

Report No.:

Test Time: 2026-09-30 11:06

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA90-1050MA-36D

Lamp Description: Blx V13C F90 3000K

Luminous Width (mm): -82

Current: 0.185 A

Power Factor: 0.979

Luminous Length (mm): -82

Voltage: 226.7 V

Power: 41.20 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4300.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H43.3

Vertical Diffuse Angle(50%): V43.3

Luminaire Efficacy Rating (LER): 104.44

Max. Intensity: 8453.42 cd

S/MH(C0/C180): 0.72

Total Rated Lamp Lumens: 4300.7 lm

Efficiency: 100%

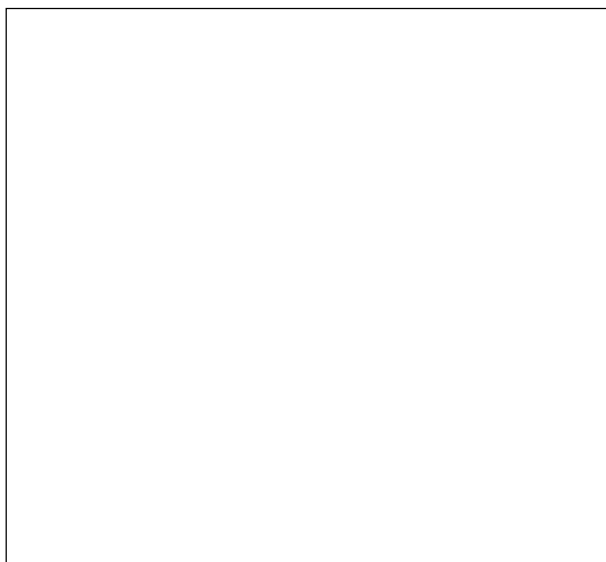
Upward Ratio: 0%

Central Intensity: 8447.38 cd

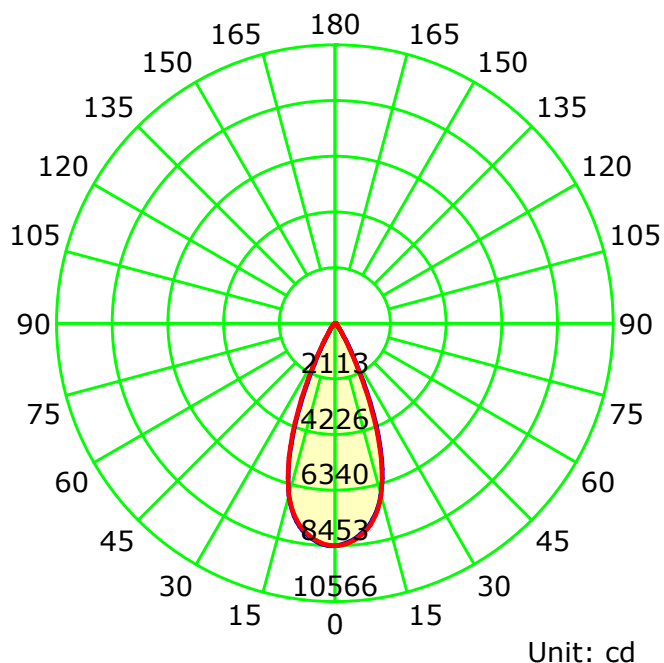
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.72

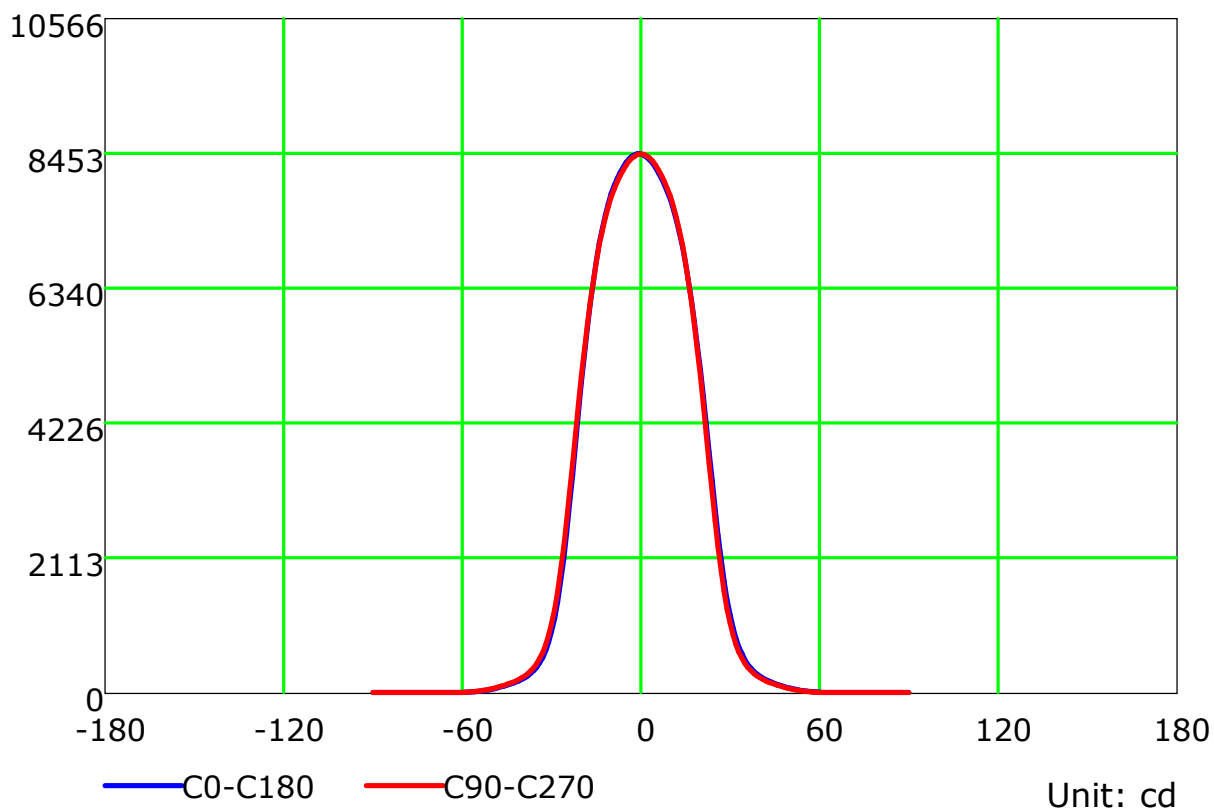
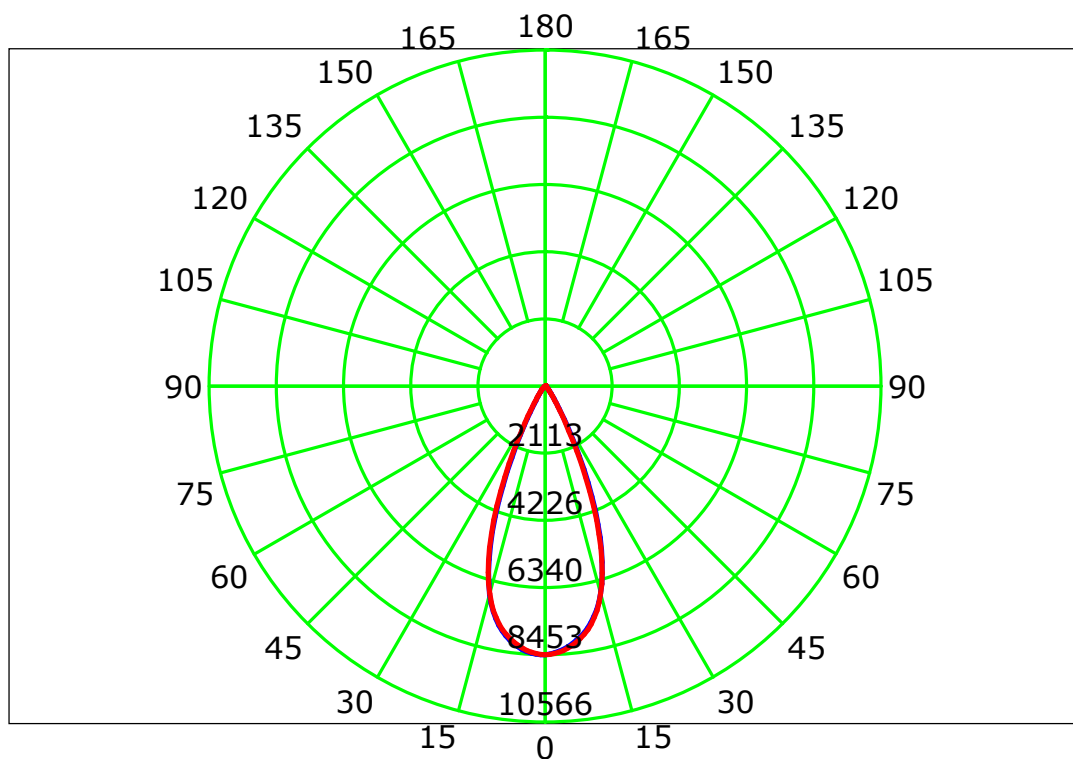
Picture Of Luminaire



Luminous Intensity Distribution Curve



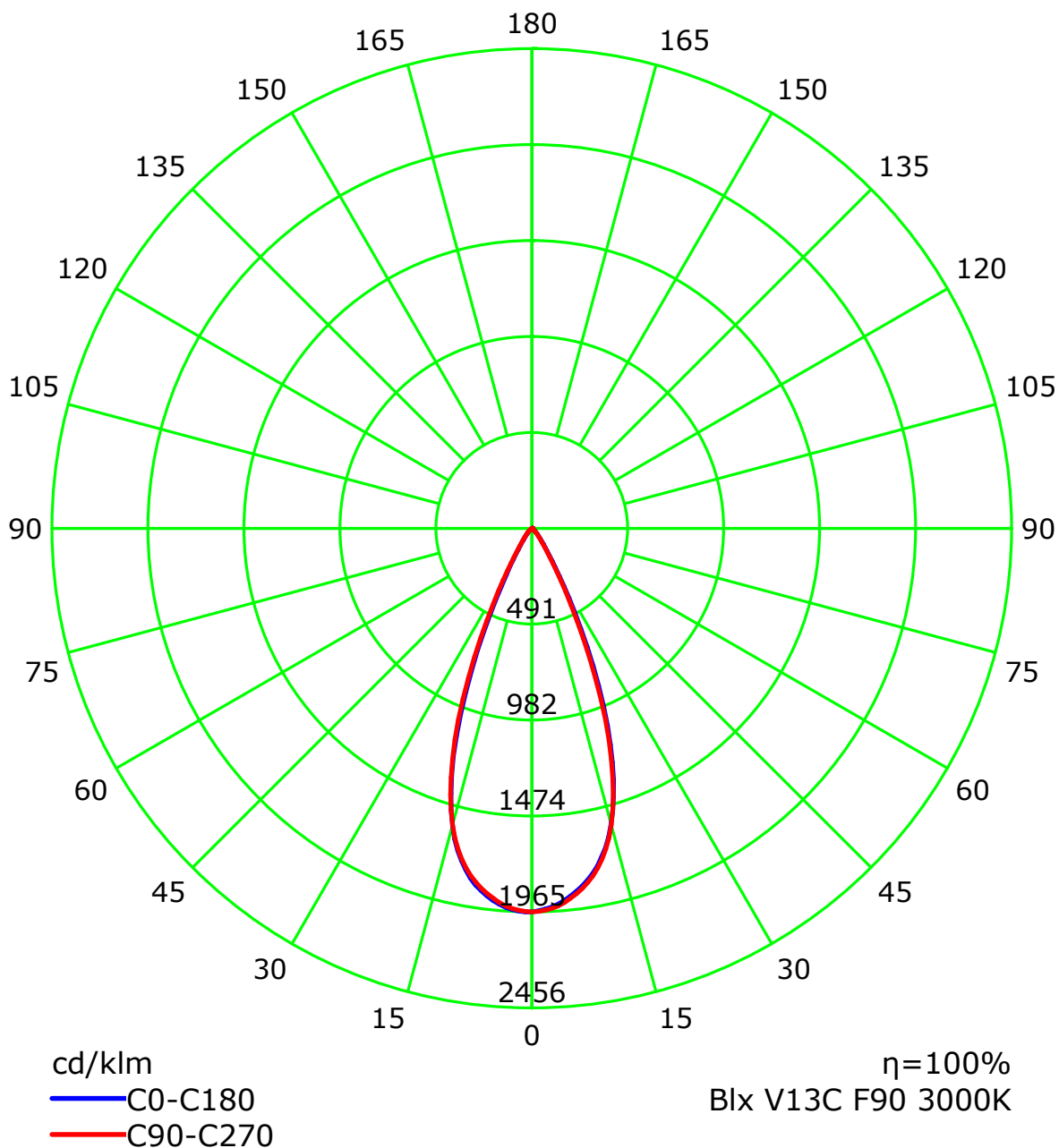
Luminous Intensity Distribution Curve



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:

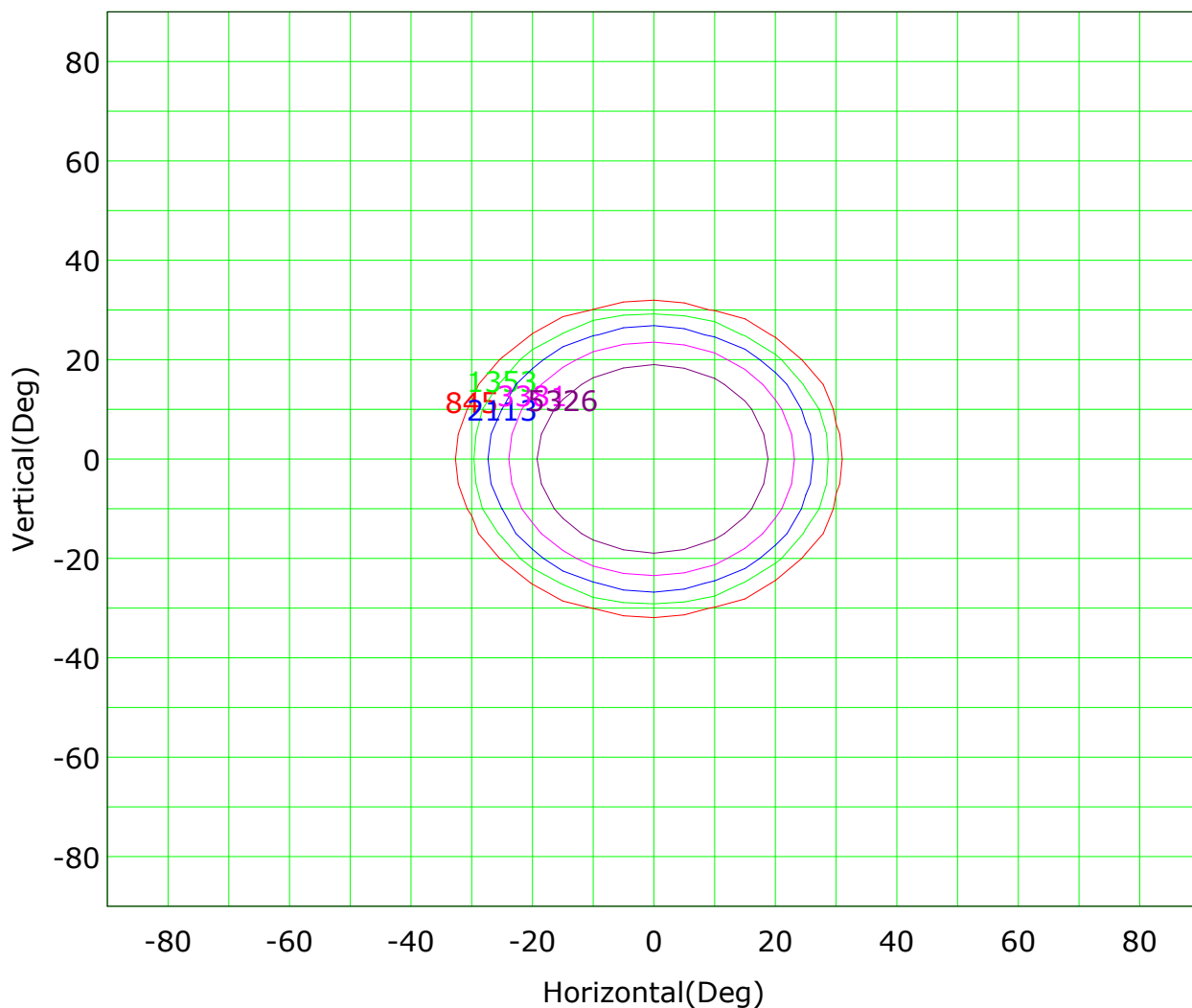
Luminous Intensity Distribution Curve(cd/klm)



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%): 8453 cd

(10%): 845 cd	(16%): 1353 cd
(25%): 2113 cd	(40%): 3381 cd
(63%): 5326 cd	(100%): 8453 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

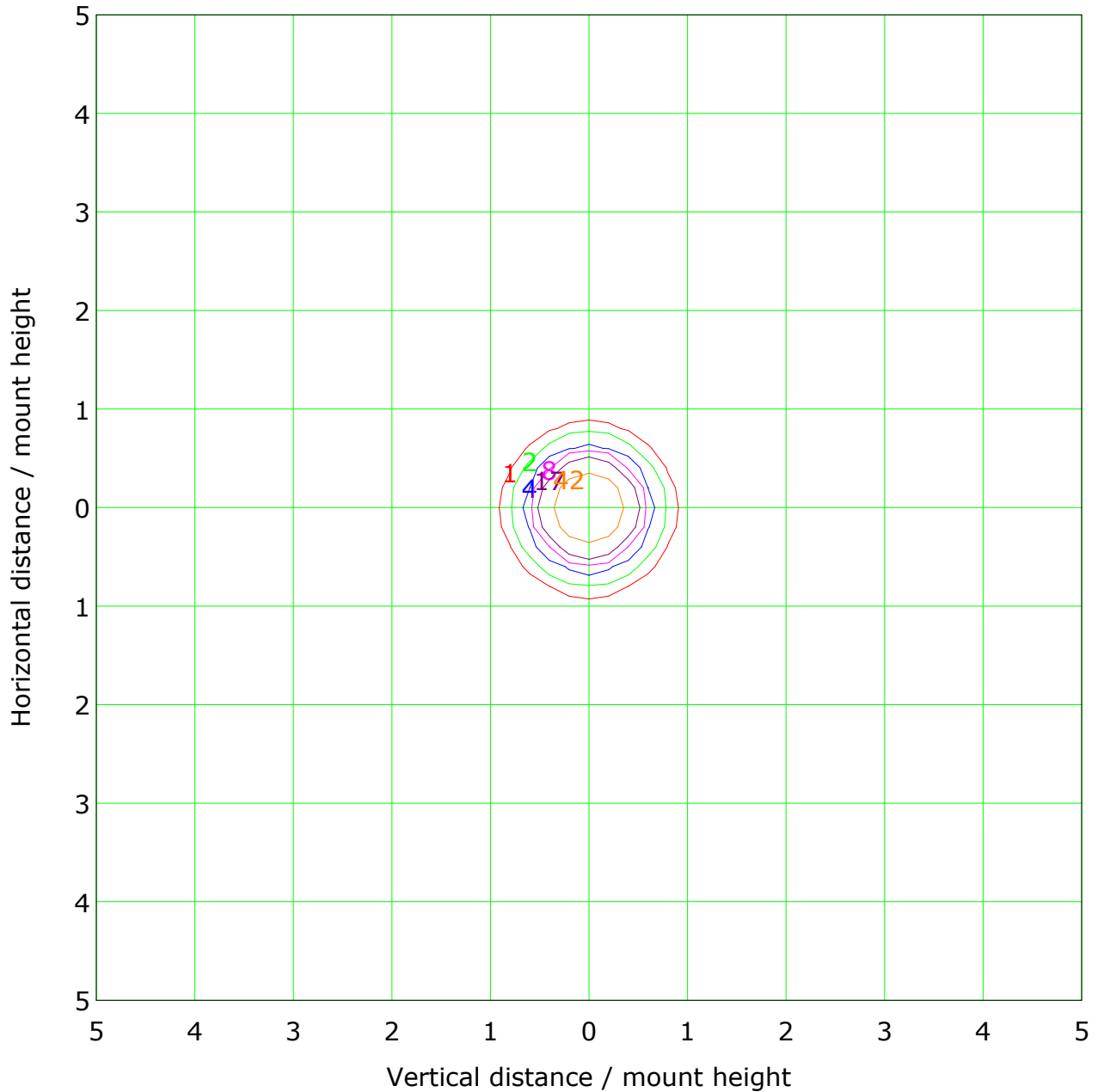
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 84.5 lx

(1%): 0.8 lx	(2%): 1.7 lx
(5%): 4.2 lx	(10%): 8.4 lx
(20%): 16.9 lx	(50%): 42.2 lx
(100%): 84.5 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

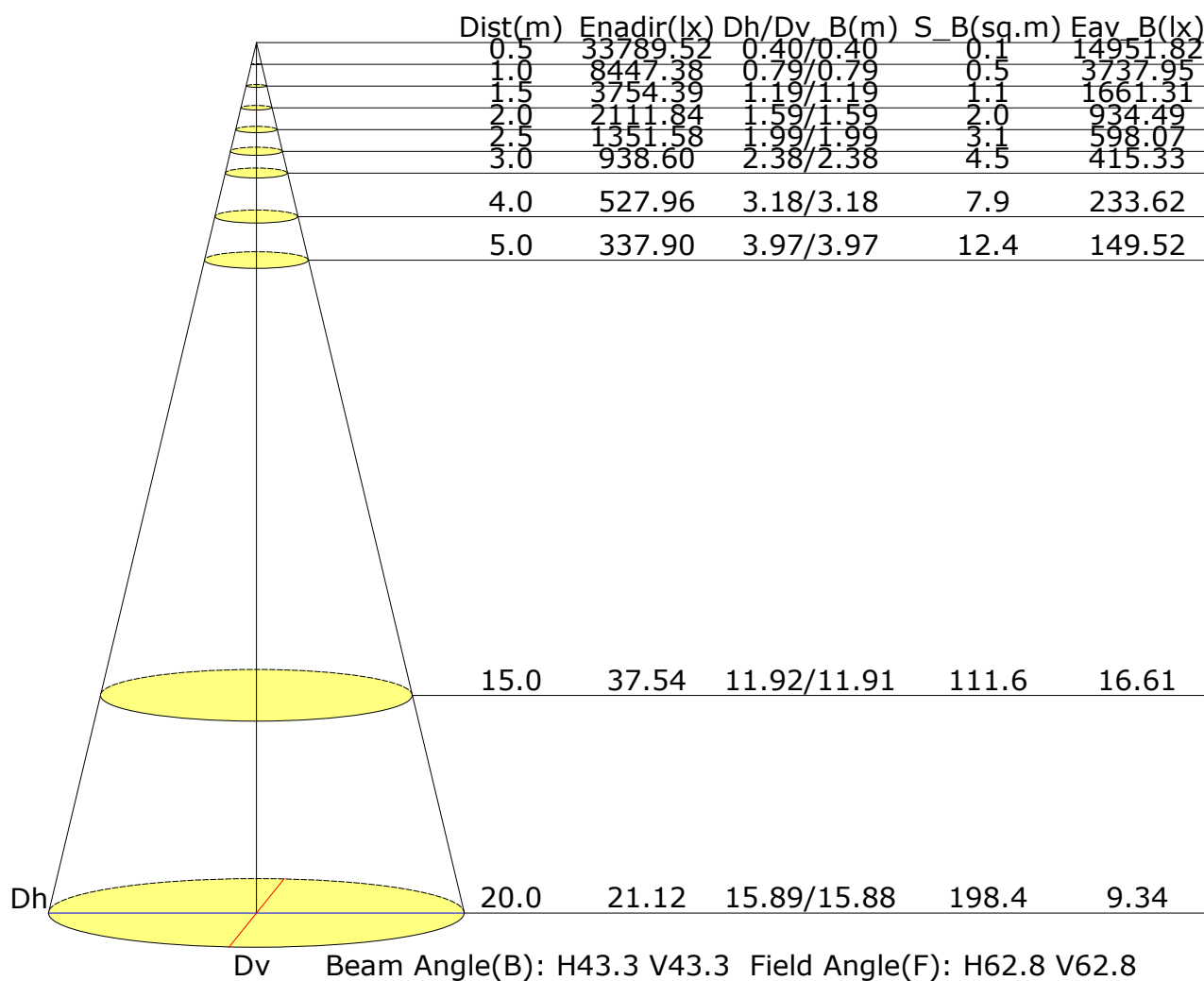
Test Device: CHL-6E

Distance: 3.010 m

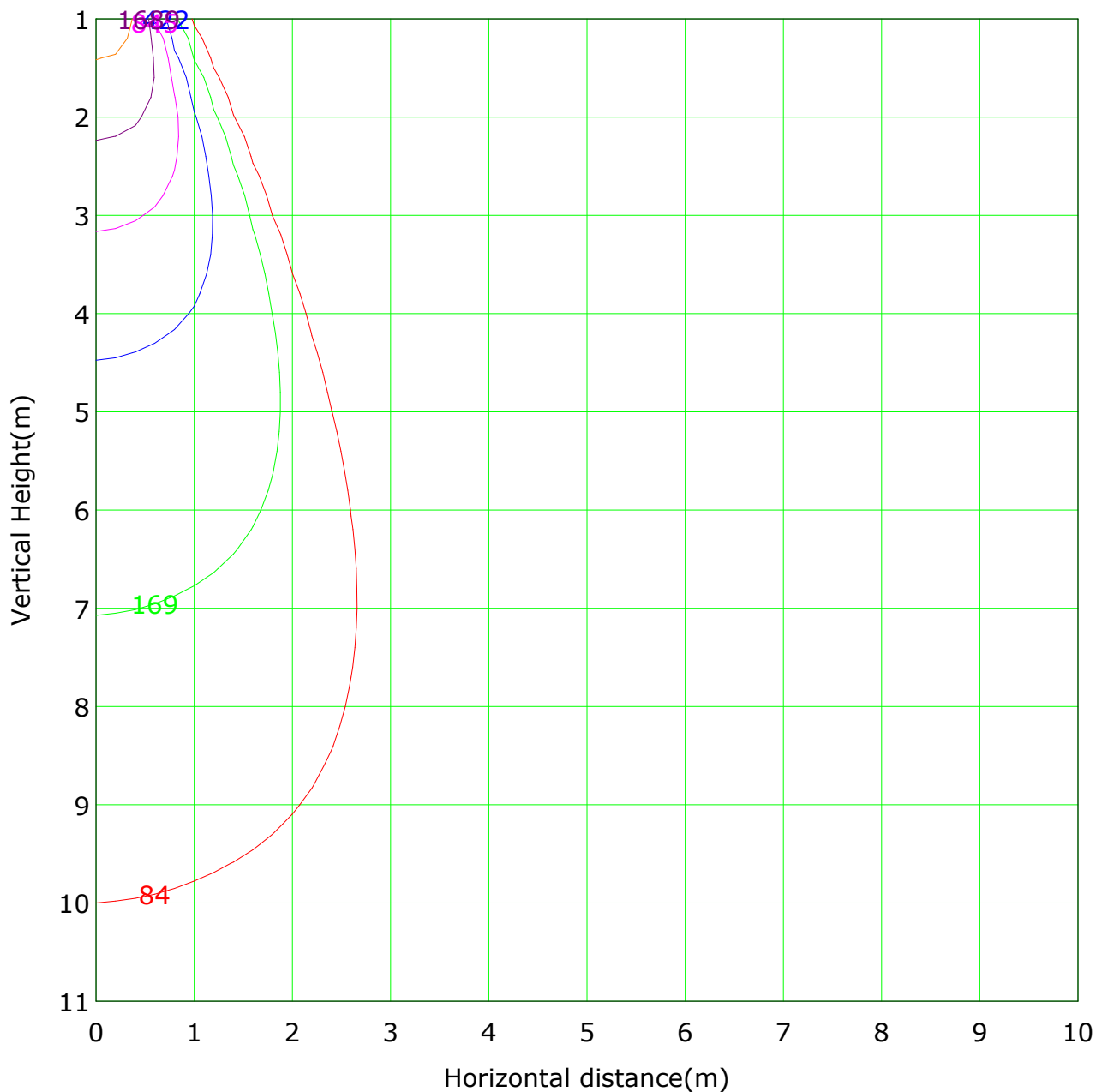
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



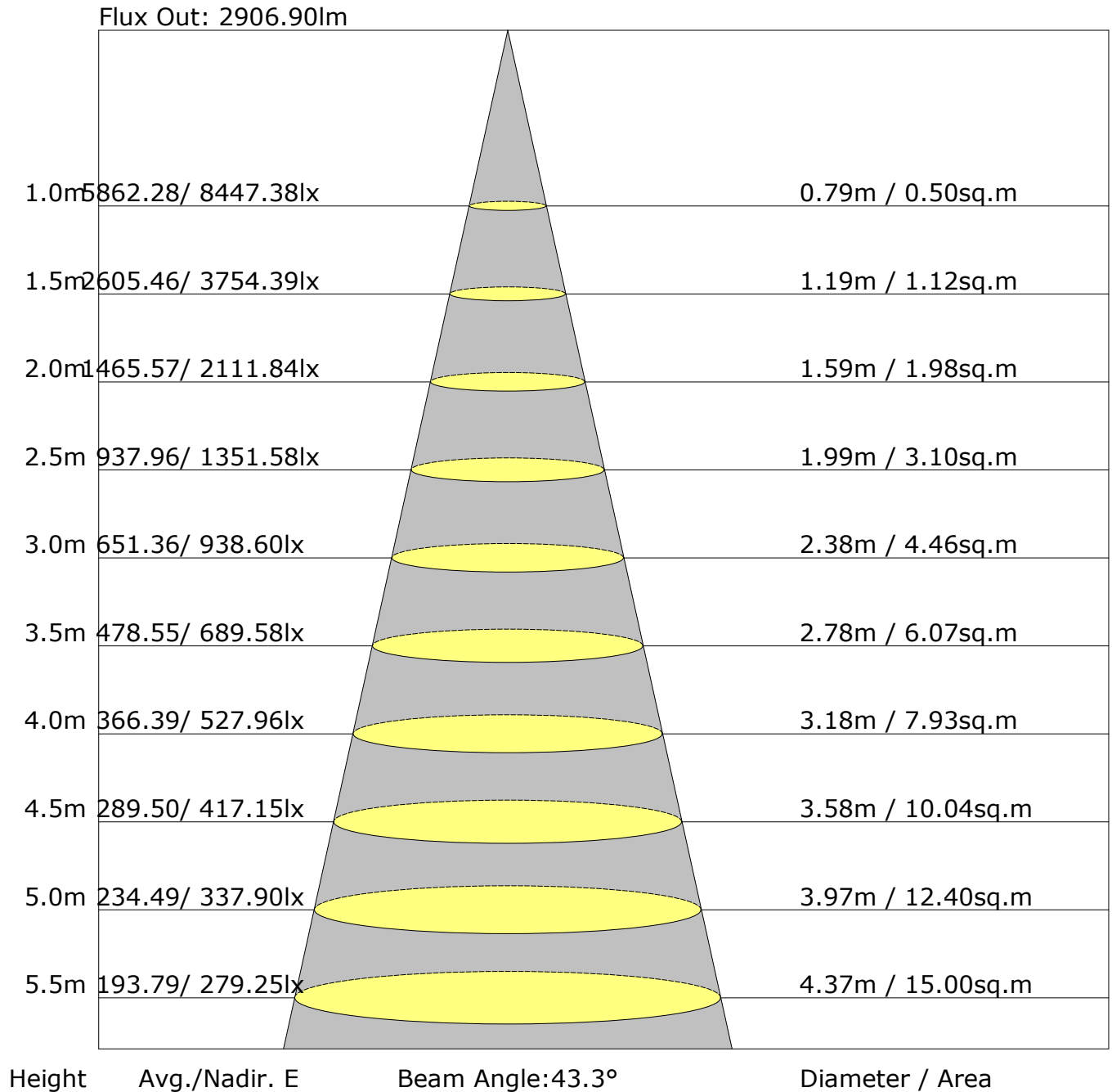
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 8447.4 lx
— (1%): 84.5 lx — (2%): 168.9 lx
— (5%): 422.4 lx — (10%): 844.7 lx
— (20%): 1689.5 lx — (50%): 4223.7 lx
— (100%): 8447.4 lx

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



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	17.4	18.2	17.7	18.4	18.5	16.9	17.7	17.2	17.9	18.1
3H	17.3	17.9	17.6	18.2	18.4	16.8	17.5	17.1	17.7	17.9
4H	17.2	17.8	17.5	18.1	18.4	16.7	17.3	17.0	17.6	17.9
6H	17.1	17.7	17.5	18.0	18.3	16.7	17.2	17.0	17.5	17.8
8H	17.1	17.7	17.4	17.9	18.2	16.6	17.2	17.0	17.5	17.8
12H	17.1	17.6	17.4	17.9	18.2	16.6	17.1	16.9	17.4	17.7
X=4H Y=2H	17.2	17.8	17.5	18.1	18.4	16.7	17.4	17.1	17.6	17.9
3H	17.1	17.6	17.4	17.9	18.2	16.6	17.1	16.9	17.4	17.7
4H	17.0	17.5	17.4	17.8	18.1	16.5	17.0	16.9	17.3	17.7
6H	16.9	17.3	17.3	17.7	18.1	16.4	16.8	16.8	17.2	17.6
8H	16.9	17.2	17.3	17.6	18.0	16.4	16.8	16.8	17.1	17.5
12H	16.8	17.2	17.3	17.6	18.0	16.3	16.7	16.8	17.1	17.5
X=8H Y=4H	16.9	17.2	17.3	17.6	18.0	16.4	16.8	16.8	17.1	17.5
6H	16.8	17.1	17.2	17.5	17.9	16.3	16.6	16.7	17.0	17.5
8H	16.7	17.0	17.2	17.4	17.9	16.2	16.5	16.7	16.9	17.4
12H	16.7	16.9	17.2	17.4	17.9	16.2	16.4	16.7	16.9	17.4
X=12H Y=4H	16.8	17.2	17.3	17.6	18.0	16.3	16.7	16.8	17.1	17.5
6H	16.7	17.0	17.2	17.4	17.9	16.2	16.5	16.7	16.9	17.4
8H	16.7	16.9	17.2	17.4	17.9	16.2	16.4	16.7	16.9	17.4
Variations with the observer position at spacings:										
S=1.0H	+4.9/-9.7					+4.8/-10.1				
S=1.5H	+7.7/-1.\$					+7.5/-1.\$				
S=2.0H	+9.7/-1.\$					+9.5/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 4301lm ($8\log(F/F_0) = 5.1$).

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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	2183	50.8
	FL (0°-30°)	1945	45.2
	FM (30°-60°)	237	5.5
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	2118	49.2
	BL (0°-30°)	1908	44.4
	BM (30°-60°)	210	4.9
	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 [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	8443.6	8.1	8.1	0.19	0.19
1.0-2.0	8428.2	24.2	32.3	0.56	0.75
2.0-3.0	8400.3	40.2	72.5	0.93	1.68
3.0-4.0	8359.6	56.0	128.4	1.30	2.99
4.0-5.0	8303.8	71.4	199.9	1.66	4.65
5.0-6.0	8233.7	86.5	286.4	2.01	6.66
6.0-7.0	8150.8	101.2	387.6	2.35	9.01
7.0-8.0	8058.4	115.3	502.9	2.68	11.69
8.0-9.0	7955.5	129.0	631.9	3.00	14.69
9.0-10.0	7836.8	141.8	773.7	3.30	17.99
10.0-11.0	7695.4	153.8	927.5	3.58	21.57
11.0-12.0	7531.5	164.7	1092.2	3.83	25.39
12.0-13.0	7347.5	174.4	1266.6	4.05	29.45
13.0-14.0	7136.9	182.7	1449.3	4.25	33.70
14.0-15.0	6891.9	189.2	1638.5	4.40	38.10
15.0-16.0	6612.2	193.8	1832.3	4.51	42.60
16.0-17.0	6297.8	196.1	2028.4	4.56	47.16
17.0-18.0	5953.0	196.3	2224.7	4.56	51.73
18.0-19.0	5578.7	194.1	2418.8	4.51	56.24
19.0-20.0	5174.6	189.4	2608.3	4.40	60.65
20.0-21.0	4745.7	182.3	2790.5	4.24	64.88
21.0-22.0	4294.6	172.6	2963.1	4.01	68.90
22.0-23.0	3830.2	160.7	3123.8	3.74	72.64
23.0-24.0	3366.6	147.2	3271.1	3.42	76.06
24.0-25.0	2913.9	132.5	3403.6	3.08	79.14
25.0-26.0	2485.7	117.4	3520.9	2.73	81.87
26.0-27.0	2094.9	102.5	3623.4	2.38	84.25
27.0-28.0	1747.7	88.5	3711.9	2.06	86.31
28.0-29.0	1450.4	75.9	3787.8	1.76	88.07
29.0-30.0	1202.0	64.9	3852.7	1.51	89.58
30.0-31.0	996.9	55.5	3908.2	1.29	90.87
31.0-32.0	830.7	47.6	3955.8	1.11	91.98
32.0-33.0	695.8	41.0	3996.8	0.95	92.93
33.0-34.0	586.9	35.5	4032.3	0.83	93.76
34.0-35.0	498.3	30.9	4063.3	0.72	94.48
35.0-36.0	426.3	27.1	4090.4	0.63	95.11

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Test Lab:
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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	369.4	24.1	4114.5	0.56	95.67
37.0-38.0	321.1	21.4	4136.0	0.50	96.17
38.0-39.0	281.6	19.2	4155.2	0.45	96.62
39.0-40.0	248.8	17.4	4172.5	0.40	97.02
40.0-41.0	220.1	15.7	4188.2	0.36	97.38
41.0-42.0	196.0	14.2	4202.4	0.33	97.71
42.0-43.0	174.5	12.9	4215.4	0.30	98.02
43.0-44.0	156.0	11.8	4227.2	0.27	98.29
44.0-45.0	139.5	10.7	4237.9	0.25	98.54
45.0-46.0	123.2	9.6	4247.5	0.22	98.76
46.0-47.0	109.3	8.7	4256.2	0.20	98.96
47.0-48.0	95.0	7.7	4263.9	0.18	99.14
48.0-49.0	80.7	6.6	4270.5	0.15	99.30
49.0-50.0	69.0	5.8	4276.3	0.13	99.43
50.0-51.0	58.0	4.9	4281.2	0.11	99.55
51.0-52.0	48.6	4.2	4285.3	0.10	99.64
52.0-53.0	40.3	3.5	4288.9	0.08	99.72
53.0-54.0	32.8	2.9	4291.7	0.07	99.79
54.0-55.0	26.8	2.4	4294.1	0.06	99.85
55.0-56.0	21.1	1.9	4296.0	0.04	99.89
56.0-57.0	16.2	1.5	4297.5	0.03	99.93
57.0-58.0	12.1	1.1	4298.6	0.03	99.95
58.0-59.0	9.4	0.9	4299.5	0.02	99.97
59.0-60.0	6.8	0.6	4300.2	0.01	99.99
60.0-61.0	3.4	0.3	4300.5	0.01	99.99
61.0-62.0	1.9	0.2	4300.7	0.00	100.00
62.0-63.0	0.8	0.1	4300.7	0.00	100.00
63.0-64.0	0.0	0.0	4300.7	0.00	100.00
64.0-65.0	0.0	0.0	4300.7	0.00	100.00
65.0-66.0	0.0	0.0	4300.7	0.00	100.00
66.0-67.0	0.0	0.0	4300.7	0.00	100.00
67.0-68.0	0.0	0.0	4300.7	0.00	100.00
68.0-69.0	0.0	0.0	4300.7	0.00	100.00
69.0-70.0	0.0	0.0	4300.7	0.00	100.00
70.0-71.0	0.0	0.0	4300.7	0.00	100.00
71.0-72.0	0.0	0.0	4300.7	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
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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	8447.4	8447.4								
G1.0	8426.3	8453.4								
G2.0	8394.6	8438.3								
G3.0	8353.9	8414.2								
G4.0	8298.1	8372.0								
G5.0	8230.3	8314.7								
G6.0	8147.4	8242.3								
G7.0	8058.4	8154.9								
G8.0	7958.9	8061.4								
G9.0	7848.9	7952.9								
G10.0	7722.2	7823.2								
G11.0	7571.4	7664.9								
G12.0	7402.6	7487.0								
G13.0	7214.1	7286.5								
G14.0	6997.0	7049.8								
G15.0	6748.3	6772.4								
G16.0	6472.4	6455.8								
G17.0	6157.3	6106.0								
G18.0	5822.6	5726.1								
G19.0	5456.2	5310.0								
G20.0	5068.7	4863.7								
G21.0	4657.1	4393.3								
G22.0	4224.5	3903.3								
G23.0	3775.2	3417.9								
G24.0	3325.9	2947.5								
G25.0	2884.1	2498.2								
G26.0	2468.0	2092.6								
G27.0	2086.6	1732.3								
G28.0	1748.9	1423.2								
G29.0	1459.4	1169.9								
G30.0	1218.2	960.4								
G31.0	1014.7	794.5								
G32.0	853.3	660.3								
G33.0	716.1	553.3								
G34.0	607.6	470.4								
G35.0	515.6	399.5								
G36.0	441.7	348.3								

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	384.5	303.0								
G38.0	333.2	263.8								
G39.0	294.0	235.2								
G40.0	259.3	206.6								
G41.0	229.2	185.4								
G42.0	203.5	165.8								
G43.0	180.9	147.8								
G44.0	162.8	132.7								
G45.0	143.2	119.1								
G46.0	128.1	102.5								
G47.0	114.6	92.0								
G48.0	98.0	75.4								
G49.0	84.4	64.8								
G50.0	72.4	54.3								
G51.0	61.8	43.7								
G52.0	52.8	36.2								
G53.0	43.7	28.6								
G54.0	34.7	24.1								
G55.0	28.6	19.6								
G56.0	22.6	13.6								
G57.0	18.1	10.6								
G58.0	12.1	7.5								
G59.0	10.6	7.5								
G60.0	7.5	1.5								
G61.0	4.5	0.0								
G62.0	3.0	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:

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Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Unit: cd

Inspector: