

Report No.:

Test Time: 2024-09-26 16:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 31.06215 9.26

Luminous Width (mm): -75

Current: 0.112 A

Power Factor: 0.937

Luminous Length (mm): -75

Voltage: 224.0 V

Power: 23.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2821 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H45.8

Vertical Diffuse Angle(50%): V45.8

Luminaire Efficacy Rating (LER): 120.09

Max. Intensity: 5127.44 cd

S/MH(C0/C180): 0.73

Total Rated Lamp Lumens: 2821.0 lm

Efficiency: 100%

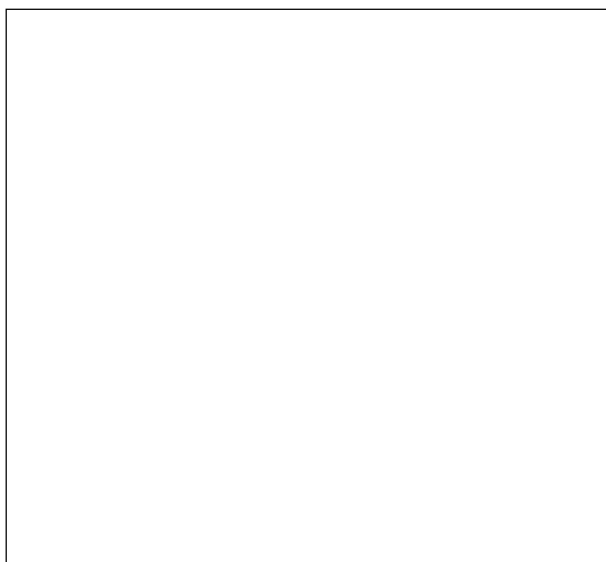
Upward Ratio: 0%

Central Intensity: 5076.33 cd

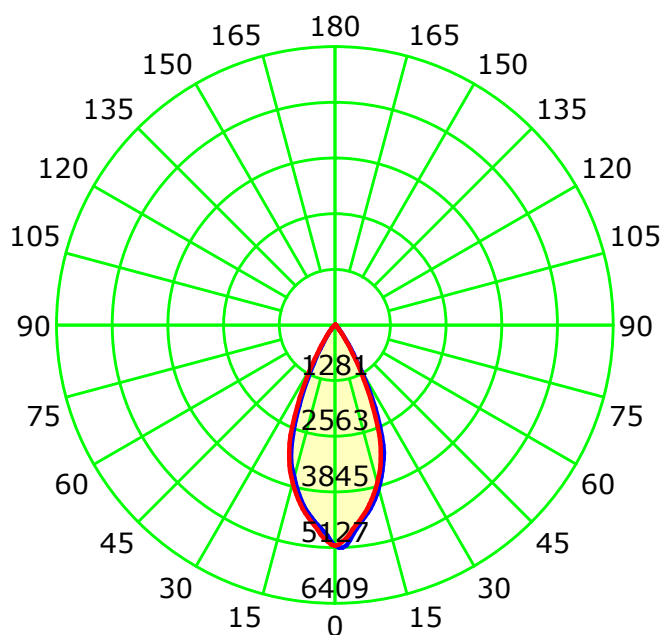
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.73

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

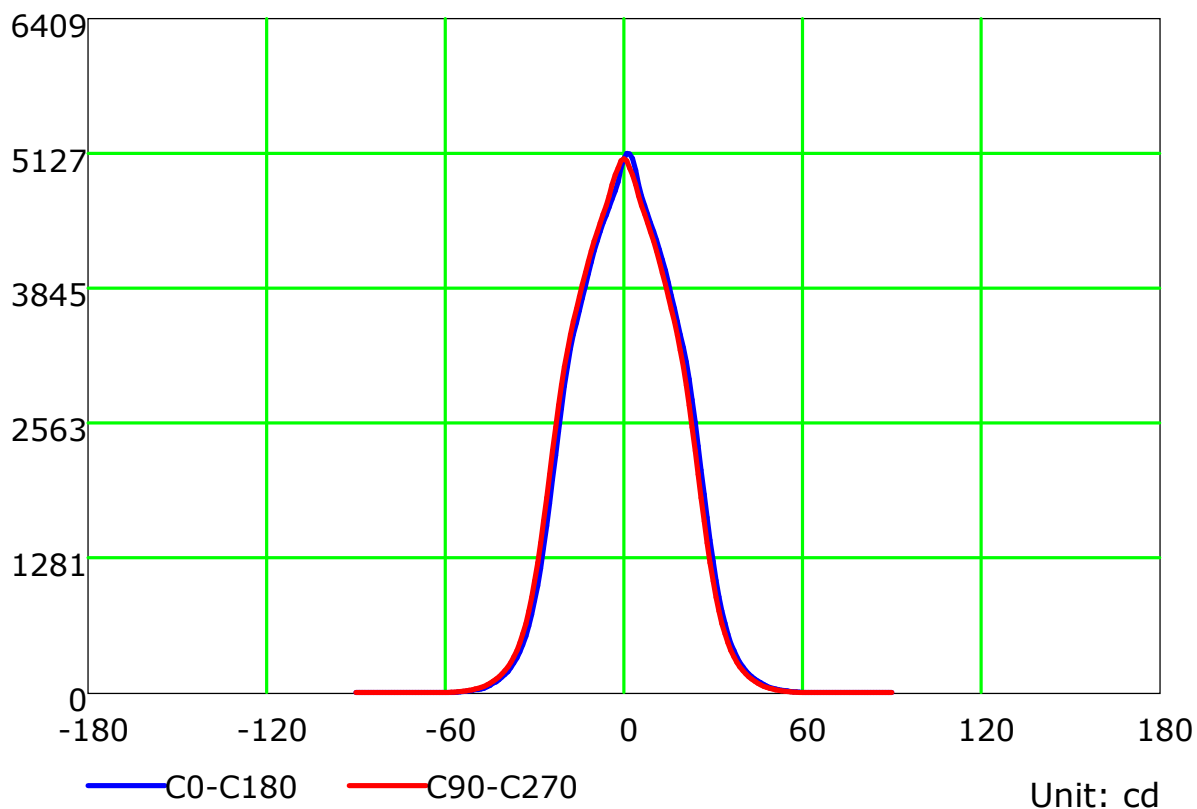
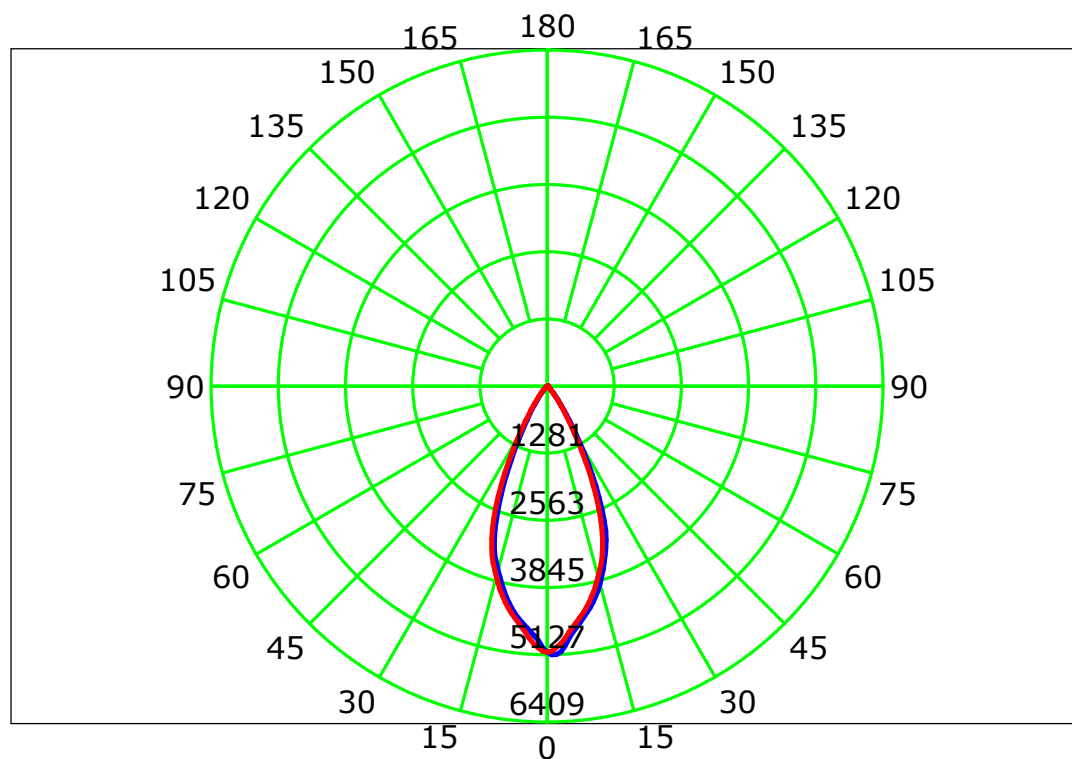
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

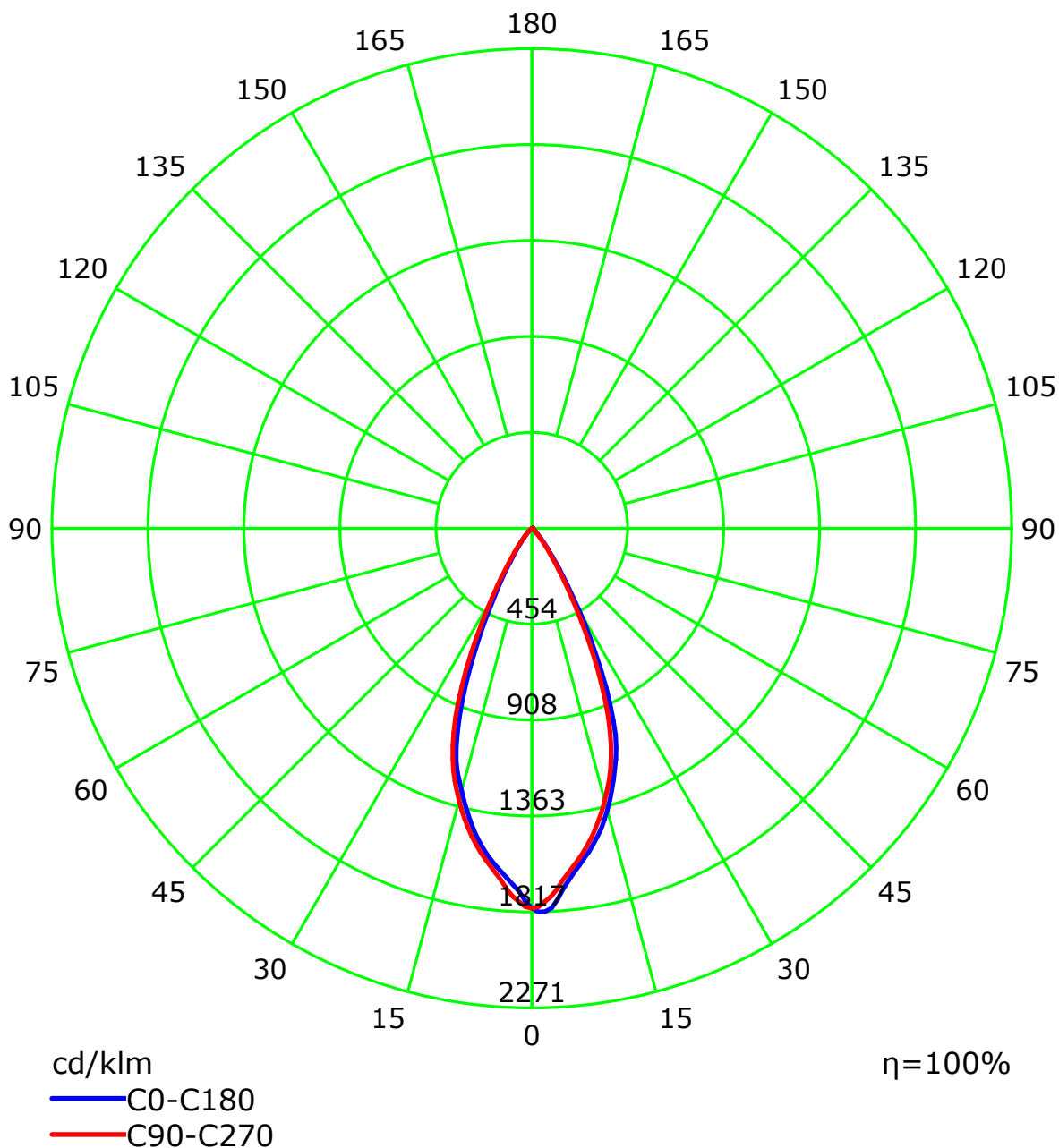
Luminous Intensity Distribution Curve



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:

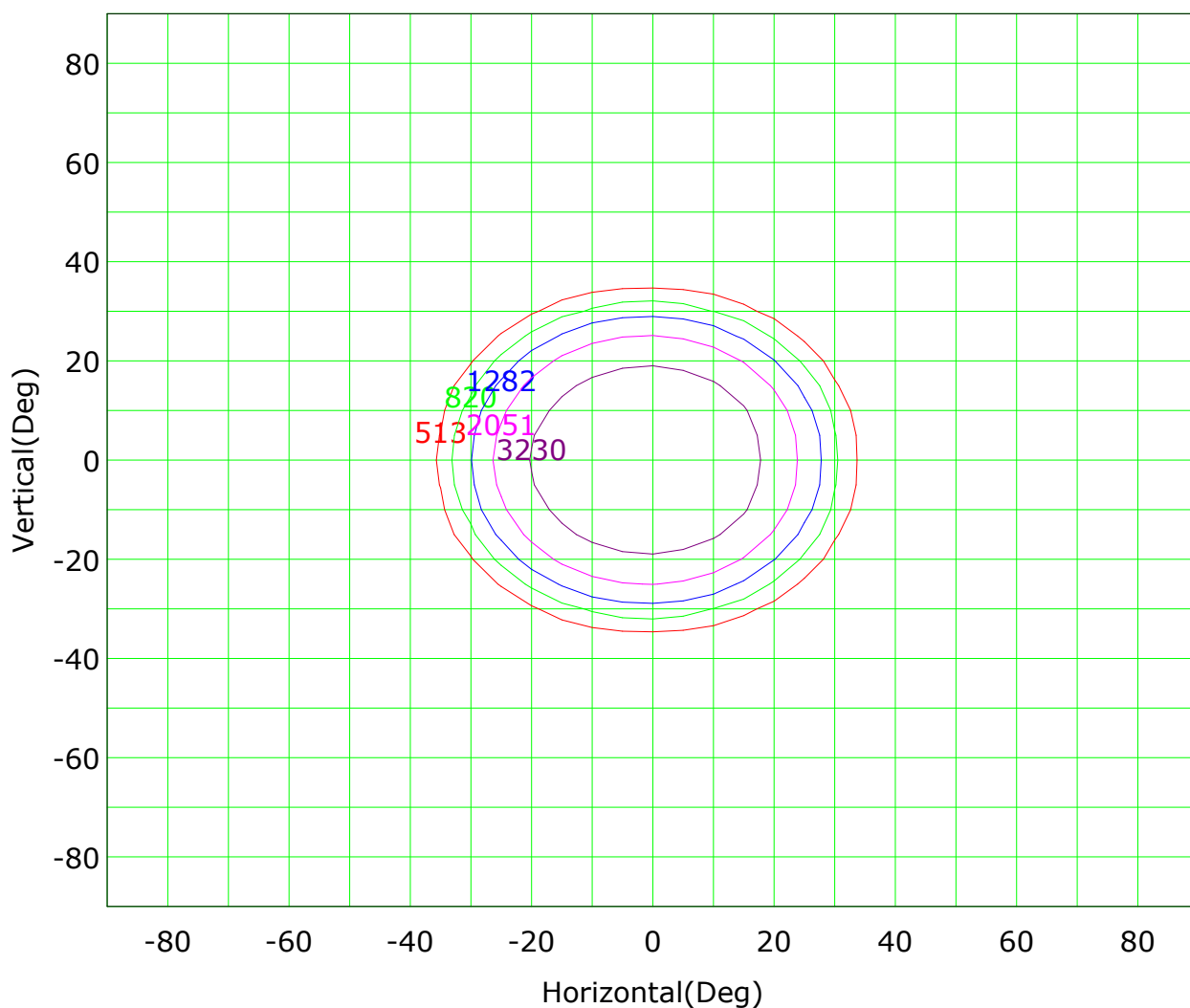
Luminous Intensity Distribution Curve(cd/klm)



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%): 5127 cd

(10%): 513 cd	(16%): 820 cd
(25%): 1282 cd	(40%): 2051 cd
(63%): 3230 cd	(100%): 5127 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

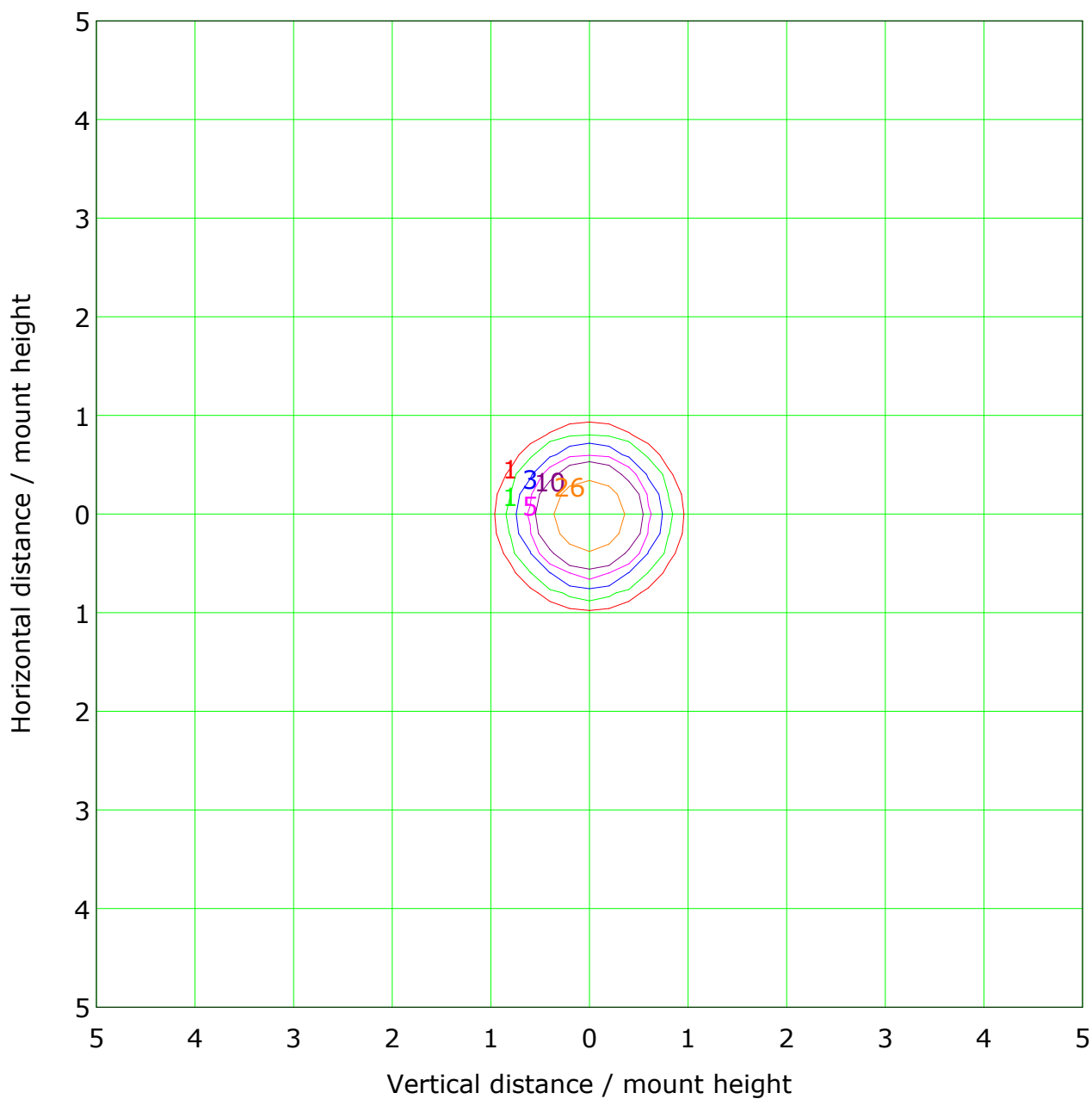
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



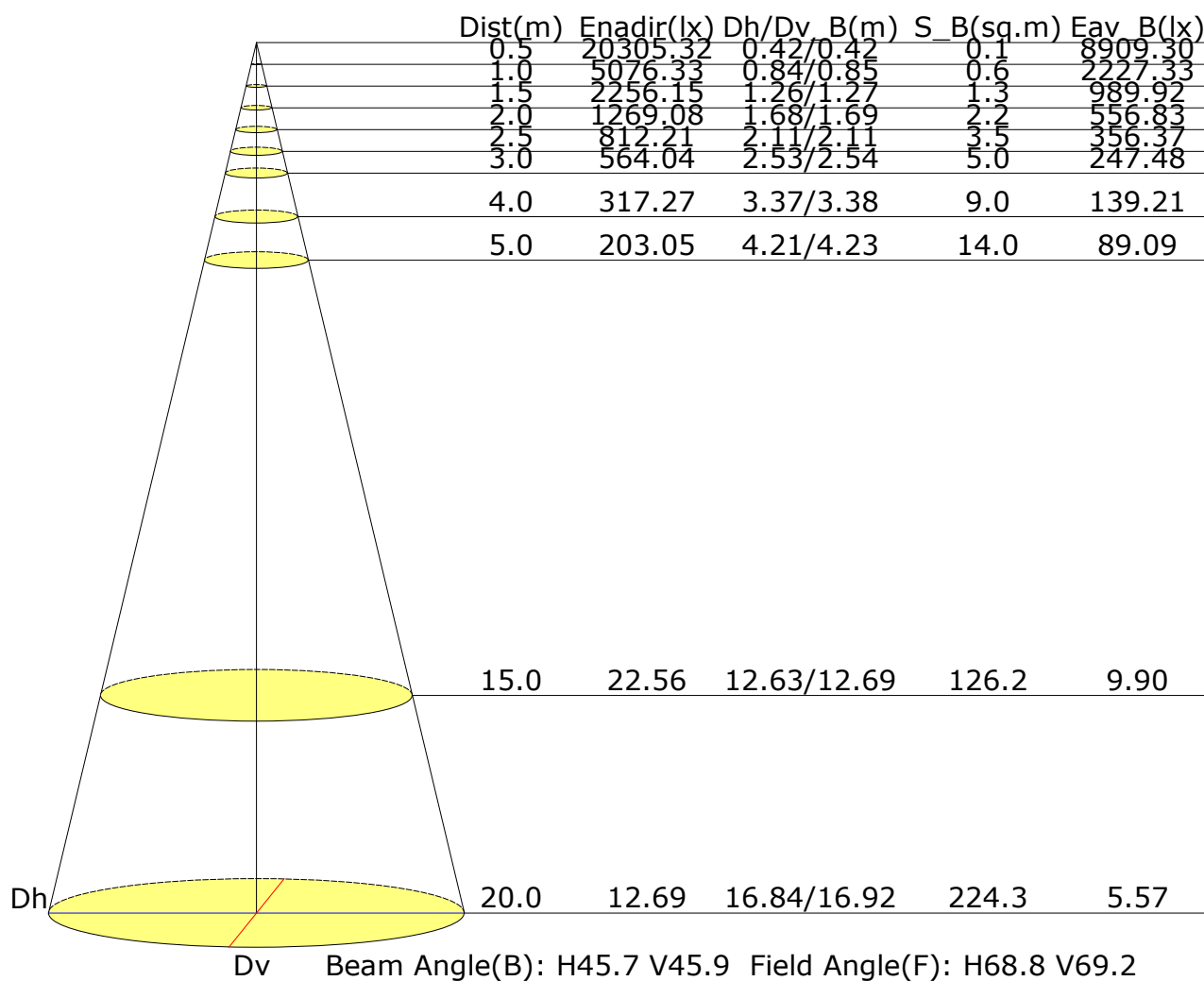
Mounting Height: 10.0m Max Lux(100%): 51.3 lx

(1%): 0.5 lx	(2%): 1.0 lx
(5%): 2.6 lx	(10%): 5.1 lx
(20%): 10.3 lx	(50%): 25.6 lx
(100%): 51.3 lx	

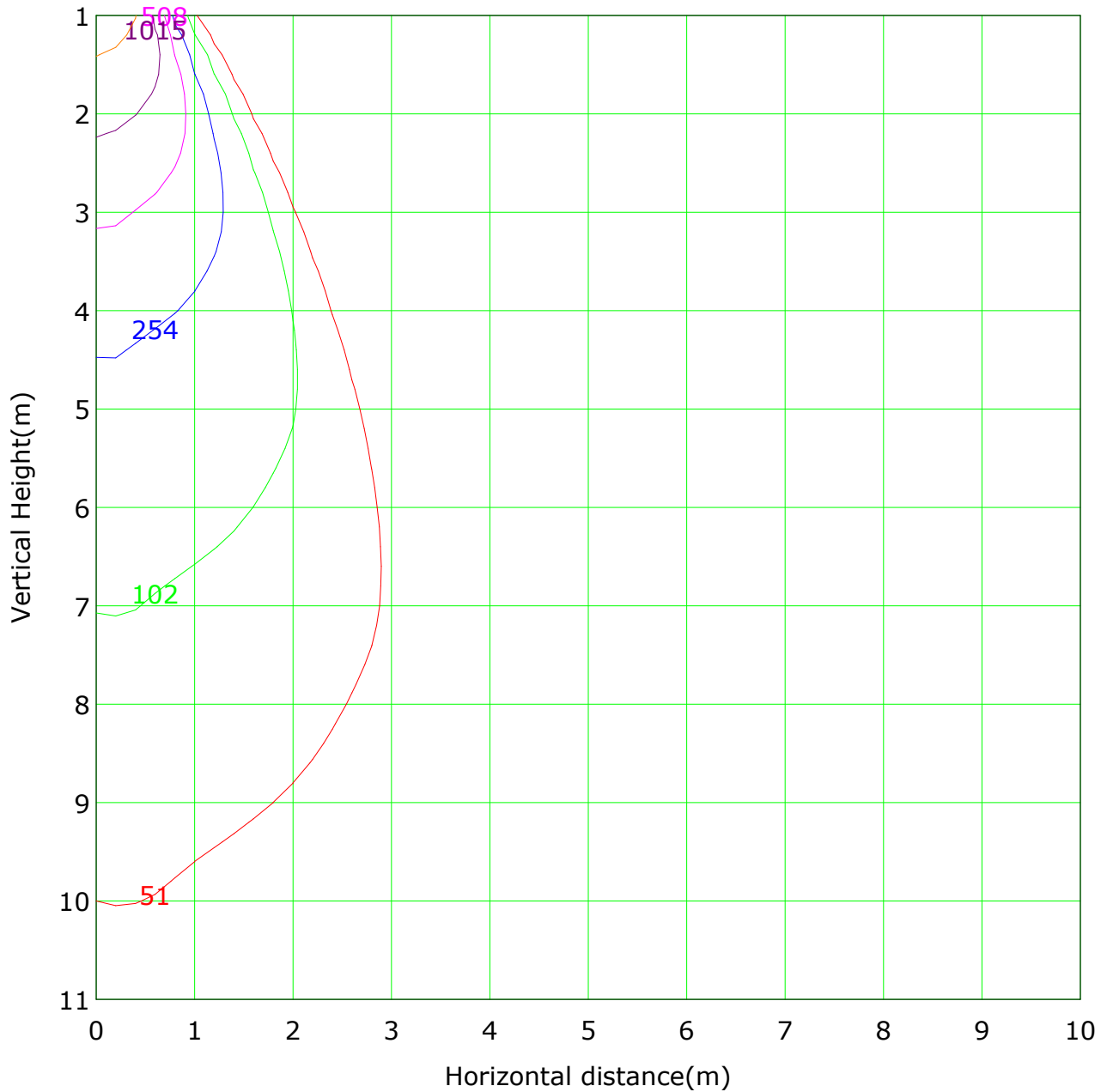
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



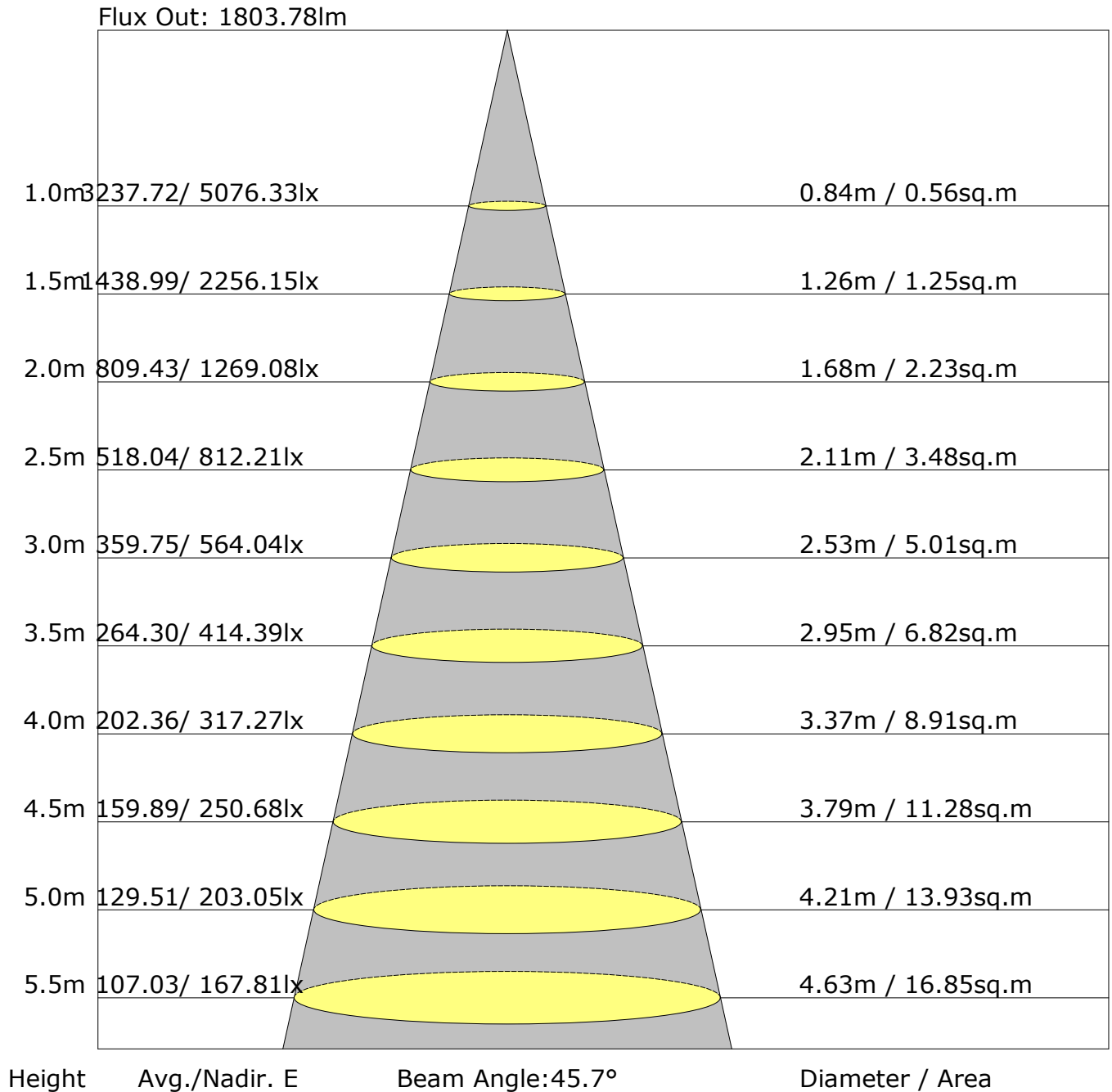
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5076.3 lx
— (1%): 50.8 lx — (2%): 101.5 lx
— (5%): 253.8 lx — (10%): 507.6 lx
— (20%): 1015.3 lx — (50%): 2538.2 lx
— (100%): 5076.3 lx

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



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	19.3	20.1	19.6	20.3	20.5	18.6	19.4	18.9	19.6	19.8
3H	19.2	19.9	19.5	20.1	20.4	18.5	19.2	18.8	19.4	19.6
4H	19.1	19.8	19.4	20.0	20.3	18.4	19.1	18.7	19.3	19.6
6H	19.1	19.6	19.4	19.9	20.2	18.3	18.9	18.7	19.2	19.5
8H	19.0	19.6	19.4	19.9	20.2	18.3	18.9	18.6	19.2	19.5
12H	19.0	19.5	19.3	19.8	20.1	18.3	18.8	18.6	19.1	19.4
X=4H Y=2H	19.1	19.8	19.4	20.0	20.3	18.4	19.1	18.7	19.3	19.6
3H	19.0	19.5	19.3	19.8	20.2	18.3	18.8	18.6	19.1	19.4
4H	18.9	19.4	19.3	19.7	20.1	18.2	18.7	18.6	19.0	19.4
6H	18.8	19.2	19.2	19.6	20.0	18.1	18.5	18.5	18.9	19.3
8H	18.8	19.2	19.2	19.5	20.0	18.0	18.4	18.5	18.8	19.2
12H	18.7	19.1	19.2	19.5	19.9	18.0	18.4	18.4	18.8	19.2
X=8H Y=4H	18.8	19.2	19.2	19.5	20.0	18.0	18.4	18.5	18.8	19.2
6H	18.7	19.0	19.1	19.4	19.9	18.0	18.3	18.4	18.7	19.2
8H	18.6	18.9	19.1	19.3	19.8	17.9	18.2	18.4	18.6	19.1
12H	18.6	18.8	19.1	19.3	19.8	17.9	18.1	18.3	18.6	19.1
X=12H Y=4H	18.7	19.1	19.2	19.5	19.9	18.0	18.4	18.4	18.8	19.2
6H	18.6	18.9	19.1	19.3	19.8	17.9	18.2	18.4	18.6	19.1
8H	18.6	18.8	19.1	19.3	19.8	17.9	18.1	18.3	18.6	19.1
Variations with the observer position at spacings:										
S=1.0H	+5.5/-14.0					+5.4/-14.9				
S=1.5H	+8.3/-1.\$					+8.2/-1.\$				
S=2.0H	+10.3/-1.\$					+10.2/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 2821lm ($8\log(F/F_0) = 3.6$).

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	1470	52.1
	FL (0°-30°)	1247	44.2
	FM (30°-60°)	223	7.9
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1351	47.9
	BL (0°-30°)	1167	41.4
	BM (30°-60°)	185	6.5
	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	5067.3	4.8	4.8	0.17	0.17
1.0-2.0	5024.3	14.4	19.3	0.51	0.68
2.0-3.0	4958.2	23.7	43.0	0.84	1.52
3.0-4.0	4878.1	32.7	75.6	1.16	2.68
4.0-5.0	4776.8	41.1	116.7	1.46	4.14
5.0-6.0	4678.7	49.2	165.9	1.74	5.88
6.0-7.0	4592.3	57.0	222.9	2.02	7.90
7.0-8.0	4509.7	64.6	287.5	2.29	10.19
8.0-9.0	4425.6	71.7	359.2	2.54	12.73
9.0-10.0	4338.3	78.5	437.7	2.78	15.52
10.0-11.0	4246.7	84.9	522.6	3.01	18.53
11.0-12.0	4149.4	90.7	613.3	3.22	21.74
12.0-13.0	4046.0	96.0	709.4	3.40	25.15
13.0-14.0	3936.9	100.8	810.1	3.57	28.72
14.0-15.0	3823.8	105.0	915.1	3.72	32.44
15.0-16.0	3706.9	108.6	1023.8	3.85	36.29
16.0-17.0	3588.5	111.8	1135.5	3.96	40.25
17.0-18.0	3465.4	114.3	1249.8	4.05	44.30
18.0-19.0	3328.5	115.8	1365.6	4.11	48.41
19.0-20.0	3176.8	116.3	1481.9	4.12	52.53
20.0-21.0	3011.0	115.6	1597.5	4.10	56.63
21.0-22.0	2828.9	113.7	1711.2	4.03	60.66
22.0-23.0	2628.2	110.3	1821.5	3.91	64.57
23.0-24.0	2411.3	105.4	1927.0	3.74	68.31
24.0-25.0	2186.9	99.5	2026.4	3.53	71.83
25.0-26.0	1963.2	92.7	2119.1	3.29	75.12
26.0-27.0	1741.9	85.2	2204.3	3.02	78.14
27.0-28.0	1527.8	77.4	2281.7	2.74	80.88
28.0-29.0	1329.5	69.6	2351.3	2.47	83.35
29.0-30.0	1148.2	62.0	2413.3	2.20	85.55
30.0-31.0	984.2	54.8	2468.0	1.94	87.49
31.0-32.0	840.5	48.2	2516.2	1.71	89.20
32.0-33.0	715.9	42.2	2558.4	1.50	90.69
33.0-34.0	607.4	36.8	2595.1	1.30	91.99
34.0-35.0	514.9	32.0	2627.1	1.13	93.13
35.0-36.0	436.0	27.8	2654.9	0.98	94.11

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	369.6	24.1	2679.0	0.85	94.97
37.0-38.0	314.5	21.0	2700.0	0.74	95.71
38.0-39.0	266.8	18.2	2718.2	0.65	96.36
39.0-40.0	226.3	15.8	2734.0	0.56	96.92
40.0-41.0	193.2	13.8	2747.7	0.49	97.40
41.0-42.0	164.9	12.0	2759.7	0.42	97.83
42.0-43.0	139.9	10.4	2770.1	0.37	98.20
43.0-44.0	118.7	9.0	2779.1	0.32	98.51
44.0-45.0	100.0	7.7	2786.7	0.27	98.79
45.0-46.0	82.9	6.5	2793.2	0.23	99.02
46.0-47.0	67.3	5.4	2798.6	0.19	99.21
47.0-48.0	54.5	4.4	2803.0	0.16	99.36
48.0-49.0	44.9	3.7	2806.7	0.13	99.49
49.0-50.0	37.1	3.1	2809.8	0.11	99.60
50.0-51.0	30.2	2.6	2812.3	0.09	99.69
51.0-52.0	24.9	2.1	2814.5	0.08	99.77
52.0-53.0	20.6	1.8	2816.3	0.06	99.83
53.0-54.0	16.5	1.5	2817.7	0.05	99.88
54.0-55.0	13.1	1.2	2818.9	0.04	99.93
55.0-56.0	9.4	0.8	2819.7	0.03	99.96
56.0-57.0	5.9	0.5	2820.3	0.02	99.97
57.0-58.0	3.7	0.3	2820.6	0.01	99.99
58.0-59.0	2.5	0.2	2820.9	0.01	99.99
59.0-60.0	1.2	0.1	2821.0	0.00	100.00
60.0-61.0	0.3	0.0	2821.0	0.00	100.00
61.0-62.0	0.0	0.0	2821.0	0.00	100.00
62.0-63.0	0.0	0.0	2821.0	0.00	100.00
63.0-64.0	0.0	0.0	2821.0	0.00	100.00
64.0-65.0	0.0	0.0	2821.0	0.00	100.00
65.0-66.0	0.0	0.0	2821.0	0.00	100.00
66.0-67.0	0.0	0.0	2821.0	0.00	100.00
67.0-68.0	0.0	0.0	2821.0	0.00	100.00
68.0-69.0	0.0	0.0	2821.0	0.00	100.00
69.0-70.0	0.0	0.0	2821.0	0.00	100.00
70.0-71.0	0.0	0.0	2821.0	0.00	100.00
71.0-72.0	0.0	0.0	2821.0	0.00	100.00

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: 3.328 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	5076.3	5076.3								
G1.0	5127.4	4989.1								
G2.0	5123.7	4856.9								
G3.0	5078.8	4773.4								
G4.0	4967.9	4692.4								
G5.0	4830.7	4616.3								
G6.0	4724.8	4542.8								
G7.0	4633.8	4468.0								
G8.0	4550.3	4386.9								
G9.0	4466.7	4298.4								
G10.0	4386.9	4201.2								
G11.0	4303.4	4095.2								
G12.0	4213.6	3985.5								
G13.0	4117.7	3867.1								
G14.0	4014.2	3748.7								
G15.0	3899.5	3632.7								
G16.0	3778.6	3516.8								
G17.0	3653.9	3404.6								
G18.0	3531.7	3271.2								
G19.0	3405.8	3105.4								
G20.0	3281.2	2914.6								
G21.0	3145.3	2702.7								
G22.0	2983.2	2484.6								
G23.0	2788.7	2256.4								
G24.0	2571.8	2028.3								
G25.0	2346.2	1801.4								
G26.0	2118.1	1587.0								
G27.0	1886.2	1376.3								
G28.0	1666.8	1181.8								
G29.0	1452.3	1017.3								
G30.0	1249.1	873.9								
G31.0	1068.4	745.5								
G32.0	912.5	635.8								
G33.0	776.7	538.5								
G34.0	659.5	455.0								
G35.0	556.0	389.0								
G36.0	468.7	330.4								

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: 3.328 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	398.9	280.5								
G38.0	339.1	239.4								
G39.0	288.0	200.7								
G40.0	245.6	170.8								
G41.0	209.4	147.1								
G42.0	179.5	123.4								
G43.0	153.3	103.5								
G44.0	129.6	88.5								
G45.0	112.2	69.8								
G46.0	94.7	54.8								
G47.0	77.3	42.4								
G48.0	62.3	36.2								
G49.0	51.1	29.9								
G50.0	39.9	27.4								
G51.0	33.7	20.0								
G52.0	29.9	16.2								
G53.0	23.7	12.5								
G54.0	20.0	10.0								
G55.0	16.2	6.2								
G56.0	11.2	3.7								
G57.0	7.5	1.3								
G58.0	6.2	0.0								
G59.0	3.7	0.0								
G60.0	1.3	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:

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

Inspector: