

Report No.:

Test Time: 2026-09-30 10:57

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA90-1050MA-15D

Lamp Description: Blx V13C F90 3000K

Luminous Width (mm): -82

Current: 0.185 A

Power Factor: 0.979

Luminous Length (mm): -82

Voltage: 226.9 V

Power: 41.20 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4056.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H25

Vertical Diffuse Angle(50%): V25

Luminaire Efficacy Rating (LER): 98.52

Max. Intensity: 16929.44 cd

S/MH(C0/C180): 0.43

Total Rated Lamp Lumens: 4056.8 lm

Efficiency: 100%

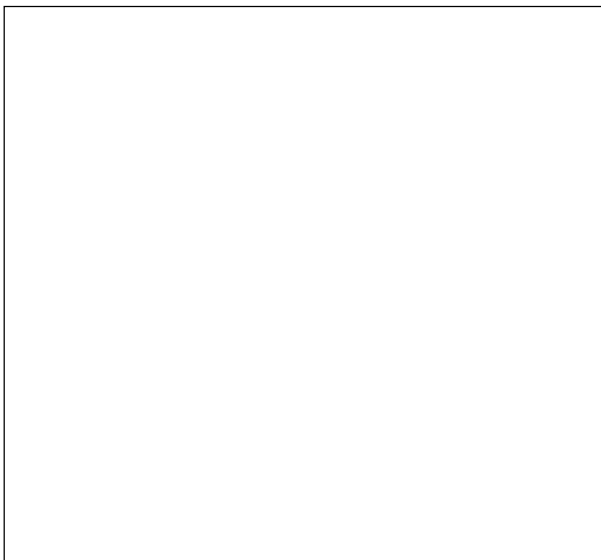
Upward Ratio: 0%

Central Intensity: 16917.38 cd

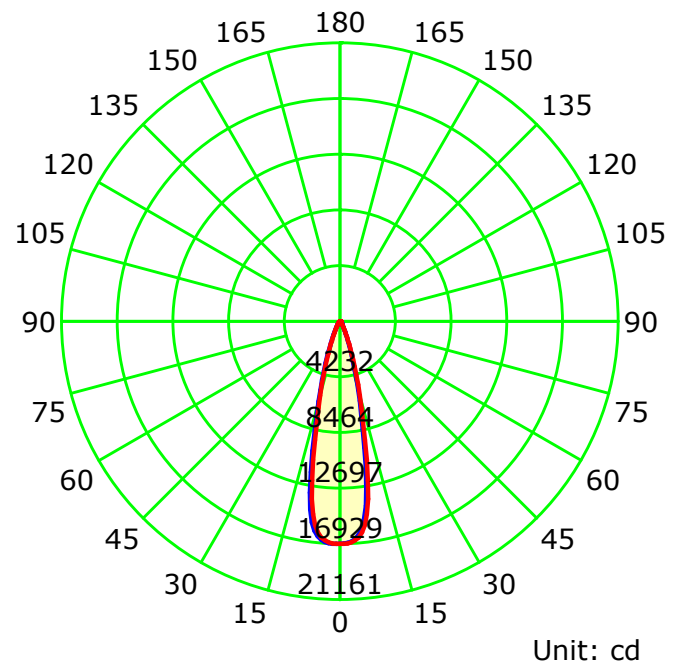
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.43

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

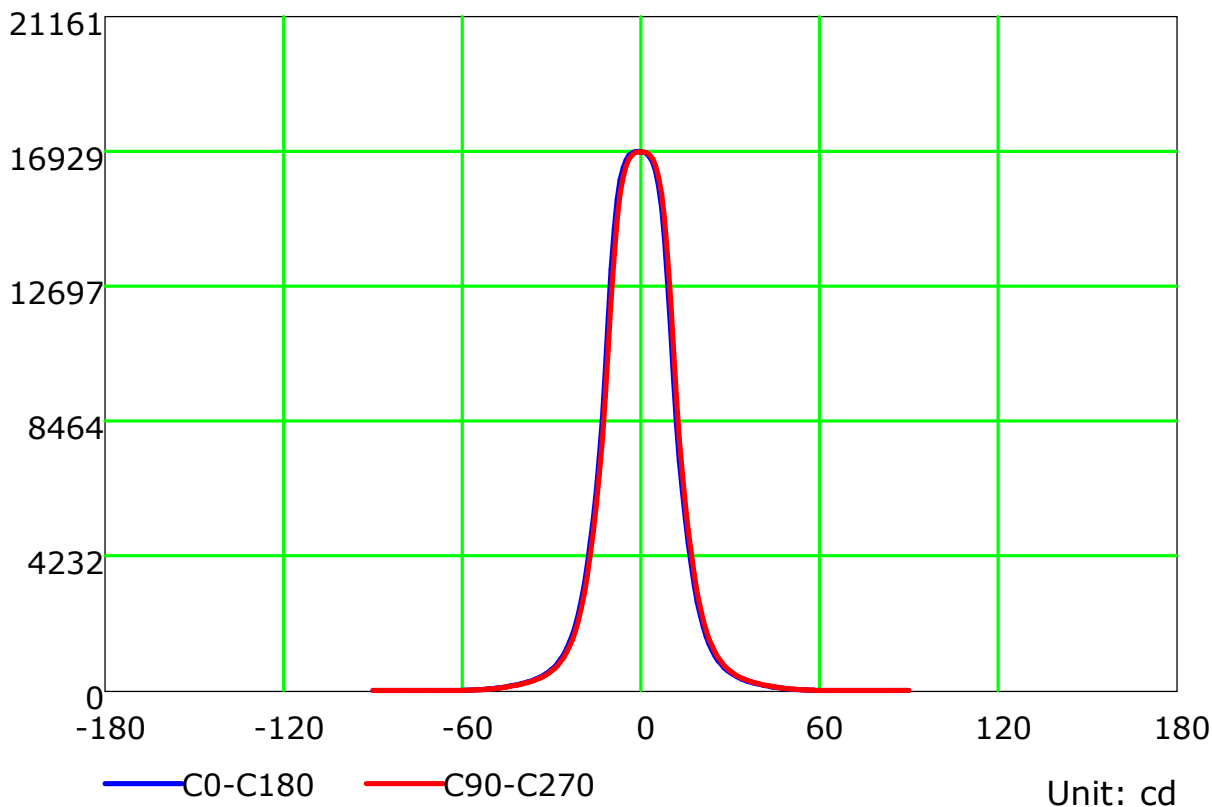
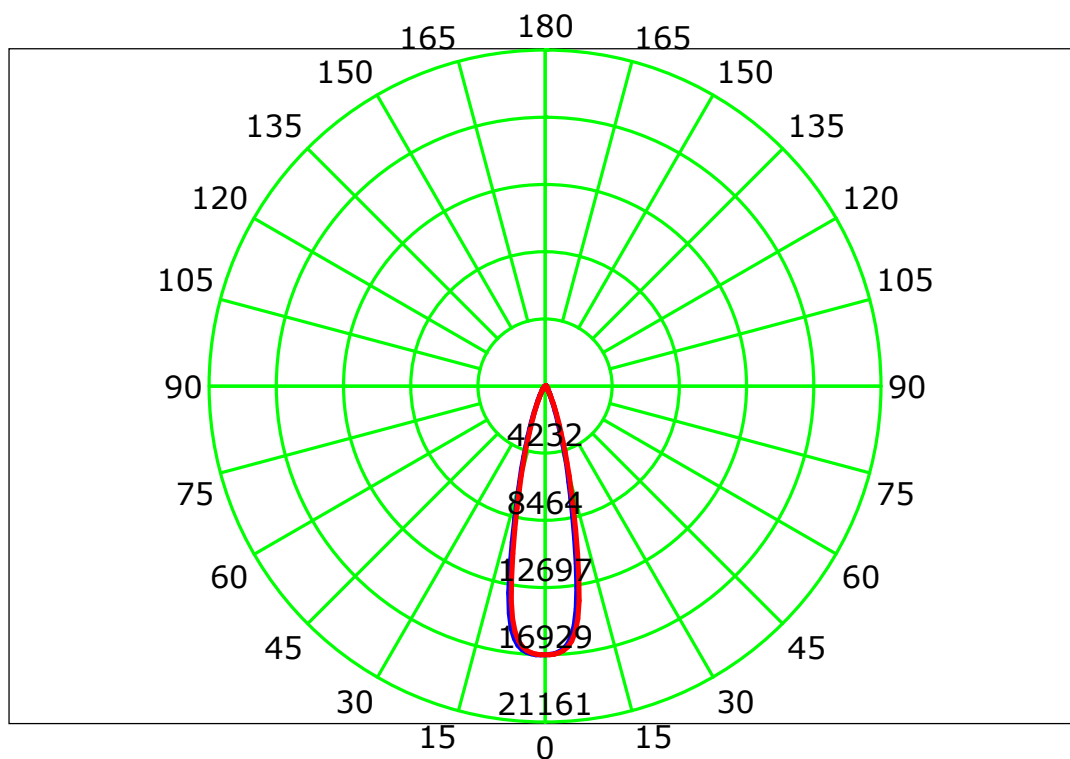
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

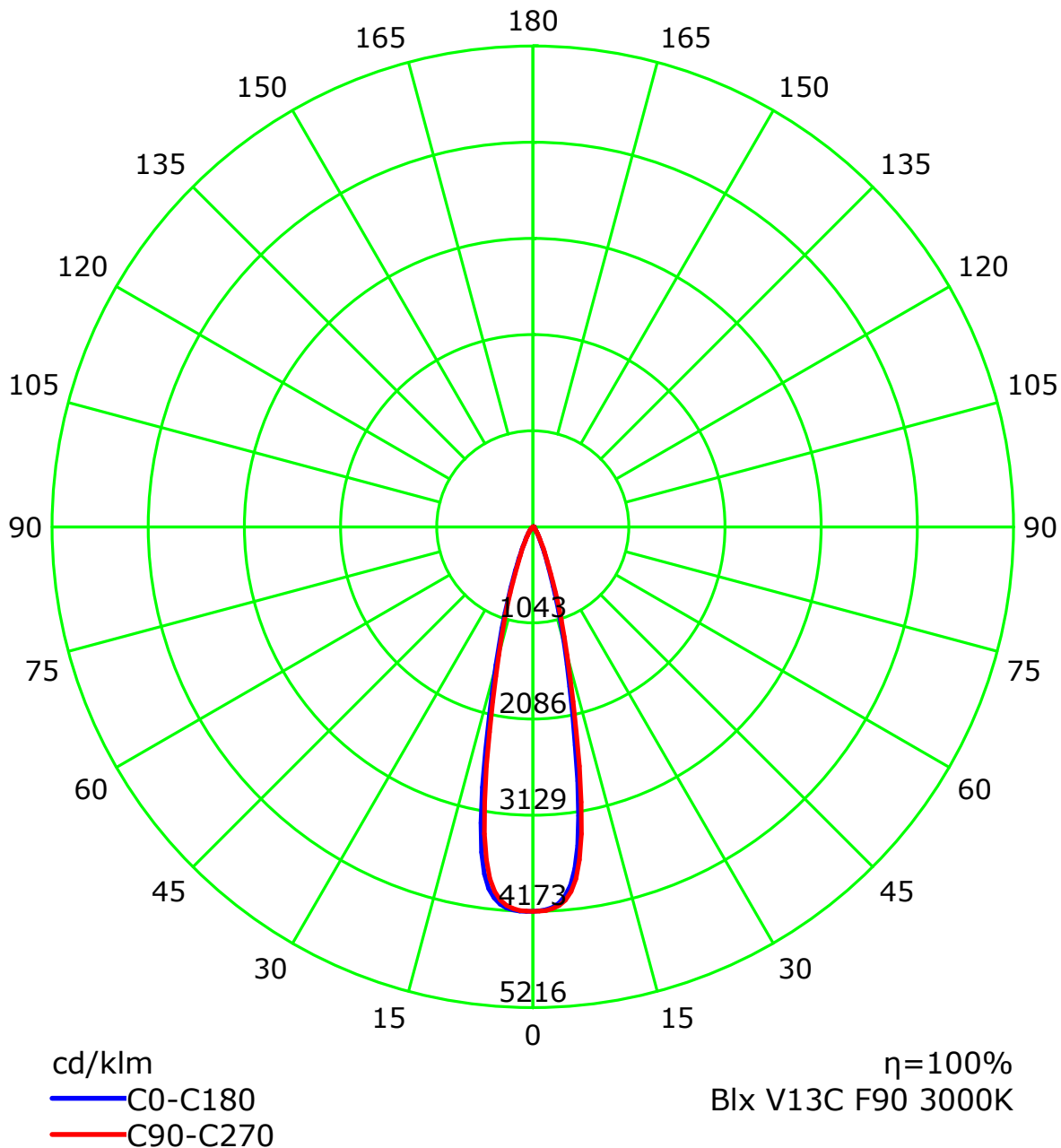
Luminous Intensity Distribution Curve



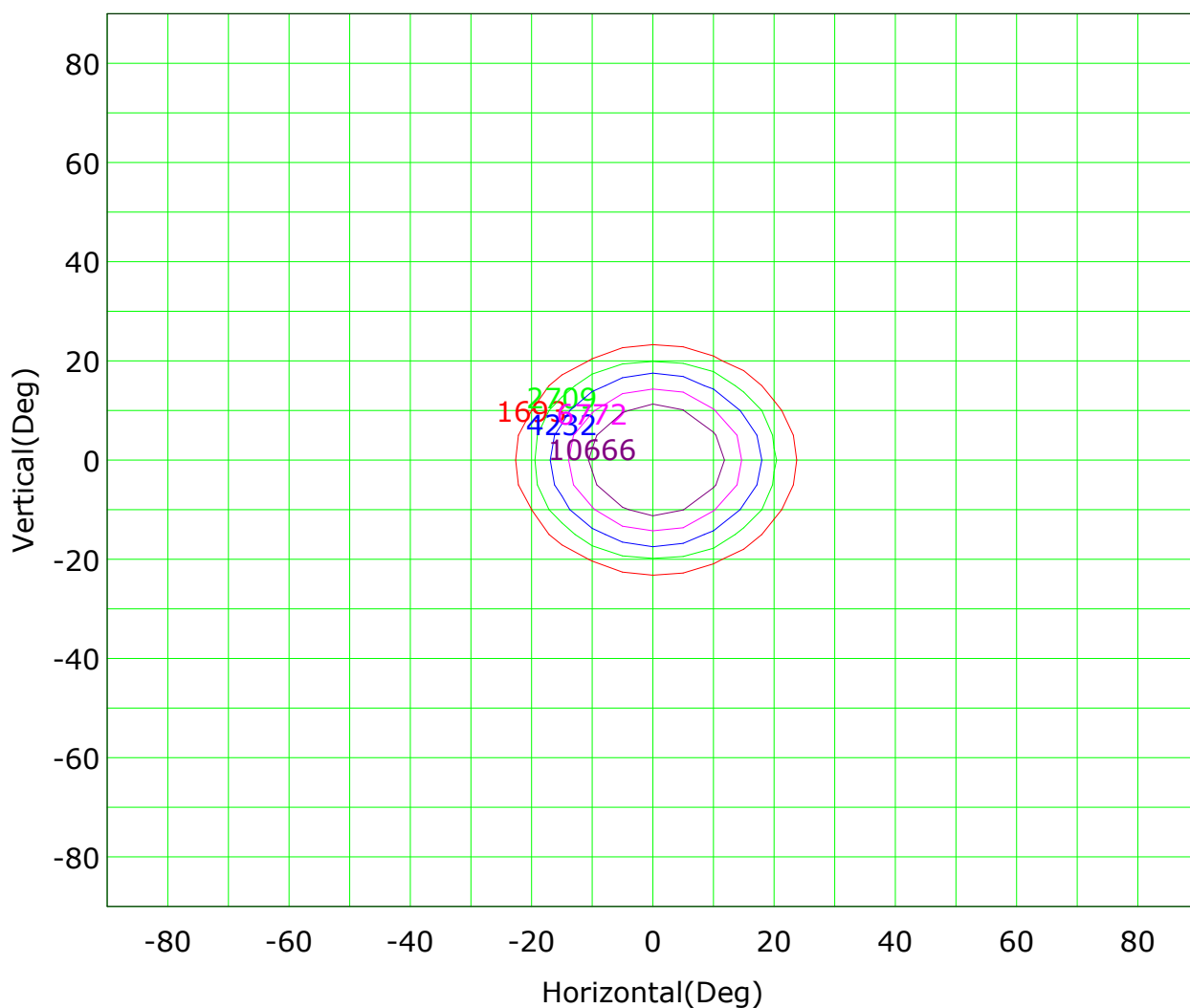
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



Isocandela (rectangle)



Imax (100%): 16929 cd

(10%): 1693 cd	(16%): 2709 cd
(25%): 4232 cd	(40%): 6772 cd
(63%): 10666 cd	(100%): 16929 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

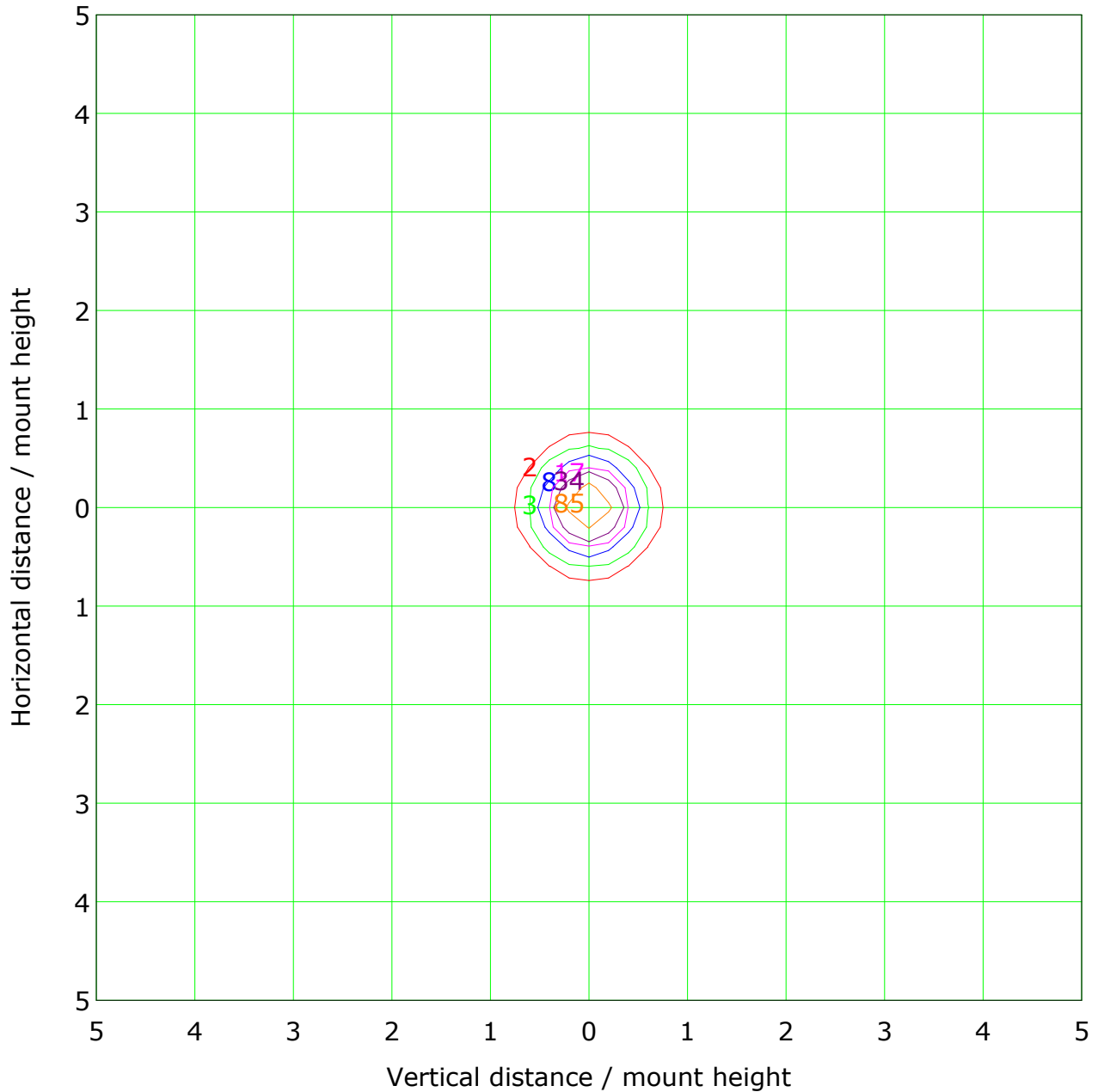
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 169.2 lx

(1%): 1.7 lx	(2%): 3.4 lx
(5%): 8.5 lx	(10%): 16.9 lx
(20%): 33.8 lx	(50%): 84.6 lx
(100%): 169.2 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

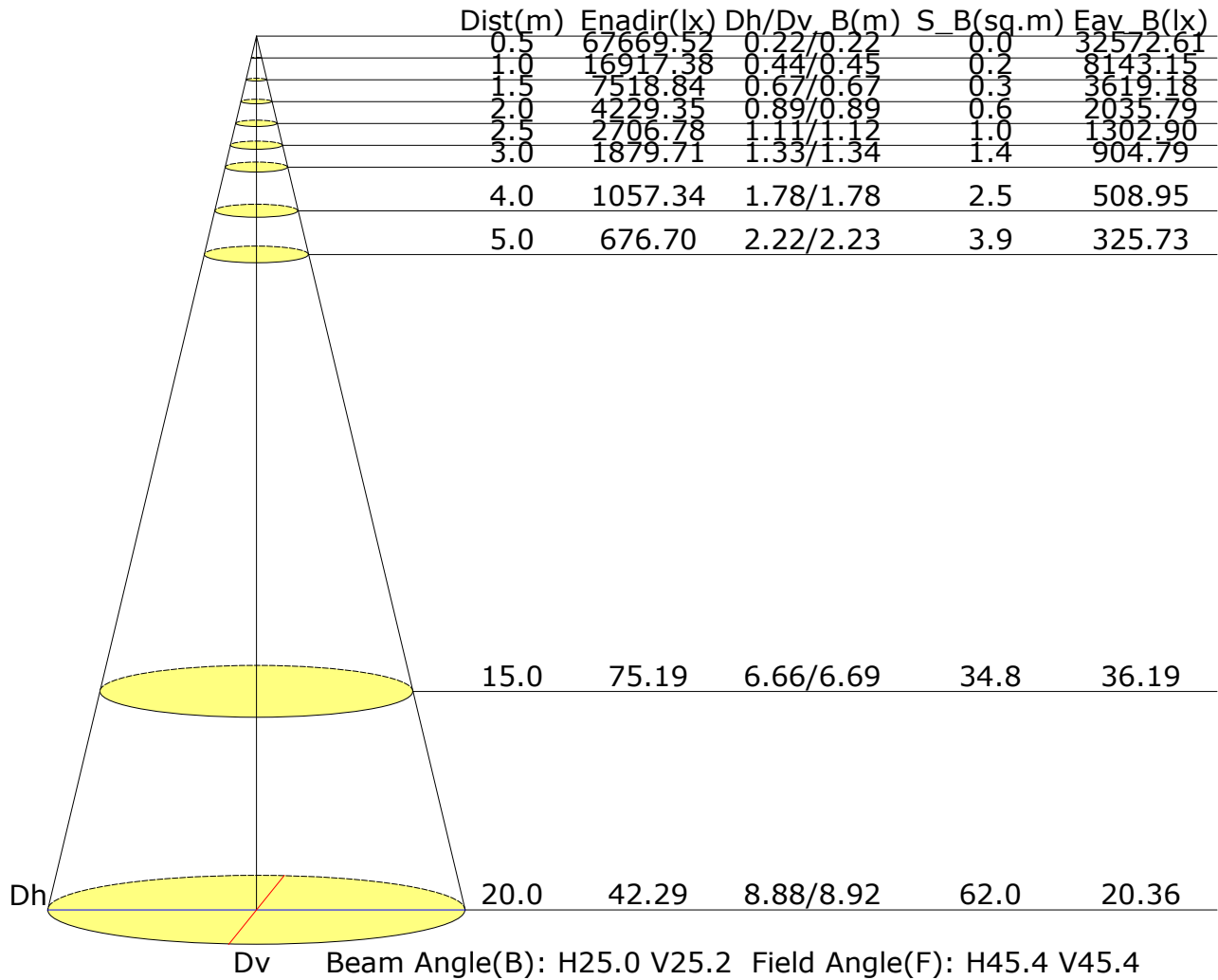
Test Device: CHL-6E

Distance: 3.010 m

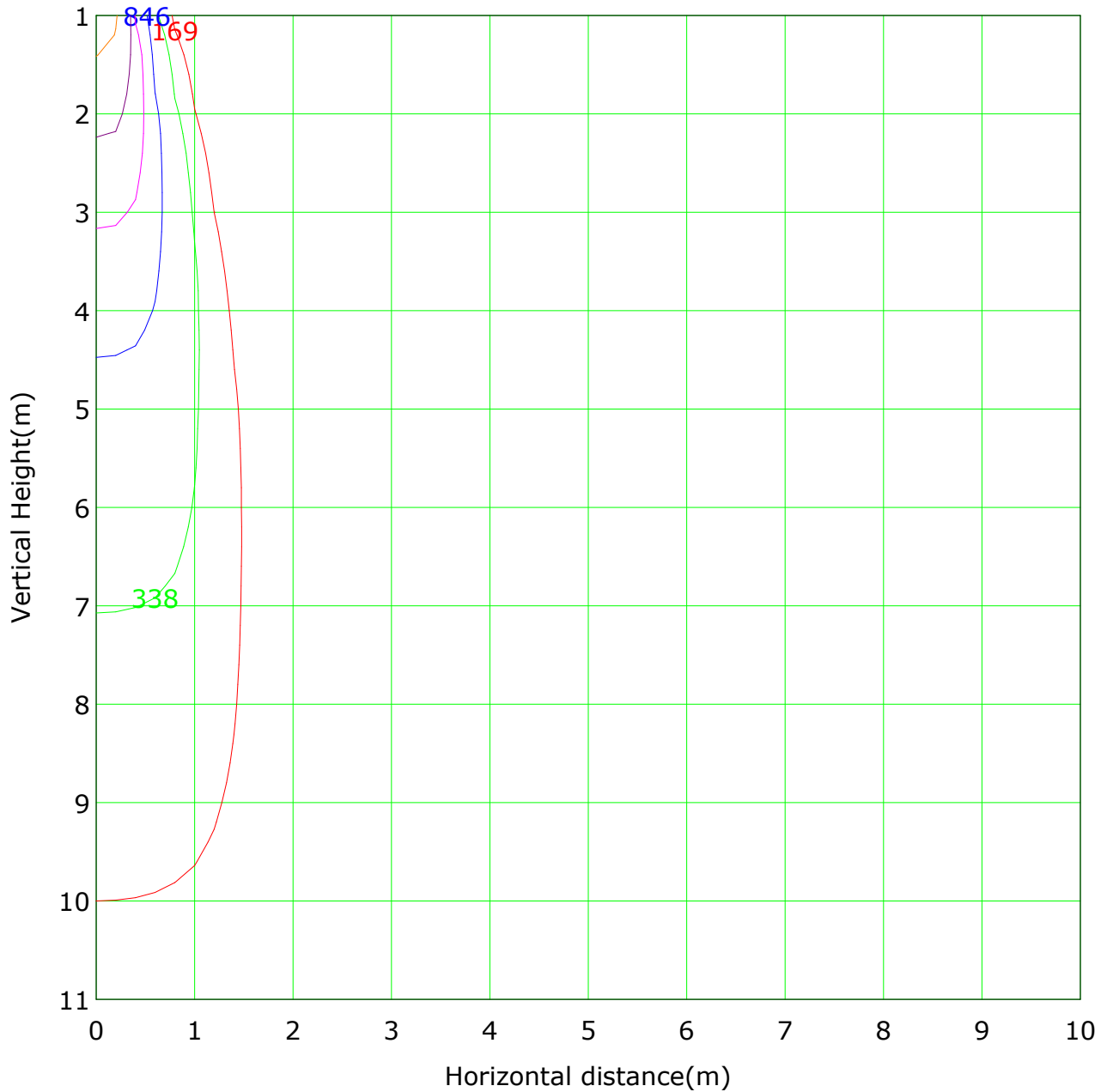
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



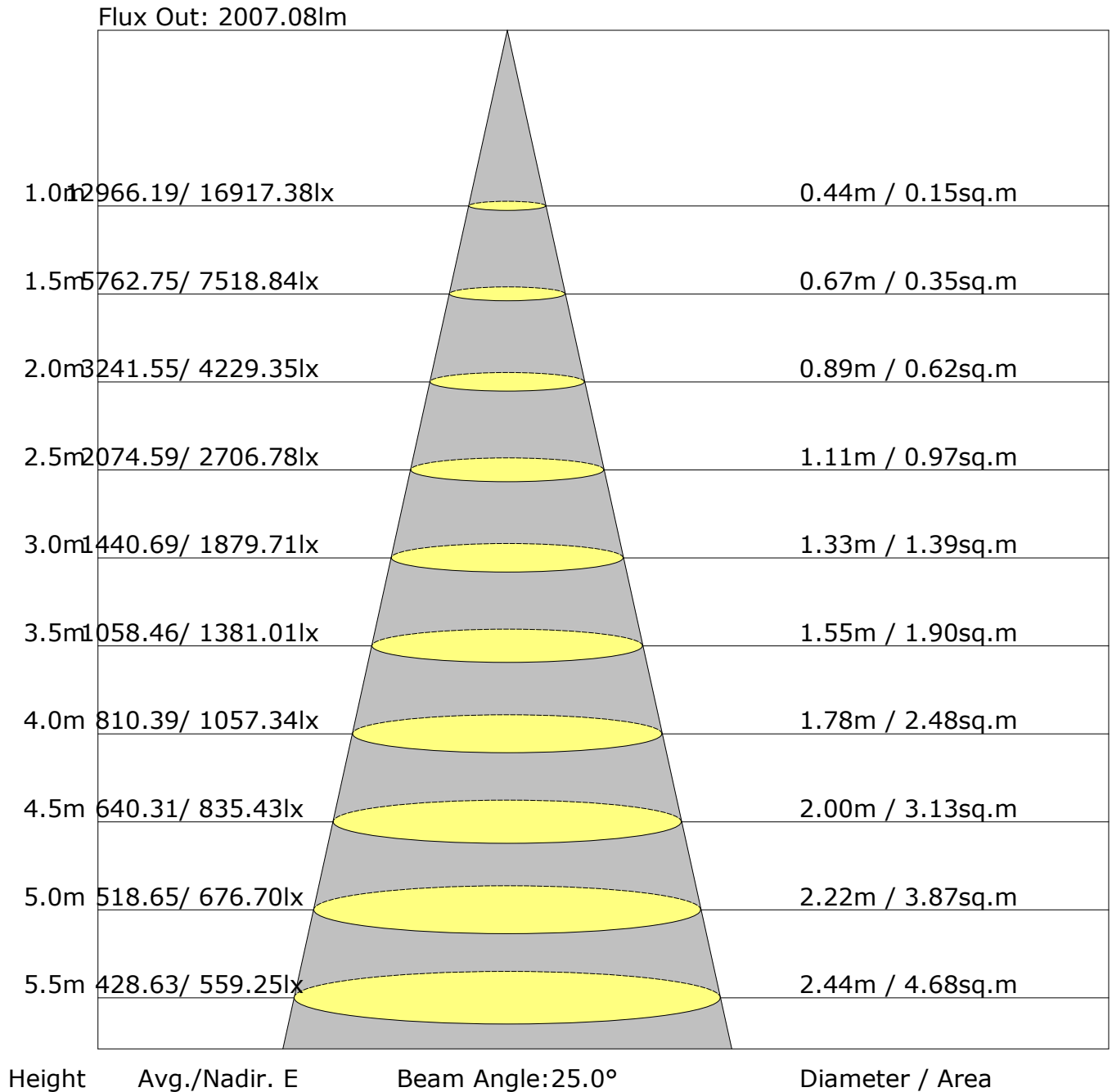
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 16917.4 lx
— (1%): 169.2 lx — (2%): 338.3 lx
— (5%): 845.9 lx — (10%): 1691.7 lx
— (20%): 3383.5 lx — (50%): 8458.7 lx
— (100%): 16917.4 lx

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	14.8	15.5	15.1	15.7	15.8	15.2	15.8	15.4	16.0	16.2
3H	14.7	15.3	15.0	15.5	15.7	15.0	15.6	15.3	15.8	16.0
4H	14.6	15.2	14.9	15.4	15.7	14.9	15.5	15.2	15.7	16.0
6H	14.6	15.1	14.9	15.3	15.6	14.9	15.4	15.2	15.6	15.9
8H	14.5	15.0	14.9	15.3	15.6	14.8	15.3	15.2	15.6	15.9
12H	14.5	14.9	14.8	15.2	15.6	14.8	15.2	15.1	15.5	15.9
X=4H Y=2H	14.7	15.2	15.0	15.4	15.7	15.0	15.5	15.3	15.7	16.0
3H	14.5	15.0	14.8	15.3	15.6	14.8	15.3	15.2	15.6	15.9
4H	14.4	14.8	14.8	15.2	15.5	14.7	15.1	15.1	15.5	15.8
6H	14.3	14.7	14.7	15.1	15.4	14.6	15.0	15.0	15.4	15.7
8H	14.3	14.6	14.7	15.0	15.4	14.6	14.9	15.0	15.3	15.7
12H	14.2	14.5	14.7	14.9	15.4	14.5	14.8	15.0	15.2	15.7
X=8H Y=4H	14.3	14.6	14.7	15.0	15.4	14.6	14.9	15.0	15.3	15.7
6H	14.2	14.4	14.6	14.9	15.3	14.5	14.8	14.9	15.2	15.6
8H	14.1	14.4	14.6	14.8	15.3	14.4	14.7	14.9	15.1	15.6
12H	14.1	14.3	14.6	14.8	15.2	14.4	14.6	14.9	15.1	15.6
X=12H Y=4H	14.2	14.5	14.7	14.9	15.4	14.5	14.8	15.0	15.2	15.7
6H	14.1	14.4	14.6	14.8	15.3	14.4	14.7	14.9	15.1	15.6
8H	14.1	14.3	14.6	14.8	15.2	14.4	14.6	14.9	15.1	15.6
Variations with the observer position at spacings:										
S=1.0H	+3.8/-8.3					+3.9/-8.1				
S=1.5H	+6.5/-43.7					+6.6/-29.2				
S=2.0H	+8.5/-1.\$					+8.6/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 4057lm ($8\log(F/F_0) = 4.9$).

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	1961	48.3
	FL (0°-30°)	1795	44.3
	FM (30°-60°)	166	4.1
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	2095	51.7
	BL (0°-30°)	1916	47.2
	BM (30°-60°)	179	4.4
	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: 3.010 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	16916.6	16.2	16.2	0.40	0.40
1.0-2.0	16904.2	48.5	64.7	1.20	1.60
2.0-3.0	16858.6	80.6	145.4	1.99	3.58
3.0-4.0	16762.9	112.2	257.6	2.77	6.35
4.0-5.0	16594.0	142.8	400.3	3.52	9.87
5.0-6.0	16312.1	171.4	571.8	4.23	14.09
6.0-7.0	15866.9	197.0	768.8	4.86	18.95
7.0-8.0	15196.0	217.5	986.3	5.36	24.31
8.0-9.0	14239.8	230.8	1217.1	5.69	30.00
9.0-10.0	12989.2	235.1	1452.2	5.80	35.80
10.0-11.0	11514.0	230.1	1682.3	5.67	41.47
11.0-12.0	9981.4	218.2	1900.5	5.38	46.85
12.0-13.0	8560.8	203.2	2103.7	5.01	51.86
13.0-14.0	7337.8	187.8	2291.5	4.63	56.49
14.0-15.0	6315.2	173.4	2464.9	4.27	60.76
15.0-16.0	5439.2	159.4	2624.3	3.93	64.69
16.0-17.0	4660.5	145.2	2769.5	3.58	68.27
17.0-18.0	3964.4	130.7	2900.2	3.22	71.49
18.0-19.0	3355.7	116.8	3017.0	2.88	74.37
19.0-20.0	2836.7	103.8	3120.8	2.56	76.93
20.0-21.0	2405.5	92.4	3213.2	2.28	79.20
21.0-22.0	2048.1	82.3	3295.5	2.03	81.23
22.0-23.0	1751.1	73.5	3369.0	1.81	83.05
23.0-24.0	1503.1	65.7	3434.7	1.62	84.67
24.0-25.0	1295.1	58.9	3493.6	1.45	86.12
25.0-26.0	1119.4	52.8	3546.5	1.30	87.42
26.0-27.0	972.1	47.6	3594.0	1.17	88.59
27.0-28.0	847.7	42.9	3637.0	1.06	89.65
28.0-29.0	742.9	38.9	3675.8	0.96	90.61
29.0-30.0	656.2	35.4	3711.3	0.87	91.48
30.0-31.0	583.5	32.5	3743.7	0.80	92.28
31.0-32.0	520.9	29.8	3773.6	0.74	93.02
32.0-33.0	465.1	27.4	3801.0	0.68	93.69
33.0-34.0	415.4	25.1	3826.1	0.62	94.31
34.0-35.0	372.4	23.1	3849.3	0.57	94.88
35.0-36.0	333.2	21.2	3870.5	0.52	95.41

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	297.8	19.4	3889.9	0.48	95.89
37.0-38.0	269.1	18.0	3907.9	0.44	96.33
38.0-39.0	243.9	16.6	3924.5	0.41	96.74
39.0-40.0	219.4	15.3	3939.8	0.38	97.12
40.0-41.0	197.1	14.0	3953.9	0.35	97.46
41.0-42.0	177.9	12.9	3966.8	0.32	97.78
42.0-43.0	160.2	11.9	3978.6	0.29	98.07
43.0-44.0	142.1	10.7	3989.4	0.26	98.34
44.0-45.0	124.4	9.6	3998.9	0.24	98.57
45.0-46.0	108.6	8.5	4007.4	0.21	98.78
46.0-47.0	95.0	7.6	4015.0	0.19	98.97
47.0-48.0	82.9	6.7	4021.7	0.17	99.13
48.0-49.0	71.6	5.9	4027.6	0.14	99.28
49.0-50.0	60.3	5.0	4032.6	0.12	99.40
50.0-51.0	51.3	4.3	4036.9	0.11	99.51
51.0-52.0	44.9	3.8	4040.8	0.09	99.60
52.0-53.0	38.4	3.3	4044.1	0.08	99.69
53.0-54.0	32.4	2.9	4047.0	0.07	99.76
54.0-55.0	26.8	2.4	4049.4	0.06	99.82
55.0-56.0	22.6	2.0	4051.4	0.05	99.87
56.0-57.0	18.1	1.7	4053.1	0.04	99.91
57.0-58.0	13.9	1.3	4054.4	0.03	99.94
58.0-59.0	10.9	1.0	4055.4	0.03	99.96
59.0-60.0	7.2	0.7	4056.1	0.02	99.98
60.0-61.0	4.5	0.4	4056.5	0.01	99.99
61.0-62.0	2.3	0.2	4056.7	0.01	100.00
62.0-63.0	0.8	0.1	4056.8	0.00	100.00
63.0-64.0	0.4	0.0	4056.8	0.00	100.00
64.0-65.0	0.0	0.0	4056.8	0.00	100.00
65.0-66.0	0.0	0.0	4056.8	0.00	100.00
66.0-67.0	0.0	0.0	4056.8	0.00	100.00
67.0-68.0	0.0	0.0	4056.8	0.00	100.00
68.0-69.0	0.0	0.0	4056.8	0.00	100.00
69.0-70.0	0.0	0.0	4056.8	0.00	100.00
70.0-71.0	0.0	0.0	4056.8	0.00	100.00
71.0-72.0	0.0	0.0	4056.8	0.00	100.00

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	16917.4	16917.4								
G1.0	16902.3	16929.4								
G2.0	16861.6	16923.4								
G3.0	16765.1	16884.2								
G4.0	16593.2	16808.8								
G5.0	16306.8	16667.1								
G6.0	15854.5	16419.9								
G7.0	15154.9	16038.4								
G8.0	14162.9	15427.8								
G9.0	12870.8	14497.6								
G10.0	11354.1	13234.2								
G11.0	9784.7	11682.8								
G12.0	8394.6	10063.6								
G13.0	7220.1	8565.0								
G14.0	6240.2	7325.7								
G15.0	5394.4	6300.5								
G16.0	4619.5	5442.6								
G17.0	3909.4	4670.7								
G18.0	3300.3	3977.2								
G19.0	2783.1	3362.1								
G20.0	2356.5	2844.9								
G21.0	2002.2	2418.3								
G22.0	1706.7	2065.5								
G23.0	1459.4	1773.0								
G24.0	1255.9	1524.2								
G25.0	1085.5	1314.7								
G26.0	943.8	1133.8								
G27.0	824.7	986.0								
G28.0	723.7	856.3								
G29.0	639.3	752.3								
G30.0	568.4	664.9								
G31.0	509.6	591.0								
G32.0	456.8	526.2								
G33.0	407.1	470.4								
G34.0	361.8	422.1								
G35.0	324.1	381.4								
G36.0	291.0	336.2								

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: 3.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	262.3	301.5								
G38.0	239.7	272.9								
G39.0	215.6	247.3								
G40.0	193.0	221.6								
G41.0	174.9	199.0								
G42.0	156.8	180.9								
G43.0	141.7	161.3								
G44.0	120.6	144.7								
G45.0	107.0	125.1								
G46.0	92.0	110.1								
G47.0	81.4	96.5								
G48.0	72.4	81.4								
G49.0	58.8	73.9								
G50.0	48.2	60.3								
G51.0	45.2	51.3								
G52.0	37.7	45.2								
G53.0	31.7	39.2								
G54.0	27.1	31.7								
G55.0	22.6	25.6								
G56.0	18.1	24.1								
G57.0	12.1	18.1								
G58.0	10.6	15.1								
G59.0	7.5	10.6								
G60.0	4.5	6.0								
G61.0	3.0	4.5								
G62.0	0.0	1.5								
G63.0	1.5	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:

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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: