

Report No.:

Test Time: 2026-09-30 14:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 15D

Luminous Length (mm): -68

Voltage: 228.7 V

Power: 24.50 W

Lamp Description: Blx V10A F90 3000K

Luminous Width (mm): -68

Current: 0.110 A

Power Factor: 0.968

Photometric Results

CIE Class: Direct

Measurement Flux: 1900.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H21.4

Vertical Diffuse Angle(50%): V21.4

Luminaire Efficacy Rating (LER): 77.62

Max. Intensity: 7750.86 cd

S/MH(C0/C180): 0.37

Total Rated Lamp Lumens: 1900.4 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 7738.79 cd

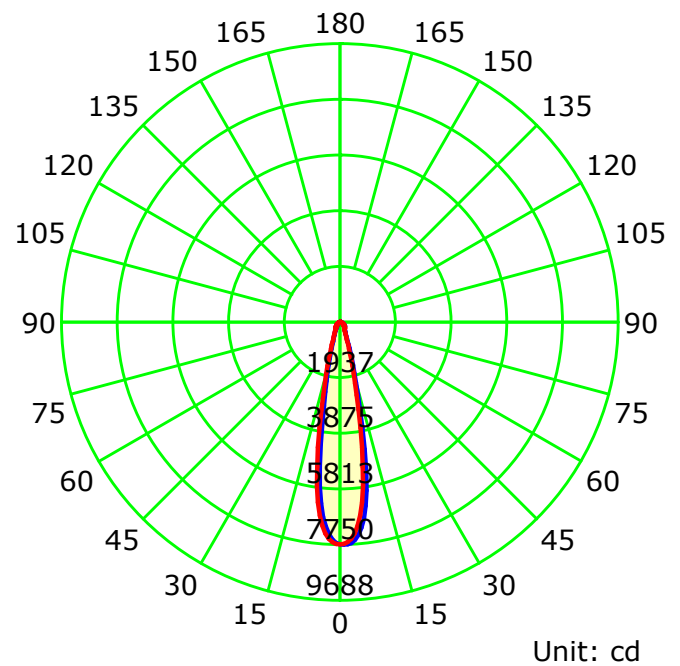
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.37

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

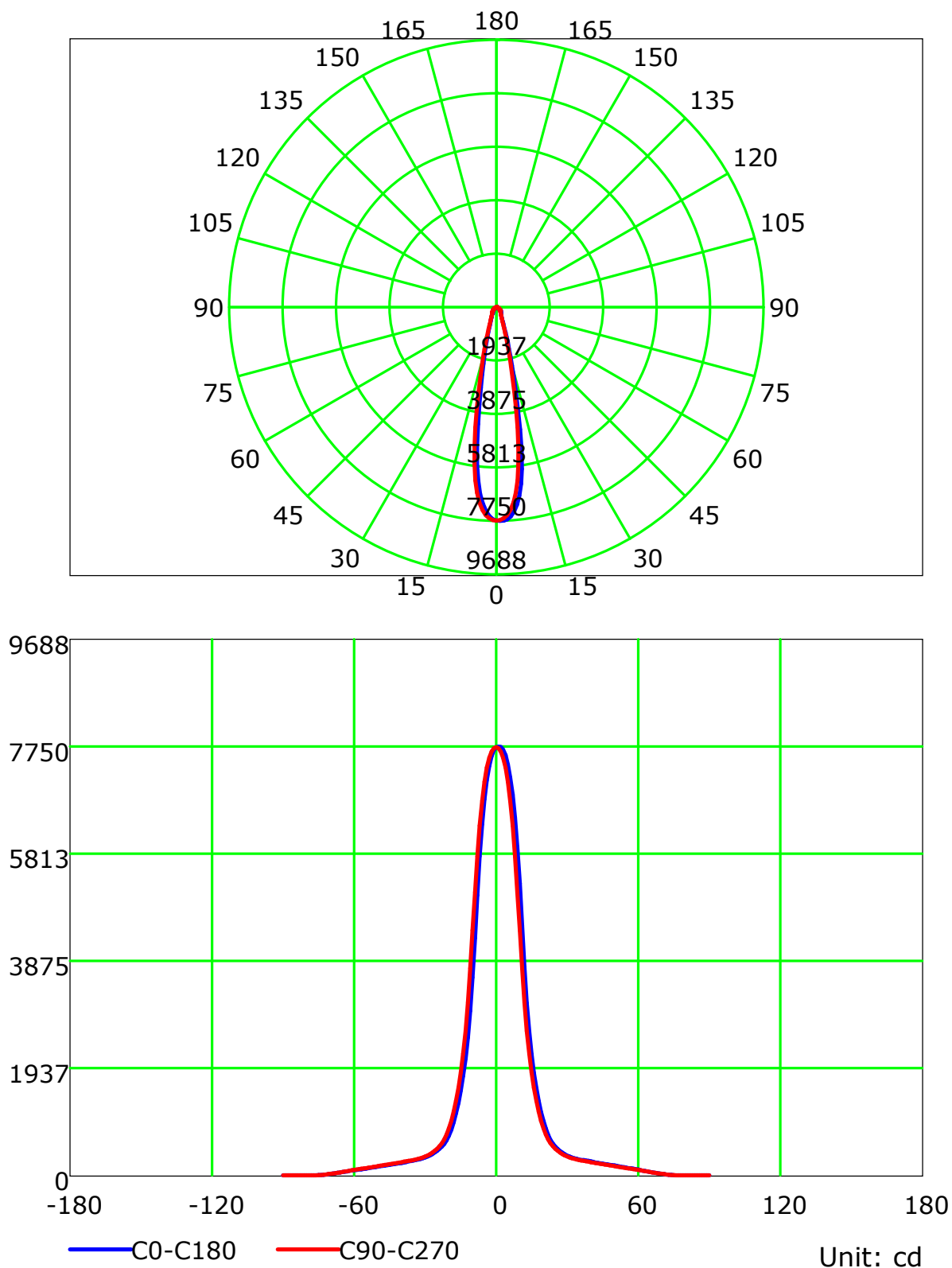
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

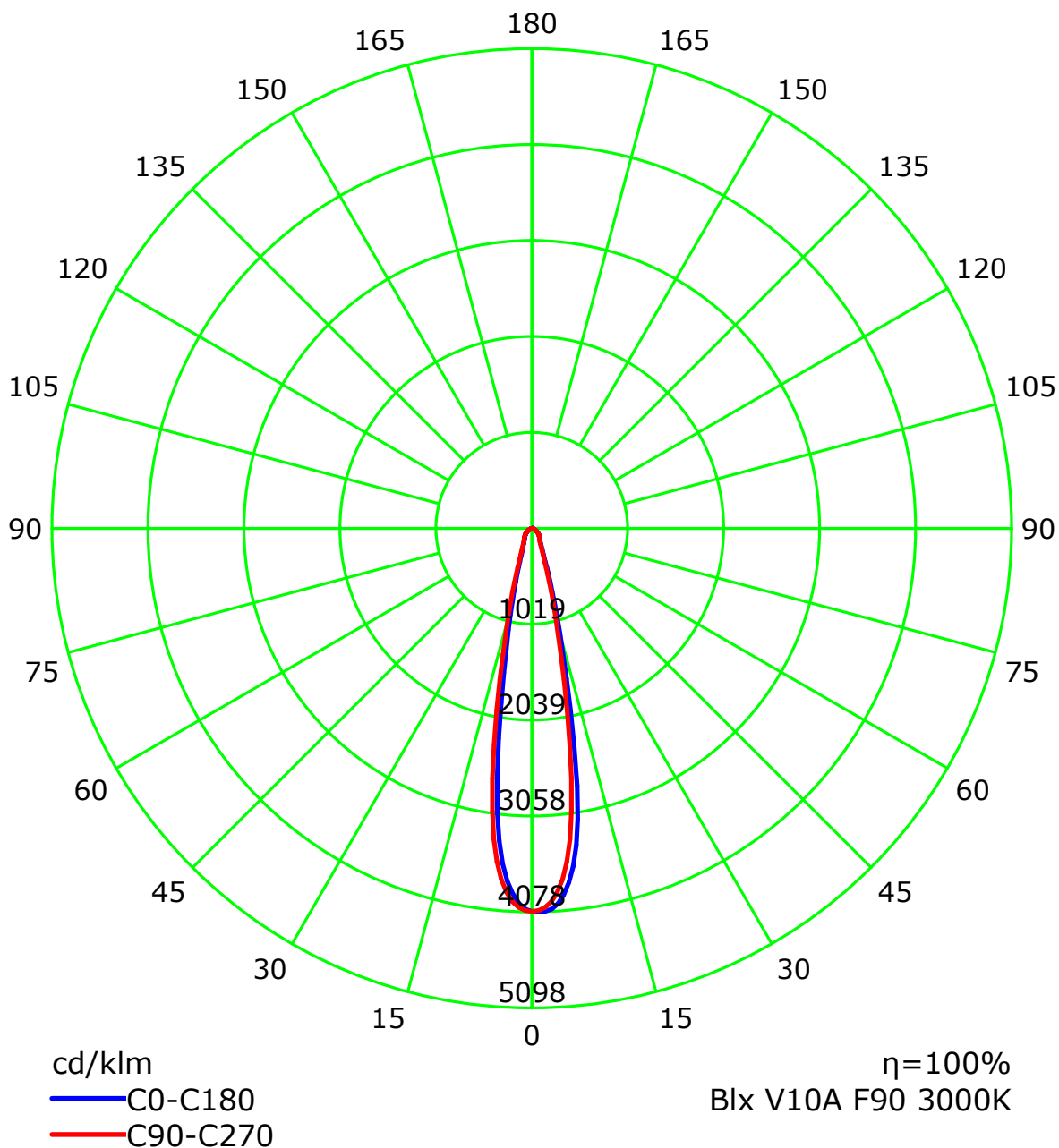
Luminous Intensity Distribution Curve



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: 3.010 m
Humidity:
Inspector:

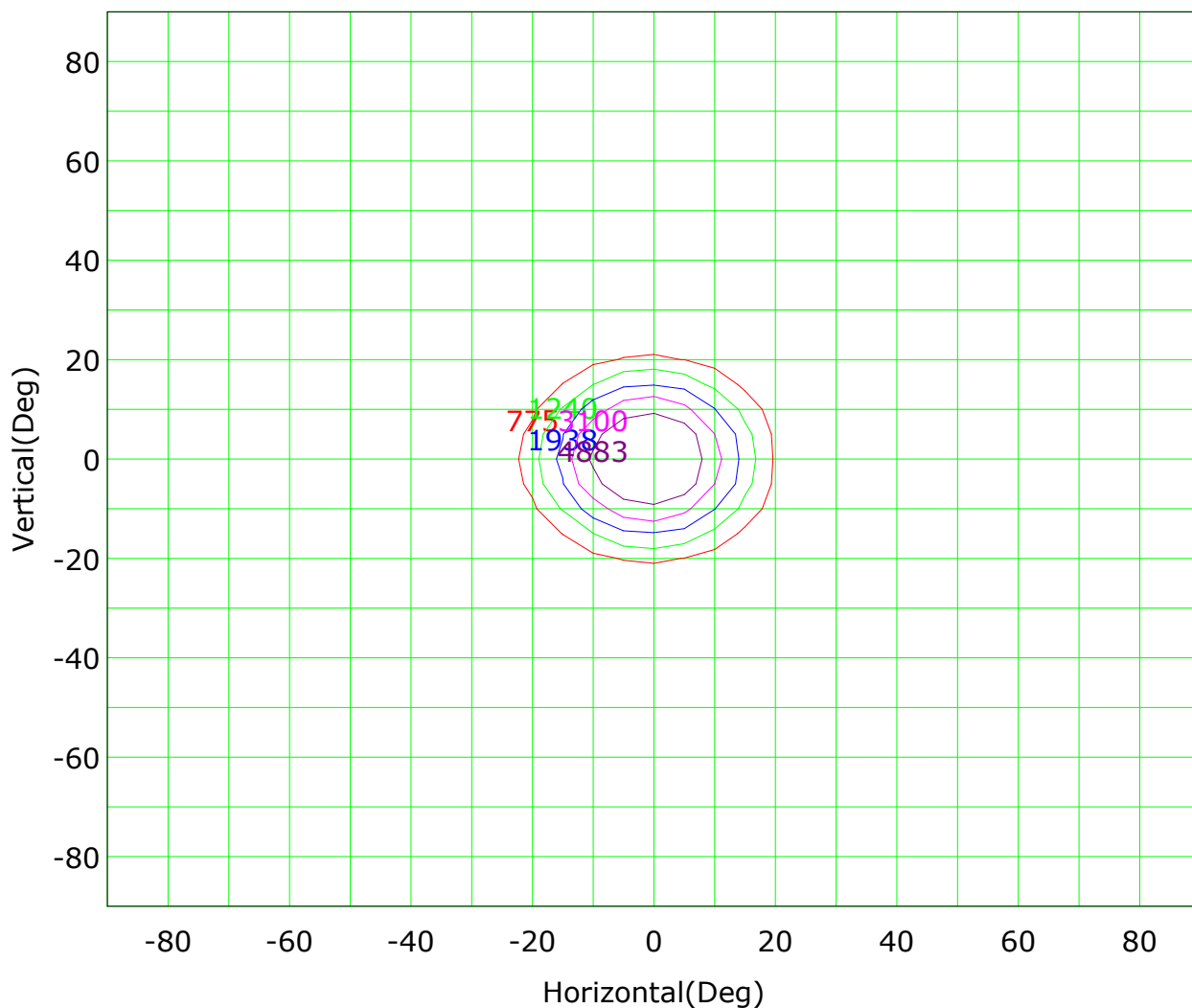
Luminous Intensity Distribution Curve(cd/klm)



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%): 7751 cd

(10%): 775 cd	(16%): 1240 cd
(25%): 1938 cd	(40%): 3100 cd
(63%): 4883 cd	(100%): 7751 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

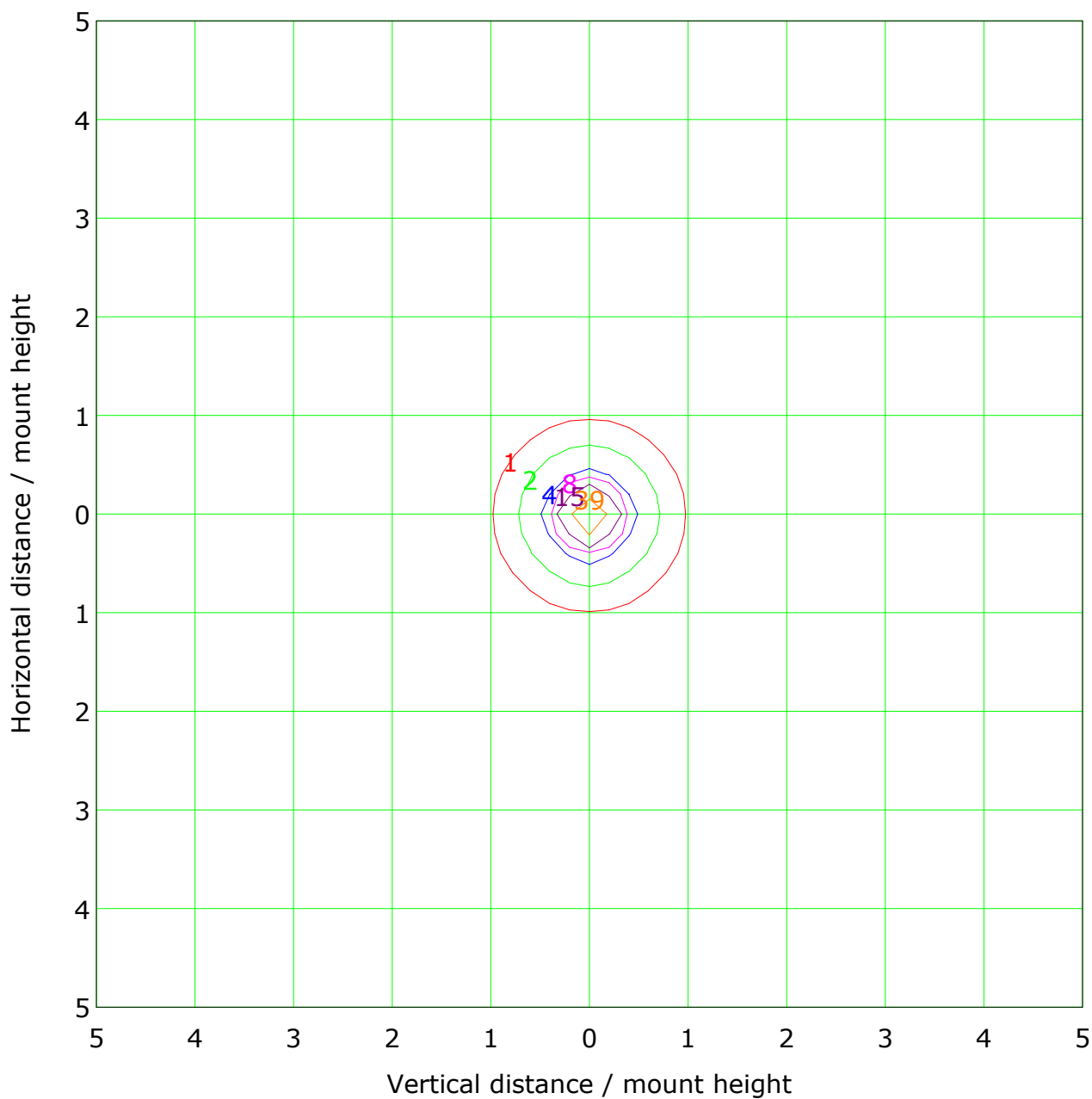
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 77.5 lx

(1%): 0.8 lx	(2%): 1.5 lx
(5%): 3.9 lx	(10%): 7.7 lx
(20%): 15.5 lx	(50%): 38.7 lx
(100%): 77.5 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

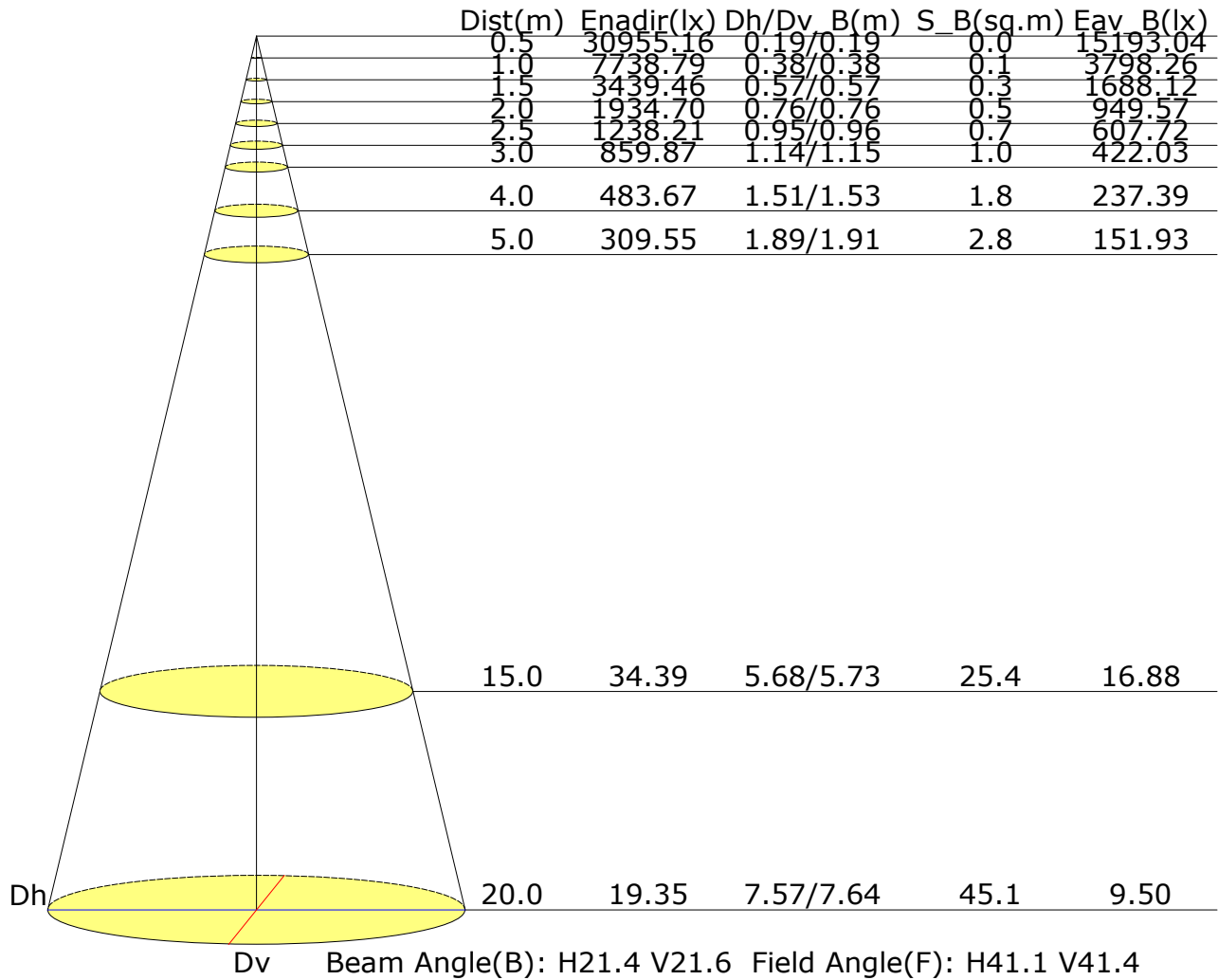
Test Device: CHL-6E

Distance: 3.010 m

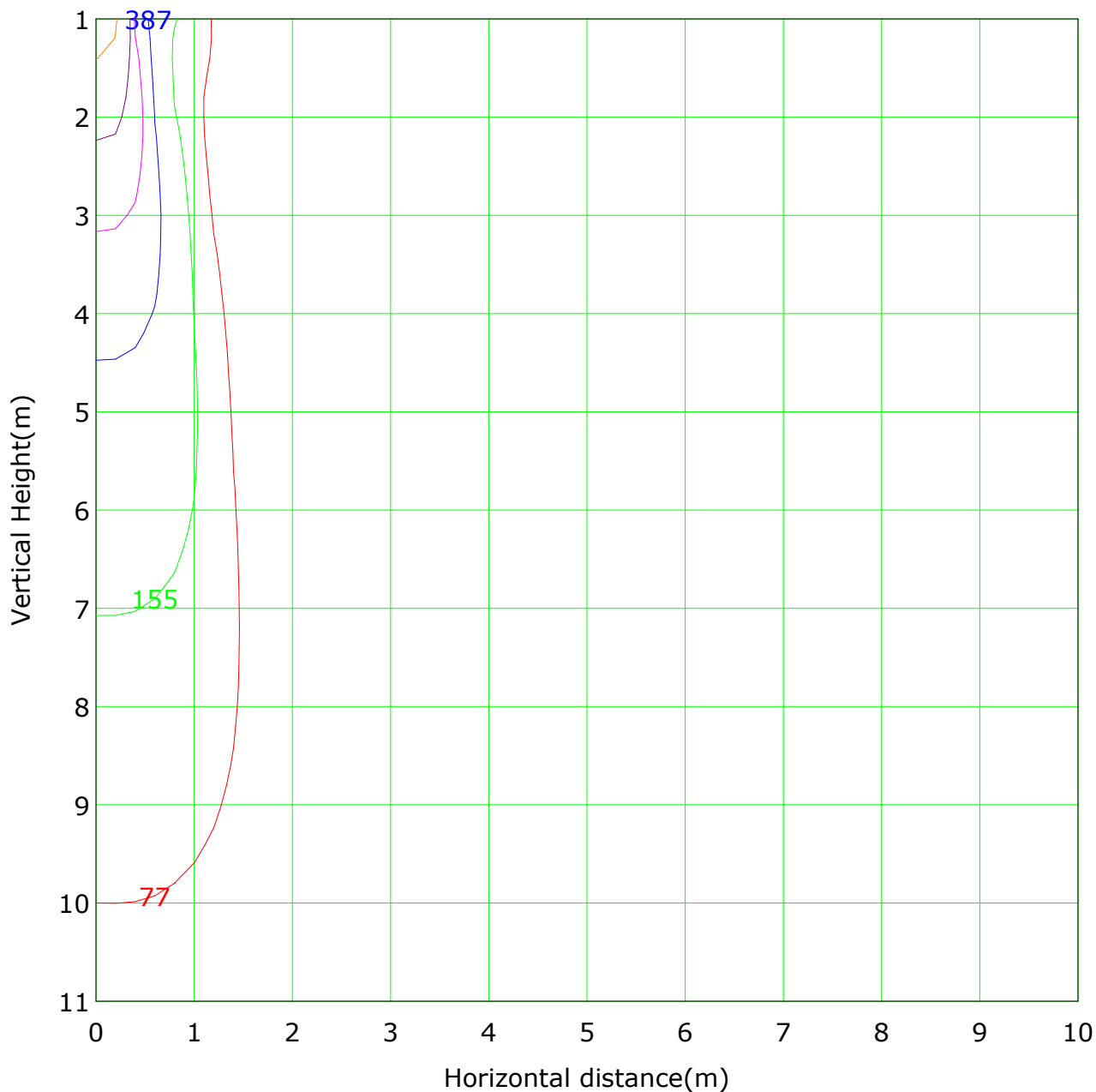
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 7738.8 lx

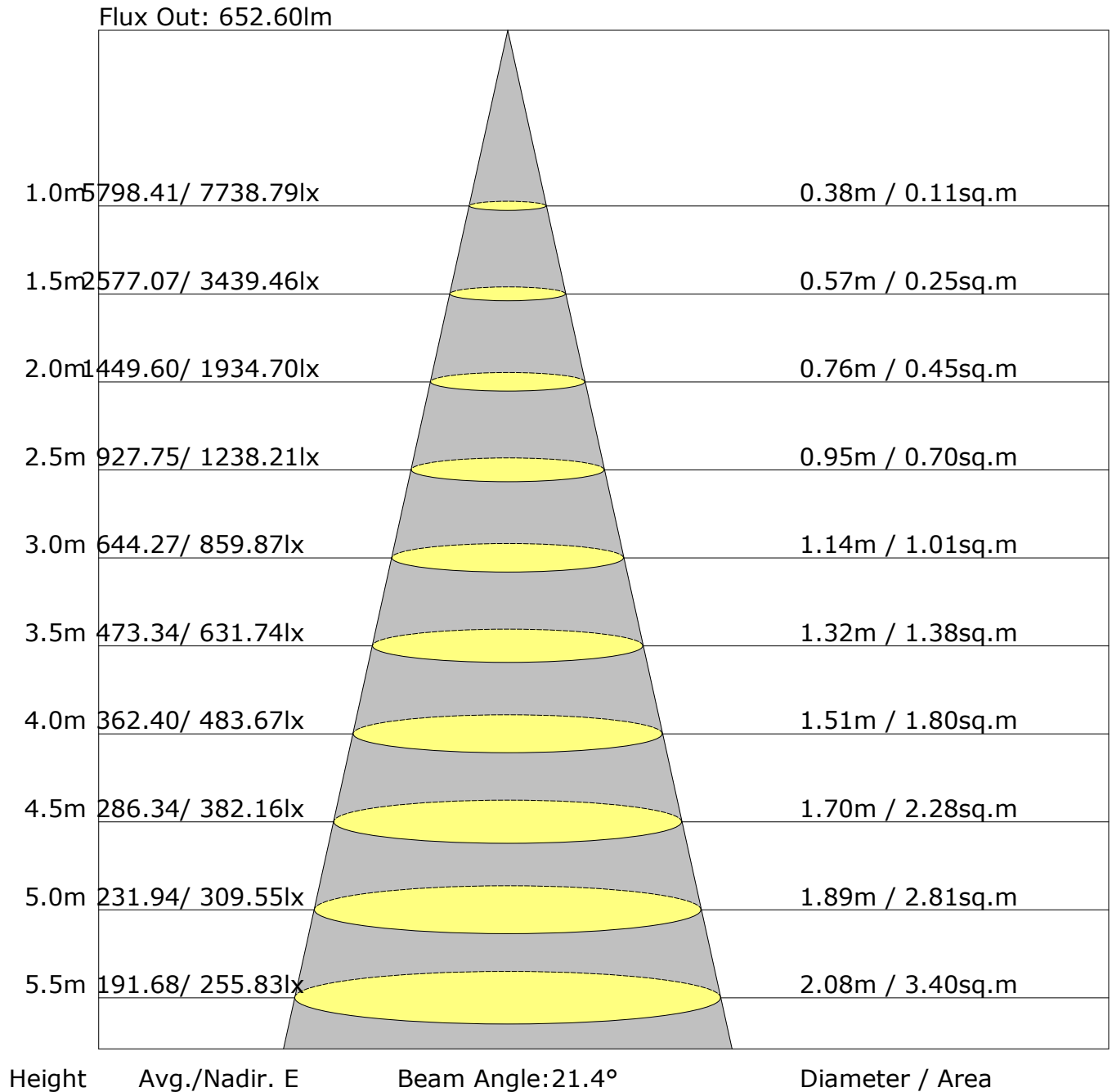
(1%): 77.4 lx	(2%): 154.8 lx
(5%): 386.9 lx	(10%): 773.9 lx
(20%): 1547.8 lx	(50%): 3869.4 lx
(100%): 7738.8 lx	

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:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 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	24.2	25.0	24.5	25.2	25.4	24.0	24.8	24.3	25.0	25.2
3H	24.6	25.3	24.9	25.6	25.8	24.4	25.2	24.7	25.4	25.6
4H	24.6	25.3	24.9	25.5	25.8	24.4	25.1	24.7	25.3	25.6
6H	24.5	25.1	24.8	25.4	25.7	24.3	24.9	24.6	25.2	25.5
8H	24.5	25.1	24.8	25.4	25.7	24.3	24.9	24.6	25.2	25.5
12H	24.4	25.0	24.8	25.3	25.6	24.2	24.8	24.6	25.1	25.4
X=4H Y=2H	24.5	25.2	24.9	25.5	25.8	24.4	25.1	24.7	25.3	25.6
3H	25.0	25.6	25.3	25.9	26.2	24.8	25.4	25.2	25.7	26.0
4H	24.9	25.4	25.3	25.8	26.1	24.8	25.3	25.1	25.6	26.0
6H	24.8	25.3	25.2	25.7	26.1	24.7	25.1	25.1	25.5	25.9
8H	24.8	25.2	25.2	25.6	26.0	24.6	25.1	25.1	25.4	25.9
12H	24.7	25.1	25.2	25.5	26.0	24.6	25.0	25.0	25.4	25.8
X=8H Y=4H	24.8	25.3	25.2	25.6	26.0	24.7	25.1	25.1	25.5	25.9
6H	24.7	25.1	25.2	25.5	26.0	24.6	24.9	25.0	25.3	25.8
8H	24.7	25.0	25.2	25.4	25.9	24.5	24.8	25.0	25.3	25.8
12H	24.6	24.9	25.1	25.4	25.9	24.5	24.7	25.0	25.2	25.7
X=12H Y=4H	24.8	25.2	25.2	25.6	26.0	24.6	25.0	25.1	25.4	25.8
6H	24.7	25.0	25.2	25.4	25.9	24.5	24.8	25.0	25.3	25.8
8H	24.6	24.9	25.1	25.4	25.9	24.5	24.7	25.0	25.2	25.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.5					+0.3/-0.6				
S=1.5H	+0.8/-1.6					+0.8/-1.6				
S=2.0H	+1.8/-3.9					+1.7/-3.8				

Calculate in accordance with CIE Pub.117. The table is revised with 1900lm ($8\log(F/F_0) = 2.2$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1000	52.6
	FL (0°-30°)	732	38.5
	FM (30°-60°)	232	12.2
	FH (60°-80°)	36	1.9
	FVH (80°-90°)	0	0.0
	BACK LIGHT	900	47.4
	BL (0°-30°)	645	33.9
	BM (30°-60°)	220	11.6
	BH (60°-80°)	35	1.8
	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)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 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	7729.7	7.4	7.4	0.39	0.39
1.0-2.0	7690.5	22.1	29.5	1.16	1.55
2.0-3.0	7605.4	36.4	65.9	1.91	3.47
3.0-4.0	7460.3	49.9	115.8	2.63	6.09
4.0-5.0	7241.6	62.3	178.1	3.28	9.37
5.0-6.0	6941.2	73.0	251.1	3.84	13.21
6.0-7.0	6546.6	81.3	332.3	4.28	17.49
7.0-8.0	6044.9	86.5	418.9	4.55	22.04
8.0-9.0	5440.0	88.2	507.0	4.64	26.68
9.0-10.0	4771.3	86.4	593.4	4.54	31.22
10.0-11.0	4086.5	81.7	675.1	4.30	35.52
11.0-12.0	3435.9	75.1	750.2	3.95	39.47
12.0-13.0	2870.9	68.1	818.3	3.59	43.06
13.0-14.0	2406.2	61.6	879.9	3.24	46.30
14.0-15.0	2030.4	55.7	935.7	2.93	49.24
15.0-16.0	1723.6	50.5	986.2	2.66	51.89
16.0-17.0	1466.2	45.7	1031.8	2.40	54.30
17.0-18.0	1250.2	41.2	1073.1	2.17	56.47
18.0-19.0	1069.7	37.2	1110.3	1.96	58.42
19.0-20.0	918.2	33.6	1143.9	1.77	60.19
20.0-21.0	794.5	30.5	1174.4	1.61	61.80
21.0-22.0	695.8	28.0	1202.4	1.47	63.27
22.0-23.0	617.4	25.9	1228.3	1.36	64.63
23.0-24.0	554.8	24.3	1252.5	1.28	65.91
24.0-25.0	505.1	23.0	1275.5	1.21	67.12
25.0-26.0	465.1	22.0	1297.5	1.16	68.27
26.0-27.0	430.4	21.1	1318.5	1.11	69.38
27.0-28.0	399.9	20.2	1338.8	1.07	70.45
28.0-29.0	374.7	19.6	1358.4	1.03	71.48
29.0-30.0	352.4	19.0	1377.4	1.00	72.48
30.0-31.0	333.6	18.6	1396.0	0.98	73.46
31.0-32.0	318.5	18.2	1414.2	0.96	74.42
32.0-33.0	305.3	18.0	1432.2	0.95	75.36
33.0-34.0	294.0	17.8	1450.0	0.94	76.30
34.0-35.0	284.6	17.7	1467.7	0.93	77.23
35.0-36.0	275.9	17.6	1485.3	0.92	78.16

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 (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	268.4	17.5	1502.8	0.92	79.08
37.0-38.0	260.5	17.4	1520.1	0.91	79.99
38.0-39.0	252.2	17.2	1537.4	0.91	80.90
39.0-40.0	243.9	17.0	1554.4	0.90	81.79
40.0-41.0	235.2	16.8	1571.1	0.88	82.67
41.0-42.0	227.3	16.5	1587.6	0.87	83.54
42.0-43.0	219.7	16.3	1603.9	0.86	84.40
43.0-44.0	213.0	16.1	1620.0	0.85	85.25
44.0-45.0	206.2	15.8	1635.8	0.83	86.08
45.0-46.0	199.8	15.6	1651.5	0.82	86.90
46.0-47.0	193.4	15.4	1666.8	0.81	87.71
47.0-48.0	186.2	15.1	1681.9	0.79	88.50
48.0-49.0	179.4	14.7	1696.6	0.78	89.28
49.0-50.0	172.6	14.4	1711.0	0.76	90.04
50.0-51.0	164.7	13.9	1725.0	0.73	90.77
51.0-52.0	157.2	13.5	1738.5	0.71	91.48
52.0-53.0	150.4	13.1	1751.5	0.69	92.17
53.0-54.0	143.2	12.6	1764.2	0.66	92.83
54.0-55.0	135.7	12.1	1776.3	0.64	93.47
55.0-56.0	128.9	11.6	1787.9	0.61	94.08
56.0-57.0	122.9	11.2	1799.2	0.59	94.67
57.0-58.0	116.8	10.8	1810.0	0.57	95.24
58.0-59.0	110.4	10.3	1820.3	0.54	95.79
59.0-60.0	103.6	9.8	1830.1	0.52	96.30
60.0-61.0	96.5	9.2	1839.3	0.48	96.79
61.0-62.0	89.0	8.6	1847.9	0.45	97.24
62.0-63.0	81.0	7.9	1855.8	0.41	97.65
63.0-64.0	73.1	7.2	1862.9	0.38	98.03
64.0-65.0	65.6	6.5	1869.4	0.34	98.37
65.0-66.0	57.7	5.8	1875.2	0.30	98.67
66.0-67.0	50.5	5.1	1880.3	0.27	98.94
67.0-68.0	44.1	4.5	1884.7	0.24	99.18
68.0-69.0	37.7	3.8	1888.6	0.20	99.38
69.0-70.0	32.0	3.3	1891.9	0.17	99.55
70.0-71.0	26.4	2.7	1894.6	0.14	99.69
71.0-72.0	20.4	2.1	1896.7	0.11	99.81

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:

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	7738.8	7738.8								
G1.0	7750.9	7690.5								
G2.0	7741.8	7579.0								
G3.0	7699.6	7401.1								
G4.0	7598.6	7141.8								
G5.0	7426.7	6799.5								
G6.0	7191.5	6347.2								
G7.0	6879.4	5768.3								
G8.0	6464.8	5067.2								
G9.0	5934.1	4293.8								
G10.0	5278.3	3579.2								
G11.0	4513.9	2974.6								
G12.0	3763.1	2492.1								
G13.0	3117.8	2110.7								
G14.0	2597.7	1798.6								
G15.0	2192.1	1533.3								
G16.0	1857.4	1311.7								
G17.0	1575.5	1120.2								
G18.0	1344.8	960.4								
G19.0	1148.8	824.7								
G20.0	983.0	716.1								
G21.0	847.3	631.7								
G22.0	734.2	569.9								
G23.0	643.8	521.7								
G24.0	572.9	480.9								
G25.0	521.7	444.8								
G26.0	479.4	414.6								
G27.0	441.7	386.0								
G28.0	411.6	360.3								
G29.0	382.9	343.8								
G30.0	357.3	325.6								
G31.0	340.7	310.6								
G32.0	324.1	298.5								
G33.0	312.1	286.5								
G34.0	300.0	277.4								
G35.0	289.5	271.4								
G36.0	280.4	262.3								

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Distance: 3.010 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	277.4	253.3								
G38.0	271.4	239.7								
G39.0	265.4	232.2								
G40.0	253.3	224.6								
G41.0	244.2	218.6								
G42.0	233.7	212.6								
G43.0	227.7	205.0								
G44.0	220.1	199.0								
G45.0	212.6	193.0								
G46.0	205.0	188.5								
G47.0	200.5	179.4								
G48.0	193.0	171.9								
G49.0	186.9	165.8								
G50.0	180.9	156.8								
G51.0	170.4	150.8								
G52.0	162.8	144.7								
G53.0	155.3	138.7								
G54.0	147.8	131.2								
G55.0	140.2	123.6								
G56.0	132.7	119.1								
G57.0	129.7	110.1								
G58.0	120.6	107.0								
G59.0	113.1	101.0								
G60.0	107.0	93.5								
G61.0	96.5	88.9								
G62.0	87.4	82.9								
G63.0	81.4	72.4								
G64.0	72.4	66.3								
G65.0	63.3	60.3								
G66.0	55.8	51.3								
G67.0	48.2	46.7								
G68.0	42.2	39.2								
G69.0	34.7	34.7								
G70.0	30.1	28.6								
G71.0	24.1	22.6								
G72.0	16.6	18.1								
G73.0	12.1	12.1								

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:

Inspector: