

Report No.:

Test Time: 2026-09-30 17:07

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA90-1050A-50D Lamp Description: BLX V13C F90 3000K

Luminous Length (mm): -40

Luminous Width (mm): -40

Voltage: 223.3 V

Current: 0.187 A

Power: 41.10 W

Power Factor: 0.981

Photometric Results

CIE Class: Direct

Measurement Flux: 3765.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H51

Vertical Diffuse Angle(50%): V51

Luminaire Efficacy Rating (LER): 91.66

Max. Intensity: 4687.98 cd

S/MH(C0/C180): 0.81

Total Rated Lamp Lumens: 3765.2 lm

Efficiency: 100%

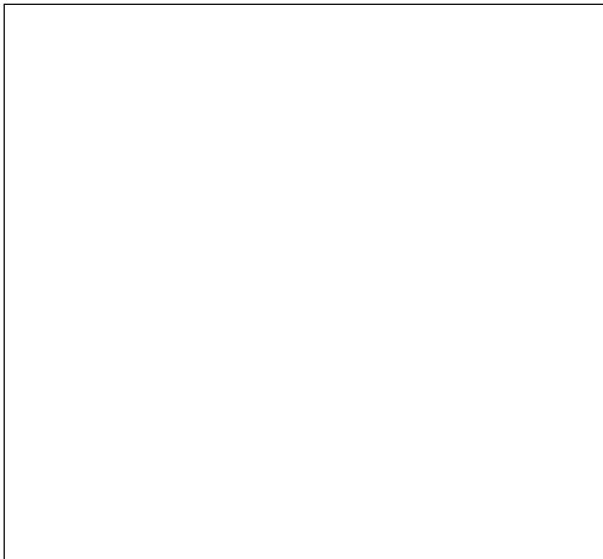
Upward Ratio: 0%

Central Intensity: 4684.21 cd

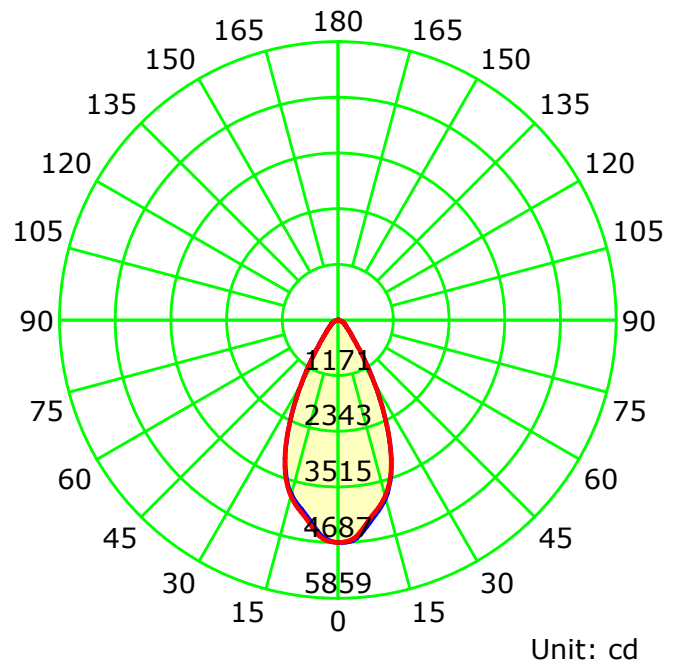
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.81

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

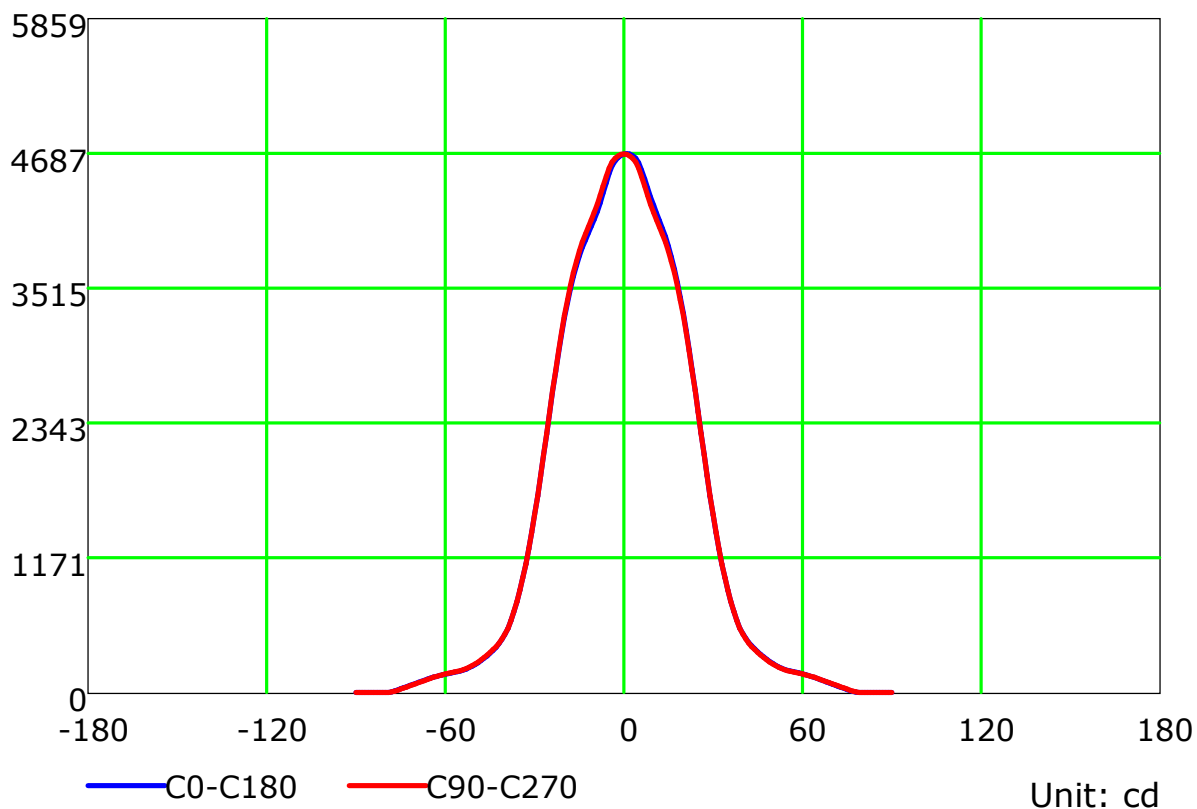
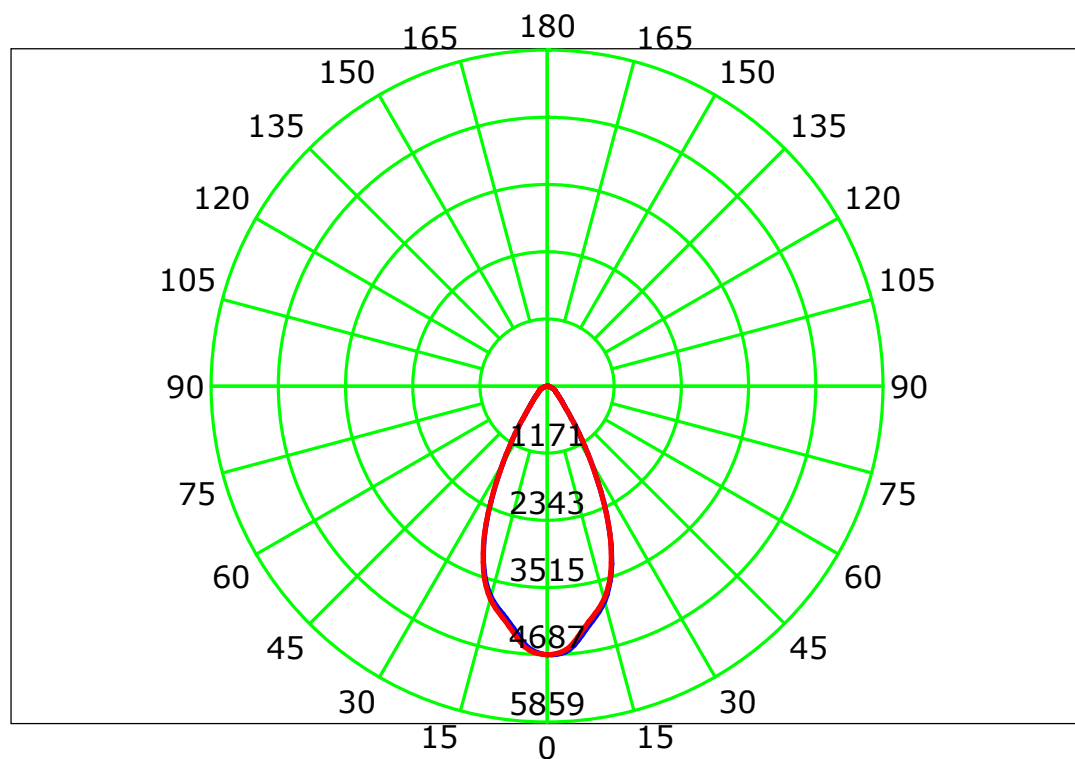
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

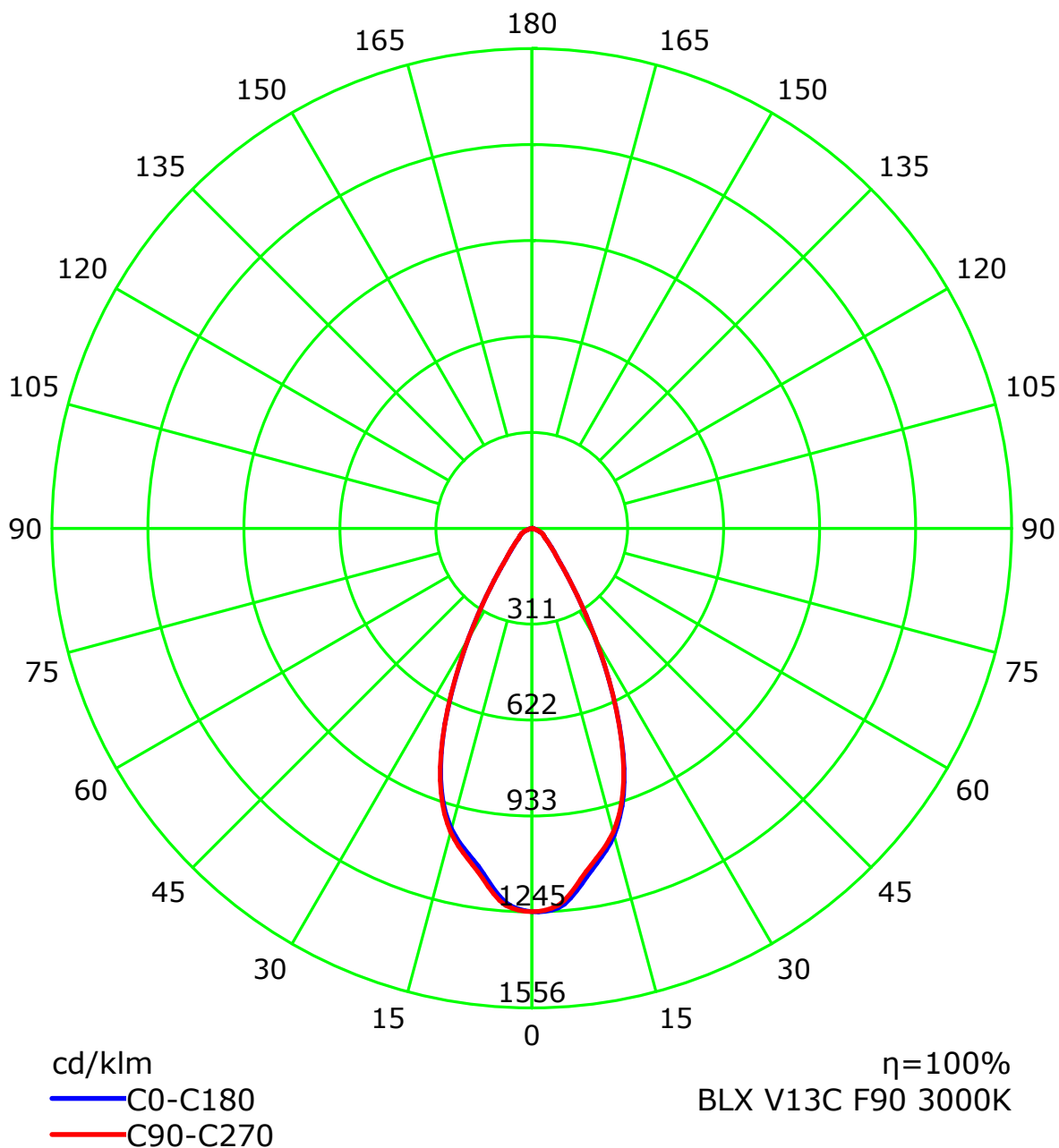
Luminous Intensity Distribution Curve



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:

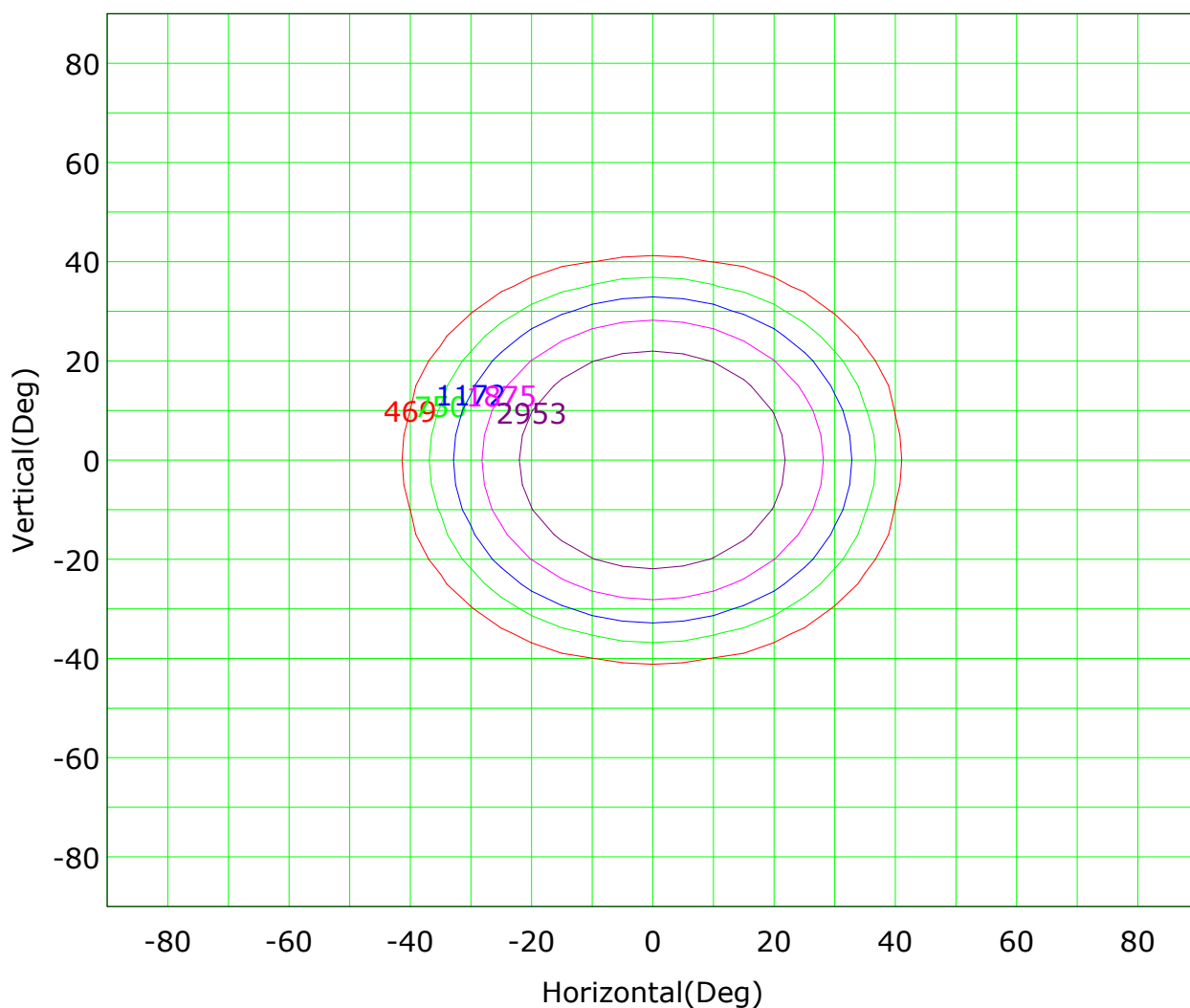
Luminous Intensity Distribution Curve(cd/klm)



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%): 4688 cd

(10%): 469 cd	(16%): 750 cd
(25%): 1172 cd	(40%): 1875 cd
(63%): 2953 cd	(100%): 4688 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

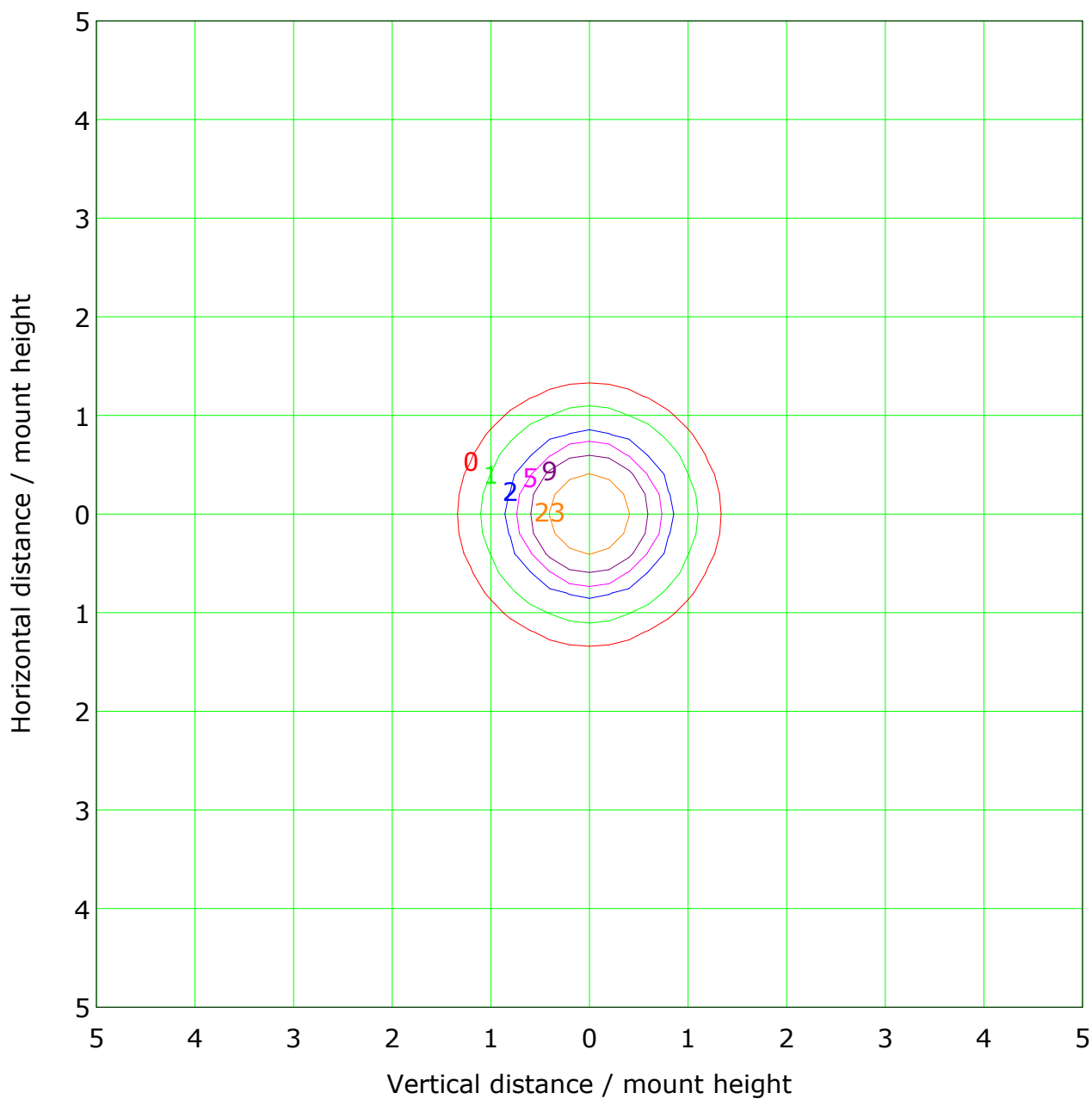
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



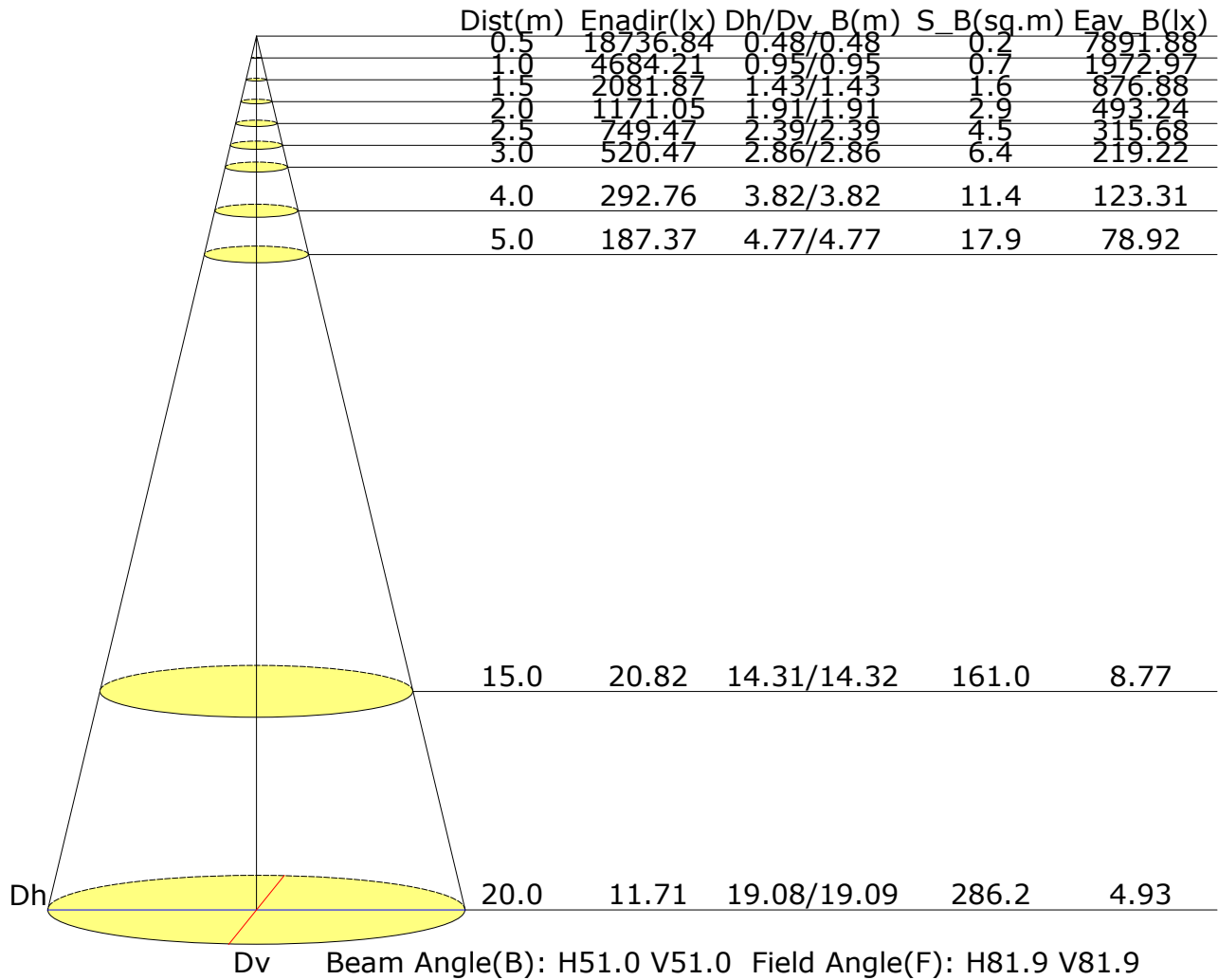
Mounting Height: 10.0m Max Lux(100%): 46.9 lx

(1%): 0.5 lx	(2%): 0.9 lx
(5%): 2.3 lx	(10%): 4.7 lx
(20%): 9.4 lx	(50%): 23.4 lx
(100%): 46.9 lx	

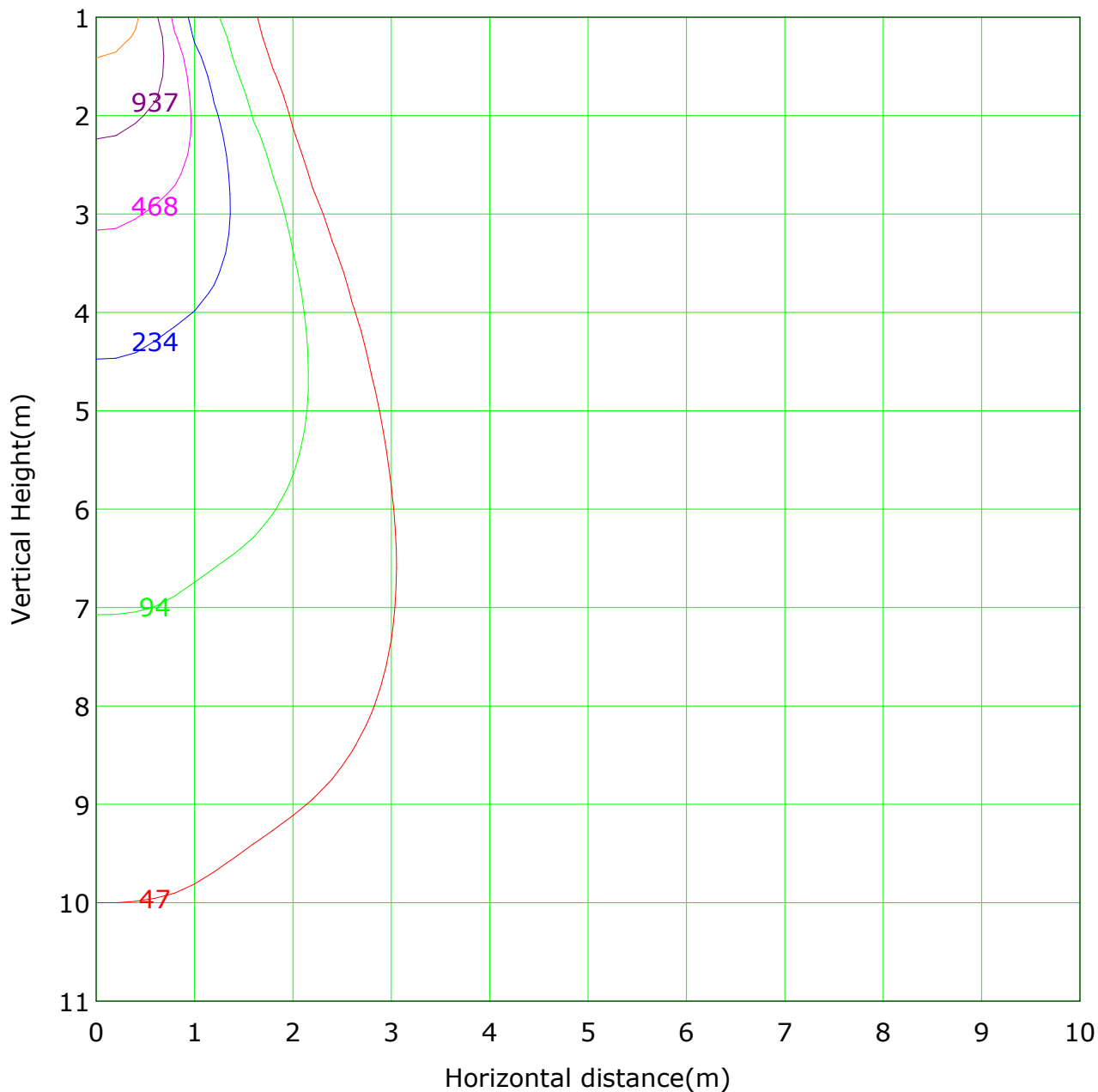
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Illuminance at a Distance



Vertical IsoLux Plot



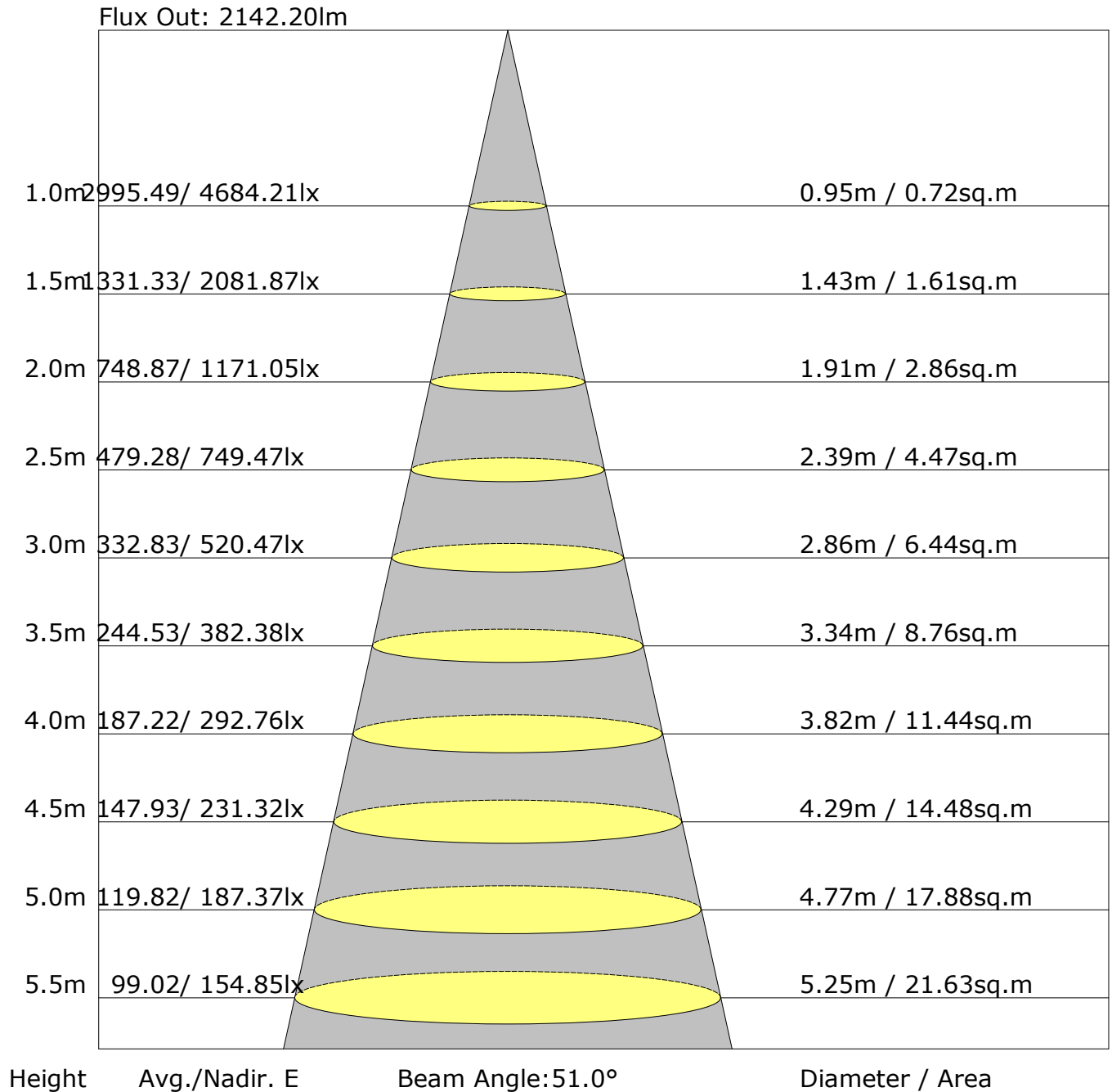
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4684.2 lx
— (1%): 46.8 lx — (2%): 93.7 lx
— (5%): 234.2 lx — (10%): 468.4 lx
— (20%): 936.8 lx — (50%): 2342.1 lx
— (100%): 4684.2 lx

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	29.4	30.4	29.7	30.6	30.8	29.4	30.3	29.7	30.5	30.7
3H	30.1	30.9	30.4	31.2	31.4	30.1	30.9	30.4	31.2	31.4
4H	30.2	31.0	30.5	31.2	31.5	30.2	31.0	30.5	31.2	31.5
6H	30.1	30.8	30.4	31.1	31.4	30.1	30.9	30.5	31.1	31.4
8H	30.1	30.8	30.4	31.1	31.4	30.1	30.8	30.4	31.1	31.4
12H	30.0	30.7	30.4	31.0	31.3	30.1	30.7	30.4	31.0	31.4
X=4H Y=2H	29.8	30.5	30.1	30.8	31.1	29.7	30.5	30.0	30.8	31.0
3H	30.5	31.2	30.9	31.5	31.9	30.6	31.2	30.9	31.5	31.9
4H	30.6	31.2	31.0	31.6	31.9	30.7	31.3	31.1	31.6	32.0
6H	30.6	31.1	31.0	31.5	31.9	30.6	31.1	31.0	31.5	31.9
8H	30.5	31.0	31.0	31.4	31.8	30.6	31.0	31.0	31.4	31.8
12H	30.5	30.9	30.9	31.3	31.8	30.5	31.0	31.0	31.4	31.8
X=8H Y=4H	30.6	31.1	31.0	31.5	31.9	30.6	31.1	31.1	31.5	31.9
6H	30.5	30.9	31.0	31.4	31.8	30.6	31.0	31.0	31.4	31.8
8H	30.5	30.8	31.0	31.3	31.8	30.5	30.9	31.0	31.3	31.8
12H	30.5	30.7	30.9	31.2	31.7	30.5	30.8	31.0	31.2	31.7
X=12H Y=4H	30.6	31.0	31.0	31.4	31.8	30.6	31.0	31.0	31.4	31.9
6H	30.5	30.8	31.0	31.3	31.8	30.5	30.9	31.0	31.3	31.8
8H	30.5	30.7	30.9	31.2	31.7	30.5	30.8	31.0	31.2	31.7
Variations with the observer position at spacings:										
S=1.0H	+1.6/-1.1					+1.6/-1.1				
S=1.5H	+3.2/-1.5					+3.1/-1.5				
S=2.0H	+4.6/-2.4					+4.6/-2.3				

Calculate in accordance with CIE Pub.117. The table is revised with 3765lm ($8\log(F/F_0) = 4.6$).

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:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1888	50.1
	FL (0°-30°)	1297	34.4
	FM (30°-60°)	514	13.6
	FH (60°-80°)	77	2.0
	FVH (80°-90°)	1	0.0
	BACK LIGHT	1877	49.9
	BL (0°-30°)	1287	34.2
	BM (30°-60°)	510	13.6
	BH (60°-80°)	79	2.1
	BVH (80°-90°)	1	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	4682.2	4.5	4.5	0.12	0.12
1.0-2.0	4674.0	13.4	17.9	0.36	0.48
2.0-3.0	4657.7	22.3	40.2	0.59	1.07
3.0-4.0	4631.5	31.0	71.2	0.82	1.89
4.0-5.0	4588.6	39.5	110.7	1.05	2.94
5.0-6.0	4525.2	47.6	158.2	1.26	4.20
6.0-7.0	4447.3	55.2	213.4	1.47	5.67
7.0-8.0	4364.7	62.5	275.9	1.66	7.33
8.0-9.0	4284.7	69.4	345.4	1.84	9.17
9.0-10.0	4210.8	76.2	421.6	2.02	11.20
10.0-11.0	4143.5	82.8	504.4	2.20	13.40
11.0-12.0	4080.8	89.2	593.6	2.37	15.77
12.0-13.0	4018.7	95.4	689.0	2.53	18.30
13.0-14.0	3952.8	101.2	790.2	2.69	20.99
14.0-15.0	3879.6	106.5	896.7	2.83	23.82
15.0-16.0	3796.5	111.3	1007.9	2.95	26.77
16.0-17.0	3701.5	115.3	1123.2	3.06	29.83
17.0-18.0	3595.4	118.6	1241.8	3.15	32.98
18.0-19.0	3477.7	121.0	1362.8	3.21	36.19
19.0-20.0	3346.6	122.5	1485.3	3.25	39.45
20.0-21.0	3203.2	123.0	1608.3	3.27	42.72
21.0-22.0	3048.9	122.5	1730.9	3.25	45.97
22.0-23.0	2884.6	121.1	1851.9	3.22	49.18
23.0-24.0	2711.4	118.6	1970.5	3.15	52.33
24.0-25.0	2530.5	115.1	2085.6	3.06	55.39
25.0-26.0	2345.2	110.7	2196.3	2.94	58.33
26.0-27.0	2159.6	105.7	2301.9	2.81	61.14
27.0-28.0	1976.3	100.1	2402.0	2.66	63.79
28.0-29.0	1798.2	94.1	2496.1	2.50	66.29
29.0-30.0	1628.6	87.9	2584.0	2.34	68.63
30.0-31.0	1469.3	81.8	2665.8	2.17	70.80
31.0-32.0	1321.0	75.7	2741.5	2.01	72.81
32.0-33.0	1183.8	69.7	2811.3	1.85	74.66
33.0-34.0	1058.0	64.0	2875.3	1.70	76.37
34.0-35.0	943.6	58.6	2933.9	1.56	77.92
35.0-36.0	839.8	53.5	2987.4	1.42	79.34

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	746.6	48.7	3036.1	1.29	80.64
37.0-38.0	663.9	44.3	3080.4	1.18	81.81
38.0-39.0	592.5	40.4	3120.9	1.07	82.89
39.0-40.0	533.3	37.2	3158.1	0.99	83.87
40.0-41.0	486.8	34.7	3192.7	0.92	84.80
41.0-42.0	449.0	32.6	3225.3	0.87	85.66
42.0-43.0	416.0	30.8	3256.2	0.82	86.48
43.0-44.0	387.0	29.2	3285.4	0.78	87.26
44.0-45.0	361.0	27.7	3313.1	0.74	87.99
45.0-46.0	337.1	26.4	3339.5	0.70	88.69
46.0-47.0	314.9	25.1	3364.5	0.67	89.36
47.0-48.0	294.2	23.8	3388.3	0.63	89.99
48.0-49.0	275.2	22.6	3410.9	0.60	90.59
49.0-50.0	257.9	21.5	3432.4	0.57	91.16
50.0-51.0	242.2	20.5	3452.9	0.54	91.71
51.0-52.0	228.1	19.6	3472.5	0.52	92.23
52.0-53.0	215.4	18.7	3491.2	0.50	92.72
53.0-54.0	204.3	18.0	3509.3	0.48	93.20
54.0-55.0	195.1	17.4	3526.7	0.46	93.66
55.0-56.0	188.1	17.0	3543.7	0.45	94.12
56.0-57.0	182.3	16.7	3560.3	0.44	94.56
57.0-58.0	176.8	16.4	3576.7	0.43	94.99
58.0-59.0	171.0	16.0	3592.7	0.42	95.42
59.0-60.0	165.0	15.6	3608.3	0.41	95.83
60.0-61.0	158.6	15.1	3623.4	0.40	96.23
61.0-62.0	151.9	14.6	3638.0	0.39	96.62
62.0-63.0	145.1	14.1	3652.2	0.37	97.00
63.0-64.0	137.7	13.5	3665.7	0.36	97.36
64.0-65.0	129.3	12.8	3678.5	0.34	97.70
65.0-66.0	120.0	12.0	3690.4	0.32	98.01
66.0-67.0	110.4	11.1	3701.5	0.29	98.31
67.0-68.0	100.8	10.2	3711.8	0.27	98.58
68.0-69.0	91.4	9.3	3721.1	0.25	98.83
69.0-70.0	82.1	8.4	3729.5	0.22	99.05
70.0-71.0	72.8	7.5	3737.0	0.20	99.25
71.0-72.0	63.4	6.6	3743.6	0.17	99.43

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	4684.2	4684.2								
G1.0	4688.0	4672.4								
G2.0	4683.0	4652.7								
G3.0	4670.7	4624.5								
G4.0	4648.9	4581.8								
G5.0	4608.1	4515.8								
G6.0	4543.5	4433.3								
G7.0	4467.6	4344.6								
G8.0	4388.3	4258.4								
G9.0	4310.4	4181.5								
G10.0	4237.3	4114.1								
G11.0	4169.4	4053.3								
G12.0	4104.5	3996.0								
G13.0	4038.2	3936.2								
G14.0	3964.9	3872.0								
G15.0	3882.8	3798.8								
G16.0	3789.4	3714.9								
G17.0	3682.9	3618.8								
G18.0	3567.9	3512.1								
G19.0	3439.6	3391.1								
G20.0	3298.4	3257.4								
G21.0	3145.3	3111.8								
G22.0	2983.0	2955.5								
G23.0	2809.7	2790.1								
G24.0	2629.9	2616.0								
G25.0	2443.7	2432.4								
G26.0	2256.0	2248.8								
G27.0	2068.6	2064.9								
G28.0	1886.2	1885.3								
G29.0	1709.2	1712.1								
G30.0	1544.5	1548.5								
G31.0	1391.1	1393.2								
G32.0	1249.5	1250.5								
G33.0	1116.6	1118.5								
G34.0	998.7	998.1								
G35.0	888.5	888.8								
G36.0	791.2	790.5								

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	703.9	700.8								
G38.0	627.3	623.7								
G39.0	561.5	557.5								
G40.0	510.2	504.2								
G41.0	470.7	462.3								
G42.0	436.5	426.4								
G43.0	406.6	394.6								
G44.0	379.7	367.1								
G45.0	354.6	342.5								
G46.0	331.8	319.6								
G47.0	310.2	298.0								
G48.0	289.9	278.5								
G49.0	271.6	260.8								
G50.0	254.5	244.9								
G51.0	238.9	230.5								
G52.0	225.4	217.6								
G53.0	213.1	205.8								
G54.0	202.4	195.8								
G55.0	194.1	188.0								
G56.0	188.0	182.1								
G57.0	182.3	177.0								
G58.0	176.1	171.8								
G59.0	170.1	166.1								
G60.0	163.4	160.4								
G61.0	156.4	154.2								
G62.0	149.4	147.7								
G63.0	141.7	141.4								
G64.0	133.2	134.5								
G65.0	123.4	126.1								
G66.0	113.1	117.4								
G67.0	103.3	107.7								
G68.0	93.7	98.5								
G69.0	84.1	89.3								
G70.0	74.8	80.2								
G71.0	65.2	71.0								
G72.0	55.5	61.7								
G73.0	46.2	52.7								

C Plane (°):0.0-180.0: 180.0
Test Lab:
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Temperature:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: