

Report No.:

Test Time: 2024-10-13 17:35

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 内调95 50D

Luminous Width (mm): -90

Current: 0.183 A

Power Factor: 0.984

Luminous Length (mm): -90

Voltage: 232.0 V

Power: 41.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4405.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H49.8

Vertical Diffuse Angle(50%): V49.8

Luminaire Efficacy Rating (LER): 105.20

Max. Intensity: 5990.13 cd

S/MH(C0/C180): 0.79

Total Rated Lamp Lumens: 4405.9 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 5990.12 cd

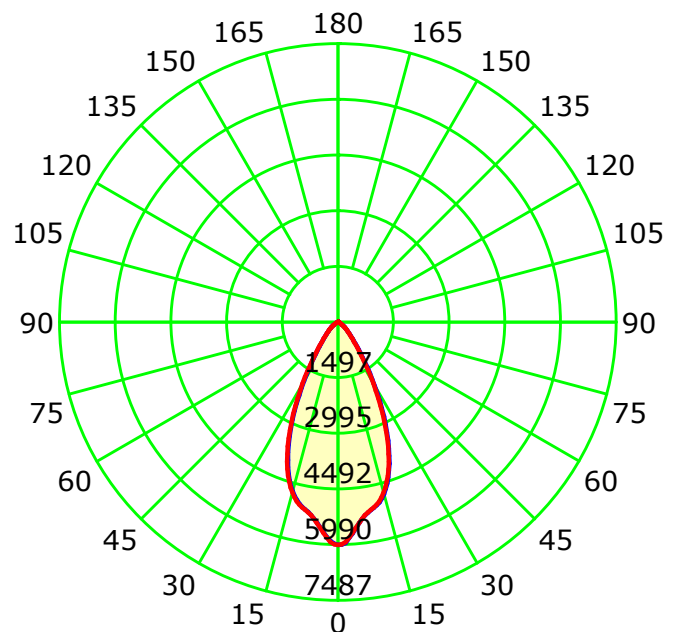
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.79

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— 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

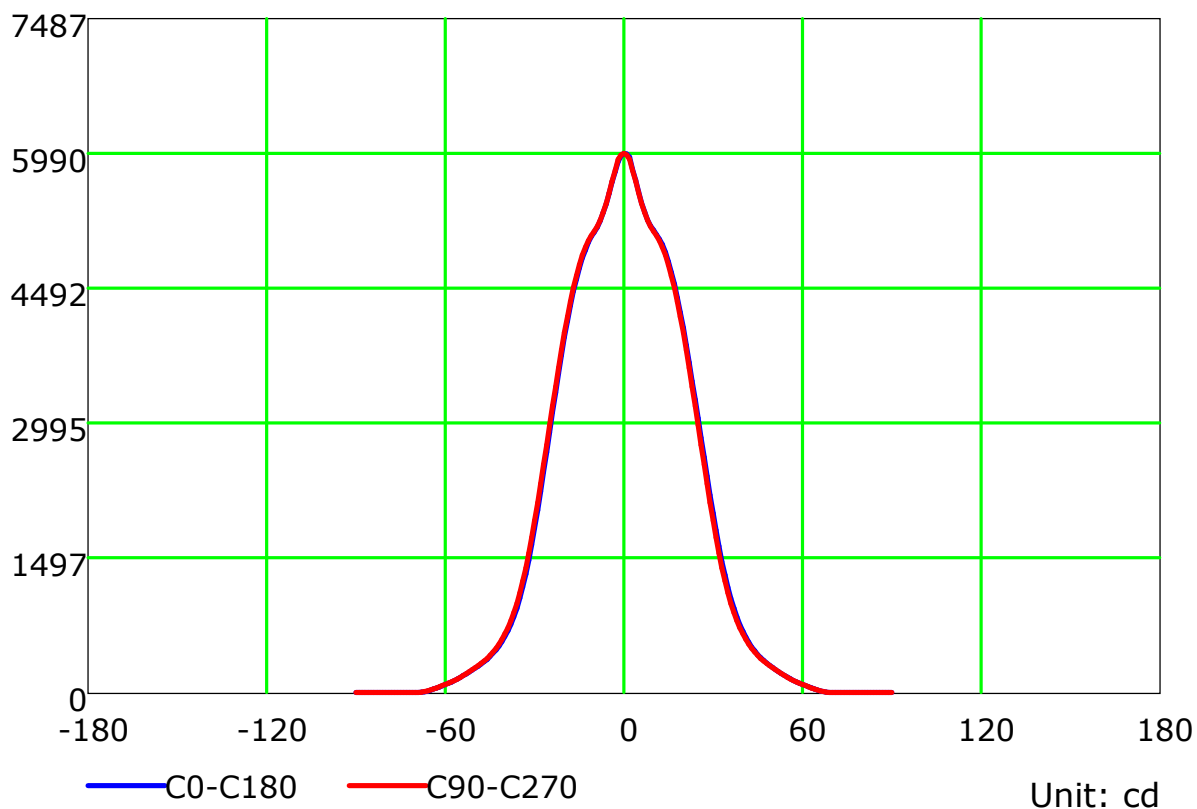
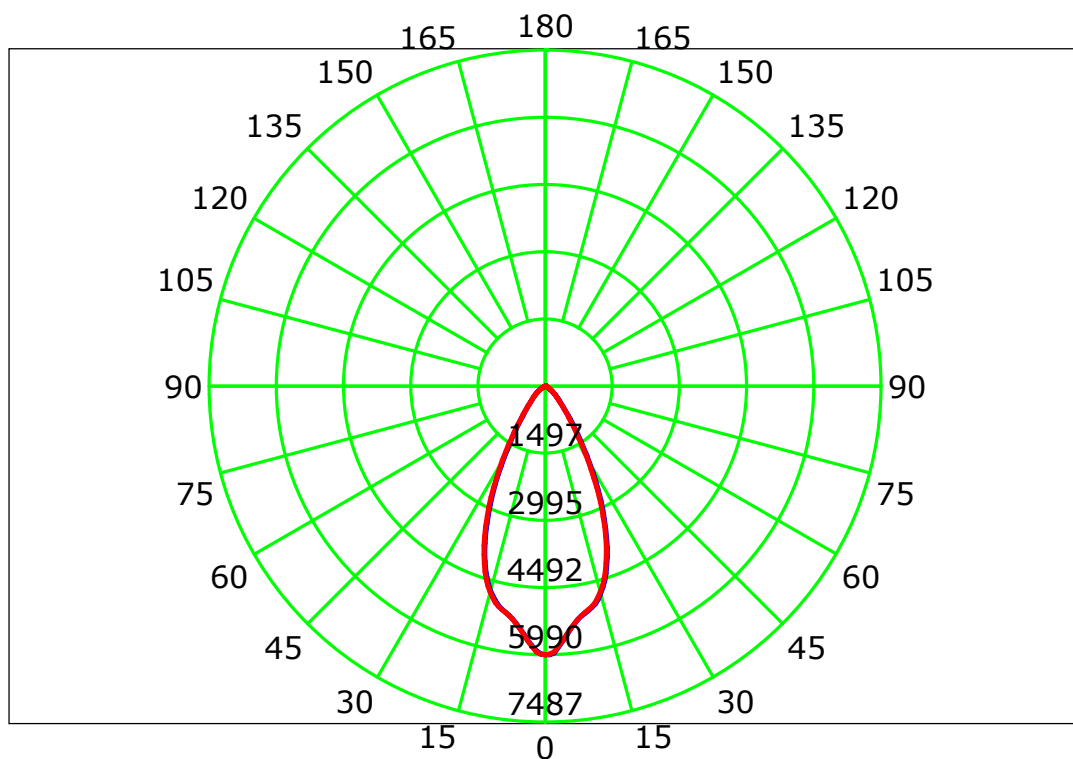
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

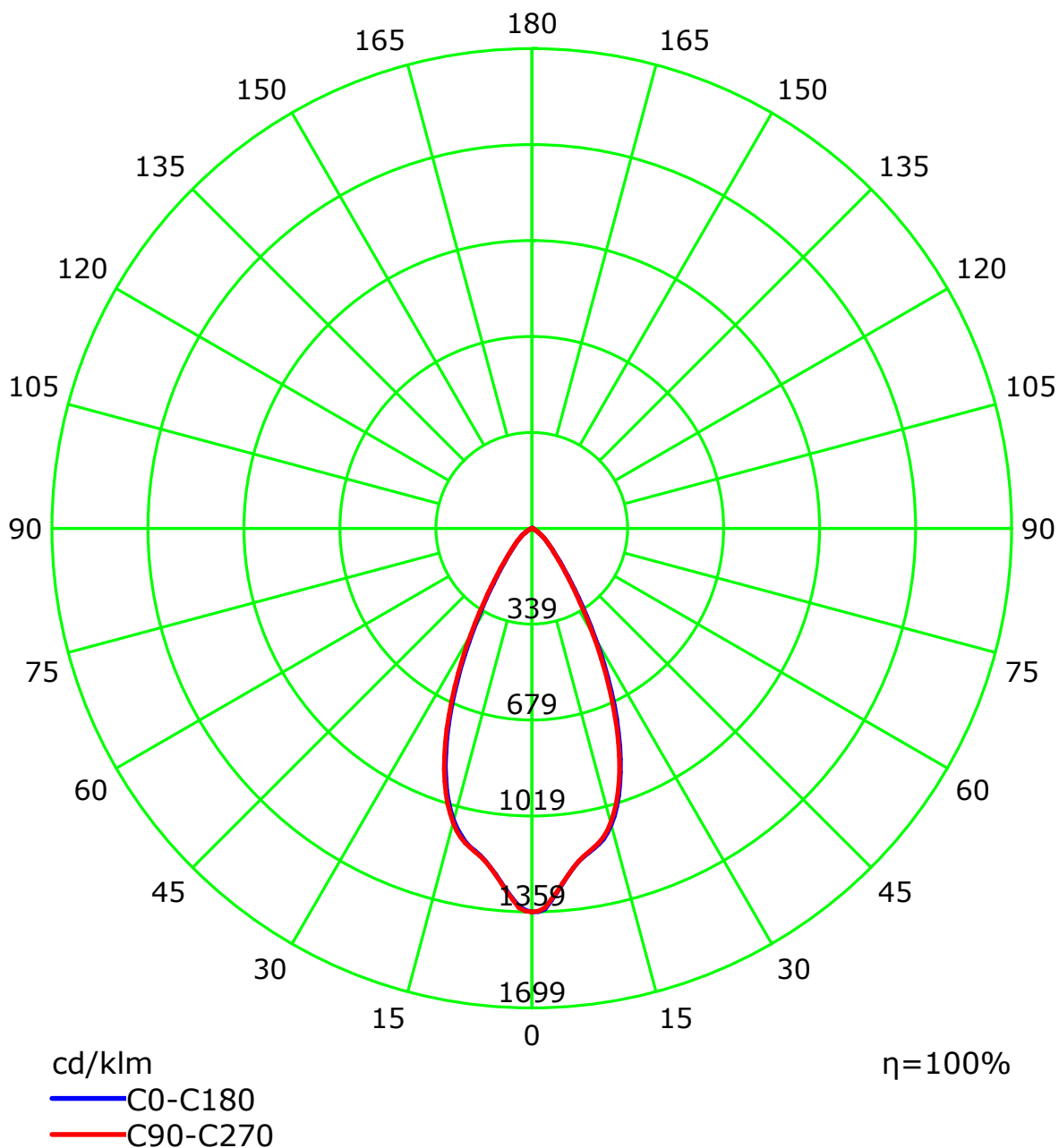
Luminous Intensity Distribution Curve



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:

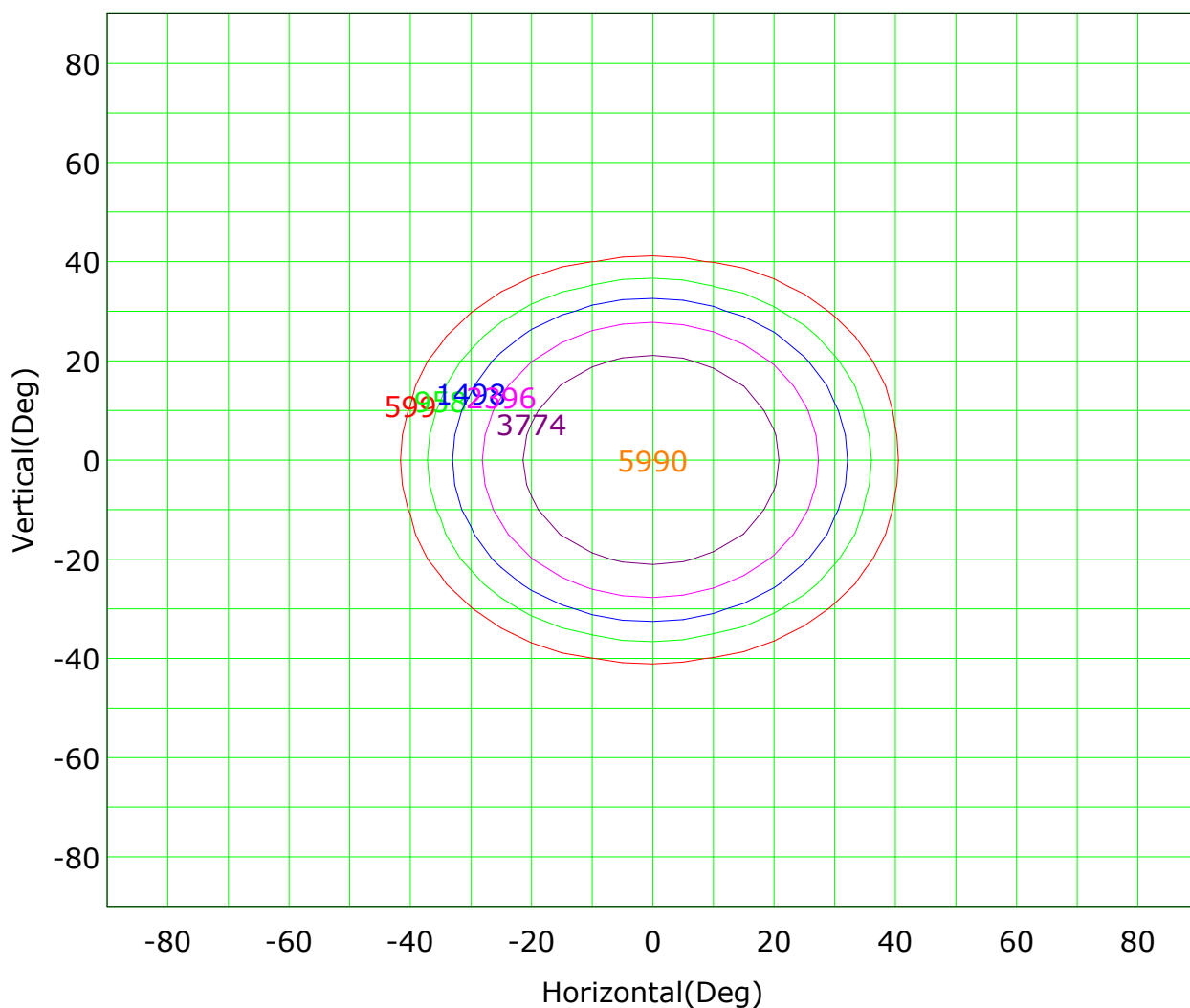
Luminous Intensity Distribution Curve(cd/klm)



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%): 5990 cd

(10%): 599 cd	(16%): 958 cd
(25%): 1498 cd	(40%): 2396 cd
(63%): 3774 cd	(100%): 5990 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

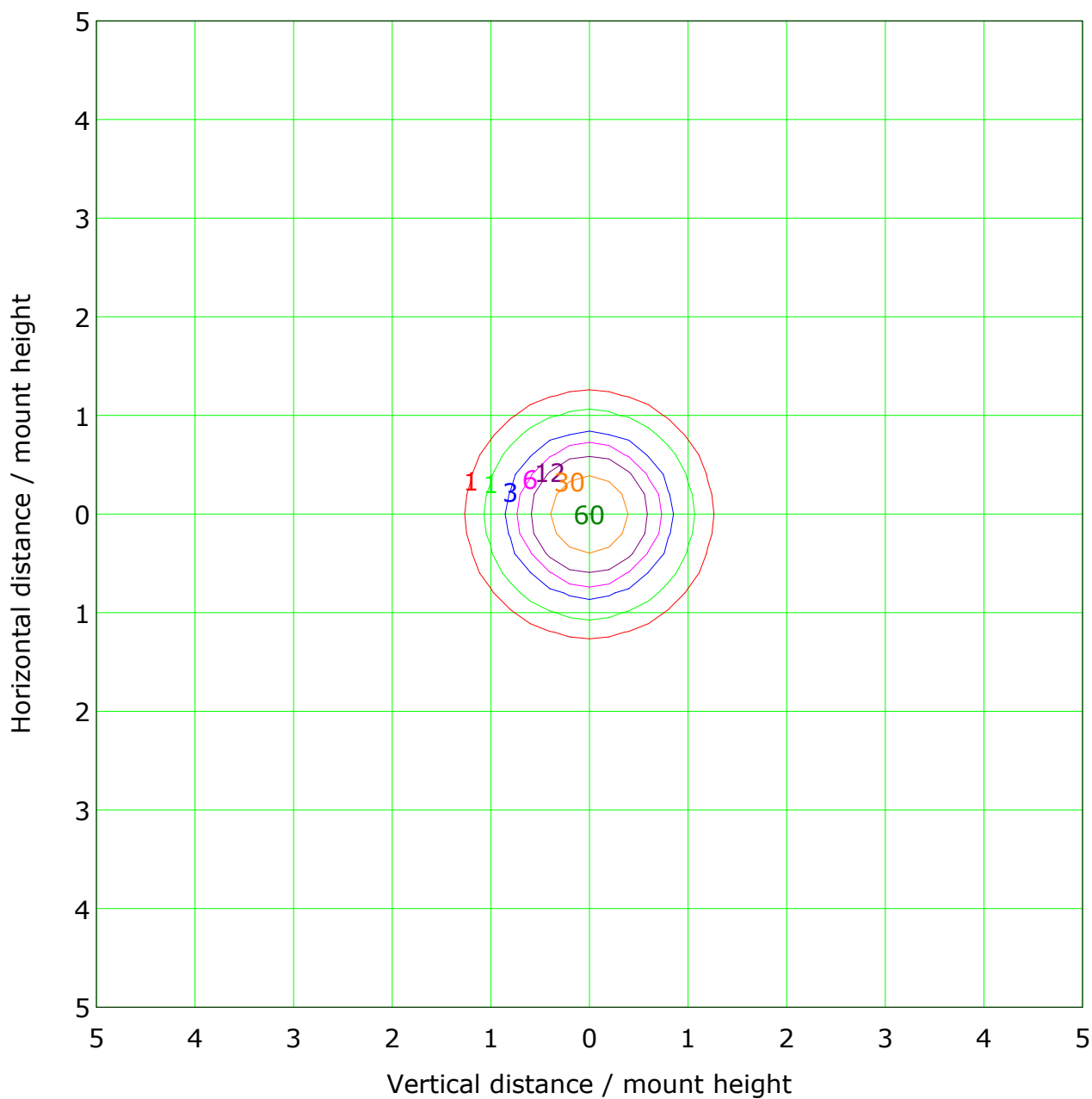
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



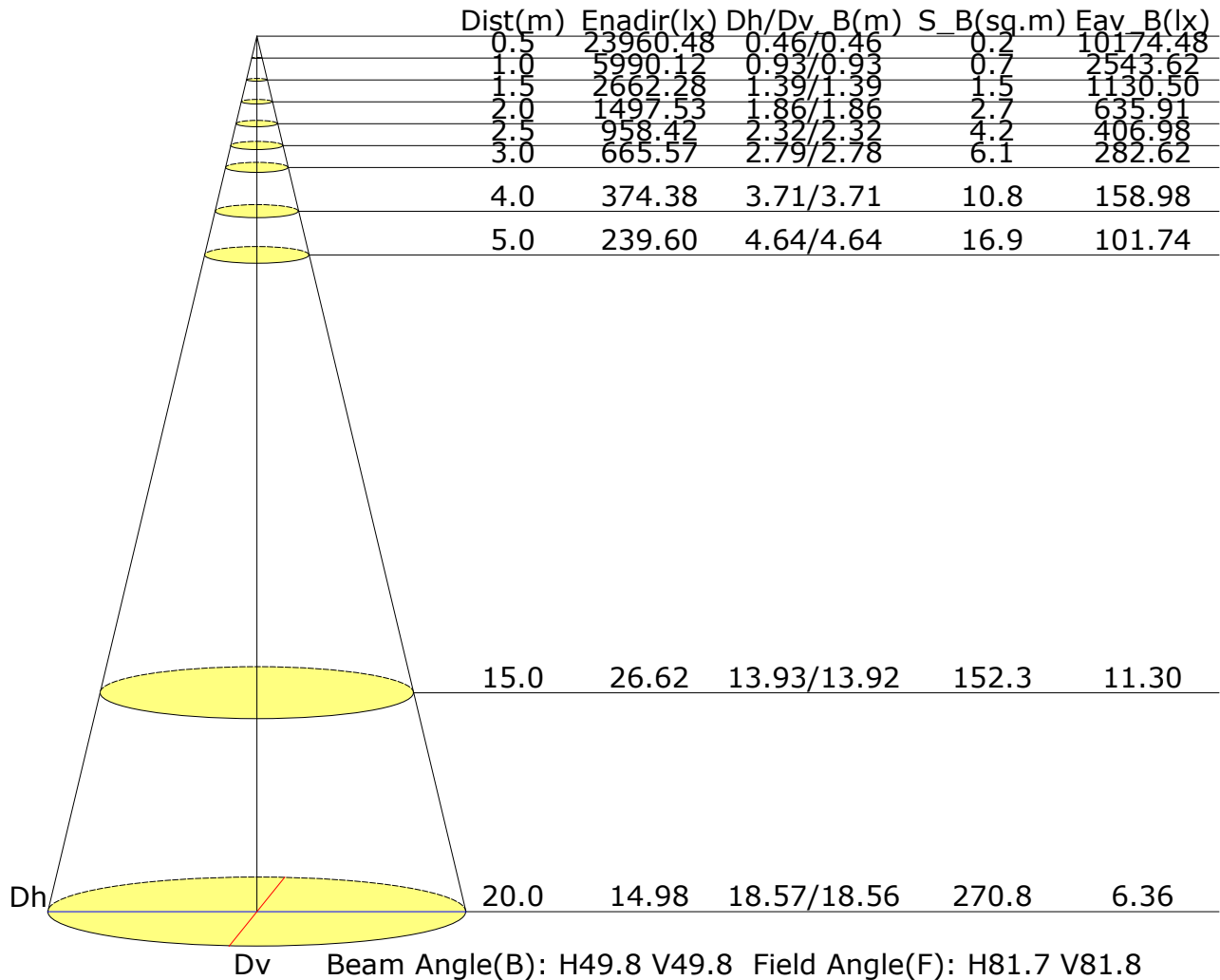
Mounting Height: 10.0m Max Lux(100%): 59.9 lx

(1%): 0.6 lx	(2%): 1.2 lx
(5%): 3.0 lx	(10%): 6.0 lx
(20%): 12.0 lx	(50%): 30.0 lx
(100%): 59.9 lx	

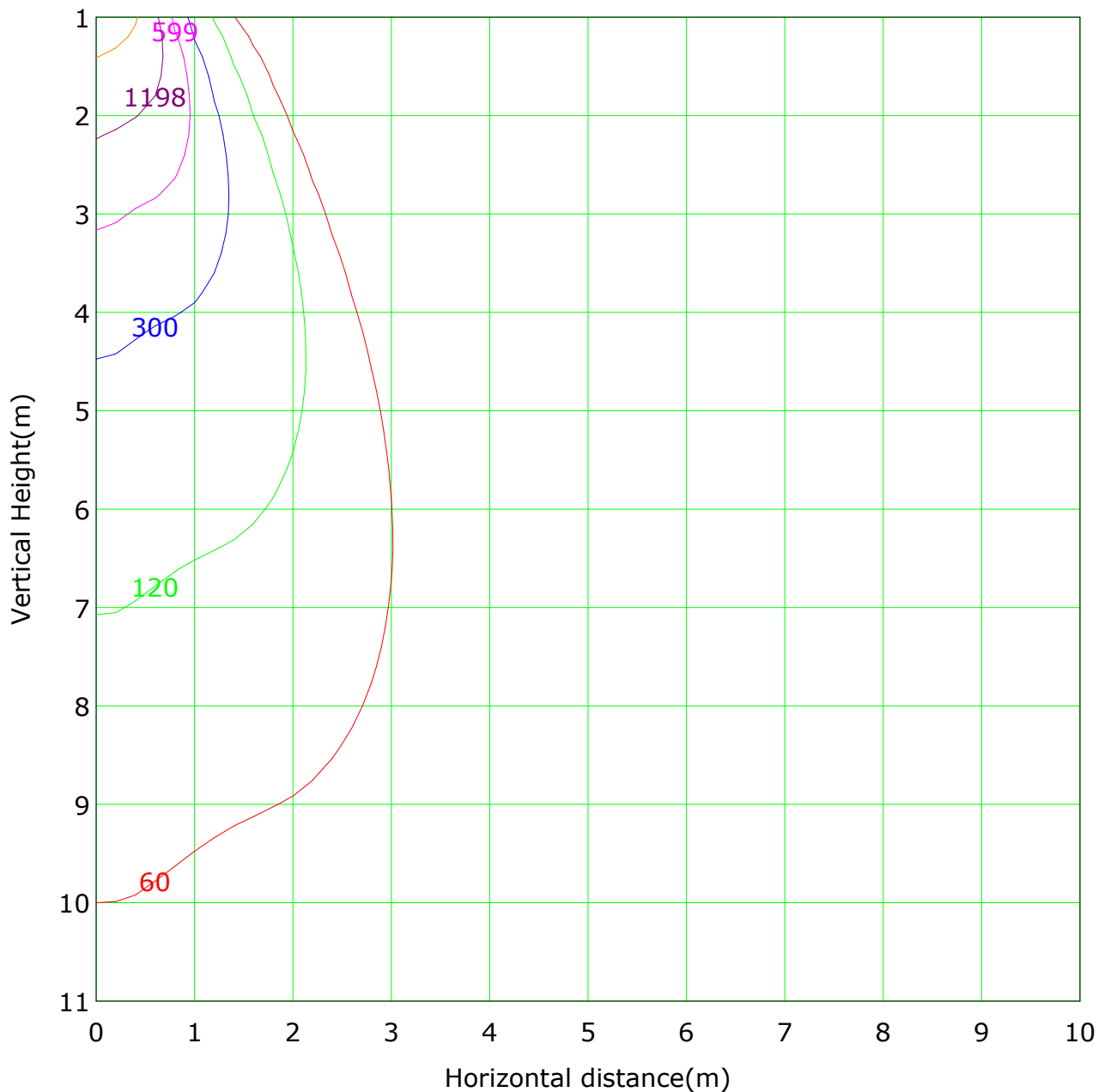
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



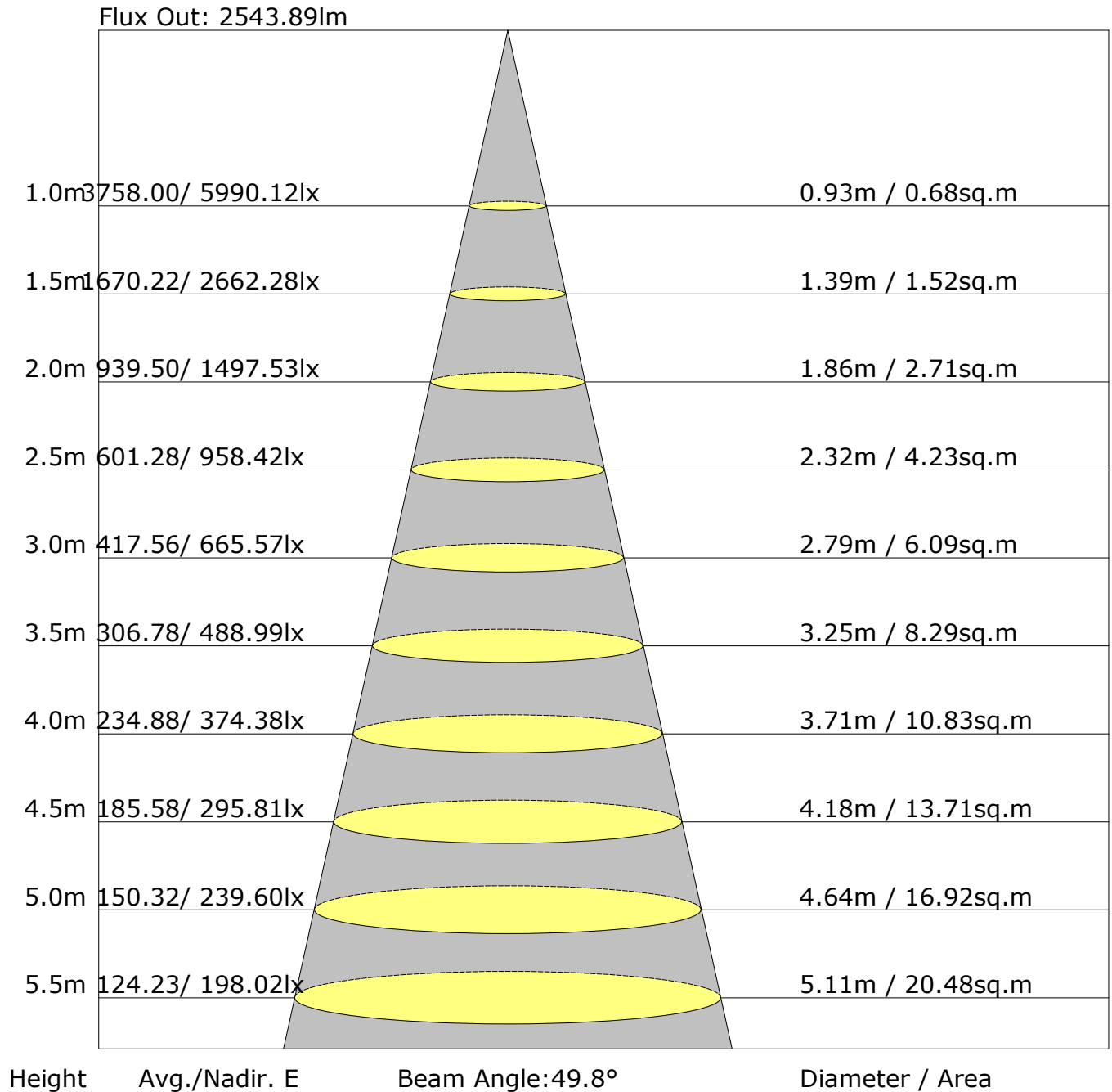
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5990.1 lx
— (1%): 59.9 lx — (2%): 119.8 lx
— (5%): 299.5 lx — (10%): 599.0 lx
— (20%): 1198.0 lx — (50%): 2995.1 lx
— (100%): 5990.1 lx

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: 3.328 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	23.5	24.4	23.8	24.6	24.8	23.4	24.2	23.6	24.4	24.6
3H	23.4	24.2	23.7	24.4	24.6	23.2	24.0	23.5	24.3	24.5
4H	23.3	24.0	23.6	24.3	24.6	23.2	23.9	23.5	24.2	24.4
6H	23.2	23.9	23.5	24.2	24.5	23.1	23.8	23.4	24.0	24.3
8H	23.2	23.8	23.5	24.1	24.4	23.0	23.7	23.4	24.0	24.3
12H	23.1	23.8	23.5	24.1	24.4	23.0	23.6	23.4	23.9	24.3
X=4H Y=2H	23.4	24.1	23.7	24.4	24.7	23.3	24.0	23.6	24.3	24.5
3H	23.3	23.9	23.6	24.2	24.5	23.1	23.8	23.5	24.1	24.4
4H	23.2	23.7	23.6	24.1	24.4	23.0	23.6	23.4	23.9	24.3
6H	23.1	23.6	23.5	24.0	24.3	23.0	23.5	23.4	23.8	24.2
8H	23.1	23.5	23.5	23.9	24.3	22.9	23.4	23.3	23.8	24.2
12H	23.0	23.4	23.4	23.8	24.2	22.9	23.3	23.3	23.7	24.1
X=8H Y=4H	23.1	23.5	23.5	23.9	24.3	22.9	23.4	23.3	23.8	24.2
6H	23.0	23.3	23.4	23.7	24.2	22.8	23.2	23.3	23.6	24.1
8H	22.9	23.2	23.4	23.7	24.2	22.8	23.1	23.3	23.6	24.0
12H	22.9	23.1	23.4	23.6	24.1	22.7	23.0	23.2	23.5	24.0
X=12H Y=4H	23.0	23.4	23.4	23.8	24.2	22.9	23.3	23.3	23.7	24.1
6H	22.9	23.2	23.4	23.7	24.2	22.8	23.1	23.3	23.6	24.0
8H	22.9	23.1	23.4	23.6	24.1	22.7	23.0	23.2	23.5	24.0
Variations with the observer position at spacings:										
S=1.0H	+3.1/-3.6					+3.0/-3.5				
S=1.5H	+5.5/-7.8					+5.4/-7.8				
S=2.0H	+7.4/-24.6					+7.3/-25.1				

Calculate in accordance with CIE Pub.117. The table is revised with 4406lm ($8\log(F/F_0) = 5.2$).

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: 3.328 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	2226	50.5
	FL (0°-30°)	1596	36.2
	FM (30°-60°)	613	13.9
	FH (60°-80°)	17	0.4
	FVH (80°-90°)	0	0.0
	BACK LIGHT	2180	49.5
	BL (0°-30°)	1574	35.7
	BM (30°-60°)	589	13.4
	BH (60°-80°)	17	0.4
	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	5982.0	5.7	5.7	0.13	0.13
1.0-2.0	5948.4	17.1	22.8	0.39	0.52
2.0-3.0	5863.0	28.0	50.8	0.64	1.15
3.0-4.0	5743.3	38.4	89.3	0.87	2.03
4.0-5.0	5619.2	48.3	137.6	1.10	3.12
5.0-6.0	5495.8	57.8	195.4	1.31	4.44
6.0-7.0	5385.8	66.9	262.3	1.52	5.95
7.0-8.0	5291.1	75.7	338.0	1.72	7.67
8.0-9.0	5213.5	84.5	422.5	1.92	9.59
9.0-10.0	5152.7	93.3	515.8	2.12	11.71
10.0-11.0	5101.6	102.0	617.7	2.31	14.02
11.0-12.0	5049.2	110.4	728.1	2.51	16.53
12.0-13.0	4985.0	118.3	846.4	2.69	19.21
13.0-14.0	4904.9	125.6	972.0	2.85	22.06
14.0-15.0	4807.4	132.0	1104.0	3.00	25.06
15.0-16.0	4693.6	137.5	1241.5	3.12	28.18
16.0-17.0	4565.8	142.2	1383.7	3.23	31.41
17.0-18.0	4422.5	145.8	1529.6	3.31	34.72
18.0-19.0	4262.6	148.3	1677.9	3.37	38.08
19.0-20.0	4089.9	149.7	1827.6	3.40	41.48
20.0-21.0	3904.2	149.9	1977.5	3.40	44.88
21.0-22.0	3707.8	149.0	2126.6	3.38	48.27
22.0-23.0	3504.0	147.0	2273.6	3.34	51.60
23.0-24.0	3293.3	144.0	2417.6	3.27	54.87
24.0-25.0	3079.5	140.0	2557.7	3.18	58.05
25.0-26.0	2862.3	135.1	2692.8	3.07	61.12
26.0-27.0	2643.5	129.3	2822.1	2.94	64.05
27.0-28.0	2427.5	122.9	2945.1	2.79	66.84
28.0-29.0	2216.2	116.0	3061.0	2.63	69.48
29.0-30.0	2012.1	108.7	3169.7	2.47	71.94
30.0-31.0	1818.2	101.2	3270.9	2.30	74.24
31.0-32.0	1636.5	93.8	3364.6	2.13	76.37
32.0-33.0	1467.6	86.5	3451.1	1.96	78.33
33.0-34.0	1313.6	79.5	3530.6	1.80	80.13
34.0-35.0	1174.6	73.0	3603.6	1.66	81.79
35.0-36.0	1050.3	66.9	3670.5	1.52	83.31

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	940.3	61.3	3731.8	1.39	84.70
37.0-38.0	844.0	56.3	3788.1	1.28	85.98
38.0-39.0	760.8	51.9	3840.1	1.18	87.16
39.0-40.0	687.2	47.9	3888.0	1.09	88.25
40.0-41.0	622.4	44.3	3932.3	1.01	89.25
41.0-42.0	565.7	41.1	3973.4	0.93	90.19
42.0-43.0	515.2	38.2	4011.6	0.87	91.05
43.0-44.0	470.9	35.5	4047.2	0.81	91.86
44.0-45.0	431.6	33.2	4080.3	0.75	92.61
45.0-46.0	395.8	31.0	4111.3	0.70	93.31
46.0-47.0	364.6	29.0	4140.3	0.66	93.97
47.0-48.0	337.5	27.3	4167.6	0.62	94.59
48.0-49.0	312.0	25.6	4193.2	0.58	95.17
49.0-50.0	287.0	23.9	4217.1	0.54	95.72
50.0-51.0	264.0	22.3	4239.5	0.51	96.22
51.0-52.0	242.5	20.8	4260.3	0.47	96.70
52.0-53.0	221.3	19.3	4279.5	0.44	97.13
53.0-54.0	200.7	17.7	4297.2	0.40	97.53
54.0-55.0	180.4	16.1	4313.3	0.37	97.90
55.0-56.0	161.1	14.6	4327.9	0.33	98.23
56.0-57.0	142.1	13.0	4340.9	0.29	98.53
57.0-58.0	125.0	11.6	4352.5	0.26	98.79
58.0-59.0	111.0	10.4	4362.8	0.24	99.02
59.0-60.0	97.6	9.2	4372.1	0.21	99.23
60.0-61.0	84.8	8.1	4380.1	0.18	99.42
61.0-62.0	71.7	6.9	4387.0	0.16	99.57
62.0-63.0	58.9	5.7	4392.8	0.13	99.70
63.0-64.0	47.1	4.6	4397.4	0.10	99.81
64.0-65.0	34.9	3.5	4400.9	0.08	99.89
65.0-66.0	23.4	2.3	4403.2	0.05	99.94
66.0-67.0	14.7	1.5	4404.7	0.03	99.97
67.0-68.0	8.1	0.8	4405.5	0.02	99.99
68.0-69.0	3.1	0.3	4405.8	0.01	100.00
69.0-70.0	0.6	0.1	4405.9	0.00	100.00
70.0-71.0	0.0	0.0	4405.9	0.00	100.00
71.0-72.0	0.0	0.0	4405.9	0.00	100.00

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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	5990.1	5990.1								
G1.0	5985.1	5962.7								
G2.0	5947.7	5897.9								
G3.0	5815.6	5790.7								
G4.0	5694.7	5672.2								
G5.0	5563.8	5546.3								
G6.0	5442.8	5430.4								
G7.0	5339.4	5330.6								
G8.0	5253.4	5240.9								
G9.0	5188.5	5171.1								
G10.0	5138.7	5112.5								
G11.0	5088.8	5066.4								
G12.0	5040.2	5001.5								
G13.0	4980.3	4918.0								
G14.0	4894.3	4827.0								
G15.0	4789.6	4718.5								
G16.0	4672.4	4593.9								
G17.0	4539.0	4458.0								
G18.0	4389.4	4303.4								
G19.0	4226.1	4131.4								
G20.0	4051.6	3950.6								
G21.0	3862.1	3752.4								
G22.0	3668.9	3547.9								
G23.0	3463.2	3336.0								
G24.0	3257.5	3116.6								
G25.0	3050.5	2893.5								
G26.0	2833.6	2671.6								
G27.0	2615.5	2453.4								
G28.0	2404.8	2236.5								
G29.0	2195.3	2028.3								
G30.0	1993.4	1831.3								
G31.0	1803.9	1644.3								
G32.0	1625.6	1472.3								
G33.0	1456.1	1316.5								
G34.0	1306.5	1175.6								
G35.0	1166.9	1049.7								
G36.0	1045.9	938.7								

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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	936.2	840.2								
G38.0	841.5	758.0								
G39.0	756.7	686.9								
G40.0	681.9	623.3								
G41.0	617.1	567.2								
G42.0	559.7	518.6								
G43.0	508.6	473.7								
G44.0	463.8	437.6								
G45.0	422.6	402.7								
G46.0	389.0	369.0								
G47.0	357.8	342.8								
G48.0	330.4	319.1								
G49.0	304.2	294.2								
G50.0	279.3	270.5								
G51.0	255.6	250.6								
G52.0	234.4	229.4								
G53.0	211.9	209.4								
G54.0	192.0	189.5								
G55.0	170.8	169.5								
G56.0	153.3	150.8								
G57.0	132.1	132.1								
G58.0	118.4	117.2								
G59.0	103.5	104.7								
G60.0	92.3	89.8								
G61.0	79.8	77.3								
G62.0	67.3	62.3								
G63.0	54.8	51.1								
G64.0	42.4	39.9								
G65.0	29.9	27.4								
G66.0	20.0	16.2								
G67.0	12.5	10.0								
G68.0	6.2	3.7								
G69.0	1.3	1.3								
G70.0	0.0	0.0								
G71.0	0.0	0.0								
G72.0	0.0	0.0								
G73.0	0.0	0.0								

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Unit: cd

Inspector: