

Report No.:

Test Time: 2026-09-30 17:23

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA90-1050MA-24D

Lamp Description: BLX V13C F90 3000K

Luminous Width (mm): -40

Current: 0.186 A

Power Factor: 0.981

Luminous Length (mm): -40

Voltage: 224.5 V

Power: 41.10 W

Photometric Results

CIE Class: Direct

Measurement Flux: 3770.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H34.7

Vertical Diffuse Angle(50%): V34.7

Luminaire Efficacy Rating (LER): 91.80

Max. Intensity: 8720.27 cd

S/MH(C0/C180): 0.59

Total Rated Lamp Lumens: 3770.8 lm

Efficiency: 100%

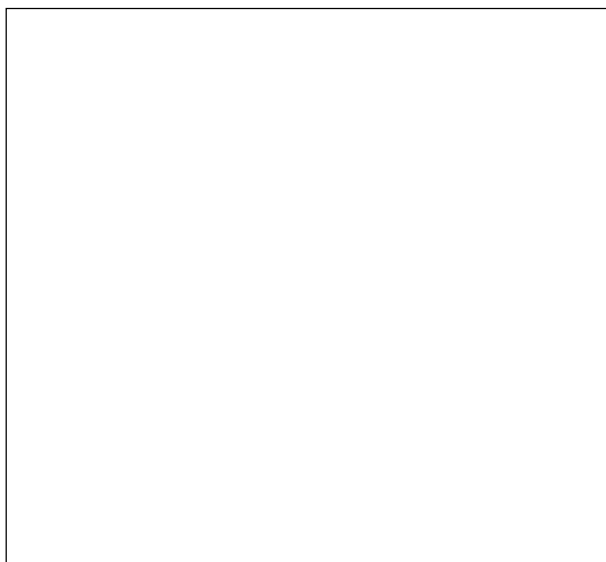
Upward Ratio: 0%

Central Intensity: 8720.27 cd

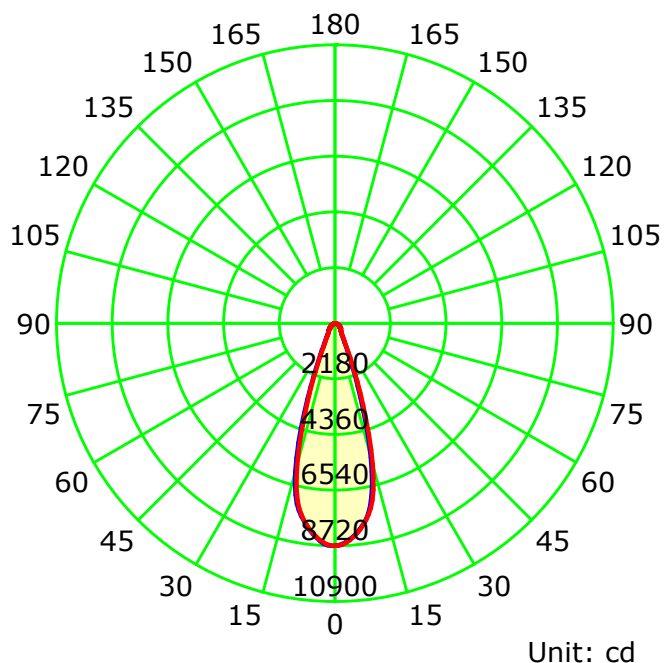
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.59

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

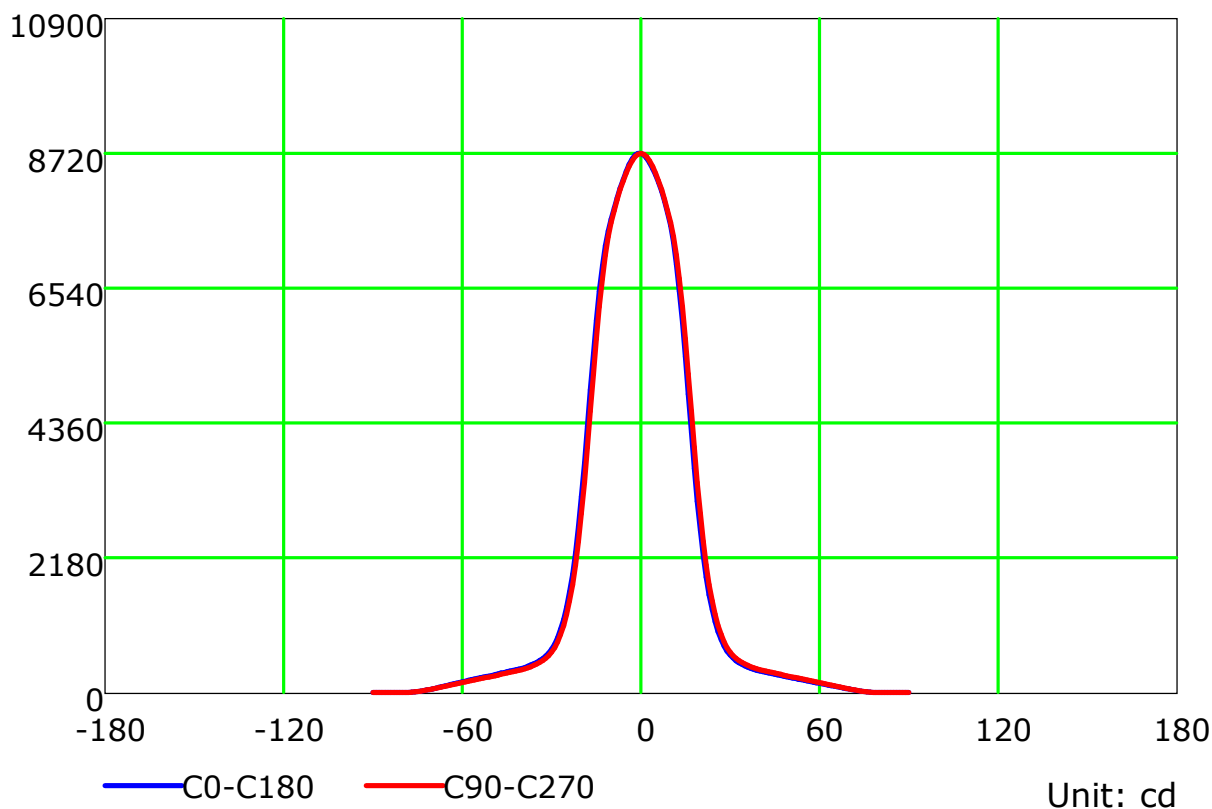
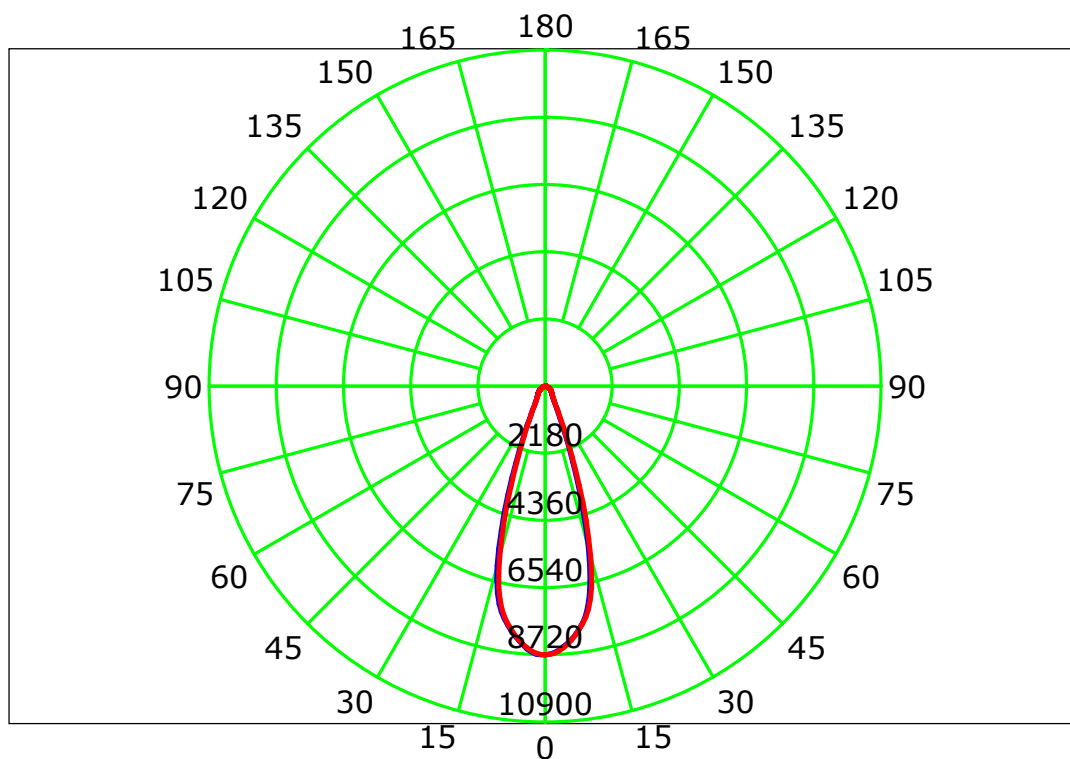
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

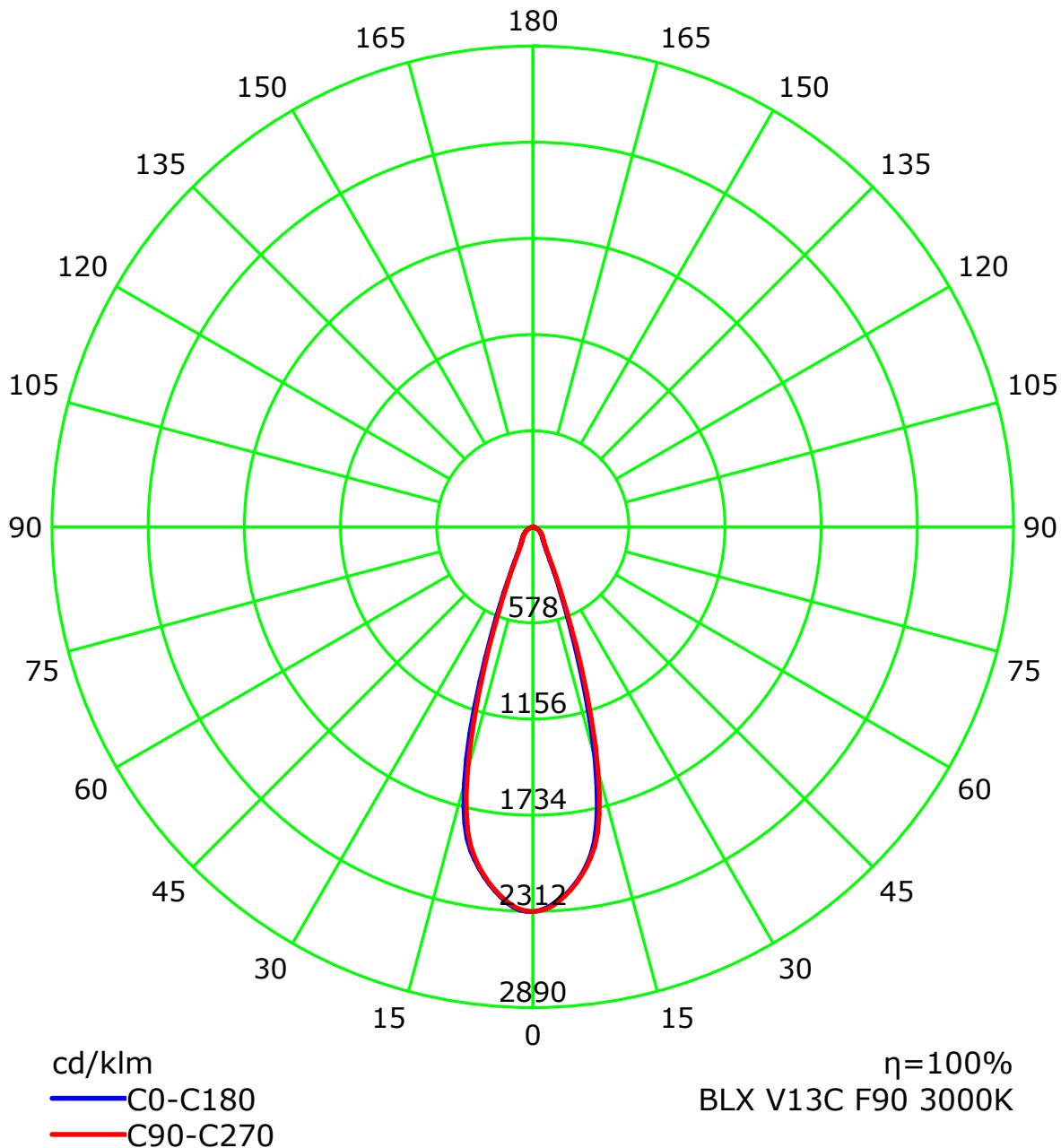


Unit: cd

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:

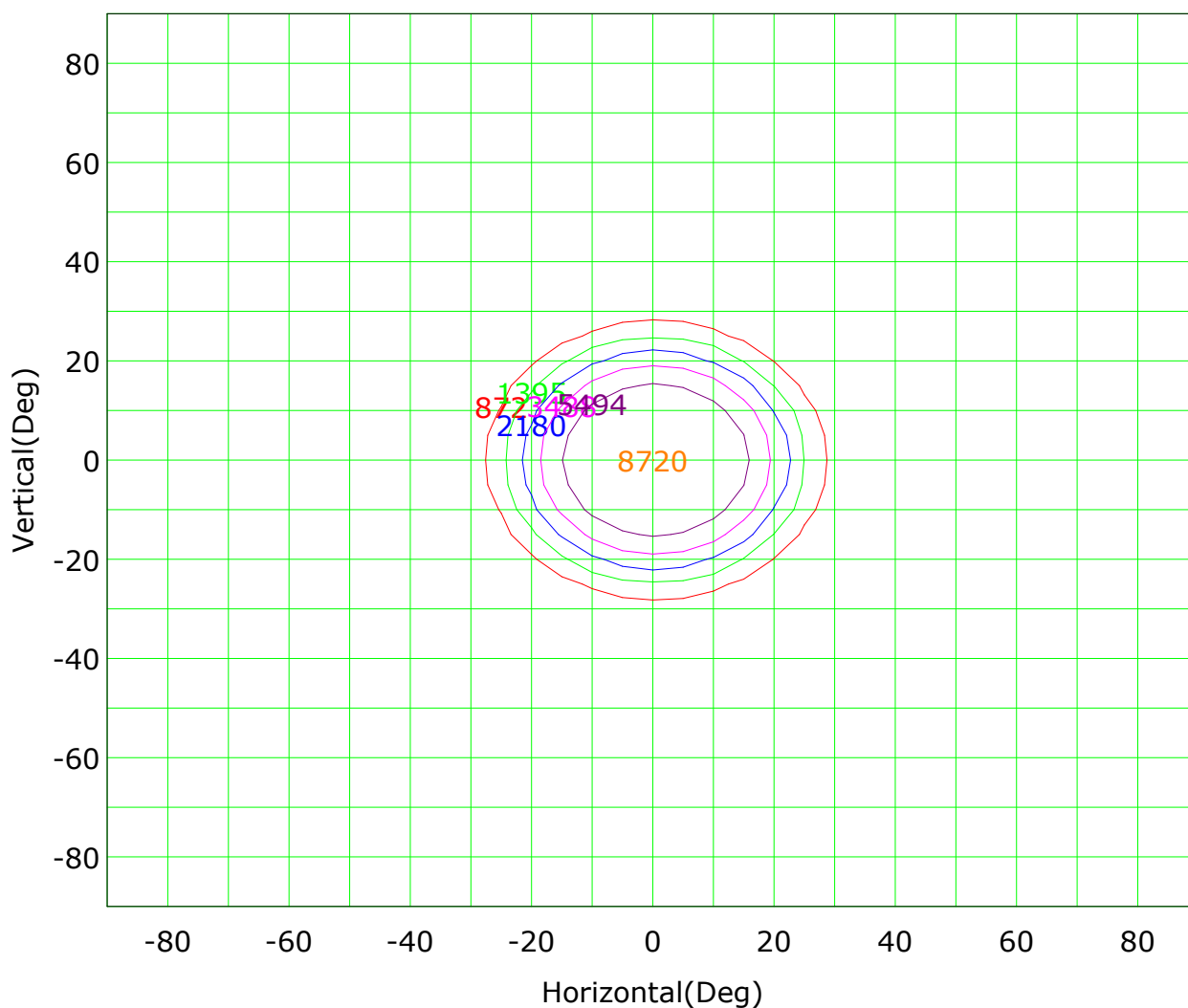
Luminous Intensity Distribution Curve(cd/klm)



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%): 8720 cd

(10%): 872 cd	(16%): 1395 cd
(25%): 2180 cd	(40%): 3488 cd
(63%): 5494 cd	(100%): 8720 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

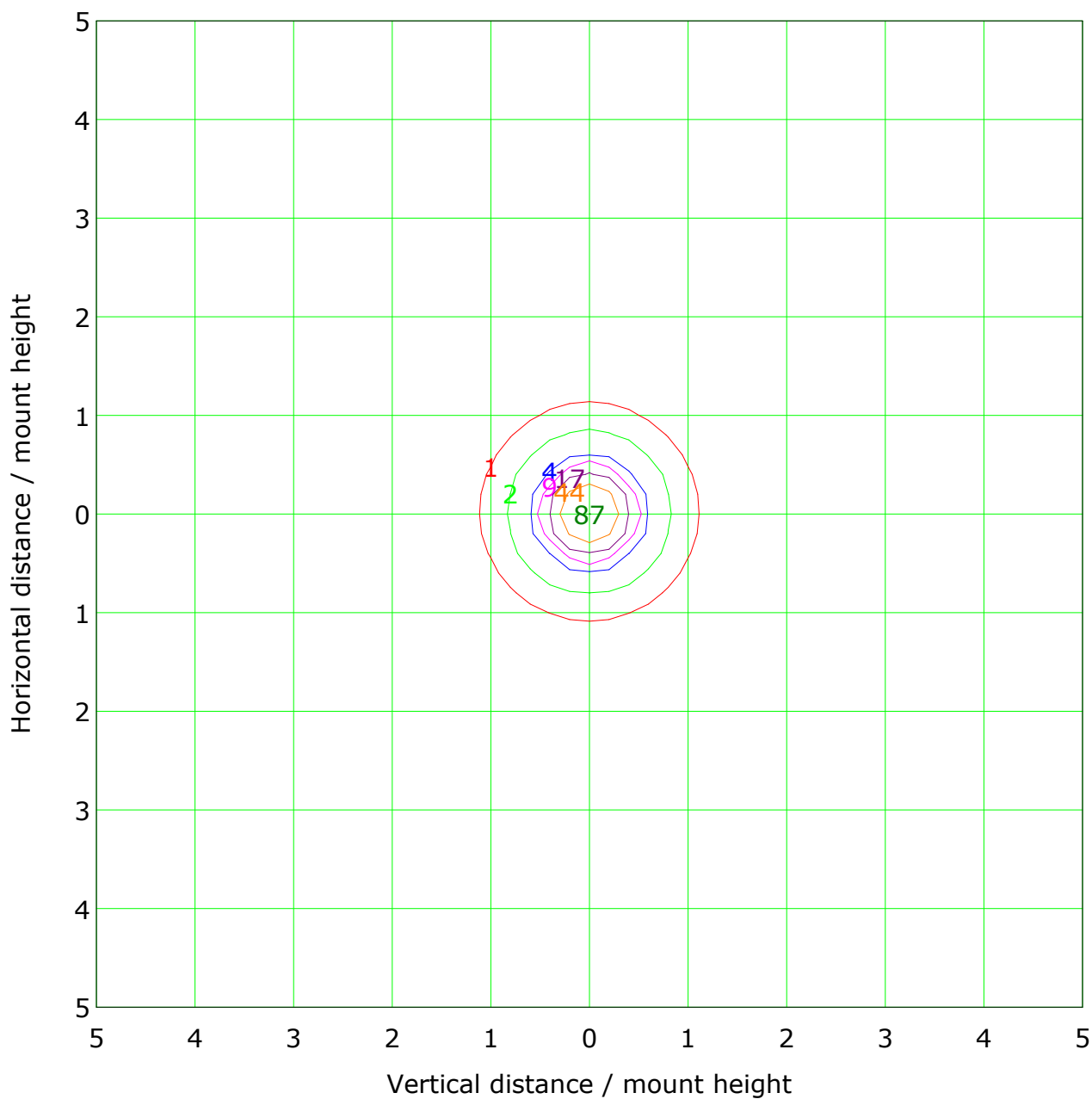
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 87.2 lx

— (1%): 0.9 lx	— (2%): 1.7 lx
— (5%): 4.4 lx	— (10%): 8.7 lx
— (20%): 17.4 lx	— (50%): 43.6 lx
— (100%): 87.2 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

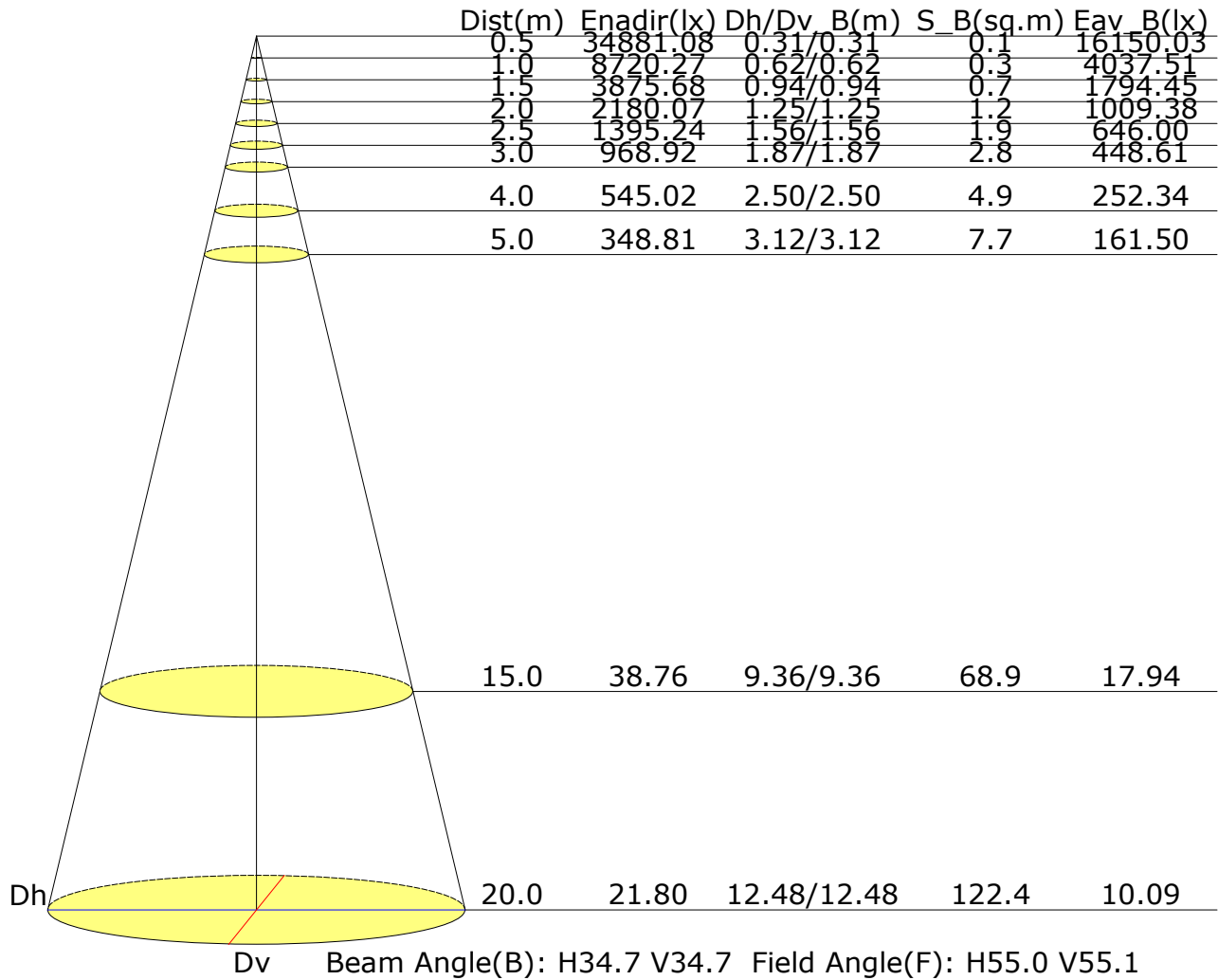
Test Device: CHL-6E

Distance: 3.010 m

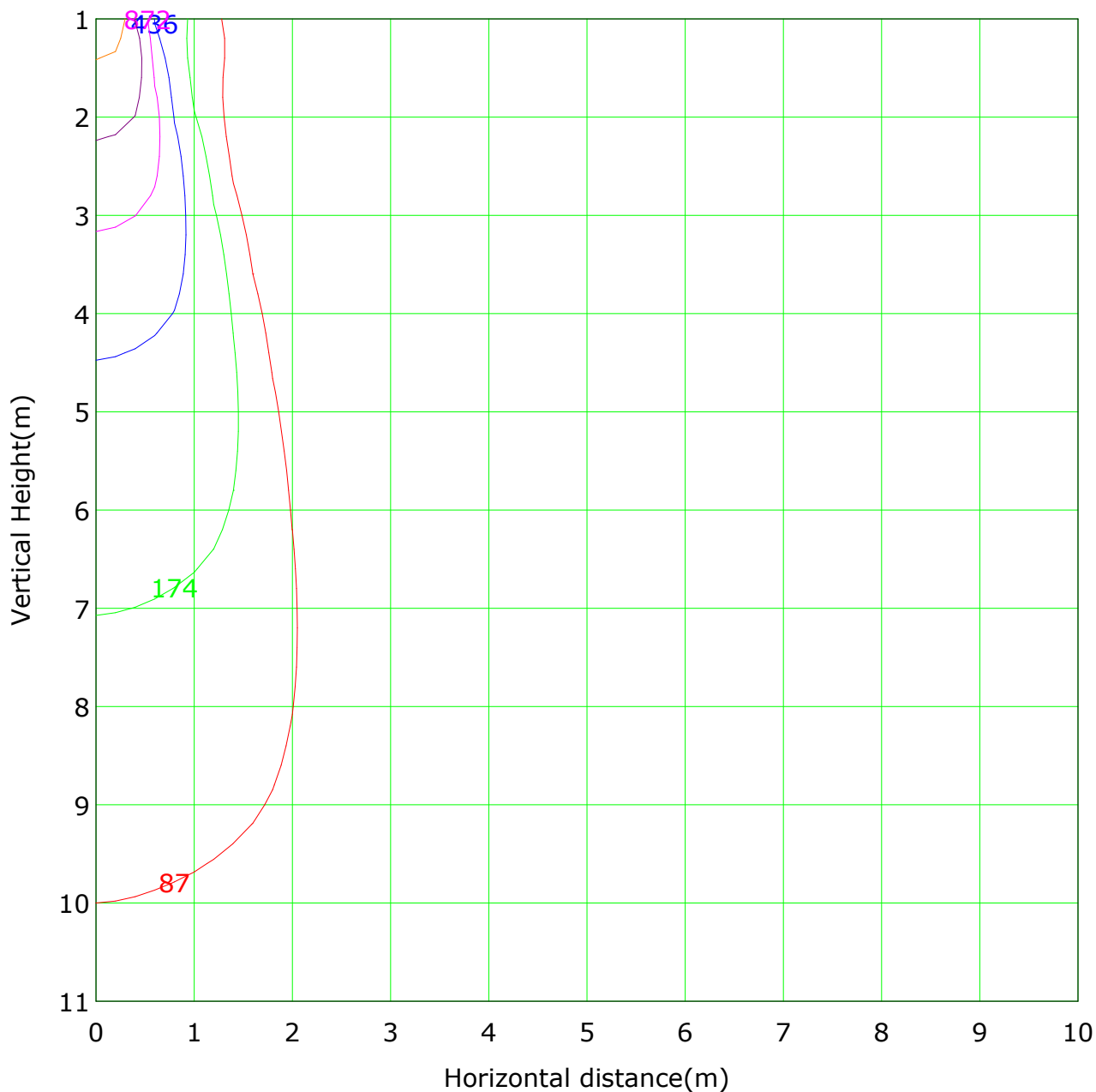
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



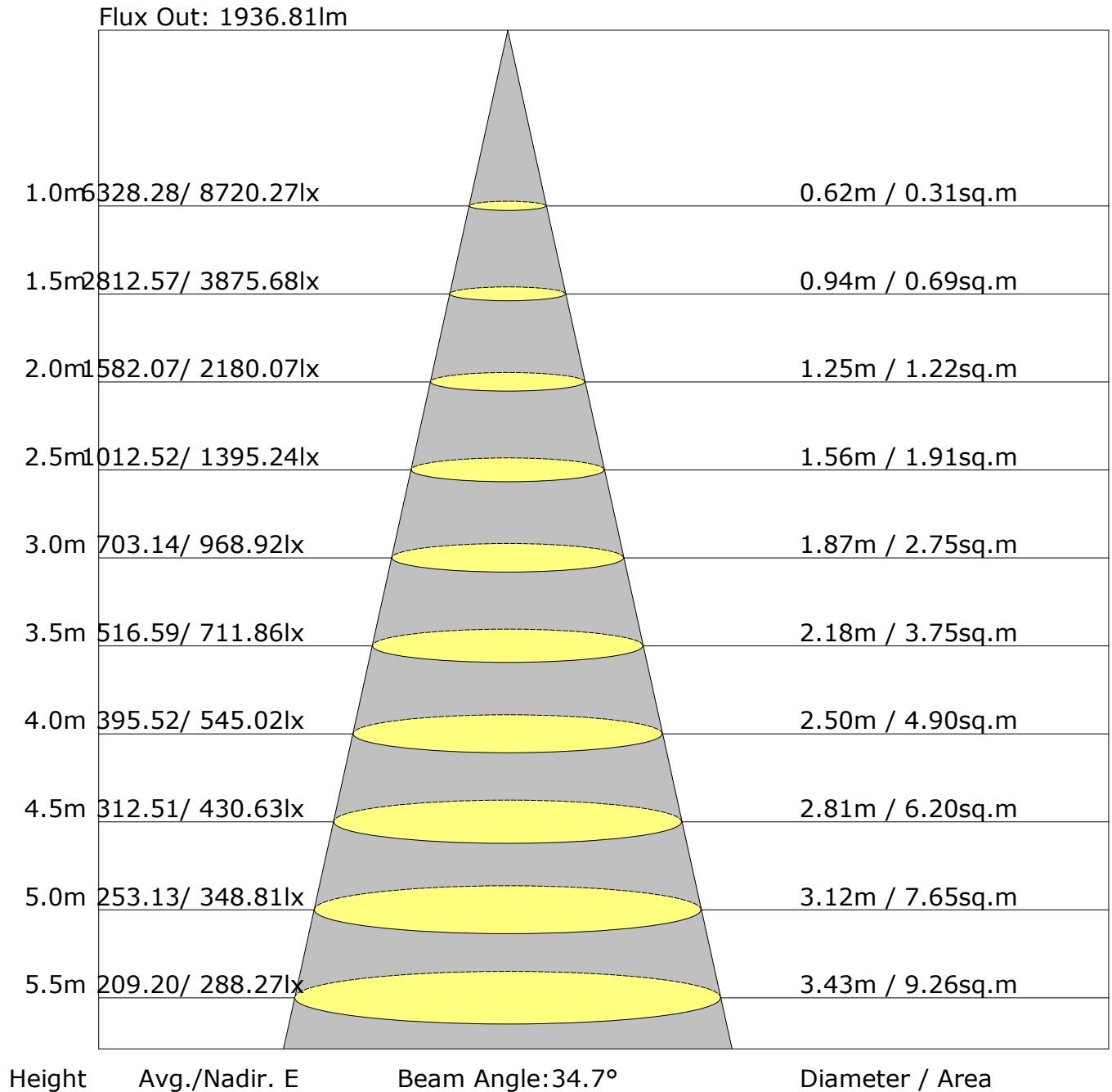
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 8720.3 lx
— (1%): 87.2 lx — (2%): 174.4 lx
— (5%): 436.0 lx — (10%): 872.0 lx
— (20%): 1744.1 lx — (50%): 4360.1 lx
— (100%): 8720.3 lx

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:

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

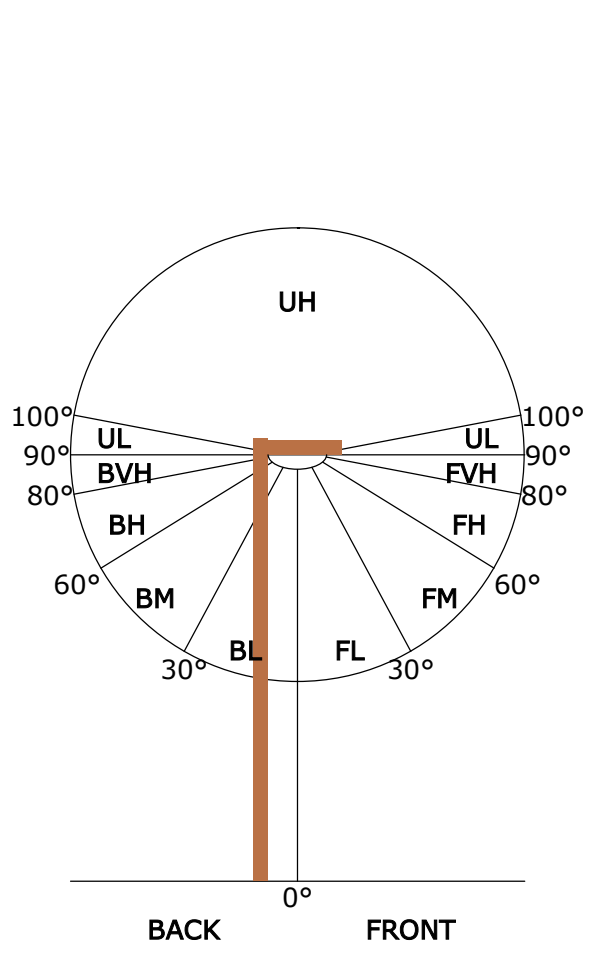
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	28.2	29.0	28.5	29.2	29.4	28.5	29.3	28.7	29.5	29.7
3H	28.8	29.6	29.1	29.8	30.1	29.1	29.9	29.4	30.1	30.3
4H	28.9	29.6	29.2	29.8	30.1	29.1	29.8	29.4	30.1	30.4
6H	28.8	29.4	29.1	29.7	30.0	29.1	29.7	29.4	30.0	30.3
8H	28.8	29.4	29.1	29.7	30.0	29.0	29.6	29.4	29.9	30.3
12H	28.7	29.3	29.1	29.6	29.9	29.0	29.6	29.3	29.9	30.2
X=4H Y=2H	28.6	29.3	29.0	29.6	29.9	28.9	29.6	29.2	29.8	30.1
3H	29.3	29.9	29.7	30.3	30.6	29.6	30.2	29.9	30.5	30.8
4H	29.4	29.9	29.8	30.2	30.6	29.6	30.1	30.0	30.5	30.8
6H	29.3	29.8	29.7	30.1	30.5	29.5	30.0	29.9	30.4	30.7
8H	29.3	29.7	29.7	30.1	30.5	29.5	29.9	29.9	30.3	30.7
12H	29.2	29.6	29.6	30.0	30.4	29.4	29.8	29.9	30.2	30.7
X=8H Y=4H	29.3	29.7	29.7	30.1	30.5	29.5	30.0	30.0	30.4	30.8
6H	29.2	29.6	29.7	30.0	30.5	29.4	29.8	29.9	30.2	30.7
8H	29.2	29.5	29.7	29.9	30.4	29.4	29.7	29.9	30.2	30.6
12H	29.1	29.4	29.6	29.9	30.4	29.4	29.6	29.8	30.1	30.6
X=12H Y=4H	29.3	29.7	29.7	30.1	30.5	29.5	29.9	29.9	30.3	30.7
6H	29.2	29.5	29.7	29.9	30.4	29.4	29.7	29.9	30.2	30.6
8H	29.1	29.4	29.6	29.9	30.4	29.4	29.6	29.8	30.1	30.6
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.5					+0.3/-0.5				
S=1.5H	+0.5/-1.3					+0.5/-1.2				
S=2.0H	+1.2/-2.6					+1.3/-2.6				

Calculate in accordance with CIE Pub.117. The table is revised with 3771lm ($8\log(F/F_0) = 4.6$).

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	1838	48.7
	FL (0°-30°)	1419	37.6
	FM (30°-60°)	354	9.4
	FH (60°-80°)	64	1.7
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1933	51.3
	BL (0°-30°)	1487	39.4
	BM (30°-60°)	378	10.0
	BH (60°-80°)	68	1.8
	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	8714.2	8.3	8.3	0.22	0.22
1.0-2.0	8689.7	24.9	33.3	0.66	0.88
2.0-3.0	8637.3	41.3	74.6	1.10	1.98
3.0-4.0	8556.7	57.3	131.9	1.52	3.50
4.0-5.0	8455.3	72.7	204.6	1.93	5.43
5.0-6.0	8338.1	87.6	292.3	2.32	7.75
6.0-7.0	8205.8	101.9	394.1	2.70	10.45
7.0-8.0	8056.5	115.3	509.5	3.06	13.51
8.0-9.0	7890.3	127.9	637.3	3.39	16.90
9.0-10.0	7705.2	139.5	776.8	3.70	20.60
10.0-11.0	7491.5	149.7	926.5	3.97	24.57
11.0-12.0	7226.2	158.0	1084.5	4.19	28.76
12.0-13.0	6886.2	163.4	1247.9	4.33	33.09
13.0-14.0	6470.1	165.6	1413.6	4.39	37.49
14.0-15.0	5985.4	164.3	1577.9	4.36	41.85
15.0-16.0	5440.7	159.4	1737.4	4.23	46.07
16.0-17.0	4855.0	151.2	1888.6	4.01	50.08
17.0-18.0	4261.0	140.5	2029.1	3.73	53.81
18.0-19.0	3684.3	128.2	2157.3	3.40	57.21
19.0-20.0	3148.4	115.2	2272.5	3.06	60.27
20.0-21.0	2671.2	102.6	2375.1	2.72	62.99
21.0-22.0	2255.8	90.7	2465.8	2.40	65.39
22.0-23.0	1904.9	79.9	2545.7	2.12	67.51
23.0-24.0	1615.1	70.6	2616.3	1.87	69.38
24.0-25.0	1374.2	62.5	2678.8	1.66	71.04
25.0-26.0	1174.8	55.5	2734.3	1.47	72.51
26.0-27.0	1011.6	49.5	2783.8	1.31	73.82
27.0-28.0	879.7	44.5	2828.3	1.18	75.01
28.0-29.0	774.6	40.5	2868.9	1.07	76.08
29.0-30.0	691.3	37.3	2906.2	0.99	77.07
30.0-31.0	627.2	34.9	2941.1	0.93	78.00
31.0-32.0	577.1	33.1	2974.2	0.88	78.87
32.0-33.0	536.4	31.6	3005.8	0.84	79.71
33.0-34.0	503.2	30.5	3036.2	0.81	80.52
34.0-35.0	475.3	29.5	3065.8	0.78	81.30
35.0-36.0	451.2	28.7	3094.5	0.76	82.06

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	429.7	28.0	3122.5	0.74	82.81
37.0-38.0	409.7	27.4	3149.9	0.73	83.53
38.0-39.0	392.7	26.8	3176.7	0.71	84.24
39.0-40.0	378.0	26.4	3203.0	0.70	84.94
40.0-41.0	365.6	26.0	3229.1	0.69	85.63
41.0-42.0	353.9	25.7	3254.8	0.68	86.32
42.0-43.0	343.0	25.4	3280.2	0.67	86.99
43.0-44.0	333.6	25.2	3305.4	0.67	87.66
44.0-45.0	323.8	24.9	3330.3	0.66	88.32
45.0-46.0	312.8	24.5	3354.7	0.65	88.97
46.0-47.0	301.9	24.0	3378.8	0.64	89.60
47.0-48.0	290.6	23.5	3402.3	0.62	90.23
48.0-49.0	278.5	22.9	3425.1	0.61	90.83
49.0-50.0	267.2	22.3	3447.4	0.59	91.42
50.0-51.0	256.7	21.7	3469.1	0.58	92.00
51.0-52.0	248.4	21.3	3490.5	0.57	92.56
52.0-53.0	239.3	20.8	3511.3	0.55	93.12
53.0-54.0	229.2	20.2	3531.5	0.54	93.65
54.0-55.0	219.7	19.6	3551.1	0.52	94.17
55.0-56.0	209.9	19.0	3570.1	0.50	94.68
56.0-57.0	200.5	18.3	3588.4	0.49	95.16
57.0-58.0	189.6	17.5	3605.9	0.46	95.63
58.0-59.0	177.9	16.6	3622.6	0.44	96.07
59.0-60.0	167.7	15.8	3638.4	0.42	96.49
60.0-61.0	157.6	15.0	3653.5	0.40	96.89
61.0-62.0	148.1	14.3	3667.7	0.38	97.27
62.0-63.0	139.1	13.5	3681.3	0.36	97.62
63.0-64.0	128.1	12.6	3693.8	0.33	97.96
64.0-65.0	117.6	11.6	3705.5	0.31	98.27
65.0-66.0	106.7	10.6	3716.1	0.28	98.55
66.0-67.0	95.7	9.6	3725.7	0.26	98.80
67.0-68.0	85.2	8.6	3734.4	0.23	99.03
68.0-69.0	74.3	7.6	3742.0	0.20	99.23
69.0-70.0	64.5	6.6	3748.6	0.18	99.41
70.0-71.0	53.9	5.6	3754.1	0.15	99.56
71.0-72.0	44.9	4.7	3758.8	0.12	99.68

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Test Lab:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
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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	8720.3	8720.3								
G1.0	8696.2	8720.3								
G2.0	8646.4	8696.2								
G3.0	8572.5	8634.3								
G4.0	8476.0	8543.9								
G5.0	8375.0	8426.3								
G6.0	8254.4	8296.6								
G7.0	8112.7	8159.4								
G8.0	7949.9	8004.1								
G9.0	7772.0	7835.3								
G10.0	7559.4	7654.4								
G11.0	7286.5	7465.9								
G12.0	6927.7	7224.7								
G13.0	6495.0	6897.5								
G14.0	5994.4	6493.5								
G15.0	5432.1	6021.6								
G16.0	4830.5	5478.8								
G17.0	4213.9	4896.9								
G18.0	3628.9	4304.4								
G19.0	3093.7	3710.3								
G20.0	2621.8	3167.6								
G21.0	2211.7	2683.6								
G22.0	1868.0	2260.0								
G23.0	1580.0	1911.7								
G24.0	1344.8	1623.7								
G25.0	1148.8	1379.5								
G26.0	989.0	1182.0								
G27.0	854.8	1020.7								
G28.0	753.8	889.5								
G29.0	669.4	785.5								
G30.0	606.1	704.1								
G31.0	559.3	639.3								
G32.0	517.1	592.5								
G33.0	484.0	551.8								
G34.0	458.3	518.6								
G35.0	434.2	490.0								
G36.0	413.1	467.4								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	392.0	446.3								
G38.0	375.4	425.2								
G39.0	361.8	408.6								
G40.0	349.8	392.0								
G41.0	339.2	381.4								
G42.0	327.2	367.9								
G43.0	318.1	358.8								
G44.0	309.1	348.3								
G45.0	300.0	337.7								
G46.0	288.0	325.6								
G47.0	277.4	316.6								
G48.0	265.4	303.0								
G49.0	254.8	291.0								
G50.0	244.2	278.9								
G51.0	235.2	268.4								
G52.0	229.2	260.8								
G53.0	217.1	250.3								
G54.0	209.6	239.7								
G55.0	200.5	229.2								
G56.0	191.5	218.6								
G57.0	180.9	211.1								
G58.0	168.9	197.5								
G59.0	159.8	185.4								
G60.0	150.8	174.9								
G61.0	141.7	162.8								
G62.0	134.2	153.8								
G63.0	123.6	144.7								
G64.0	113.1	131.2								
G65.0	107.0	119.1								
G66.0	96.5	104.0								
G67.0	87.4	95.0								
G68.0	75.4	82.9								
G69.0	66.3	72.4								
G70.0	57.3	61.8								
G71.0	48.2	48.2								
G72.0	40.7	42.2								
G73.0	31.7	36.2								

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]

Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector: