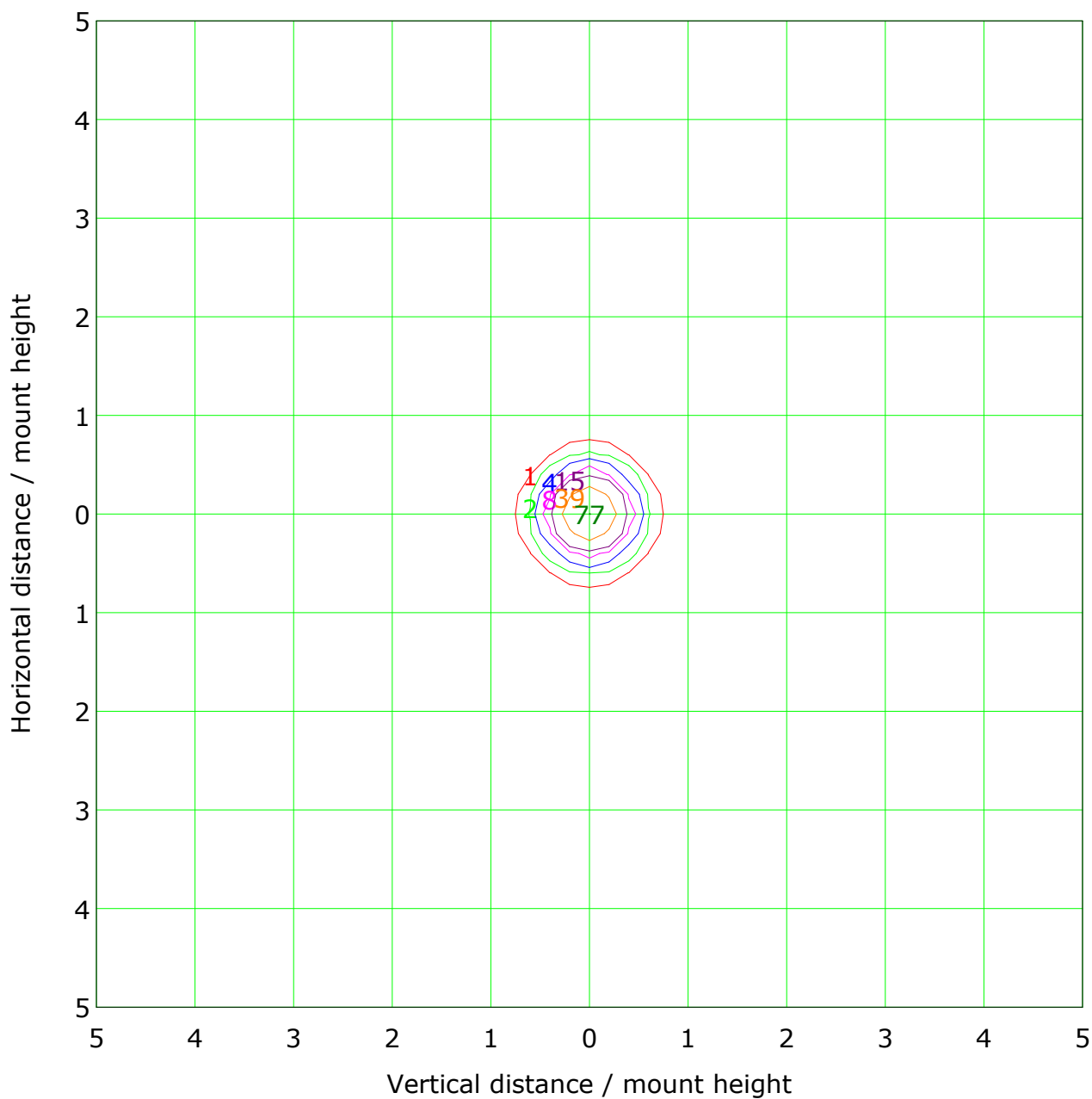
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 77.1 lx

(1%): 0.8 lx	(2%): 1.5 lx
(5%): 3.9 lx	(10%): 7.7 lx
(20%): 15.4 lx	(50%): 38.6 lx
(100%): 77.1 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

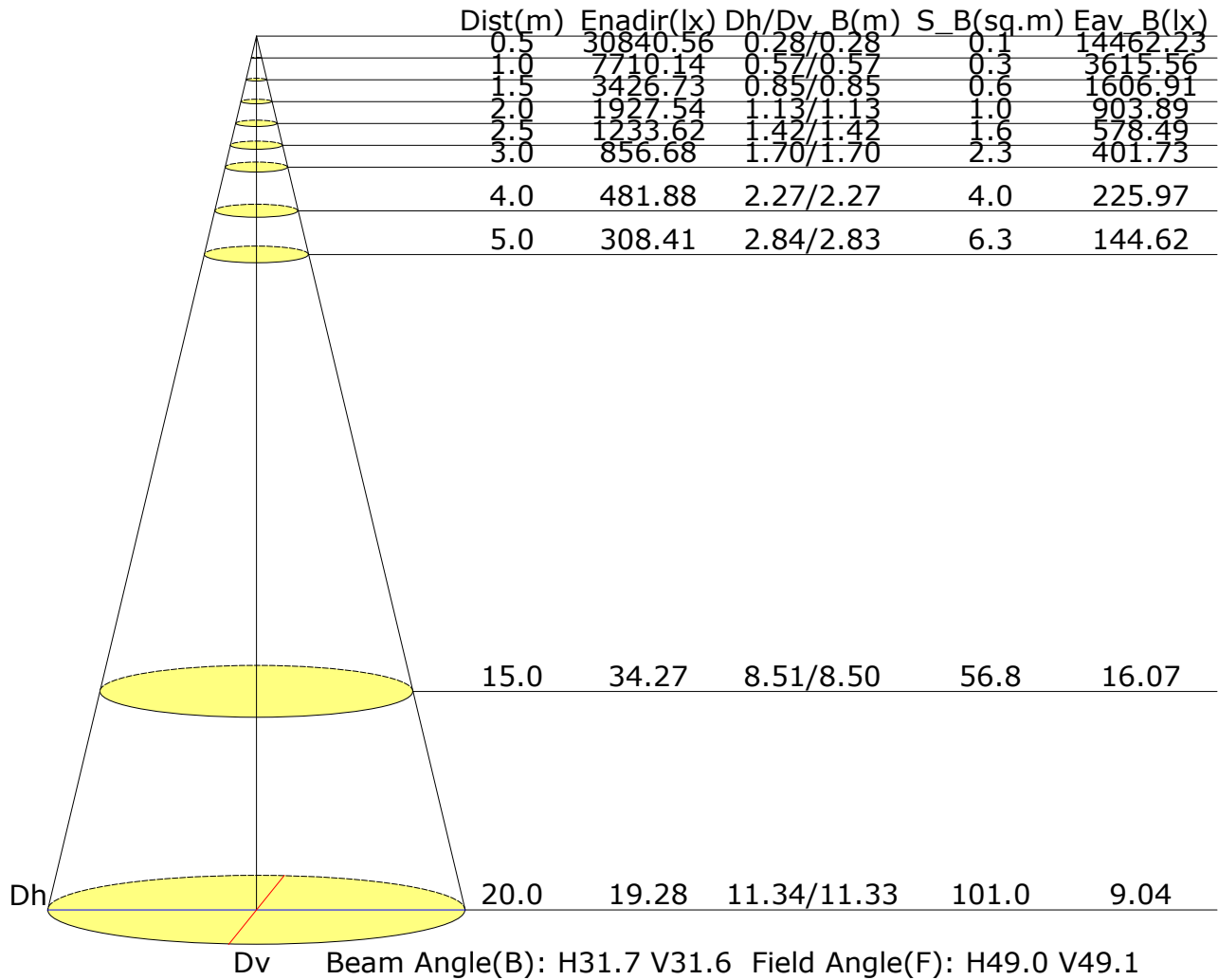
Test Device: CHL-6E

Distance: 3.010 m

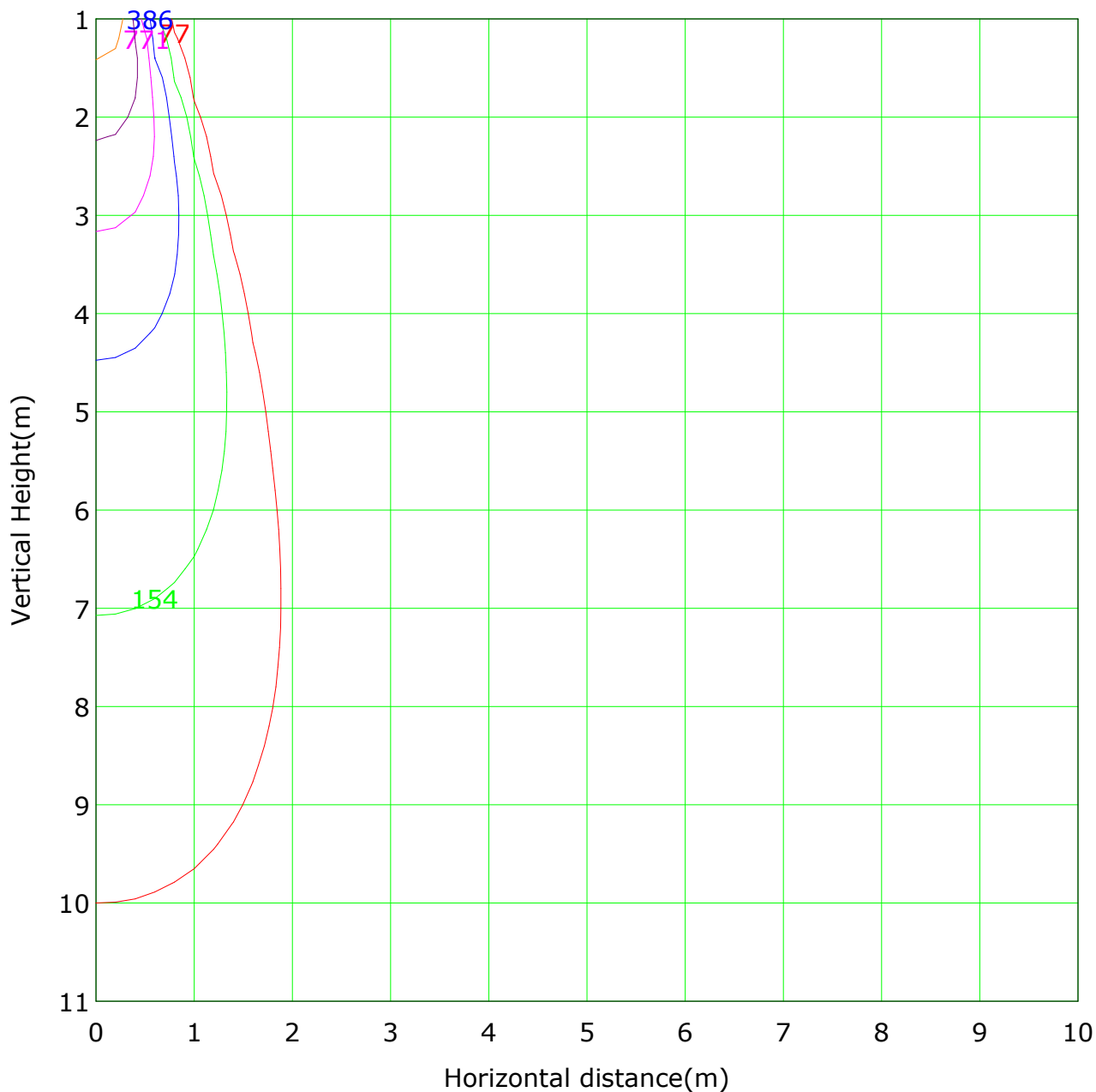
Humidity:

Inspector:

Illuminance at a Distance



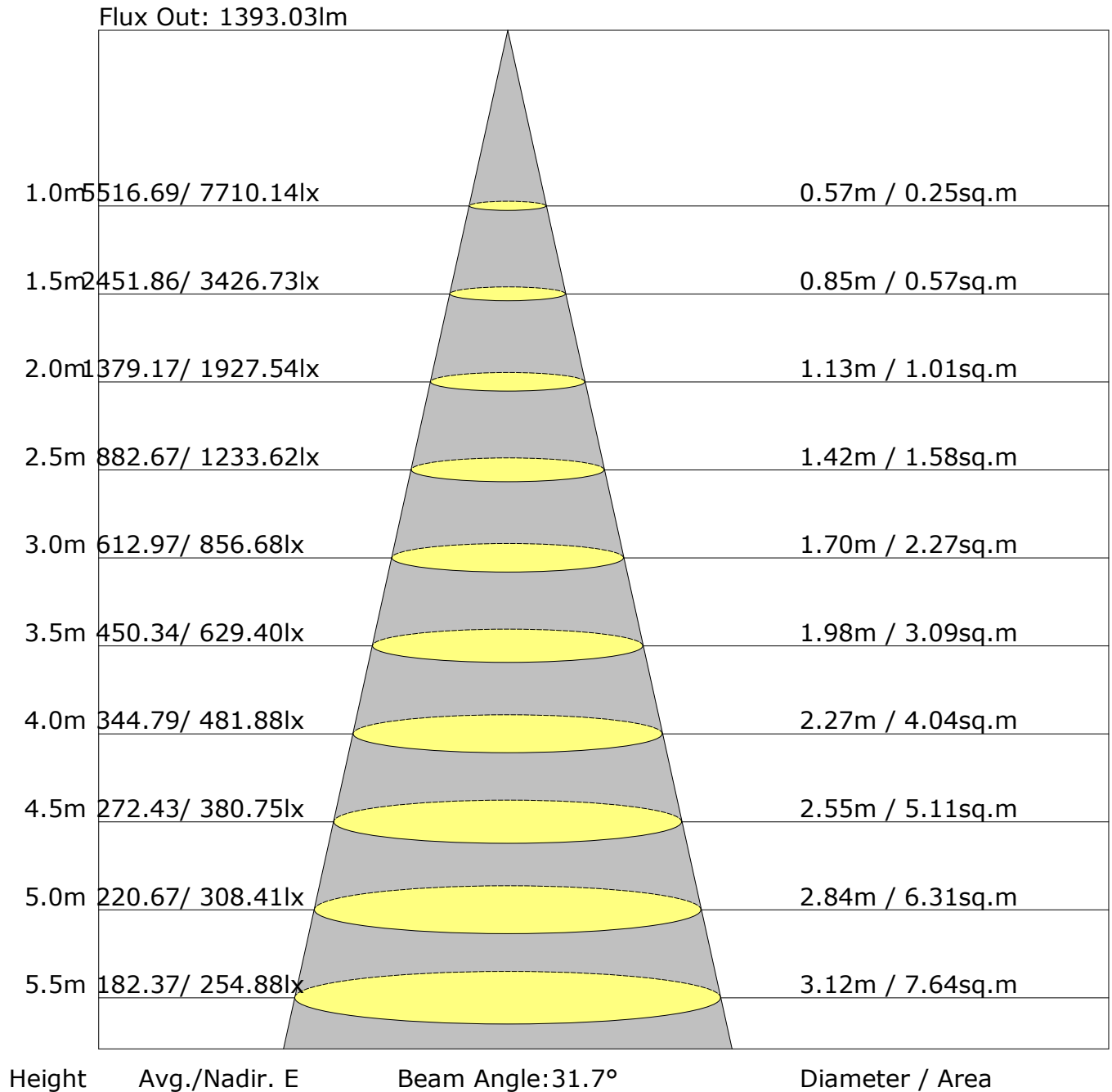
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 7710.1 lx
— (1%): 77.1 lx — (2%): 154.2 lx
— (5%): 385.5 lx — (10%): 771.0 lx
— (20%): 1542.0 lx — (50%): 3855.1 lx
— (100%): 7710.1 lx

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 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: 3.010 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	12.6	13.3	12.9	13.5	13.7	12.7	13.3	12.9	13.5	13.7
3H	12.5	13.1	12.8	13.3	13.5	12.5	13.1	12.8	13.4	13.6
4H	12.4	13.0	12.7	13.2	13.5	12.5	13.0	12.8	13.3	13.5
6H	12.4	12.9	12.7	13.1	13.4	12.4	12.9	12.7	13.2	13.5
8H	12.3	12.8	12.7	13.1	13.4	12.4	12.8	12.7	13.1	13.4
12H	12.3	12.8	12.6	13.1	13.4	12.3	12.8	12.7	13.1	13.4
X=4H Y=2H	12.5	13.0	12.8	13.2	13.5	12.5	13.0	12.8	13.3	13.5
3H	12.3	12.8	12.6	13.1	13.4	12.3	12.8	12.7	13.1	13.4
4H	12.2	12.6	12.6	13.0	13.3	12.2	12.7	12.6	13.0	13.3
6H	12.1	12.5	12.5	12.9	13.2	12.2	12.5	12.6	12.9	13.3
8H	12.1	12.4	12.5	12.8	13.2	12.1	12.5	12.5	12.8	13.2
12H	12.0	12.3	12.5	12.7	13.2	12.1	12.4	12.5	12.8	13.2
X=8H Y=4H	12.1	12.4	12.5	12.8	13.2	12.1	12.5	12.5	12.8	13.2
6H	12.0	12.2	12.4	12.7	13.1	12.0	12.3	12.5	12.7	13.2
8H	11.9	12.2	12.4	12.6	13.1	12.0	12.2	12.4	12.6	13.1
12H	11.9	12.1	12.4	12.6	13.0	11.9	12.1	12.4	12.6	13.1
X=12H Y=4H	12.0	12.3	12.5	12.7	13.2	12.1	12.4	12.5	12.8	13.2
6H	11.9	12.2	12.4	12.6	13.1	12.0	12.2	12.4	12.6	13.1
8H	11.9	12.1	12.4	12.6	13.0	11.9	12.1	12.4	12.6	13.1
Variations with the observer position at spacings:										
S=1.0H	+4.0/-8.7					+4.2/-9.2				
S=1.5H	+6.7/-1.\$					+6.9/-1.\$				
S=2.0H	+8.7/-1.\$					+8.9/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with $2313lm$ ($8\log(F/F_0) = 2.9$).

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: 3.010 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1134	49.0
	FL (0°-30°)	1060	45.8
	FM (30°-60°)	74	3.2
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1179	51.0
	BL (0°-30°)	1104	47.7
	BM (30°-60°)	75	3.2
	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: 3.010 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	7704.5	7.4	7.4	0.32	0.32
1.0-2.0	7681.1	22.0	29.4	0.95	1.27
2.0-3.0	7629.9	36.5	65.9	1.58	2.85
3.0-4.0	7550.0	50.5	116.5	2.19	5.04
4.0-5.0	7443.3	64.0	180.5	2.77	7.80
5.0-6.0	7308.0	76.8	257.3	3.32	11.13
6.0-7.0	7139.9	88.6	345.9	3.83	14.96
7.0-8.0	6934.8	99.3	445.2	4.29	19.25
8.0-9.0	6695.9	108.5	553.7	4.69	23.94
9.0-10.0	6423.7	116.3	670.0	5.03	28.97
10.0-11.0	6110.5	122.1	792.1	5.28	34.25
11.0-12.0	5757.7	125.9	918.0	5.44	39.69
12.0-13.0	5369.1	127.4	1045.4	5.51	45.20
13.0-14.0	4944.0	126.6	1172.0	5.47	50.68
14.0-15.0	4487.9	123.2	1295.2	5.33	56.00
15.0-16.0	4008.1	117.5	1412.7	5.08	61.08
16.0-17.0	3519.2	109.6	1522.3	4.74	65.82
17.0-18.0	3044.0	100.4	1622.7	4.34	70.16
18.0-19.0	2593.5	90.2	1712.9	3.90	74.06
19.0-20.0	2175.5	79.6	1792.6	3.44	77.51
20.0-21.0	1799.4	69.1	1861.7	2.99	80.49
21.0-22.0	1471.1	59.1	1920.8	2.56	83.05
22.0-23.0	1192.6	50.0	1970.8	2.16	85.21
23.0-24.0	963.8	42.1	2013.0	1.82	87.04
24.0-25.0	781.3	35.5	2048.5	1.54	88.57
25.0-26.0	638.1	30.1	2078.6	1.30	89.88
26.0-27.0	527.7	25.8	2104.4	1.12	90.99
27.0-28.0	441.4	22.3	2126.8	0.97	91.96
28.0-29.0	373.5	19.5	2146.3	0.85	92.80
29.0-30.0	320.0	17.3	2163.6	0.75	93.55
30.0-31.0	277.0	15.4	2179.0	0.67	94.22
31.0-32.0	242.4	13.9	2192.9	0.60	94.82
32.0-33.0	212.2	12.5	2205.4	0.54	95.36
33.0-34.0	186.2	11.3	2216.7	0.49	95.85
34.0-35.0	164.7	10.2	2226.9	0.44	96.29
35.0-36.0	145.5	9.3	2236.2	0.40	96.69

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: 3.010 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	128.5	8.4	2244.6	0.36	97.05
37.0-38.0	114.6	7.6	2252.2	0.33	97.38
38.0-39.0	102.5	7.0	2259.2	0.30	97.68
39.0-40.0	91.6	6.4	2265.6	0.28	97.96
40.0-41.0	82.2	5.9	2271.5	0.25	98.21
41.0-42.0	73.5	5.3	2276.8	0.23	98.44
42.0-43.0	65.6	4.9	2281.7	0.21	98.65
43.0-44.0	59.2	4.5	2286.1	0.19	98.85
44.0-45.0	53.5	4.1	2290.2	0.18	99.03
45.0-46.0	47.1	3.7	2293.9	0.16	99.18
46.0-47.0	40.7	3.2	2297.2	0.14	99.32
47.0-48.0	35.4	2.9	2300.0	0.12	99.45
48.0-49.0	29.4	2.4	2302.4	0.10	99.55
49.0-50.0	24.5	2.0	2304.5	0.09	99.64
50.0-51.0	20.7	1.8	2306.2	0.08	99.72
51.0-52.0	17.0	1.5	2307.7	0.06	99.78
52.0-53.0	14.3	1.2	2308.9	0.05	99.83
53.0-54.0	12.1	1.1	2310.0	0.05	99.88
54.0-55.0	10.2	0.9	2310.9	0.04	99.92
55.0-56.0	7.9	0.7	2311.6	0.03	99.95
56.0-57.0	5.7	0.5	2312.1	0.02	99.97
57.0-58.0	3.8	0.3	2312.5	0.02	99.99
58.0-59.0	2.3	0.2	2312.7	0.01	100.00
59.0-60.0	0.8	0.1	2312.8	0.00	100.00
60.0-61.0	0.0	0.0	2312.8	0.00	100.00
61.0-62.0	0.0	0.0	2312.8	0.00	100.00
62.0-63.0	0.0	0.0	2312.8	0.00	100.00
63.0-64.0	0.0	0.0	2312.8	0.00	100.00
64.0-65.0	0.0	0.0	2312.8	0.00	100.00
65.0-66.0	0.0	0.0	2312.8	0.00	100.00
66.0-67.0	0.0	0.0	2312.8	0.00	100.00
67.0-68.0	0.0	0.0	2312.8	0.00	100.00
68.0-69.0	0.0	0.0	2312.8	0.00	100.00
69.0-70.0	0.0	0.0	2312.8	0.00	100.00
70.0-71.0	0.0	0.0	2312.8	0.00	100.00
71.0-72.0	0.0	0.0	2312.8	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: 3.010 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	7710.1	7710.1								
G1.0	7705.6	7692.0								
G2.0	7675.5	7651.3								
G3.0	7613.6	7579.0								
G4.0	7515.6	7491.5								
G5.0	7398.1	7367.9								
G6.0	7245.8	7220.1								
G7.0	7055.8	7037.7								
G8.0	6826.7	6819.1								
G9.0	6556.8	6580.9								
G10.0	6247.7	6309.5								
G11.0	5884.4	6000.5								
G12.0	5490.9	5655.2								
G13.0	5058.2	5272.3								
G14.0	4586.3	4859.2								
G15.0	4090.3	4415.9								
G16.0	3580.7	3945.5								
G17.0	3068.1	3482.7								
G18.0	2596.2	3028.9								
G19.0	2160.5	2588.6								
G20.0	1768.5	2184.6								
G21.0	1432.3	1812.2								
G22.0	1156.4	1483.5								
G23.0	927.2	1203.1								
G24.0	750.8	973.9								
G25.0	615.1	785.5								
G26.0	509.6	642.3								
G27.0	428.2	530.7								
G28.0	364.9	441.7								
G29.0	313.6	373.9								
G30.0	274.4	318.1								
G31.0	241.2	274.4								
G32.0	215.6	238.2								
G33.0	190.0	205.0								
G34.0	168.9	180.9								
G35.0	152.3	156.8								
G36.0	134.2	138.7								

C Plane (°):0.0-180.0: 180.0

Test Lab:

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Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	120.6	120.6								
G38.0	108.6	108.6								
G39.0	96.5	96.5								
G40.0	88.9	84.4								
G41.0	79.9	75.4								
G42.0	72.4	66.3								
G43.0	63.3	60.3								
G44.0	58.8	54.3								
G45.0	52.8	48.2								
G46.0	45.2	42.2								
G47.0	39.2	36.2								
G48.0	33.2	33.2								
G49.0	27.1	24.1								
G50.0	24.1	22.6								
G51.0	19.6	16.6								
G52.0	16.6	15.1								
G53.0	13.6	12.1								
G54.0	12.1	10.6								
G55.0	10.6	7.5								
G56.0	7.5	6.0								
G57.0	6.0	3.0								
G58.0	4.5	1.5								
G59.0	3.0	0.0								
G60.0	0.0	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
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Unit: cd

Inspector: