

Report No.:

Test Time: 2024-10-06 16:49

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): -95

Voltage: 223.9 V

Power: 40.50 W

Luminous Width (mm): -95

Current: 0.182 A

Power Factor: 0.993

Photometric Results

CIE Class: Direct

Measurement Flux: 4259 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H26.8

Vertical Diffuse Angle(50%): V26.8

Luminaire Efficacy Rating (LER): 105.21

Max. Intensity: 15694 cd

S/MH(C0/C180): 0.47

Total Rated Lamp Lumens: 4259.0 lm

Efficiency: 100%

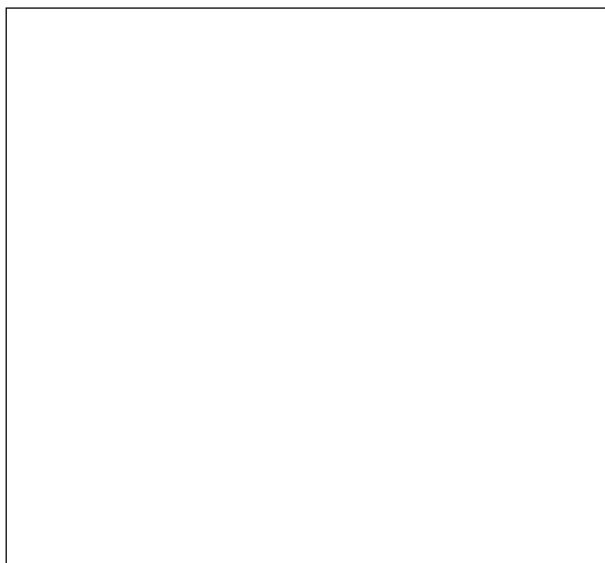
Upward Ratio: 0%

Central Intensity: 15561.85 cd

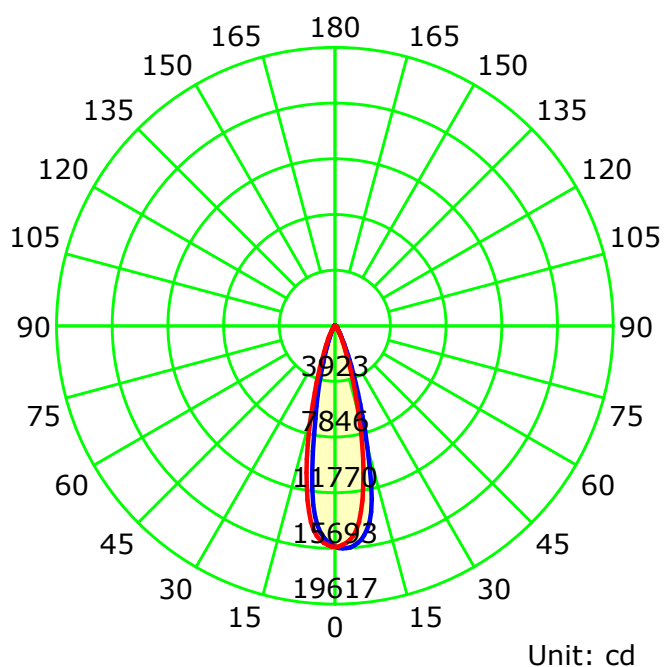
Pos of Max. Intensity: H0 V2

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

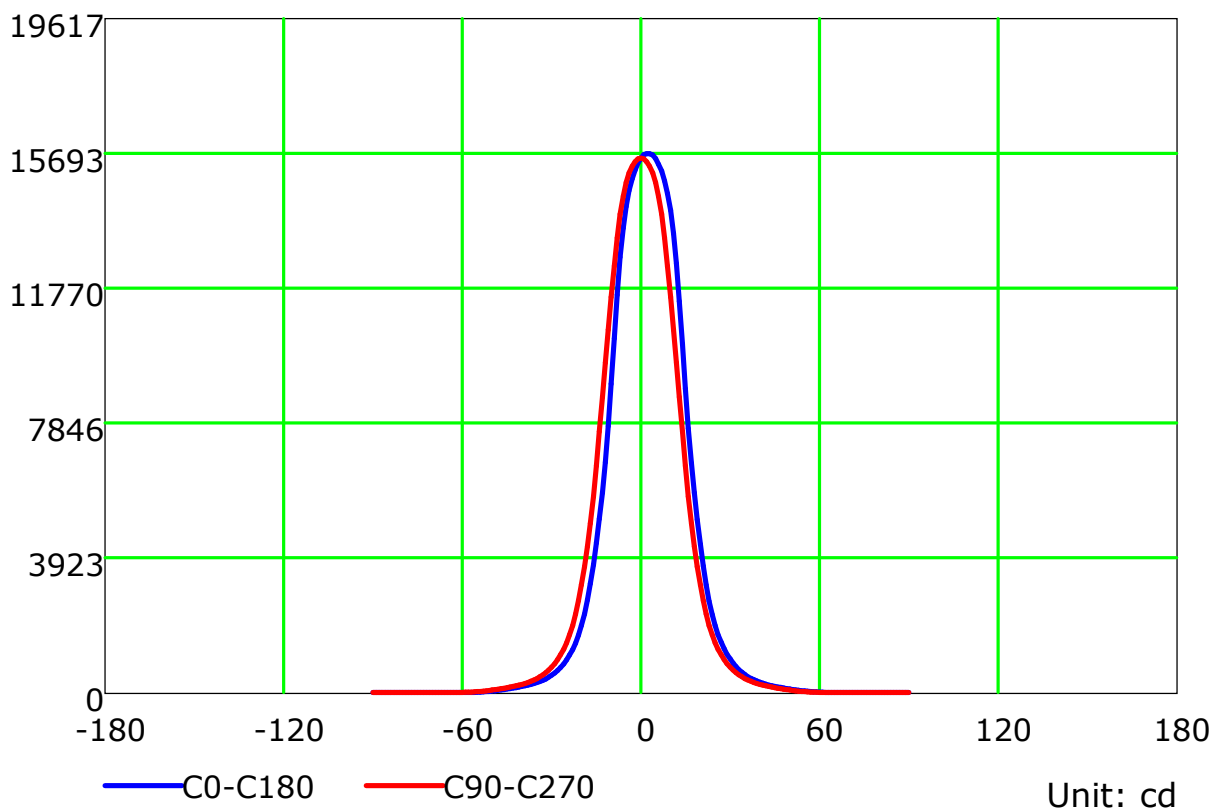
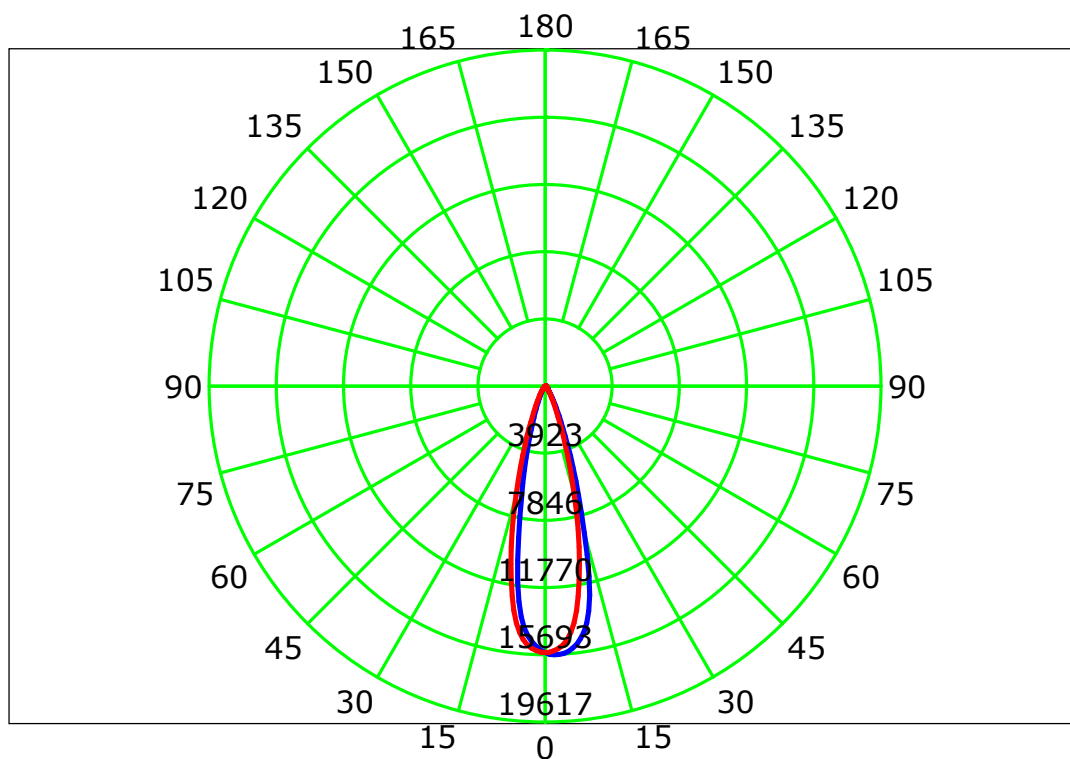
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

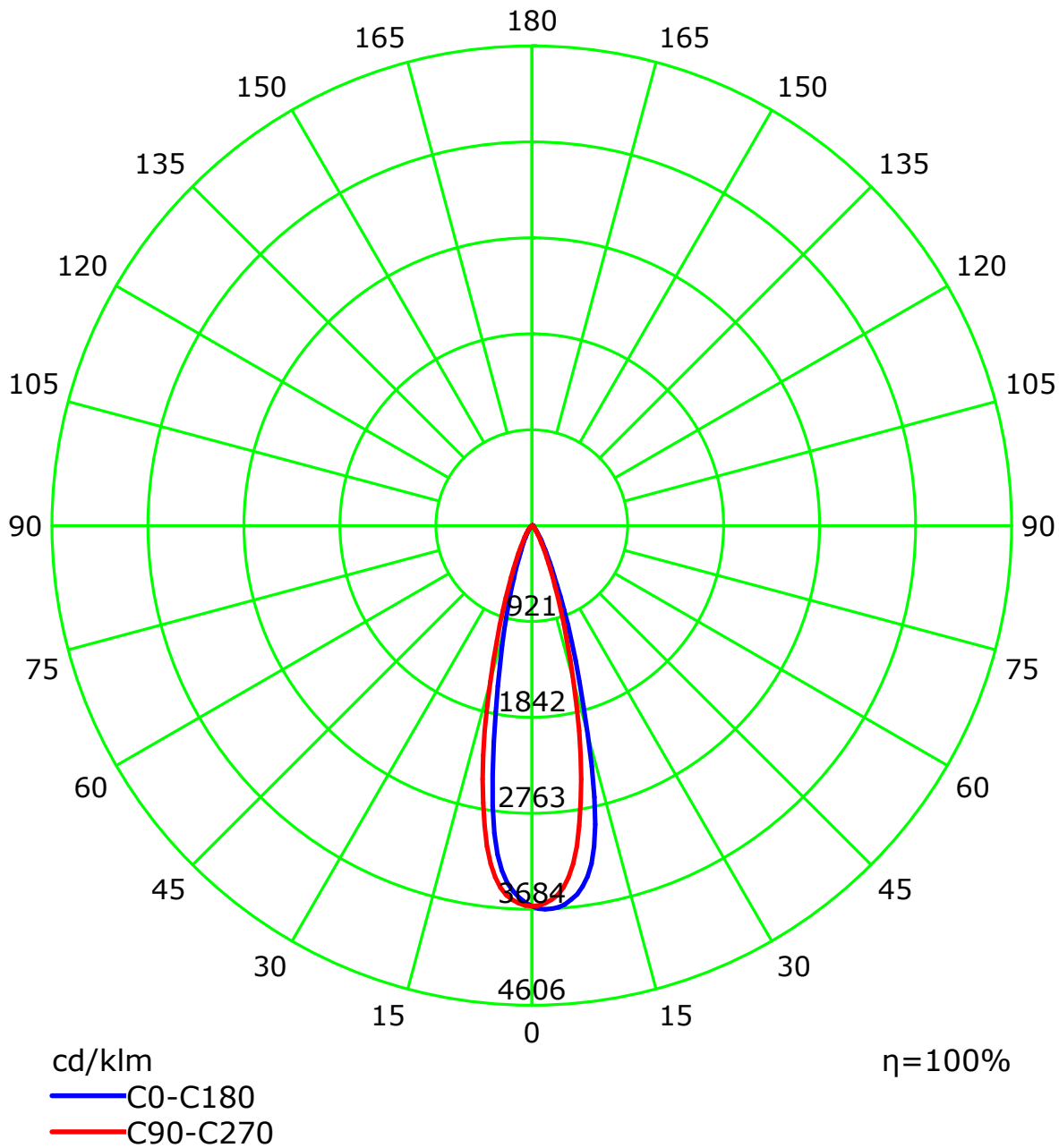
Luminous Intensity Distribution Curve



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: 3.328 m
Humidity:
Inspector:

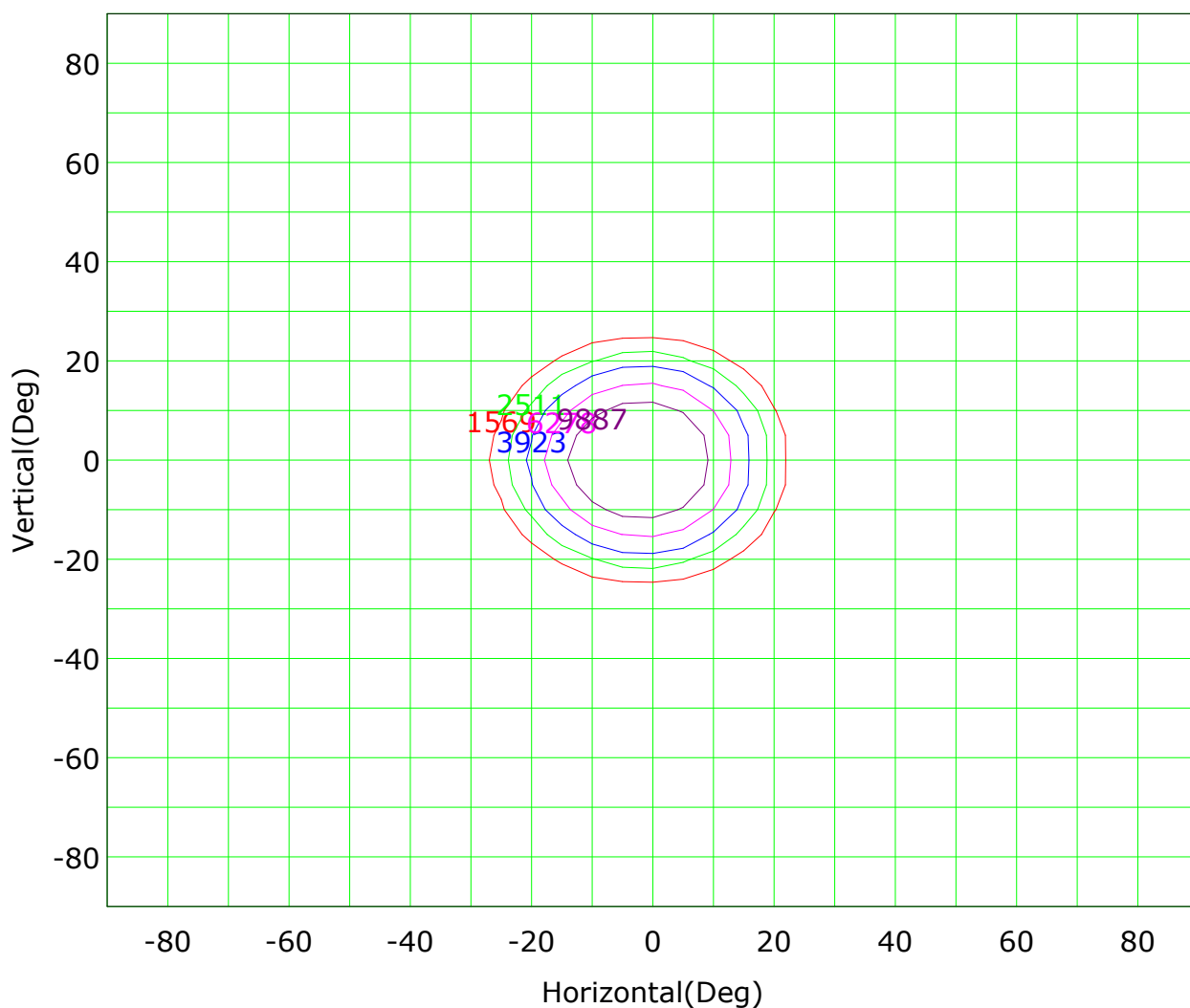
Luminous Intensity Distribution Curve(cd/klm)



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%): 15694 cd

(10%): 1569 cd	(16%): 2511 cd
(25%): 3923 cd	(40%): 6278 cd
(63%): 9887 cd	(100%): 15694 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

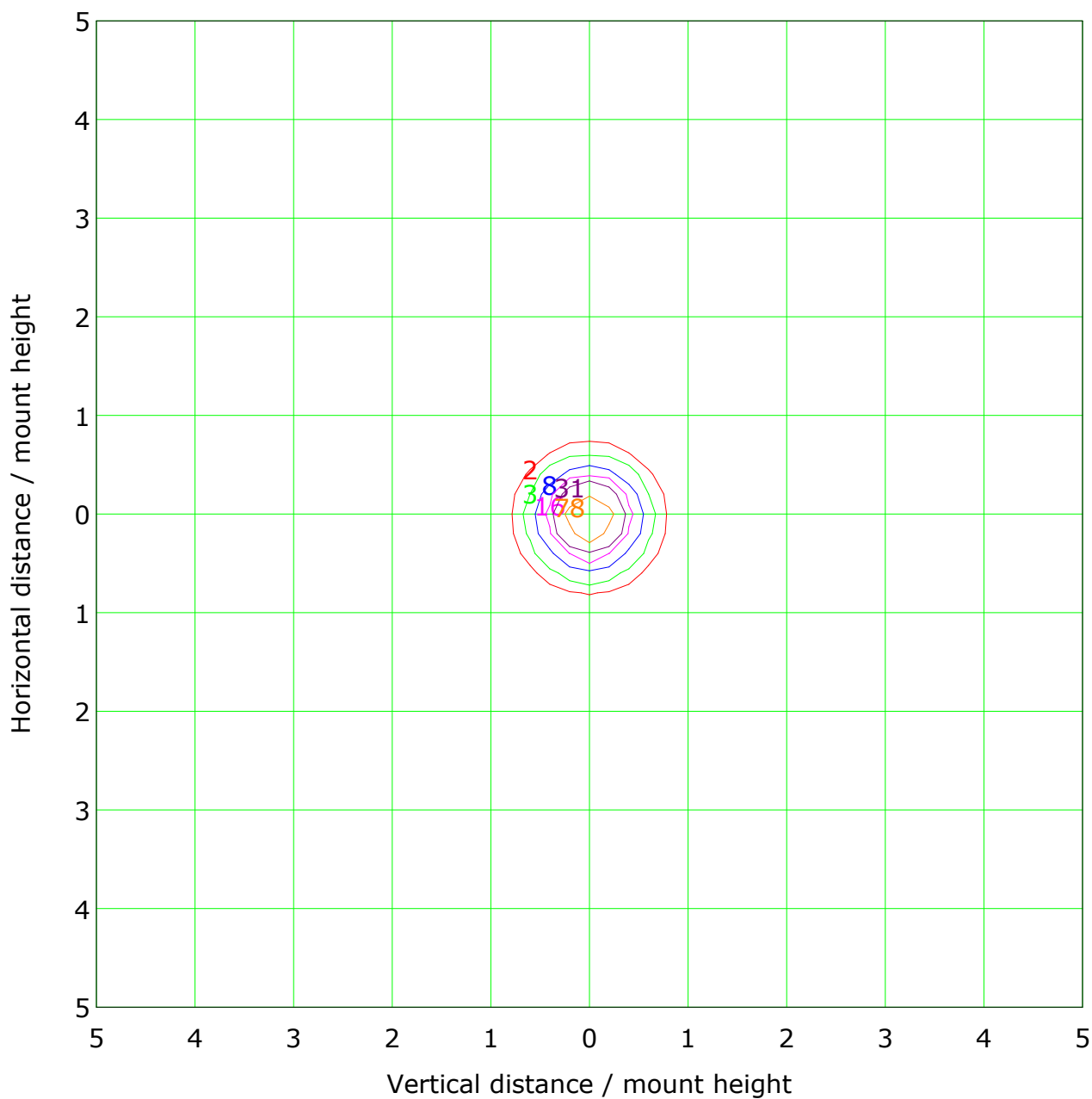
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



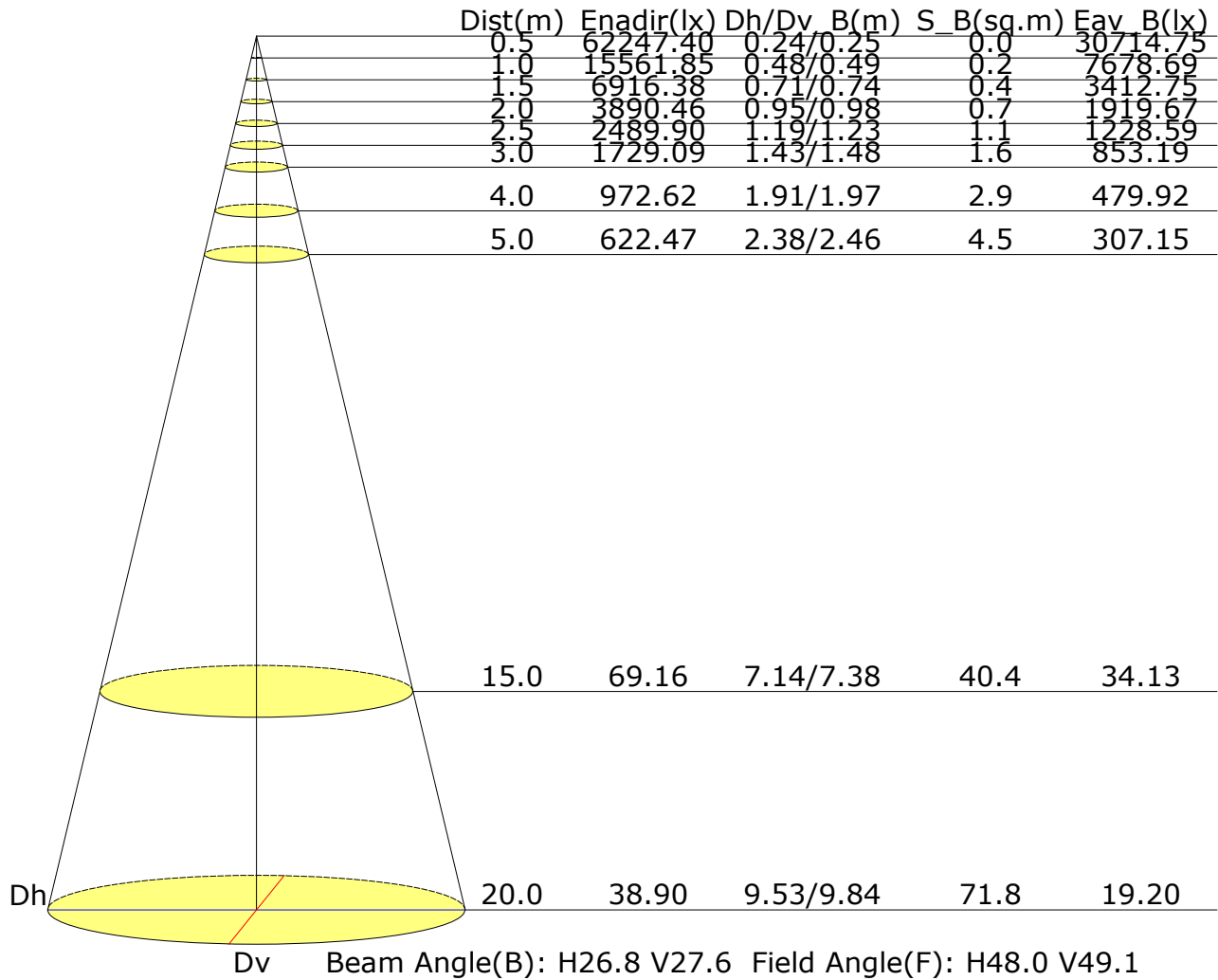
Mounting Height: 10.0m Max Lux(100%): 156.7 lx

(1%): 1.6 lx	(2%): 3.1 lx
(5%): 7.8 lx	(10%): 15.7 lx
(20%): 31.3 lx	(50%): 78.3 lx
(100%): 156.7 lx	

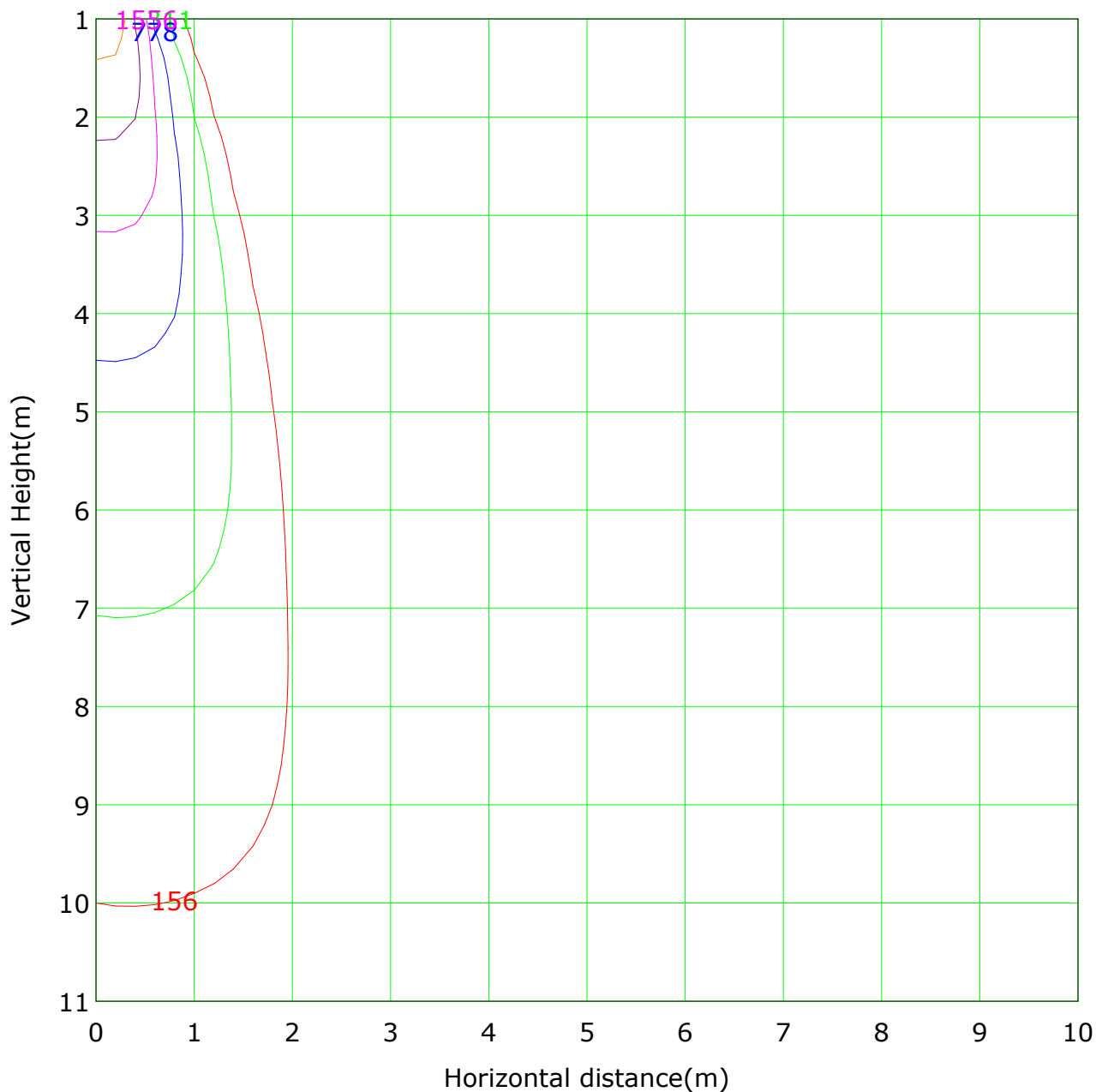
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Illuminance at a Distance



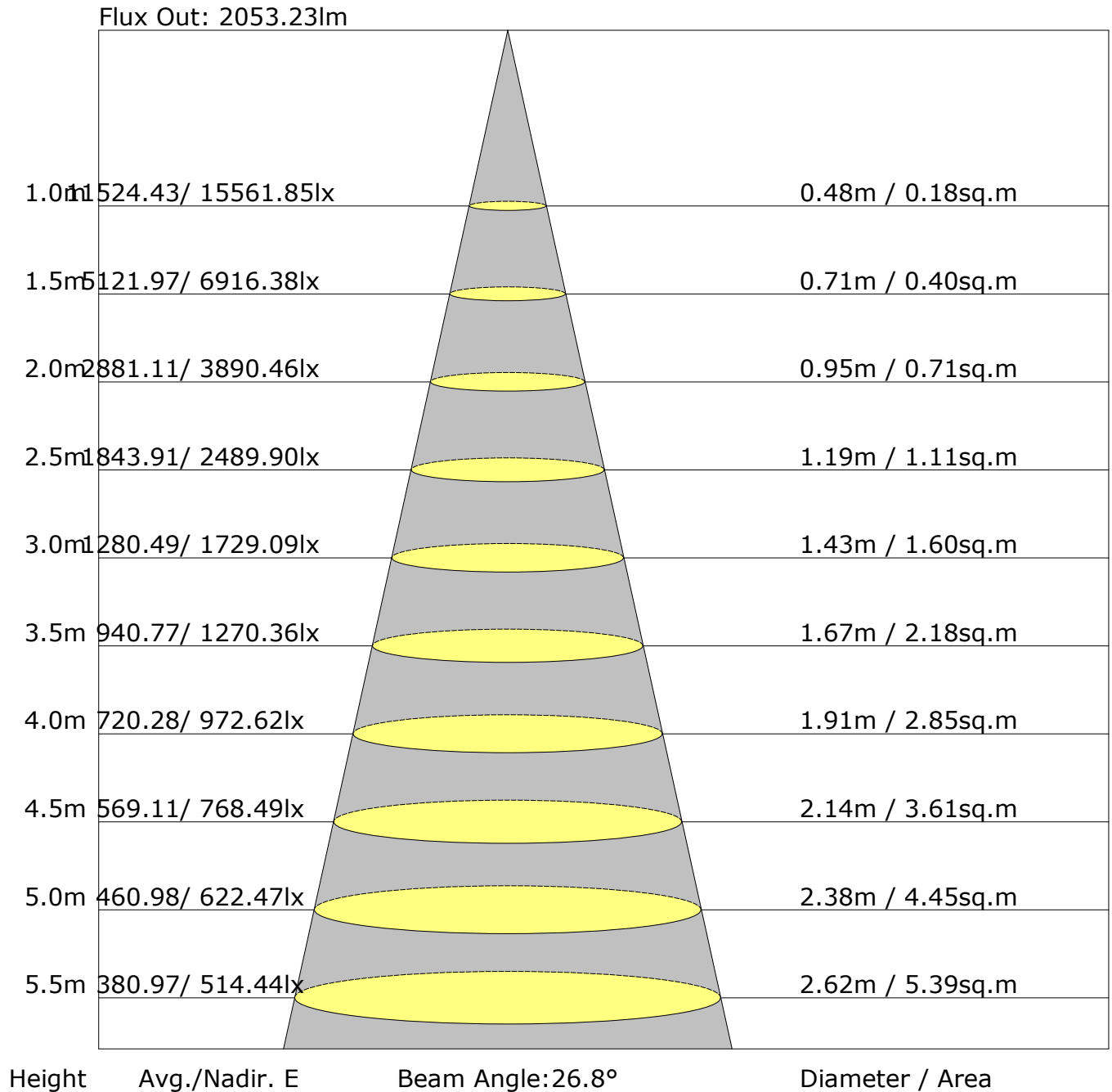
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 15561.8 lx
 (1%): 155.6 lx (2%): 311.2 lx
 (5%): 778.1 lx (10%): 1556.2 lx
 (20%): 3112.4 lx (50%): 7780.9 lx
 (100%): 15561.8 lx

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	16.8	17.5	17.0	17.6	17.8	15.7	16.4	16.0	16.6	16.8
3H	16.7	17.3	16.9	17.5	17.7	15.6	16.2	15.9	16.4	16.7
4H	16.6	17.1	16.9	17.4	17.7	15.5	16.1	15.8	16.3	16.6
6H	16.5	17.0	16.8	17.3	17.6	15.5	16.0	15.8	16.3	16.5
8H	16.5	17.0	16.8	17.3	17.6	15.4	15.9	15.8	16.2	16.5
12H	16.4	16.9	16.8	17.2	17.5	15.4	15.9	15.7	16.2	16.5
X=4H Y=2H	16.6	17.2	16.9	17.4	17.7	15.6	16.1	15.9	16.4	16.6
3H	16.5	16.9	16.8	17.2	17.6	15.4	15.9	15.8	16.2	16.5
4H	16.4	16.8	16.7	17.1	17.5	15.3	15.8	15.7	16.1	16.4
6H	16.3	16.7	16.7	17.0	17.4	15.2	15.6	15.6	16.0	16.4
8H	16.2	16.6	16.7	17.0	17.4	15.2	15.5	15.6	15.9	16.3
12H	16.2	16.5	16.6	16.9	17.3	15.1	15.5	15.6	15.9	16.3
X=8H Y=4H	16.2	16.6	16.7	17.0	17.4	15.2	15.5	15.6	15.9	16.3
6H	16.1	16.4	16.6	16.8	17.3	15.1	15.4	15.5	15.8	16.3
8H	16.1	16.3	16.6	16.8	17.3	15.0	15.3	15.5	15.7	16.2
12H	16.0	16.3	16.5	16.7	17.2	15.0	15.2	15.5	15.7	16.2
X=12H Y=4H	16.2	16.5	16.6	16.9	17.3	15.1	15.5	15.6	15.9	16.3
6H	16.1	16.3	16.6	16.8	17.3	15.0	15.3	15.5	15.7	16.2
8H	16.0	16.3	16.5	16.7	17.2	15.0	15.2	15.5	15.7	16.2
Variations with the observer position at spacings:										
S=1.0H	+3.9/-6.8					+3.6/-8.2				
S=1.5H	+6.5/-30.6					+6.2/-32.3				
S=2.0H	+8.5/-1.\$					+8.2/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 4259lm ($8\log(F/F_0) = 5.0$).

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	2403	56.4
	FL (0°-30°)	2166	50.9
	FM (30°-60°)	236	5.6
	FH (60°-80°)	1	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1856	43.6
	BL (0°-30°)	1682	39.5
	BM (30°-60°)	174	4.1
	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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	15551.6	14.9	14.9	0.35	0.35
1.0-2.0	15498.0	44.5	59.4	1.04	1.39
2.0-3.0	15390.7	73.6	133.0	1.73	3.12
3.0-4.0	15230.2	102.0	235.0	2.39	5.52
4.0-5.0	14992.1	129.0	363.9	3.03	8.55
5.0-6.0	14652.1	154.0	517.9	3.62	12.16
6.0-7.0	14192.7	176.2	694.1	4.14	16.30
7.0-8.0	13585.3	194.5	888.6	4.57	20.86
8.0-9.0	12829.5	208.0	1096.5	4.88	25.75
9.0-10.0	11965.9	216.6	1313.1	5.09	30.83
10.0-11.0	11035.6	220.5	1533.6	5.18	36.01
11.0-12.0	10079.7	220.4	1754.0	5.17	41.18
12.0-13.0	9103.3	216.1	1970.1	5.07	46.26
13.0-14.0	8102.6	207.4	2177.5	4.87	51.13
14.0-15.0	7101.5	195.0	2372.5	4.58	55.71
15.0-16.0	6156.2	180.4	2552.9	4.24	59.94
16.0-17.0	5316.9	165.6	2718.5	3.89	63.83
17.0-18.0	4590.5	151.4	2869.9	3.55	67.38
18.0-19.0	3958.7	137.7	3007.6	3.23	70.62
19.0-20.0	3401.2	124.5	3132.1	2.92	73.54
20.0-21.0	2908.7	111.7	3243.8	2.62	76.16
21.0-22.0	2482.1	99.8	3343.6	2.34	78.51
22.0-23.0	2120.9	89.0	3432.6	2.09	80.60
23.0-24.0	1818.9	79.5	3512.1	1.87	82.46
24.0-25.0	1566.7	71.2	3583.4	1.67	84.14
25.0-26.0	1355.7	64.0	3647.4	1.50	85.64
26.0-27.0	1180.3	57.8	3705.1	1.36	87.00
27.0-28.0	1032.2	52.3	3757.4	1.23	88.22
28.0-29.0	904.8	47.3	3804.7	1.11	89.33
29.0-30.0	794.7	42.9	3847.7	1.01	90.34
30.0-31.0	699.4	38.9	3886.6	0.91	91.26
31.0-32.0	616.8	35.3	3921.9	0.83	92.09
32.0-33.0	547.3	32.2	3954.2	0.76	92.84
33.0-34.0	487.1	29.5	3983.6	0.69	93.54
34.0-35.0	434.1	27.0	4010.6	0.63	94.17
35.0-36.0	388.0	24.7	4035.3	0.58	94.75

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	347.2	22.6	4058.0	0.53	95.28
37.0-38.0	311.7	20.8	4078.8	0.49	95.77
38.0-39.0	281.1	19.2	4098.0	0.45	96.22
39.0-40.0	254.3	17.7	4115.7	0.42	96.64
40.0-41.0	230.6	16.4	4132.1	0.39	97.02
41.0-42.0	208.2	15.1	4147.3	0.36	97.38
42.0-43.0	187.6	13.9	4161.2	0.33	97.70
43.0-44.0	168.6	12.7	4173.9	0.30	98.00
44.0-45.0	150.8	11.6	4185.5	0.27	98.27
45.0-46.0	135.3	10.6	4196.1	0.25	98.52
46.0-47.0	120.6	9.6	4205.7	0.23	98.75
47.0-48.0	106.3	8.6	4214.2	0.20	98.95
48.0-49.0	92.9	7.6	4221.9	0.18	99.13
49.0-50.0	81.3	6.8	4228.7	0.16	99.29
50.0-51.0	69.5	5.9	4234.5	0.14	99.43
51.0-52.0	58.6	5.0	4239.6	0.12	99.54
52.0-53.0	49.2	4.3	4243.8	0.10	99.64
53.0-54.0	39.9	3.5	4247.4	0.08	99.73
54.0-55.0	32.7	2.9	4250.3	0.07	99.80
55.0-56.0	26.8	2.4	4252.7	0.06	99.85
56.0-57.0	20.6	1.9	4254.6	0.04	99.90
57.0-58.0	15.3	1.4	4256.0	0.03	99.93
58.0-59.0	11.2	1.0	4257.1	0.02	99.95
59.0-60.0	8.1	0.8	4257.8	0.02	99.97
60.0-61.0	5.9	0.6	4258.4	0.01	99.99
61.0-62.0	4.1	0.4	4258.8	0.01	100.00
62.0-63.0	1.9	0.2	4259.0	0.00	100.00
63.0-64.0	0.3	0.0	4259.0	0.00	100.00
64.0-65.0	0.0	0.0	4259.0	0.00	100.00
65.0-66.0	0.0	0.0	4259.0	0.00	100.00
66.0-67.0	0.0	0.0	4259.0	0.00	100.00
67.0-68.0	0.0	0.0	4259.0	0.00	100.00
68.0-69.0	0.0	0.0	4259.0	0.00	100.00
69.0-70.0	0.0	0.0	4259.0	0.00	100.00
70.0-71.0	0.0	0.0	4259.0	0.00	100.00
71.0-72.0	0.0	0.0	4259.0	0.00	100.00

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

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	15561.8	15561.8								
G1.0	15664.1	15418.5								
G2.0	15694.0	15215.3								
G3.0	15689.0	14964.7								
G4.0	15647.9	14619.4								
G5.0	15548.1	14153.1								
G6.0	15378.6	13528.6								
G7.0	15186.6	12677.1								
G8.0	14901.1	11576.3								
G9.0	14529.6	10311.0								
G10.0	14037.2	8985.8								
G11.0	13365.3	7754.1								
G12.0	12491.4	6708.2								
G13.0	11394.3	5819.3								
G14.0	10142.7	5053.9								
G15.0	8852.4	4357.0								
G16.0	7690.5	3725.0								
G17.0	6679.5	3172.7								
G18.0	5815.6	2694.0								
G19.0	5035.2	2290.1								
G20.0	4323.4	1956.0								
G21.0	3686.3	1669.3								
G22.0	3135.3	1437.4								
G23.0	2661.6	1249.1								
G24.0	2273.9	1090.8								
G25.0	1951.0	951.2								
G26.0	1685.5	835.3								
G27.0	1464.8	735.5								
G28.0	1279.1	649.5								
G29.0	1114.5	576.0								
G30.0	978.6	509.9								
G31.0	860.2	448.8								
G32.0	758.0	400.2								
G33.0	669.5	361.5								
G34.0	592.2	325.4								
G35.0	524.8	294.2								
G36.0	465.0	268.0								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	415.1	240.6								
G38.0	374.0	216.9								
G39.0	337.8	195.7								
G40.0	304.2	179.5								
G41.0	275.5	163.3								
G42.0	246.8	147.1								
G43.0	223.1	133.4								
G44.0	202.0	115.9								
G45.0	182.0	103.5								
G46.0	165.8	89.8								
G47.0	149.6	77.3								
G48.0	132.1	66.1								
G49.0	118.4	54.8								
G50.0	104.7	47.4								
G51.0	89.8	36.2								
G52.0	78.5	29.9								
G53.0	67.3	21.2								
G54.0	54.8	16.2								
G55.0	47.4	12.5								
G56.0	38.7	8.7								
G57.0	29.9	5.0								
G58.0	24.9	1.3								
G59.0	18.7	0.0								
G60.0	13.7	0.0								
G61.0	10.0	0.0								
G62.0	6.2	0.0								
G63.0	1.3	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:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

Unit: cd

[illegible]

Inspector: