

Report No.:

Test Time: 2026-09-30 16:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA90-1050MA-50D

Lamp Description: BLX V13C F90 3000K

Luminous Width (mm): -82

Current: 0.186 A

Power Factor: 0.979

Luminous Length (mm): -82

Voltage: 226.7 V

Power: 41.30 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3960.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H52.2

Vertical Diffuse Angle(50%): V52.2

Luminaire Efficacy Rating (LER): 95.94

Max. Intensity: 5136.59 cd

S/MH(C0/C180): 0.84

Total Rated Lamp Lumens: 3960.2 lm

Efficiency: 100%

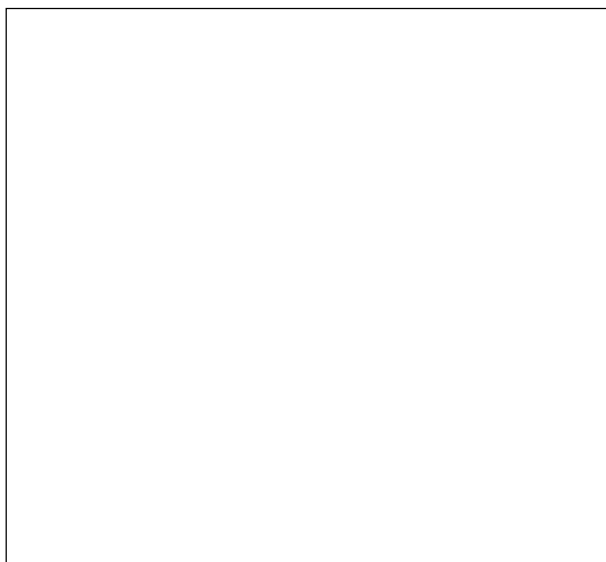
Upward Ratio: 0%

Central Intensity: 5130.55 cd

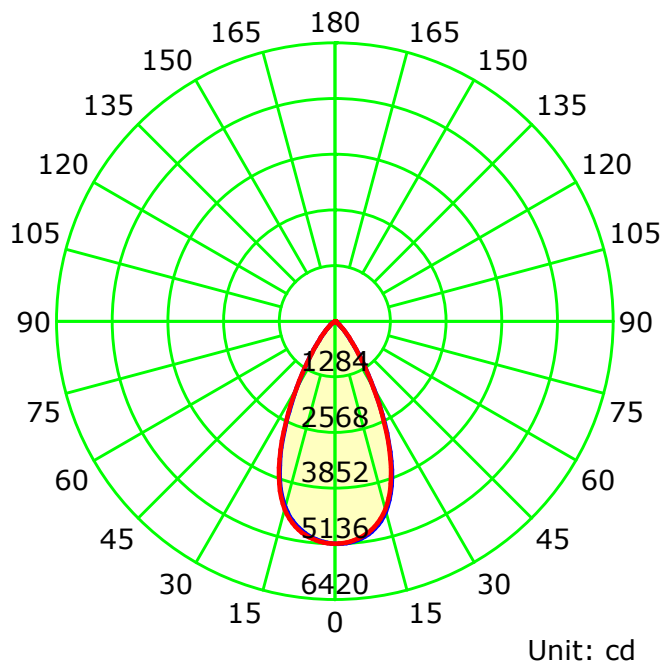
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.84

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

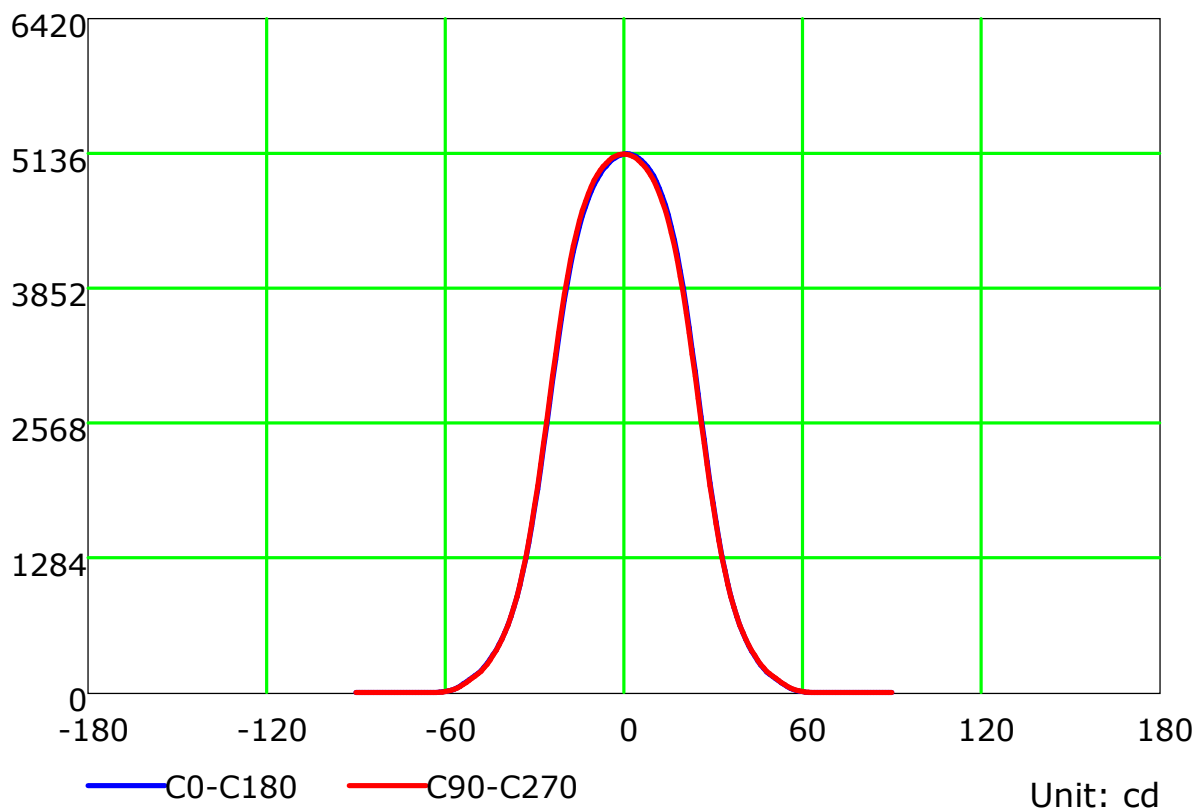
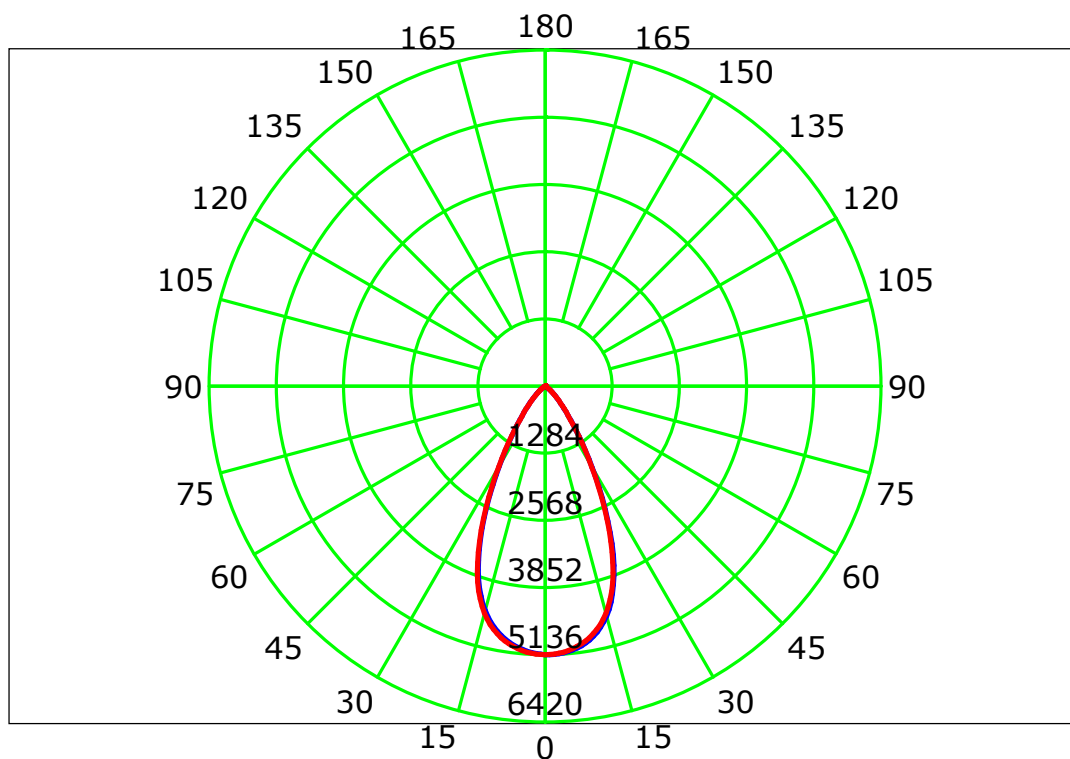
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

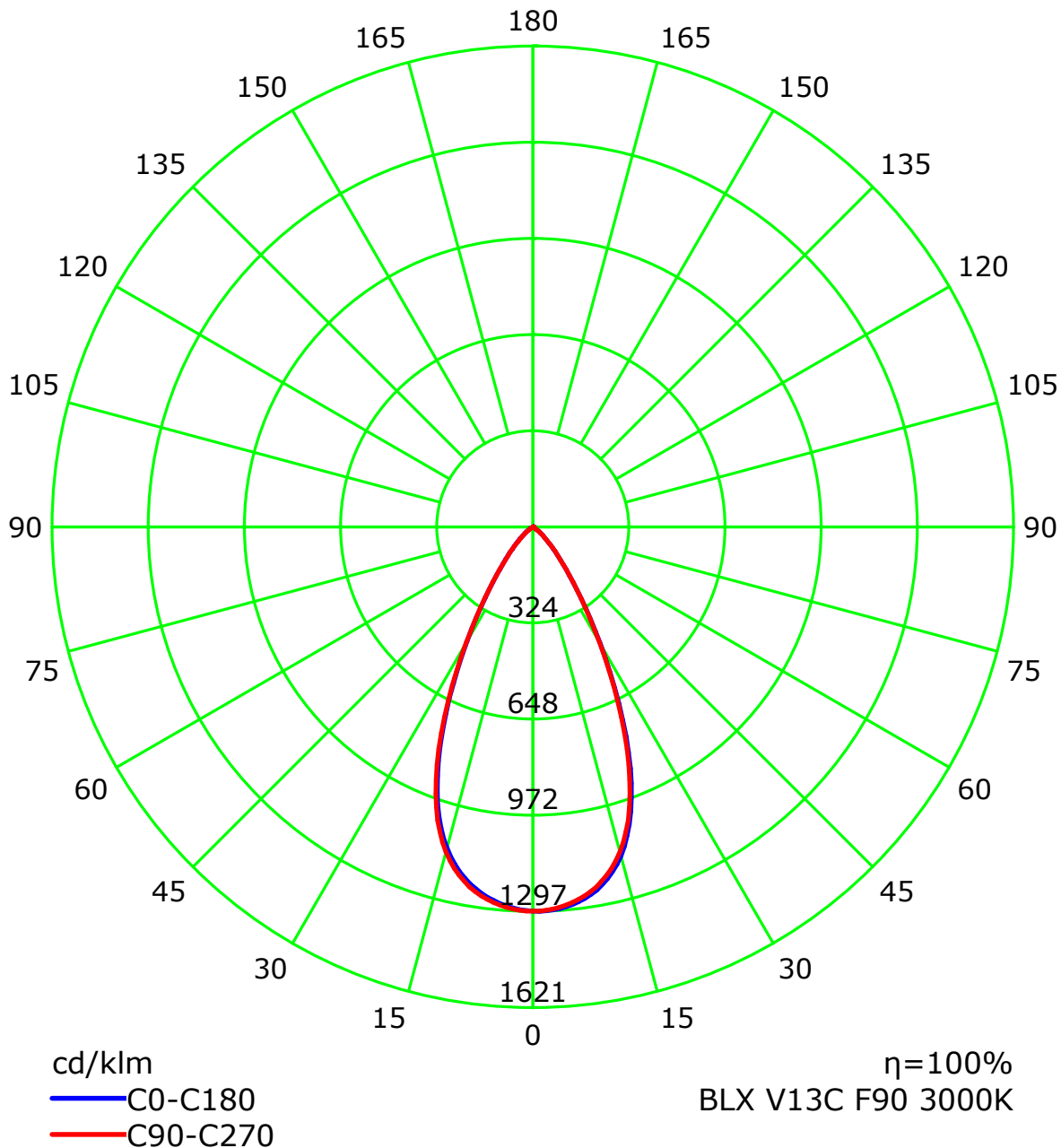
Luminous Intensity Distribution Curve



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:

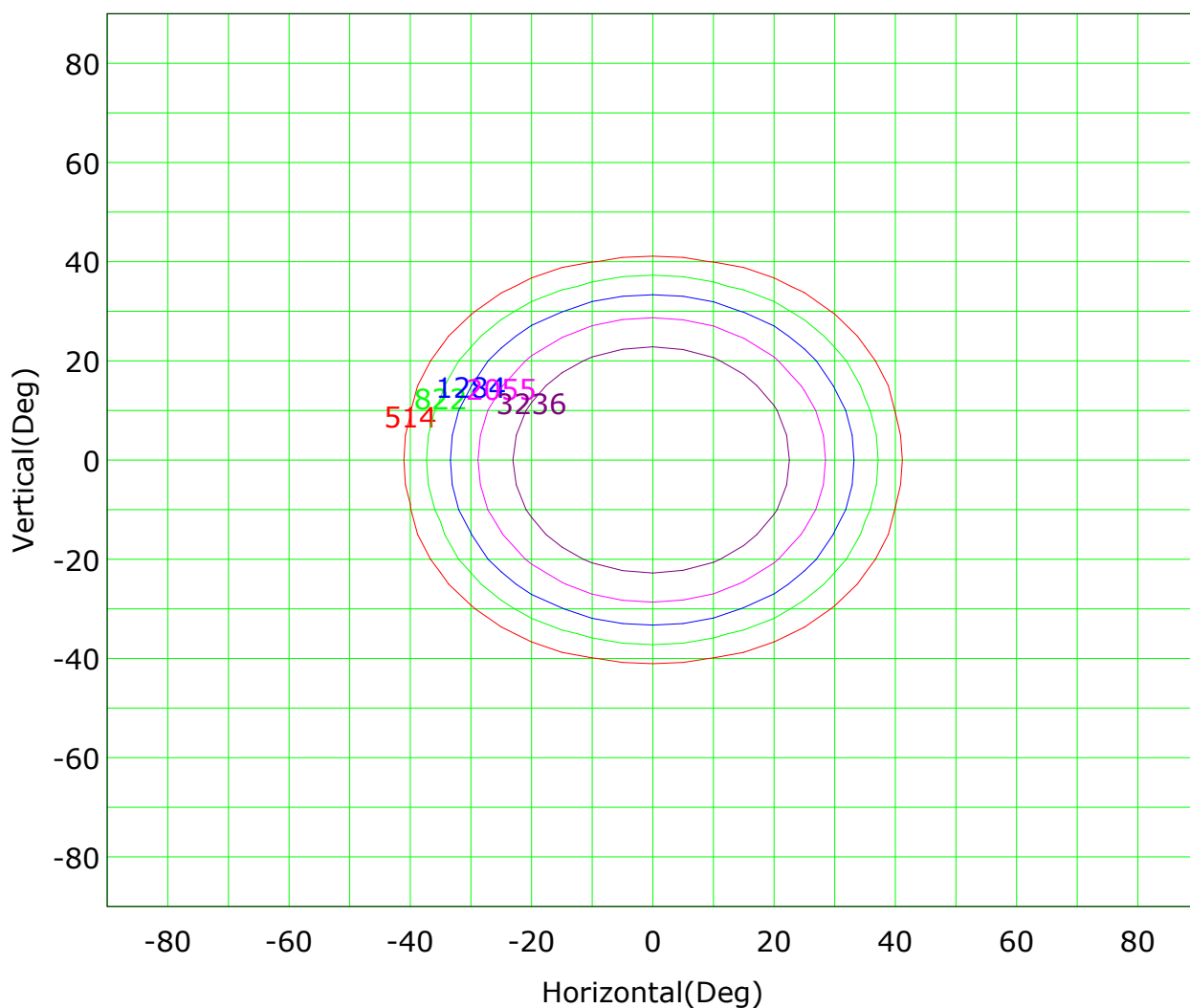
Luminous Intensity Distribution Curve(cd/klm)



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)

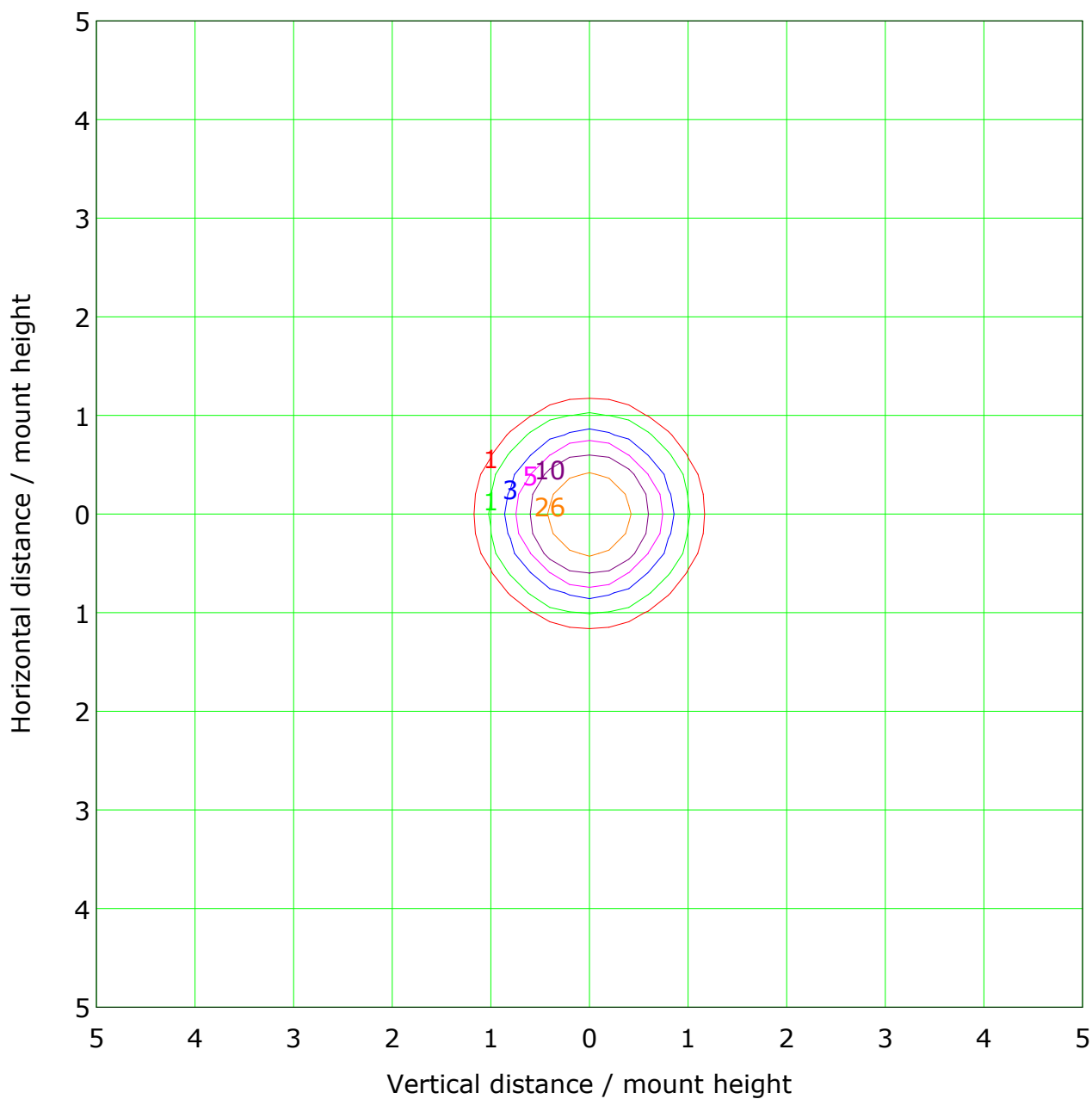


Imax (100%): 5137 cd

(10%): 514 cd
(25%): 1284 cd
(63%): 3236 cd

(16%): 822 cd
(40%): 2055 cd
(100%): 5137 cd

IsoLux Plot



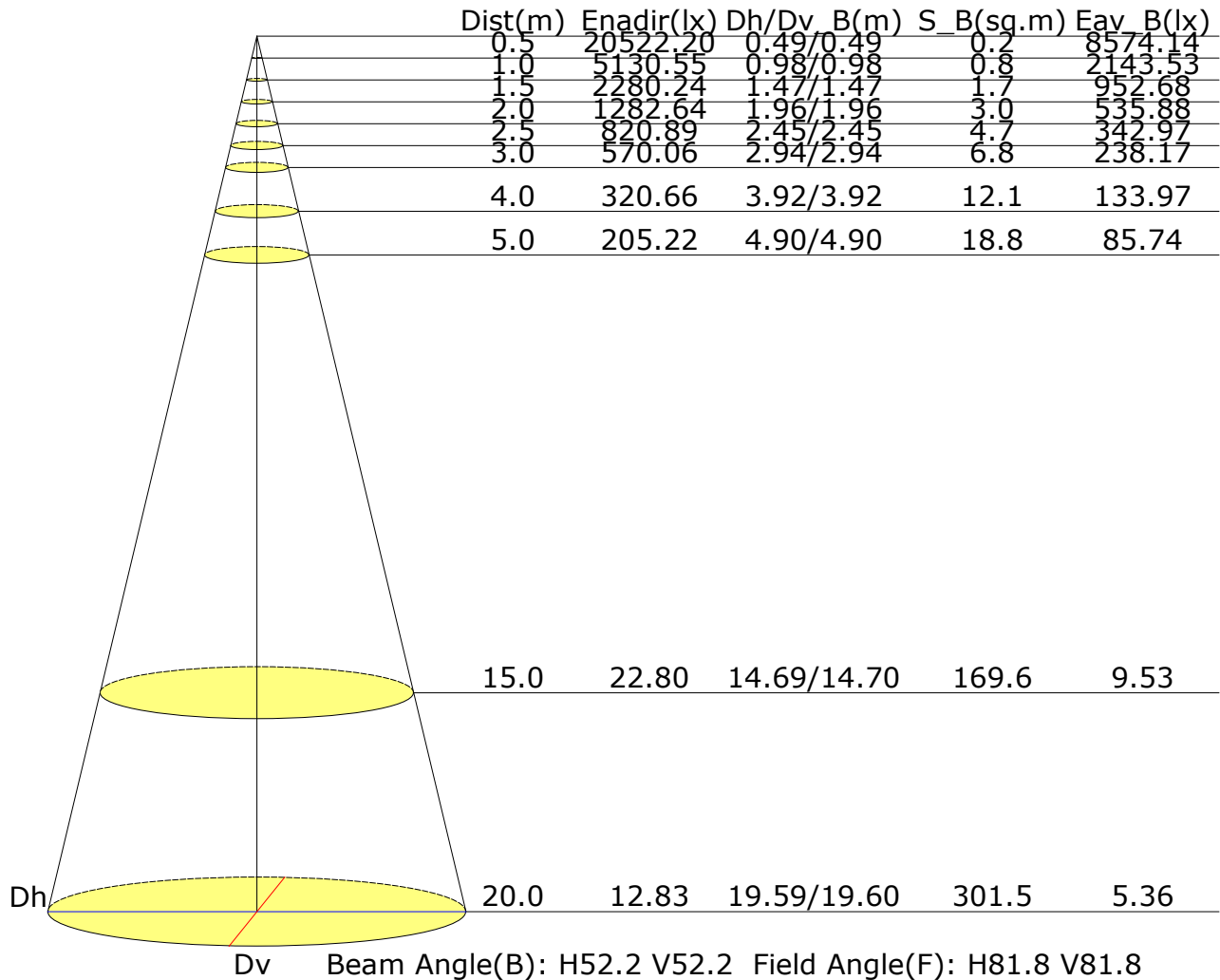
Mounting Height: 10.0m Max Lux(100%): 51.3 lx

(1%): 0.5 lx	(2%): 1.0 lx
(5%): 2.6 lx	(10%): 5.1 lx
(20%): 10.3 lx	(50%): 25.7 lx
(100%): 51.3 lx	

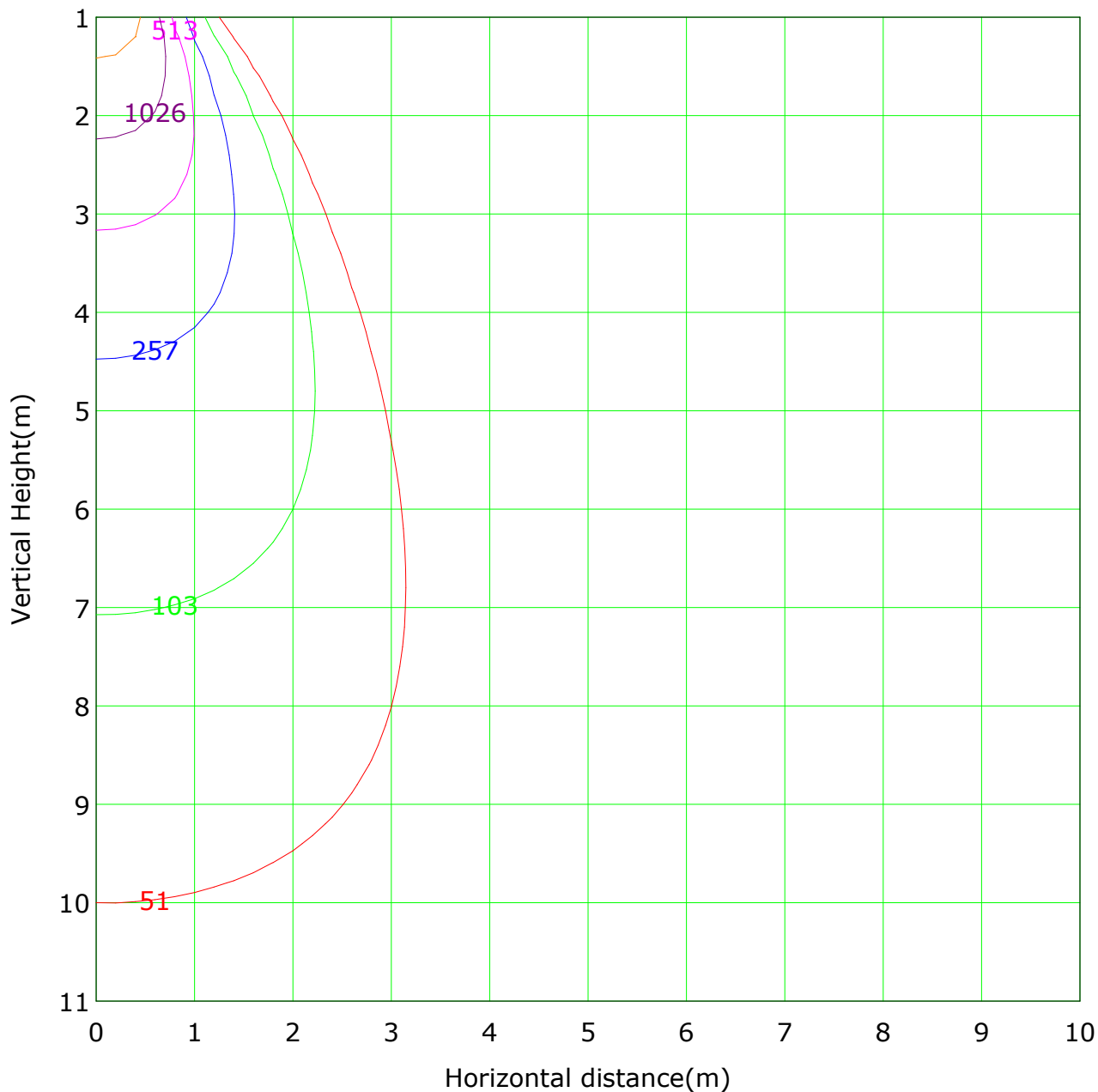
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



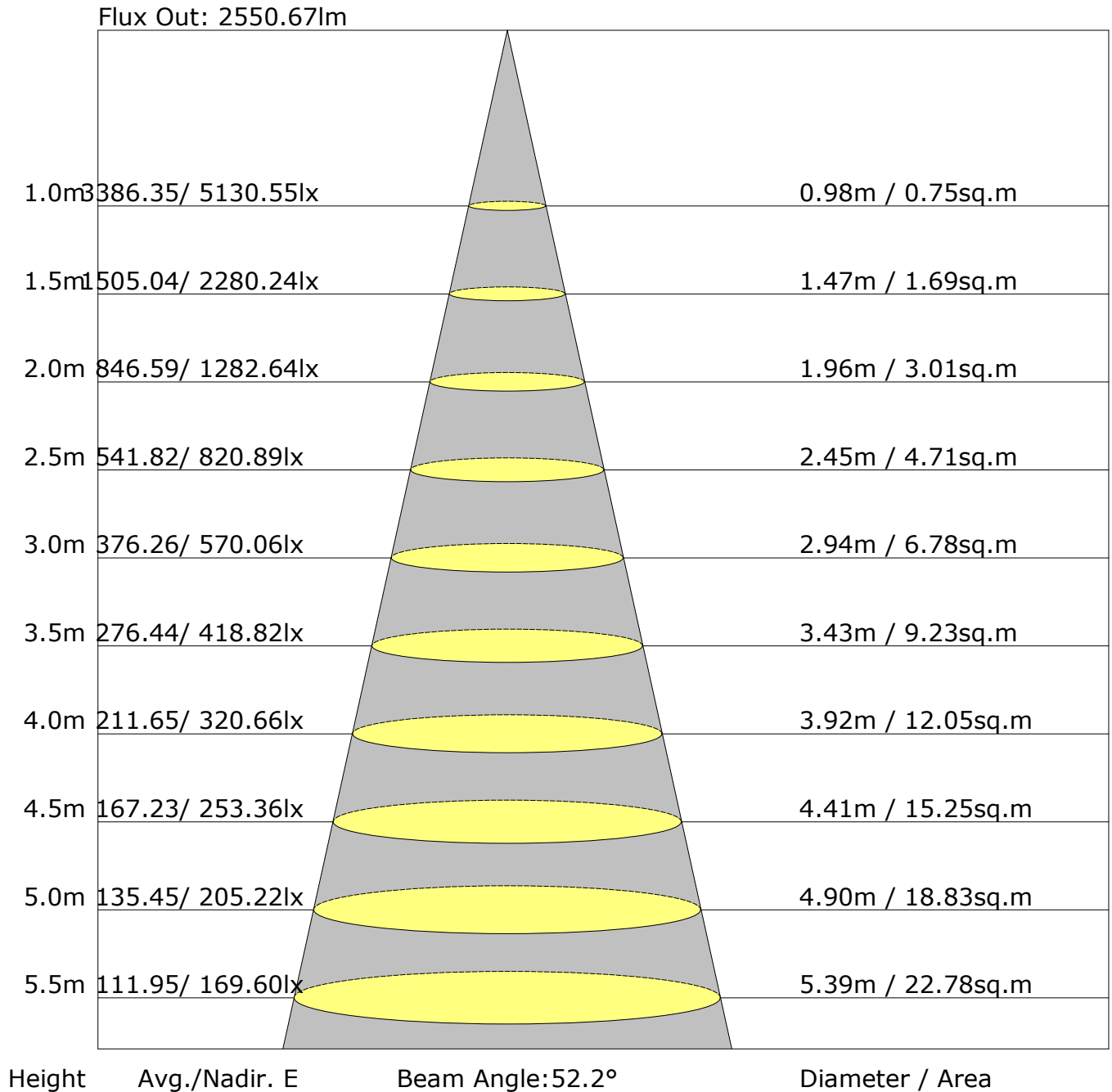
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5130.5 lx
— (1%): 51.3 lx — (2%): 102.6 lx
— (5%): 256.5 lx — (10%): 513.1 lx
— (20%): 1026.1 lx — (50%): 2565.3 lx
— (100%): 5130.5 lx

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:

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	22.5	23.3	22.7	23.5	23.7	22.5	23.3	22.7	23.5	23.7
3H	22.3	23.1	22.6	23.3	23.6	22.3	23.1	22.6	23.3	23.6
4H	22.3	23.0	22.6	23.2	23.5	22.3	23.0	22.6	23.2	23.5
6H	22.2	22.8	22.5	23.1	23.4	22.2	22.8	22.5	23.1	23.4
8H	22.1	22.8	22.5	23.1	23.4	22.1	22.8	22.5	23.1	23.4
12H	22.1	22.7	22.5	23.0	23.3	22.1	22.7	22.5	23.0	23.3
X=4H Y=2H	22.3	23.0	22.6	23.2	23.5	22.3	23.0	22.6	23.2	23.5
3H	22.1	22.7	22.5	23.0	23.3	22.1	22.7	22.5	23.0	23.4
4H	22.0	22.6	22.4	22.9	23.3	22.0	22.6	22.4	22.9	23.3
6H	22.0	22.4	22.4	22.8	23.2	22.0	22.4	22.4	22.8	23.2
8H	21.9	22.3	22.3	22.7	23.1	21.9	22.3	22.3	22.7	23.1
12H	21.9	22.3	22.3	22.7	23.1	21.9	22.3	22.3	22.7	23.1
X=8H Y=4H	21.9	22.3	22.3	22.7	23.1	21.9	22.3	22.3	22.7	23.1
6H	21.8	22.2	22.3	22.6	23.0	21.8	22.2	22.3	22.6	23.0
8H	21.8	22.1	22.2	22.5	23.0	21.8	22.1	22.3	22.5	23.0
12H	21.7	22.0	22.2	22.5	23.0	21.7	22.0	22.2	22.5	23.0
X=12H Y=4H	21.9	22.3	22.3	22.7	23.1	21.9	22.3	22.3	22.7	23.1
6H	21.8	22.1	22.2	22.5	23.0	21.8	22.1	22.3	22.5	23.0
8H	21.7	22.0	22.2	22.5	23.0	21.7	22.0	22.2	22.5	23.0
Variations with the observer position at spacings:										
S=1.0H	+4.2/-9.6					+4.1/-9.4				
S=1.5H	+6.9/-27.0					+6.8/-27.8				
S=2.0H	+8.9/-1.\$					+8.8/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 3960lm ($8\log(F/F_0) = 4.8$).

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	1989	50.2
	FL (0°-30°)	1502	37.9
	FM (30°-60°)	486	12.3
	FH (60°-80°)	1	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1971	49.8
	BL (0°-30°)	1484	37.5
	BM (30°-60°)	487	12.3
	BH (60°-80°)	1	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	5130.2	4.9	4.9	0.12	0.12
1.0-2.0	5126.0	14.7	19.6	0.37	0.50
2.0-3.0	5115.8	24.5	44.1	0.62	1.11
3.0-4.0	5101.9	34.2	78.3	0.86	1.98
4.0-5.0	5082.7	43.7	122.0	1.10	3.08
5.0-6.0	5057.4	53.2	175.1	1.34	4.42
6.0-7.0	5028.4	62.4	237.6	1.58	6.00
7.0-8.0	4994.1	71.5	309.0	1.81	7.80
8.0-9.0	4953.8	80.3	389.3	2.03	9.83
9.0-10.0	4907.0	88.8	478.2	2.24	12.07
10.0-11.0	4851.6	97.0	575.1	2.45	14.52
11.0-12.0	4788.3	104.7	679.8	2.64	17.17
12.0-13.0	4716.7	112.0	791.7	2.83	19.99
13.0-14.0	4634.9	118.7	910.4	3.00	22.99
14.0-15.0	4542.9	124.7	1035.1	3.15	26.14
15.0-16.0	4438.2	130.1	1165.2	3.28	29.42
16.0-17.0	4319.1	134.5	1299.7	3.40	32.82
17.0-18.0	4187.9	138.1	1437.8	3.49	36.31
18.0-19.0	4041.6	140.6	1578.4	3.55	39.86
19.0-20.0	3879.6	142.0	1720.5	3.59	43.44
20.0-21.0	3705.4	142.3	1862.8	3.59	47.04
21.0-22.0	3520.8	141.5	2004.3	3.57	50.61
22.0-23.0	3324.4	139.5	2143.8	3.52	54.13
23.0-24.0	3119.0	136.4	2280.2	3.44	57.58
24.0-25.0	2908.6	132.3	2412.4	3.34	60.92
25.0-26.0	2694.9	127.2	2539.7	3.21	64.13
26.0-27.0	2481.6	121.4	2661.1	3.07	67.20
27.0-28.0	2272.4	115.1	2776.1	2.91	70.10
28.0-29.0	2069.3	108.3	2884.4	2.73	72.84
29.0-30.0	1875.5	101.3	2985.7	2.56	75.39
30.0-31.0	1694.6	94.3	3080.0	2.38	77.77
31.0-32.0	1525.0	87.4	3167.4	2.21	79.98
32.0-33.0	1367.1	80.5	3247.9	2.03	82.02
33.0-34.0	1222.3	74.0	3321.9	1.87	83.88
34.0-35.0	1089.7	67.7	3389.6	1.71	85.59
35.0-36.0	970.2	61.8	3451.4	1.56	87.15

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	863.1	56.3	3507.7	1.42	88.57
37.0-38.0	767.4	51.2	3558.9	1.29	89.87
38.0-39.0	683.0	46.6	3605.5	1.18	91.05
39.0-40.0	607.2	42.4	3647.9	1.07	92.11
40.0-41.0	539.4	38.4	3686.3	0.97	93.08
41.0-42.0	480.2	34.9	3721.2	0.88	93.97
42.0-43.0	426.7	31.6	3752.8	0.80	94.76
43.0-44.0	377.3	28.5	3781.3	0.72	95.48
44.0-45.0	332.4	25.6	3806.8	0.65	96.13
45.0-46.0	291.0	22.8	3829.6	0.57	96.70
46.0-47.0	253.3	20.1	3849.8	0.51	97.21
47.0-48.0	219.4	17.7	3867.5	0.45	97.66
48.0-49.0	191.8	15.8	3883.2	0.40	98.06
49.0-50.0	169.2	14.1	3897.4	0.36	98.41
50.0-51.0	148.1	12.5	3909.9	0.32	98.73
51.0-52.0	128.1	11.0	3920.9	0.28	99.01
52.0-53.0	107.8	9.4	3930.3	0.24	99.24
53.0-54.0	87.8	7.7	3938.0	0.20	99.44
54.0-55.0	69.4	6.2	3944.2	0.16	99.60
55.0-56.0	52.4	4.7	3948.9	0.12	99.72
56.0-57.0	37.7	3.4	3952.4	0.09	99.80
57.0-58.0	26.4	2.4	3954.8	0.06	99.86
58.0-59.0	18.8	1.8	3956.6	0.04	99.91
59.0-60.0	13.6	1.3	3957.9	0.03	99.94
60.0-61.0	8.7	0.8	3958.7	0.02	99.96
61.0-62.0	4.9	0.5	3959.2	0.01	99.97
62.0-63.0	3.0	0.3	3959.5	0.01	99.98
63.0-64.0	1.9	0.2	3959.6	0.00	99.99
64.0-65.0	1.5	0.1	3959.8	0.00	99.99
65.0-66.0	1.9	0.2	3960.0	0.00	100.00
66.0-67.0	1.5	0.2	3960.1	0.00	100.00
67.0-68.0	0.4	0.0	3960.2	0.00	100.00
68.0-69.0	0.0	0.0	3960.2	0.00	100.00
69.0-70.0	0.0	0.0	3960.2	0.00	100.00
70.0-71.0	0.0	0.0	3960.2	0.00	100.00
71.0-72.0	0.0	0.0	3960.2	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: 3.010 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	5130.5	5130.5								
G1.0	5136.6	5123.0								
G2.0	5130.5	5114.0								
G3.0	5123.0	5095.9								
G4.0	5111.0	5077.8								
G5.0	5092.9	5049.1								
G6.0	5070.2	5017.5								
G7.0	5041.6	4984.3								
G8.0	5009.9	4940.6								
G9.0	4970.7	4893.8								
G10.0	4924.0	4839.6								
G11.0	4865.2	4777.8								
G12.0	4803.4	4706.9								
G13.0	4728.0	4628.5								
G14.0	4643.6	4539.5								
G15.0	4548.6	4440.0								
G16.0	4437.0	4327.0								
G17.0	4310.4	4201.8								
G18.0	4174.7	4064.6								
G19.0	4017.9	3909.4								
G20.0	3850.6	3740.5								
G21.0	3669.6	3561.1								
G22.0	3479.7	3372.6								
G23.0	3271.6	3173.6								
G24.0	3063.6	2967.1								
G25.0	2848.0	2756.0								
G26.0	2630.9	2544.9								
G27.0	2413.8	2336.9								
G28.0	2204.2	2134.8								
G29.0	1999.2	1938.8								
G30.0	1804.7	1759.4								
G31.0	1628.3	1586.1								
G32.0	1459.4	1426.2								
G33.0	1304.1	1278.5								
G34.0	1162.4	1144.3								
G35.0	1032.7	1019.2								
G36.0	918.2	910.6								

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: 3.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	814.1	809.6								
G38.0	723.7	722.2								
G39.0	642.3	643.8								
G40.0	569.9	572.9								
G41.0	503.6	511.1								
G42.0	447.8	458.3								
G43.0	396.5	404.0								
G44.0	348.3	360.3								
G45.0	303.0	318.1								
G46.0	263.8	278.9								
G47.0	229.2	241.2								
G48.0	197.5	209.6								
G49.0	174.9	185.4								
G50.0	153.8	162.8								
G51.0	132.7	143.2								
G52.0	113.1	123.6								
G53.0	93.5	101.0								
G54.0	73.9	82.9								
G55.0	57.3	63.3								
G56.0	42.2	46.7								
G57.0	28.6	33.2								
G58.0	19.6	24.1								
G59.0	15.1	16.6								
G60.0	10.6	12.1								
G61.0	4.5	7.5								
G62.0	3.0	4.5								
G63.0	3.0	1.5								
G64.0	1.5	1.5								
G65.0	1.5	1.5								
G66.0	3.0	1.5								
G67.0	0.0	1.5								
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
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Humidity:
Inspector:

Unit: cd

Inspector: