

Report No.:

Test Time: 2026-09-30 17:28

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA90-1050MA-36D

Lamp Description: BLX V13C F90 3000K

Luminous Width (mm): -40

Current: 0.185 A

Power Factor: 0.980

Luminous Length (mm): -40

Voltage: 226.1 V

Power: 41.20 W

Photometric Results

CIE Class: Direct

Measurement Flux: 4047.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H40.8

Vertical Diffuse Angle(50%): V40.8

Luminaire Efficacy Rating (LER): 98.30

Max. Intensity: 7942.32 cd

S/MH(C0/C180): 0.68

Total Rated Lamp Lumens: 4047.7 lm

Efficiency: 100%

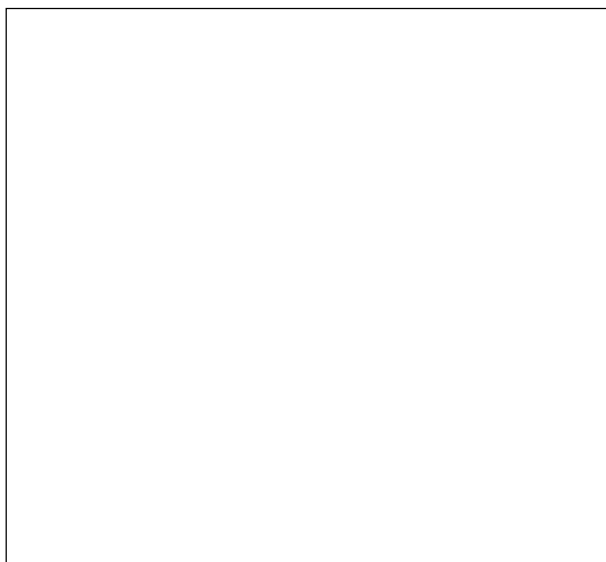
Upward Ratio: 0%

Central Intensity: 7940.81 cd

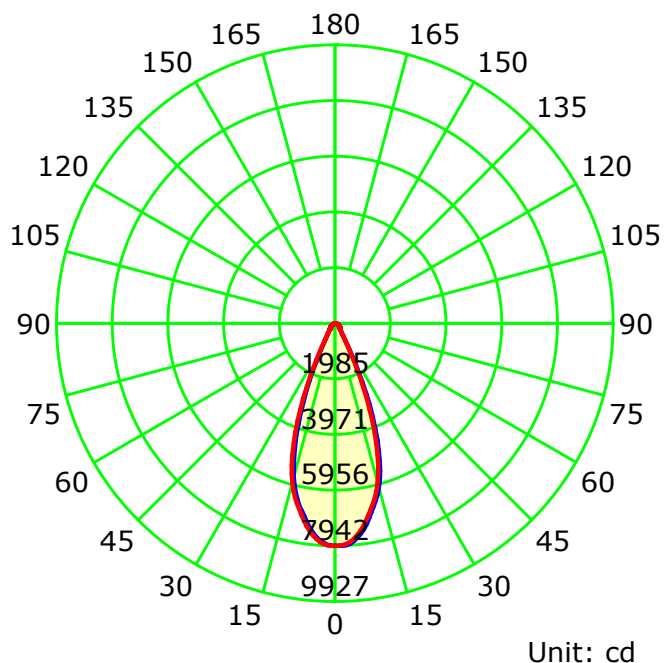
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.68

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

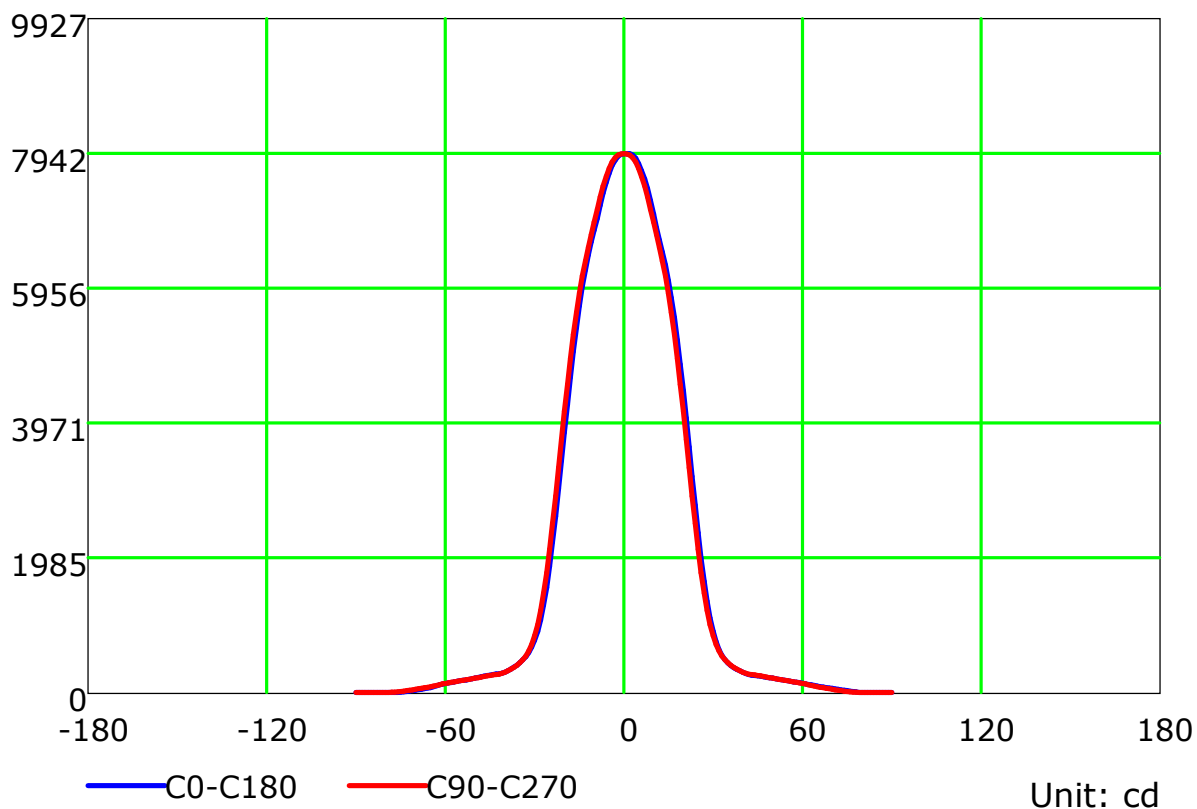
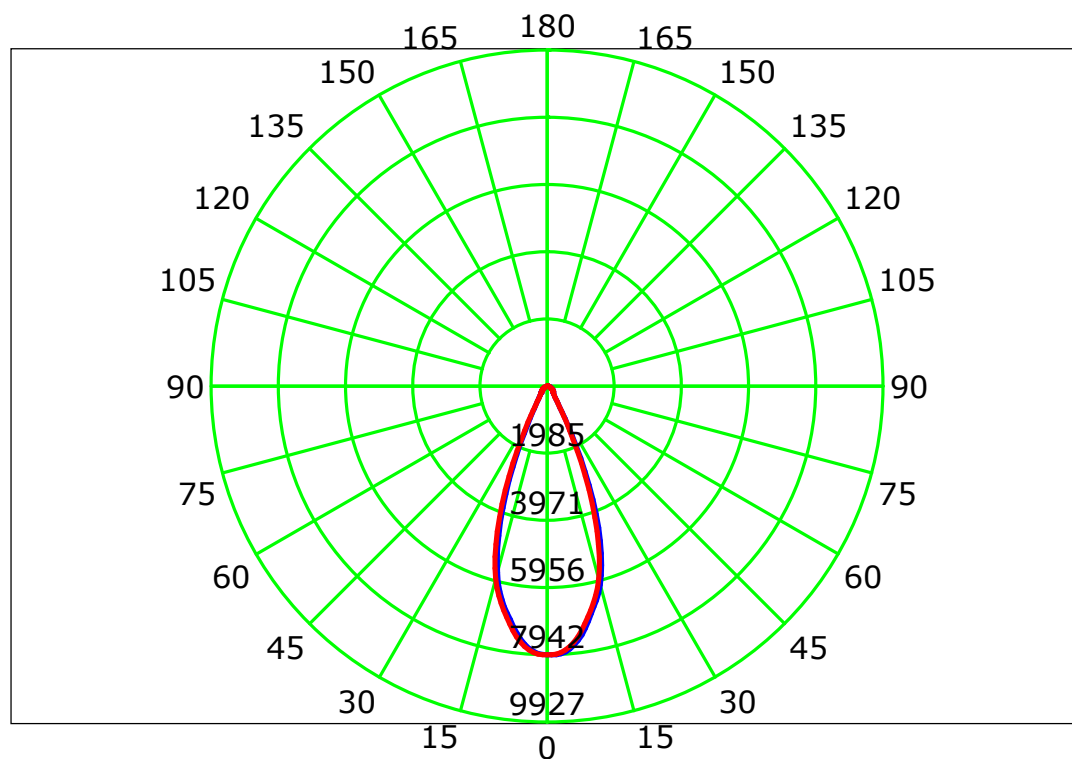
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

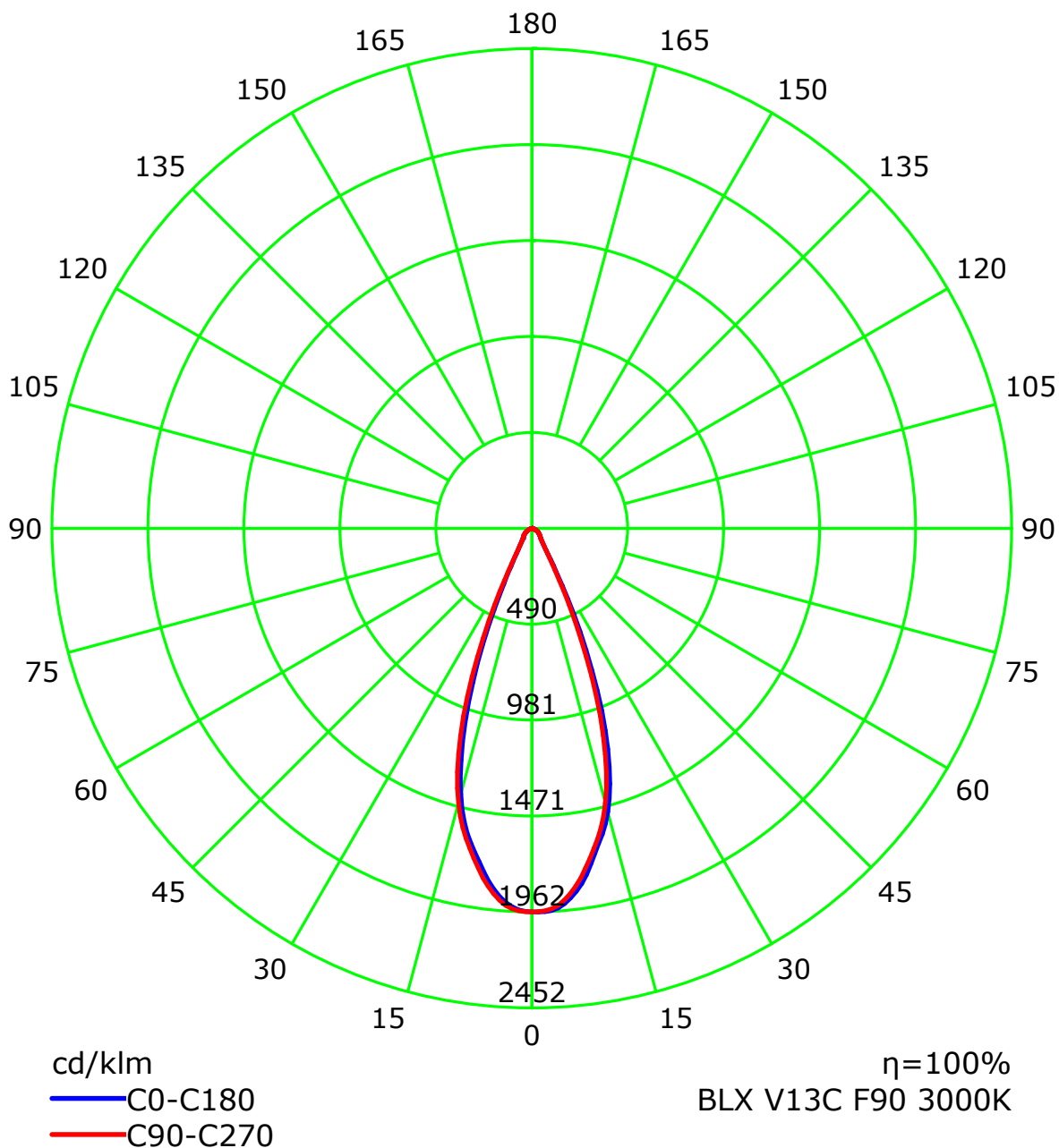
Luminous Intensity Distribution Curve



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:

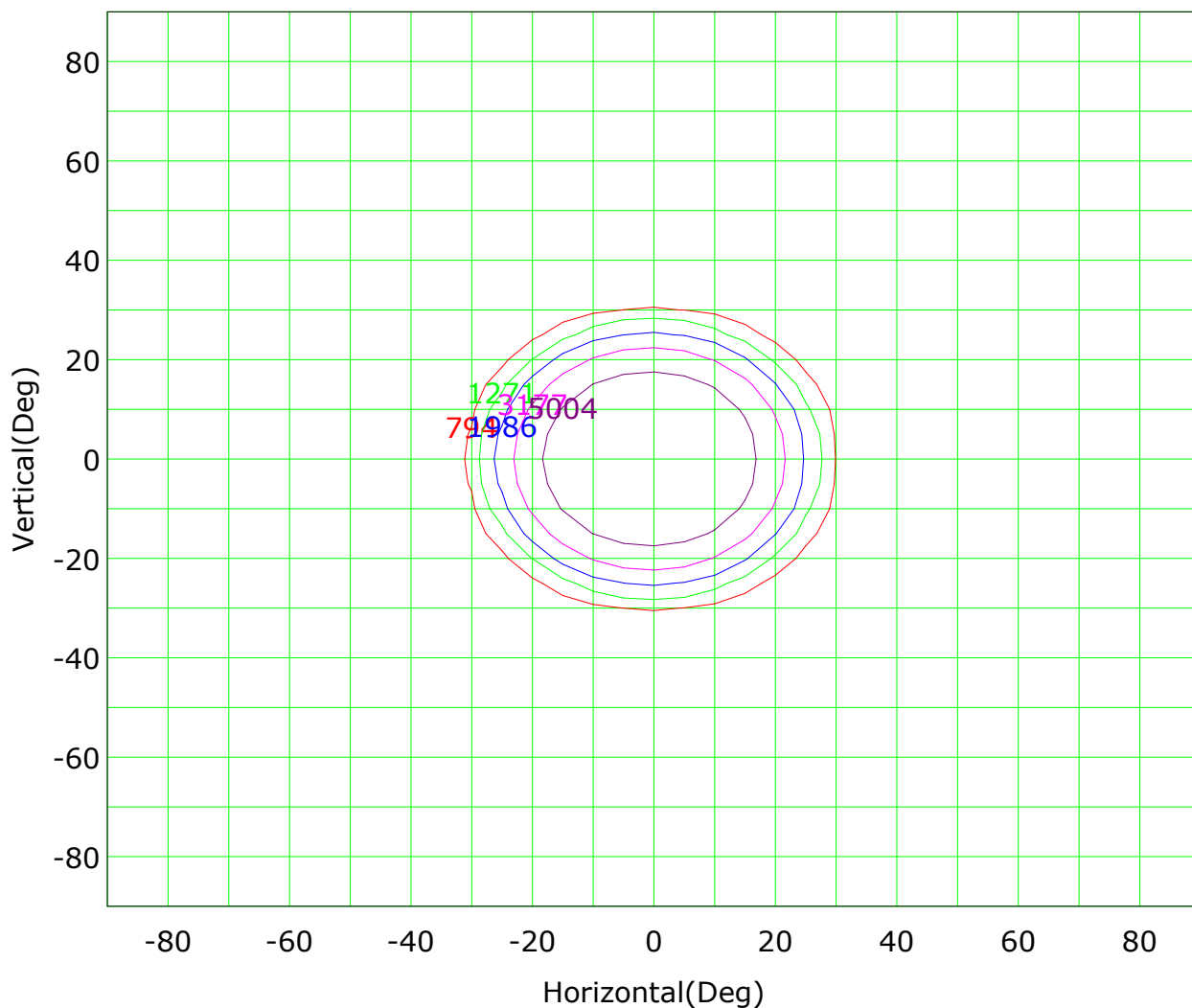
Luminous Intensity Distribution Curve(cd/klm)



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)



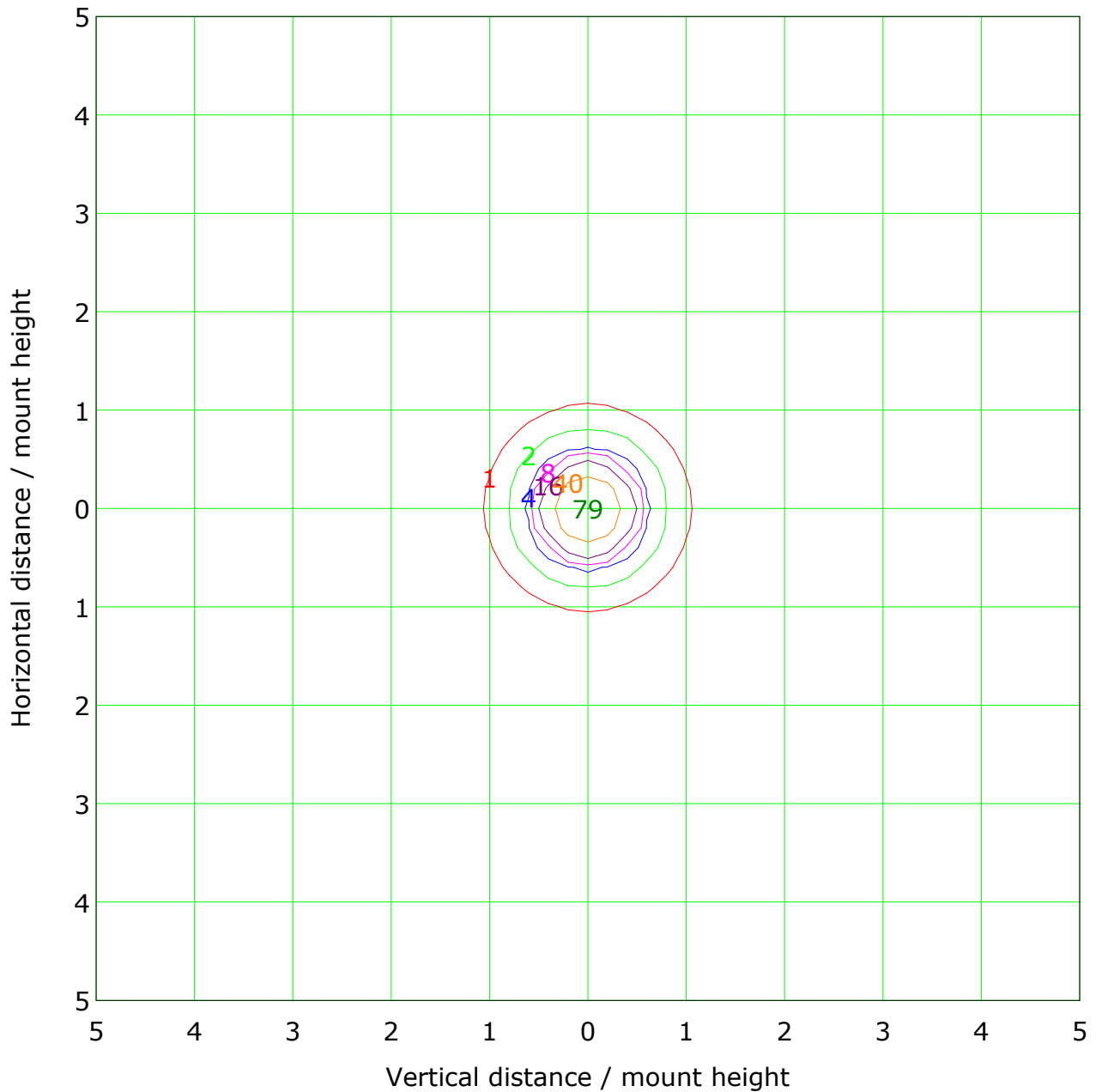
Imax (100%): 7942 cd

(10%): 794 cd	(16%): 1271 cd
(25%): 1986 cd	(40%): 3177 cd
(63%): 5004 cd	(100%): 7942 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



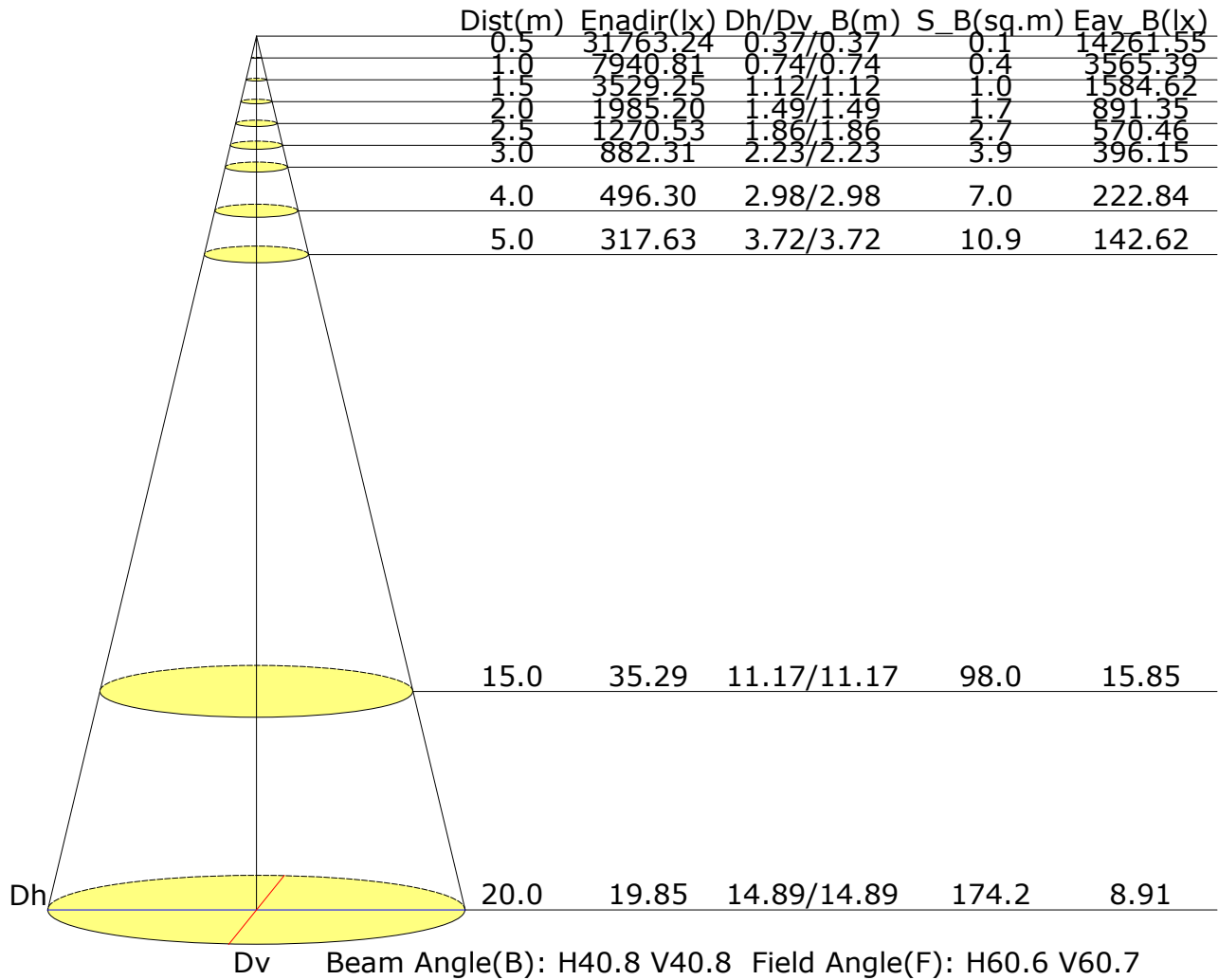
Mounting Height: 10.0m Max Lux(100%): 79.4 lx

(1%): 0.8 lx	(2%): 1.6 lx
(5%): 4.0 lx	(10%): 7.9 lx
(20%): 15.9 lx	(50%): 39.7 lx
(100%): 79.4 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:

Illuminance at a Distance



C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

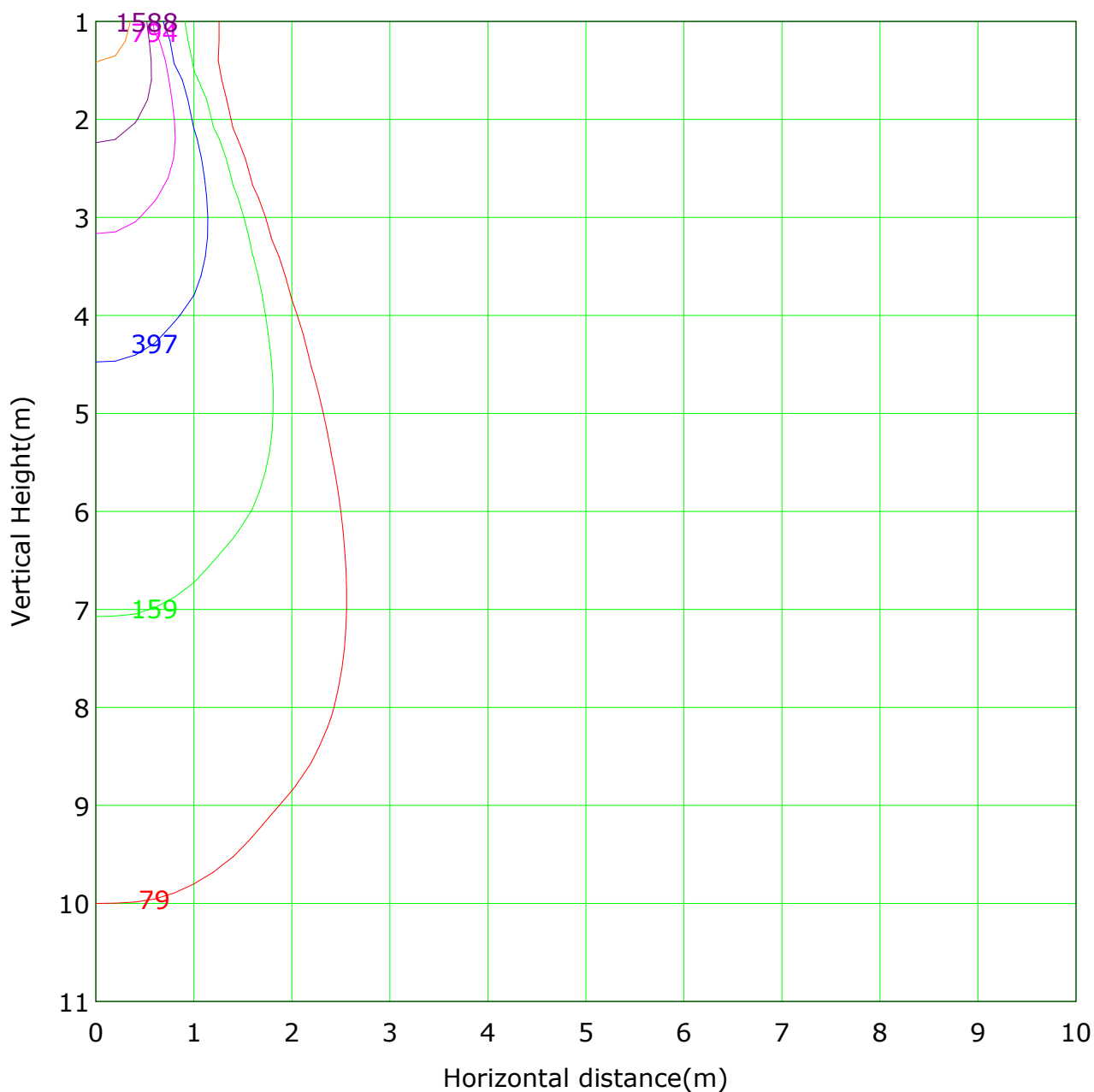
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 7940.8 lx

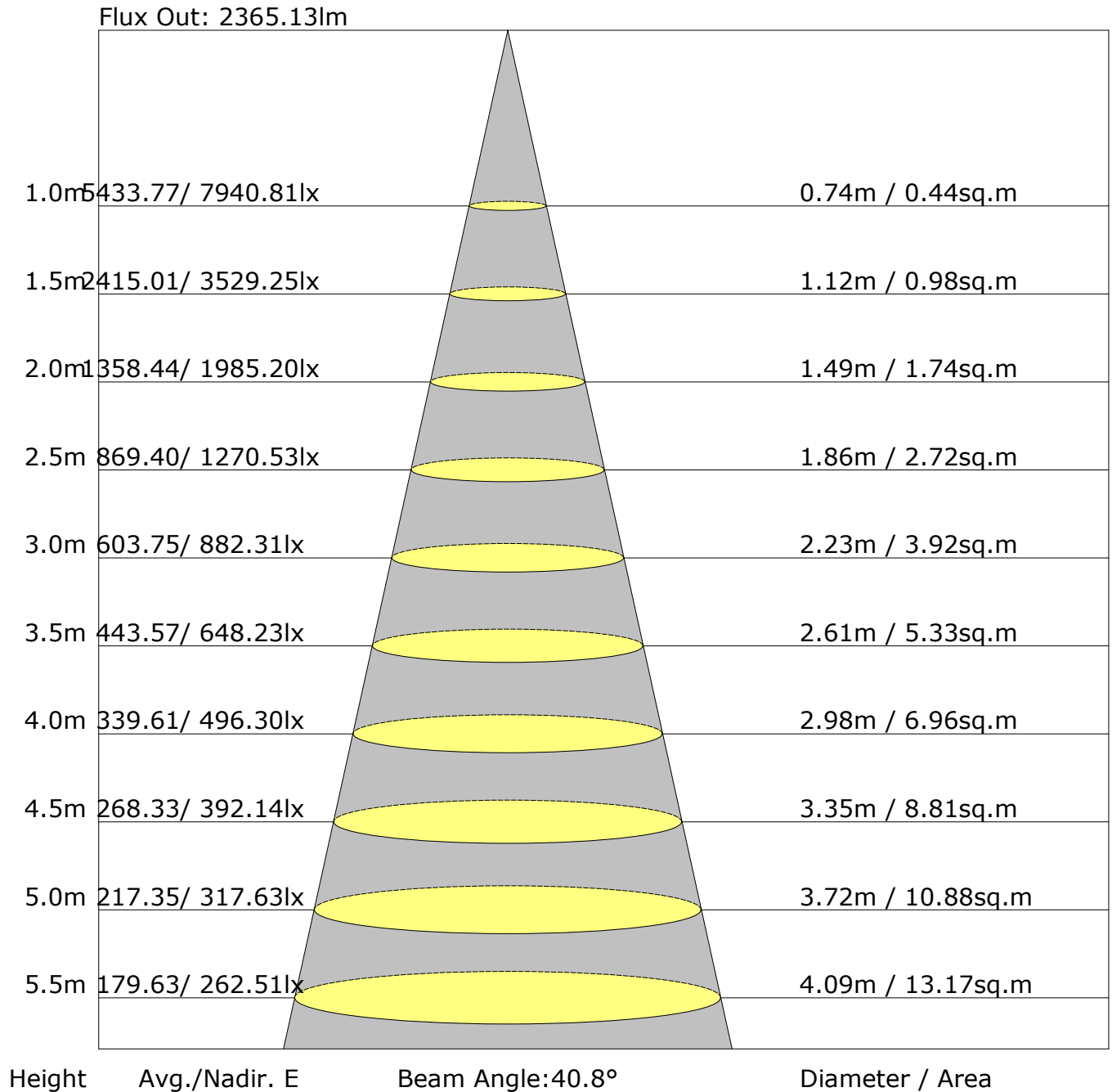
(1%): 79.4 lx	(2%): 158.8 lx
(5%): 397.0 lx	(10%): 794.1 lx
(20%): 1588.2 lx	(50%): 3970.4 lx
(100%): 7940.8 lx	

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	27.1	27.9	27.3	28.1	28.3	27.0	27.8	27.3	28.0	28.2
3H	27.9	28.6	28.2	28.8	29.1	27.6	28.4	27.9	28.6	28.9
4H	28.0	28.7	28.3	29.0	29.2	27.7	28.4	28.0	28.6	28.9
6H	28.0	28.6	28.3	28.9	29.2	27.6	28.3	28.0	28.6	28.9
8H	27.9	28.6	28.3	28.9	29.2	27.6	28.2	27.9	28.5	28.8
12H	27.9	28.5	28.3	28.8	29.1	27.6	28.1	27.9	28.5	28.8
X=4H Y=2H	27.5	28.2	27.8	28.5	28.7	27.5	28.1	27.8	28.4	28.7
3H	28.4	29.0	28.7	29.3	29.6	28.2	28.7	28.5	29.1	29.4
4H	28.6	29.1	28.9	29.4	29.8	28.2	28.8	28.6	29.1	29.5
6H	28.5	29.0	28.9	29.4	29.7	28.2	28.6	28.6	29.0	29.4
8H	28.5	28.9	28.9	29.3	29.7	28.1	28.6	28.6	28.9	29.3
12H	28.4	28.8	28.9	29.2	29.7	28.1	28.5	28.5	28.9	29.3
X=8H Y=4H	28.5	29.0	29.0	29.3	29.8	28.2	28.6	28.6	29.0	29.4
6H	28.5	28.8	28.9	29.3	29.7	28.2	28.5	28.6	28.9	29.4
8H	28.4	28.7	28.9	29.2	29.7	28.1	28.4	28.6	28.9	29.3
12H	28.4	28.7	28.9	29.1	29.6	28.1	28.3	28.5	28.8	29.3
X=12H Y=4H	28.5	28.9	28.9	29.3	29.7	28.2	28.6	28.6	29.0	29.4
6H	28.4	28.7	28.9	29.2	29.7	28.1	28.4	28.6	28.9	29.3
8H	28.4	28.7	28.9	29.1	29.6	28.1	28.3	28.6	28.8	29.3
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.5					+0.6/-0.5				
S=1.5H	+1.3/-1.2					+1.2/-1.2				
S=2.0H	+2.2/-2.1					+2.2/-2.6				

Calculate in accordance with CIE Pub.117. The table is revised with 4048lm ($8\log(F/F_0) = 4.9$).

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	2071	51.2
	FL (0°-30°)	1688	41.7
	FM (30°-60°)	323	8.0
	FH (60°-80°)	60	1.5
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1977	48.8
	BL (0°-30°)	1604	39.6
	BM (30°-60°)	322	8.0
	BH (60°-80°)	50	1.2
	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	7938.5	7.6	7.6	0.19	0.19
1.0-2.0	7928.4	22.8	30.4	0.56	0.75
2.0-3.0	7902.4	37.8	68.2	0.93	1.68
3.0-4.0	7851.9	52.6	120.7	1.30	2.98
4.0-5.0	7771.6	66.9	187.6	1.65	4.63
5.0-6.0	7664.2	80.6	268.1	1.99	6.62
6.0-7.0	7534.5	93.5	361.7	2.31	8.94
7.0-8.0	7383.4	105.7	467.4	2.61	11.55
8.0-9.0	7210.4	116.9	584.2	2.89	14.43
9.0-10.0	7024.5	127.1	711.4	3.14	17.57
10.0-11.0	6837.6	136.6	848.0	3.38	20.95
11.0-12.0	6651.4	145.4	993.4	3.59	24.54
12.0-13.0	6459.5	153.3	1146.7	3.79	28.33
13.0-14.0	6250.7	160.0	1306.8	3.95	32.28
14.0-15.0	6012.9	165.1	1471.9	4.08	36.36
15.0-16.0	5741.9	168.3	1640.1	4.16	40.52
16.0-17.0	5437.4	169.3	1809.5	4.18	44.70
17.0-18.0	5098.5	168.1	1977.6	4.15	48.86
18.0-19.0	4731.0	164.6	2142.2	4.07	52.92
19.0-20.0	4341.7	158.9	2301.2	3.93	56.85
20.0-21.0	3935.7	151.1	2452.3	3.73	60.58
21.0-22.0	3520.7	141.5	2593.8	3.50	64.08
22.0-23.0	3102.4	130.2	2724.0	3.22	67.30
23.0-24.0	2691.5	117.7	2841.7	2.91	70.20
24.0-25.0	2300.3	104.6	2946.3	2.58	72.79
25.0-26.0	1937.3	91.5	3037.8	2.26	75.05
26.0-27.0	1615.1	79.0	3116.8	1.95	77.00
27.0-28.0	1337.7	67.7	3184.5	1.67	78.67
28.0-29.0	1105.9	57.9	3242.4	1.43	80.10
29.0-30.0	920.0	49.7	3292.1	1.23	81.33
30.0-31.0	774.9	43.1	3335.2	1.07	82.40
31.0-32.0	662.6	38.0	3373.2	0.94	83.34
32.0-33.0	576.7	34.0	3407.1	0.84	84.17
33.0-34.0	511.5	31.0	3438.1	0.76	84.94
34.0-35.0	461.0	28.6	3466.7	0.71	85.65
35.0-36.0	420.3	26.8	3493.5	0.66	86.31

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	386.3	25.2	3518.7	0.62	86.93
37.0-38.0	358.1	23.9	3542.6	0.59	87.52
38.0-39.0	333.6	22.8	3565.4	0.56	88.08
39.0-40.0	311.7	21.7	3587.1	0.54	88.62
40.0-41.0	292.5	20.8	3607.9	0.51	89.14
41.0-42.0	277.8	20.2	3628.1	0.50	89.63
42.0-43.0	269.1	19.9	3648.1	0.49	90.13
43.0-44.0	263.1	19.9	3667.9	0.49	90.62
44.0-45.0	256.7	19.7	3687.7	0.49	91.10
45.0-46.0	249.9	19.5	3707.2	0.48	91.59
46.0-47.0	241.6	19.2	3726.4	0.47	92.06
47.0-48.0	232.6	18.8	3745.2	0.46	92.53
48.0-49.0	224.3	18.4	3763.6	0.46	92.98
49.0-50.0	216.7	18.1	3781.7	0.45	93.43
50.0-51.0	209.2	17.7	3799.4	0.44	93.87
51.0-52.0	200.5	17.2	3816.6	0.43	94.29
52.0-53.0	193.0	16.8	3833.4	0.41	94.71
53.0-54.0	185.8	16.4	3849.8	0.40	95.11
54.0-55.0	178.3	15.9	3865.7	0.39	95.50
55.0-56.0	171.1	15.5	3881.2	0.38	95.89
56.0-57.0	163.2	14.9	3896.1	0.37	96.25
57.0-58.0	155.7	14.4	3910.5	0.36	96.61
58.0-59.0	148.1	13.9	3924.3	0.34	96.95
59.0-60.0	139.8	13.2	3937.6	0.33	97.28
60.0-61.0	131.5	12.6	3950.1	0.31	97.59
61.0-62.0	122.5	11.8	3961.9	0.29	97.88
62.0-63.0	112.7	11.0	3972.9	0.27	98.15
63.0-64.0	102.9	10.1	3983.0	0.25	98.40
64.0-65.0	92.0	9.1	3992.1	0.22	98.63
65.0-66.0	82.2	8.2	4000.3	0.20	98.83
66.0-67.0	75.0	7.5	4007.8	0.19	99.01
67.0-68.0	67.1	6.8	4014.6	0.17	99.18
68.0-69.0	59.9	6.1	4020.7	0.15	99.33
69.0-70.0	53.1	5.5	4026.2	0.13	99.47
70.0-71.0	45.6	4.7	4030.9	0.12	99.58
71.0-72.0	39.6	4.1	4035.0	0.10	99.69

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	7940.8	7940.8								
G1.0	7942.3	7930.3								
G2.0	7937.8	7903.1								
G3.0	7922.7	7845.8								
G4.0	7874.5	7764.4								
G5.0	7794.6	7652.9								
G6.0	7690.5	7518.7								
G7.0	7566.9	7361.9								
G8.0	7423.7	7181.0								
G9.0	7250.3	6986.5								
G10.0	7048.3	6813.1								
G11.0	6847.8	6641.2								
G12.0	6665.3	6451.3								
G13.0	6492.0	6229.6								
G14.0	6297.5	5983.9								
G15.0	6071.3	5698.9								
G16.0	5818.0	5379.3								
G17.0	5527.1	5025.0								
G18.0	5195.4	4646.6								
G19.0	4835.0	4247.1								
G20.0	4452.1	3832.5								
G21.0	4042.0	3416.3								
G22.0	3618.4	3006.3								
G23.0	3184.2	2600.7								
G24.0	2762.0	2219.3								
G25.0	2356.5	1863.5								
G26.0	1978.0	1551.4								
G27.0	1640.3	1290.6								
G28.0	1346.3	1073.4								
G29.0	1099.1	904.6								
G30.0	903.1	773.4								
G31.0	750.8	672.4								
G32.0	634.7	592.5								
G33.0	548.8	530.7								
G34.0	484.0	482.5								
G35.0	434.2	443.3								
G36.0	398.0	405.6								

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	367.9	373.9								
G38.0	343.8	346.8								
G39.0	321.1	322.6								
G40.0	301.5	301.5								
G41.0	280.4	286.5								
G42.0	266.9	277.4								
G43.0	256.3	275.9								
G44.0	253.3	266.9								
G45.0	247.3	259.3								
G46.0	242.7	250.3								
G47.0	232.2	241.2								
G48.0	224.6	232.2								
G49.0	217.1	223.1								
G50.0	214.1	212.6								
G51.0	205.0	205.0								
G52.0	197.5	194.5								
G53.0	191.5	188.5								
G54.0	182.4	180.9								
G55.0	174.9	174.9								
G56.0	168.9	165.8								
G57.0	159.8	158.3								
G58.0	153.8	150.8								
G59.0	146.2	141.7								
G60.0	138.7	132.7								
G61.0	131.2	123.6								
G62.0	120.6	114.6								
G63.0	114.6	101.0								
G64.0	107.0	88.9								
G65.0	96.5	75.4								
G66.0	88.9	67.8								
G67.0	82.9	60.3								
G68.0	73.9	51.3								
G69.0	69.3	45.2								
G70.0	61.8	36.2								
G71.0	54.3	30.1								
G72.0	49.8	24.1								
G73.0	42.2	18.1								

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

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