

Report No.:

Test Time: 2026-09-30 10:20

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA90-深眩-15D-1050mA

Lamp Description: Blx V13C F90 3000K

Luminous Length (mm): -82

Luminous Width (mm): -82

Voltage: 227.1 V

Current: 0.186 A

Power: 41.40 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 4060.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H25.1

Vertical Diffuse Angle(50%): V25.1

Luminaire Efficacy Rating (LER): 98.14

Max. Intensity: 17353.1 cd

S/MH(C0/C180): 0.43

Total Rated Lamp Lumens: 4060.8 lm

Efficiency: 100%

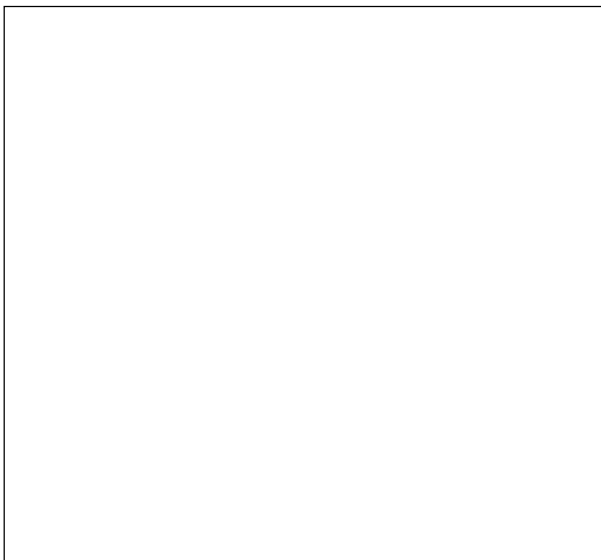
Upward Ratio: 0%

Central Intensity: 17331.99 cd

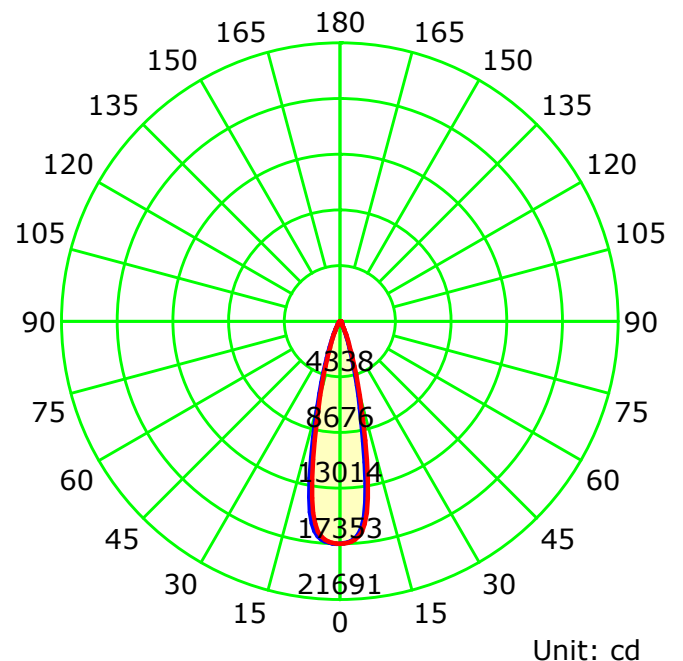
Pos of Max. Intensity: H180 V1

S/MH(C90/C270): 0.43

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

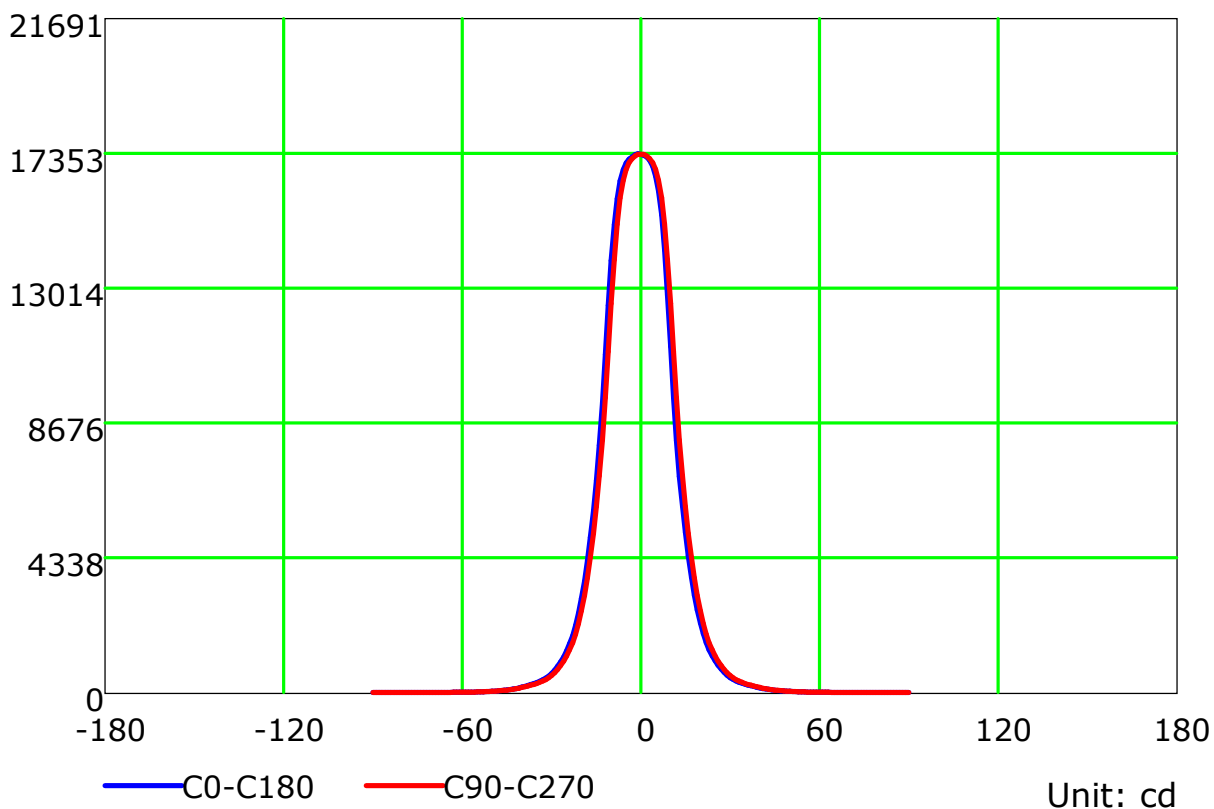
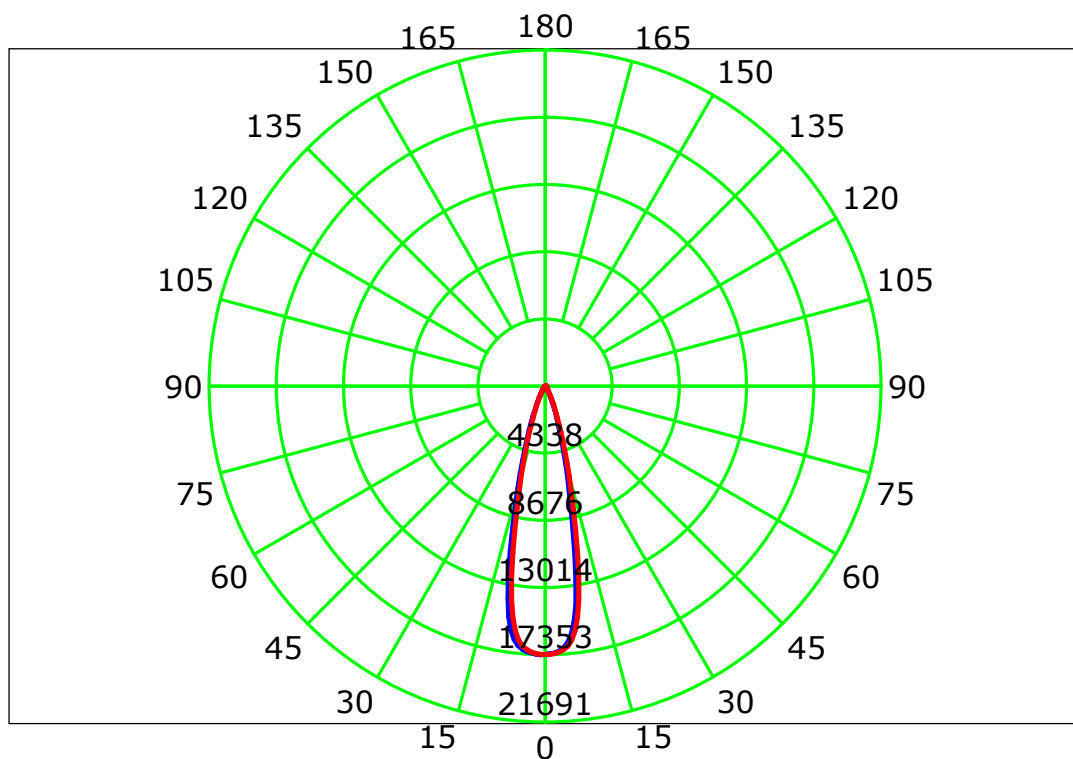
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

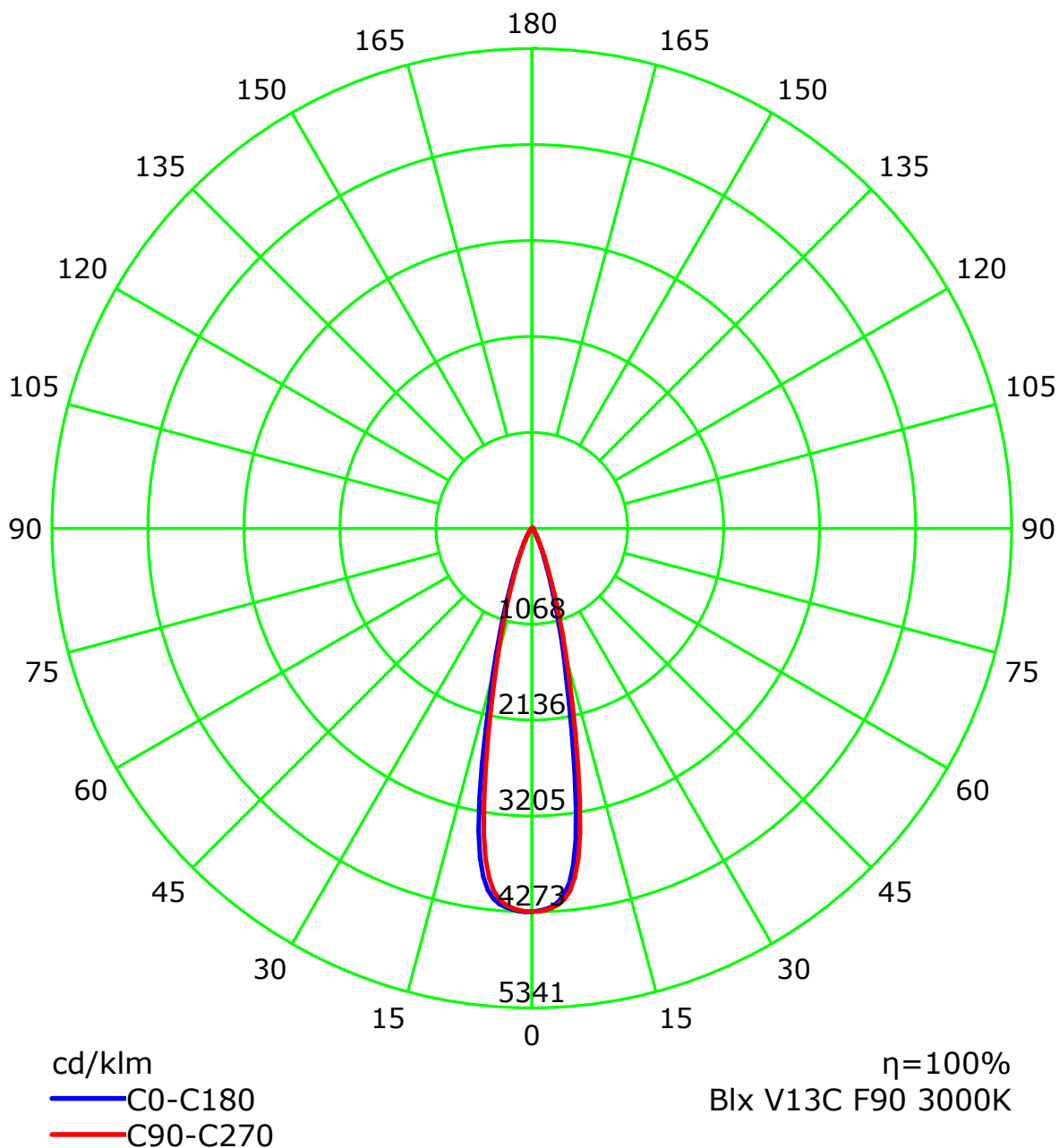
Luminous Intensity Distribution Curve



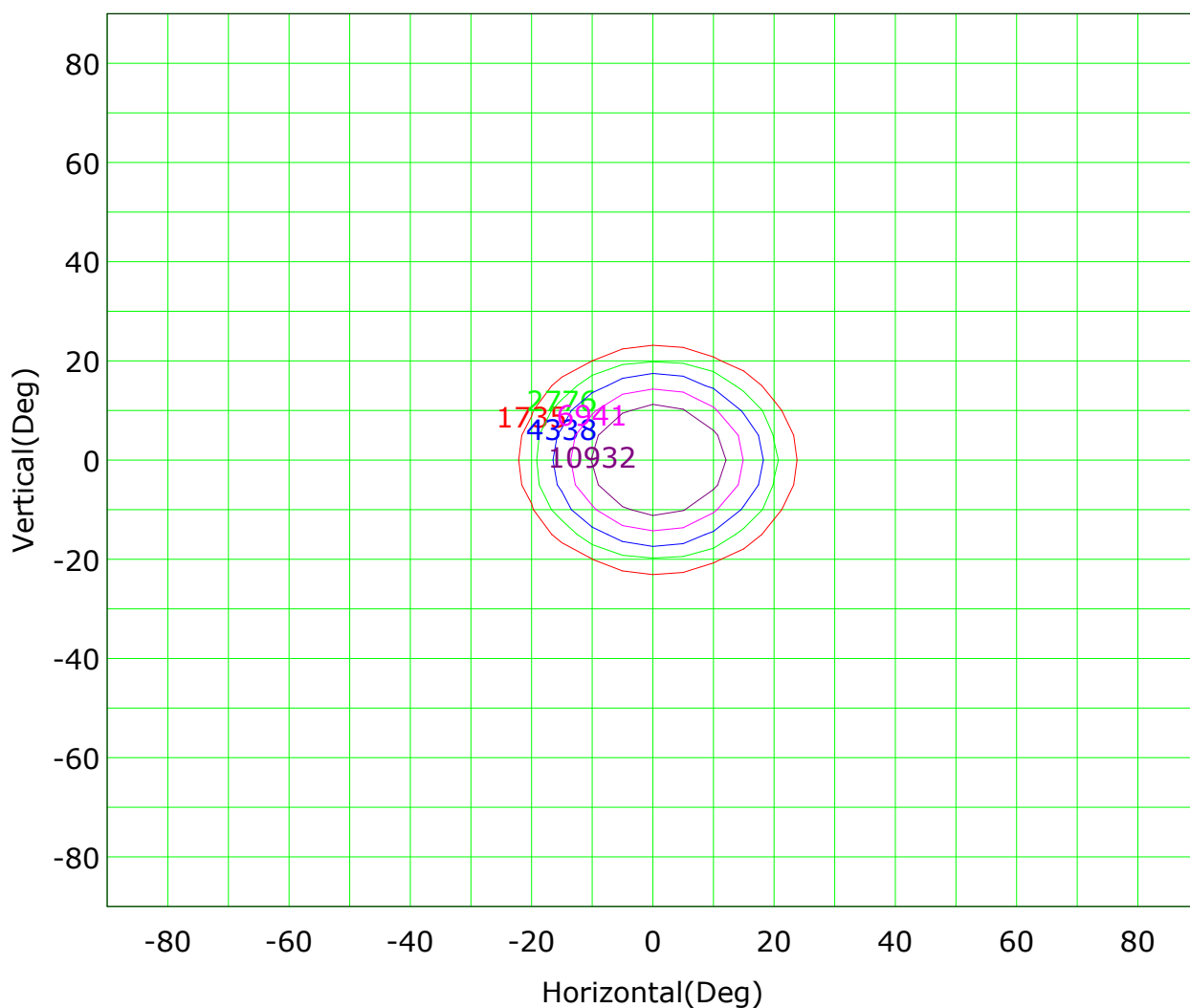
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



Isocandela (rectangle)



Imax (100%): 17353 cd

(10%): 1735 cd	(16%): 2776 cd
(25%): 4338 cd	(40%): 6941 cd
(63%): 10932 cd	(100%): 17353 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

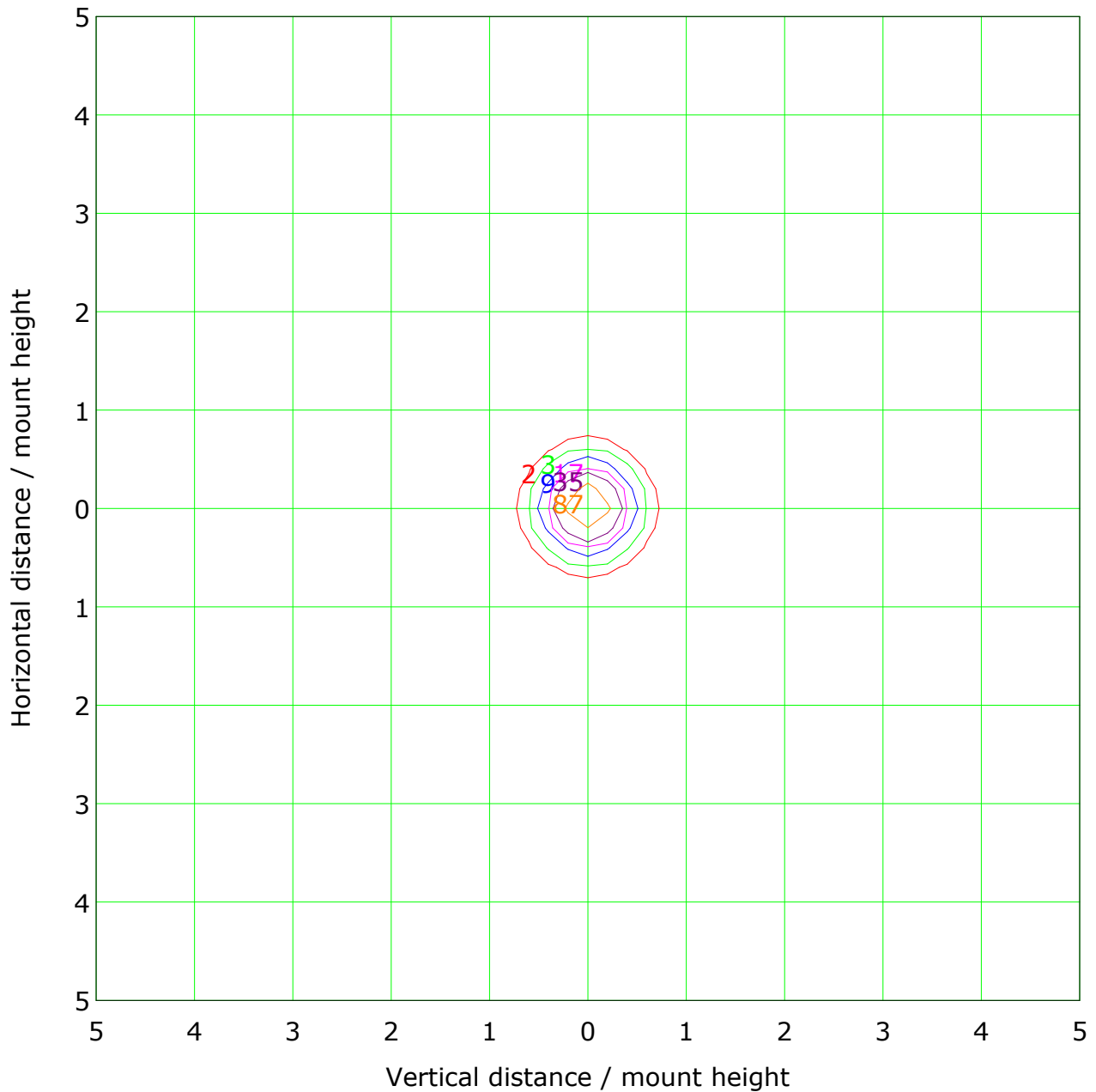
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 173.5 lx

(1%): 1.7 lx	(2%): 3.5 lx
(5%): 8.7 lx	(10%): 17.3 lx
(20%): 34.7 lx	(50%): 86.7 lx
(100%): 173.5 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

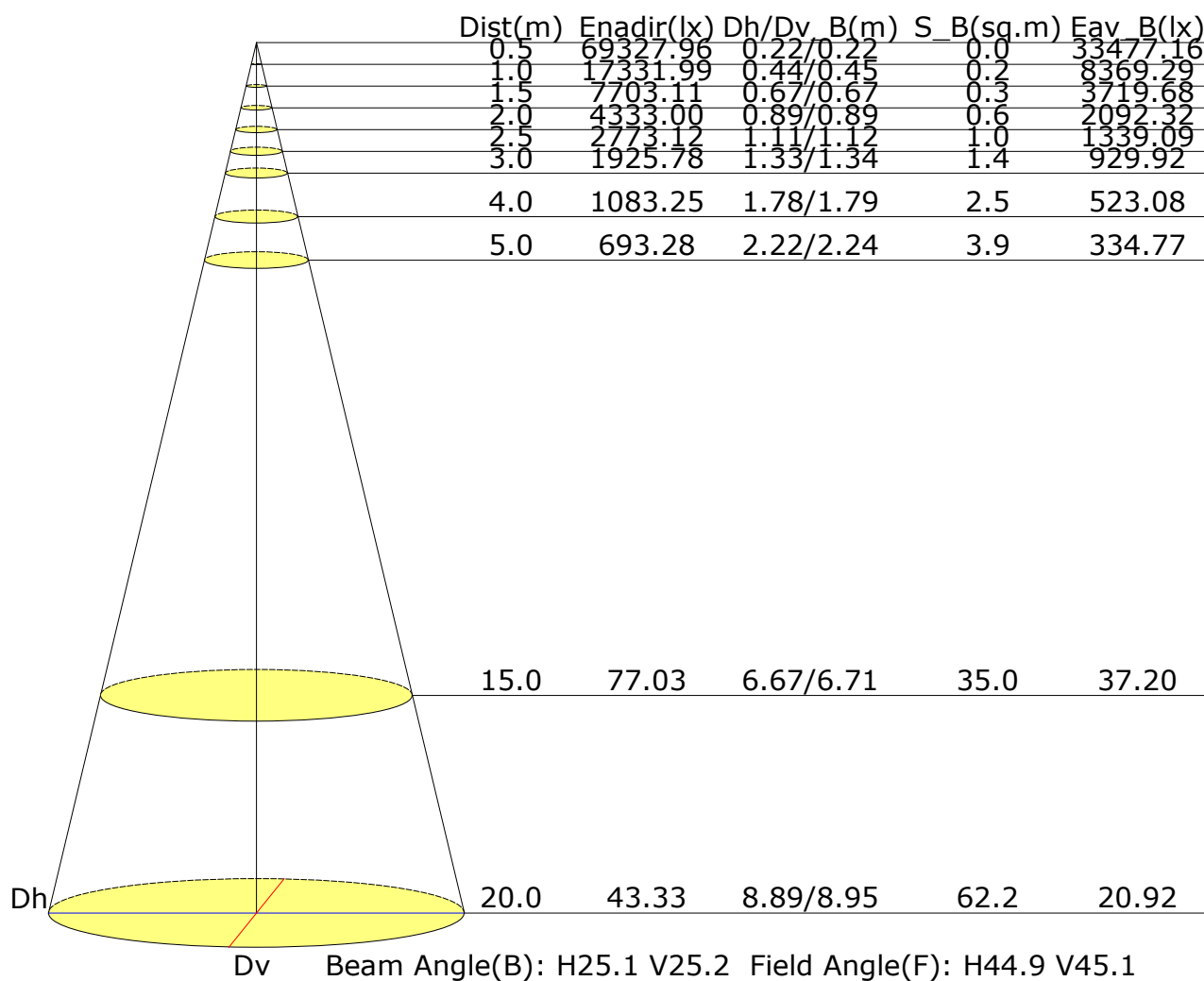
Test Device: CHL-6E

Distance: 3.010 m

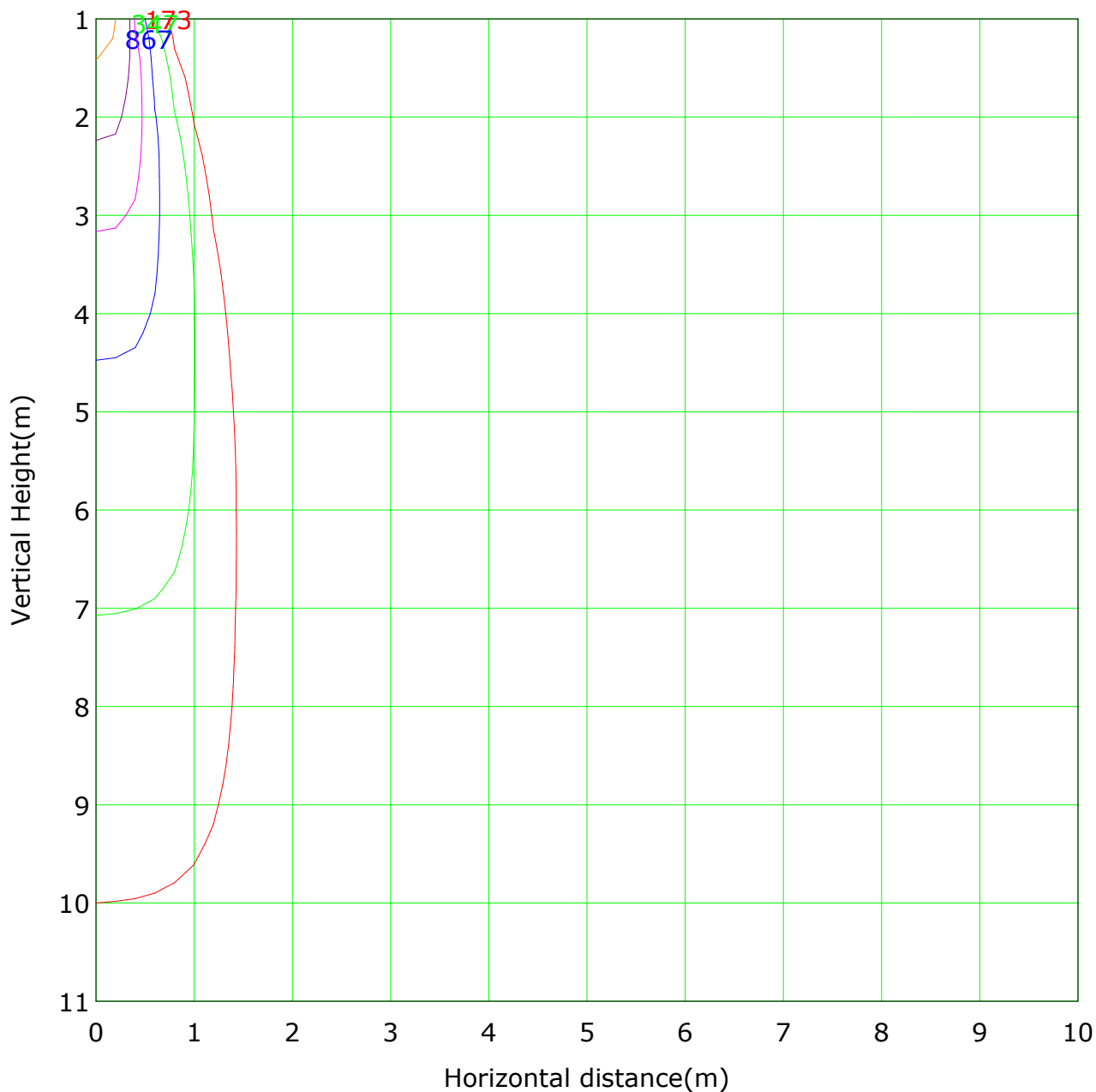
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 17332.0 lx
— (1%): 173.3 lx — (2%): 346.6 lx
— (5%): 866.6 lx — (10%): 1733.2 lx
— (20%): 3466.4 lx — (50%): 8666.0 lx
— (100%): 17332.0 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:

Area Flux Table

Unit: lm

		Vertical plane																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal plane	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.4	2.7
	-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	2.0	2.0	1.6	1.0	0.6	0.3	0.1	0.0	0.0	11.2	40.6
	-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.1	8.3	8.3	6.1	3.5	1.6	0.6	0.3	0.0	0.0	40.6	146.9
	-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	21.3	37.2	37.2	21.3	9.4	3.7	1.3	0.5	0.1	0.0	32.1	146.9
	-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3	76.0	182.9	182.9	76.0	21.8	6.8	2.1	0.6	0.1	0.0	494.6	146.9
	-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.0	173.5	426.5	426.5	173.5	36.8	9.2	2.7	0.7	0.2	0.0	612.7	146.9
	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	173.5	163.7	342.6	342.6	163.7	35.5	9.1	2.6	0.7	0.2	0.0	520.0	146.9
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	342.6	145.6	514.5	514.5	145.6	19.9	6.5	2.0	0.6	0.1	0.0	559.1	146.9
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	514.5	29.1	65.6	65.6	29.1	8.4	3.5	1.2	0.5	0.1	0.0	11.9	146.9
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.6	6.9	5.3	5.3	6.9	3.2	1.5	0.6	0.3	0.1	0.0	0.0	14.1
	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	1.8	1.5	1.5	1.8	1.0	0.6	0.3	0.1	0.0	0.0	0.0	10.3
	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	2.8
	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
																				Flux(T)	Flux(E)	
																				4058	3403	

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

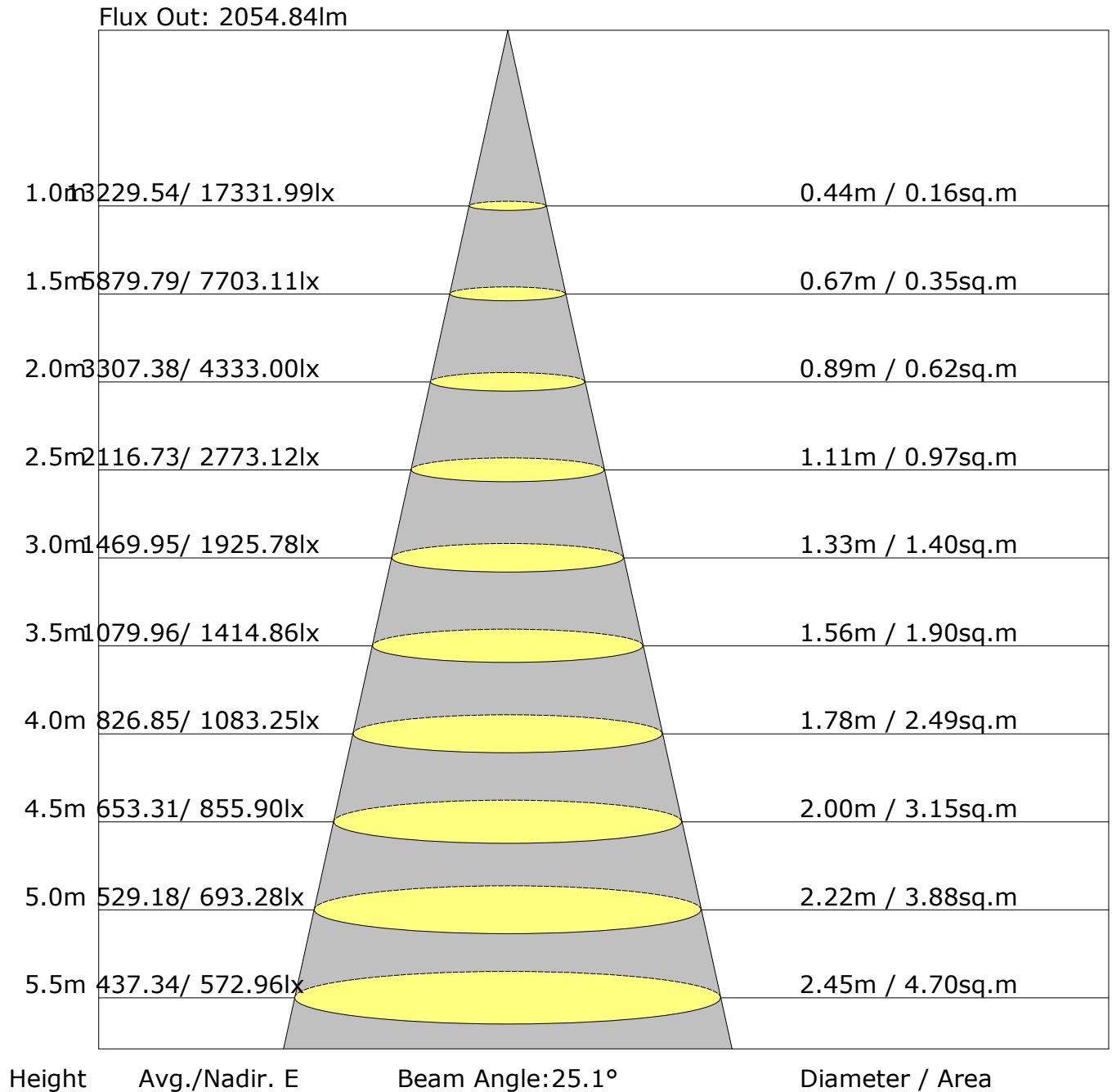
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

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	13.5	14.2	13.8	14.3	14.5	13.9	14.5	14.1	14.7	14.9
3H	13.4	14.0	13.7	14.2	14.4	13.7	14.3	14.0	14.5	14.8
4H	13.3	13.9	13.6	14.1	14.4	13.7	14.2	14.0	14.4	14.7
6H	13.3	13.8	13.6	14.0	14.3	13.6	14.1	13.9	14.4	14.6
8H	13.2	13.7	13.6	14.0	14.3	13.5	14.0	13.9	14.3	14.6
12H	13.2	13.6	13.5	13.9	14.3	13.5	14.0	13.9	14.3	14.6
X=4H Y=2H	13.4	13.9	13.7	14.2	14.4	13.7	14.2	14.0	14.5	14.8
3H	13.3	13.7	13.6	14.0	14.3	13.6	14.0	13.9	14.3	14.6
4H	13.2	13.6	13.5	13.9	14.3	13.5	13.9	13.9	14.2	14.6
6H	13.1	13.4	13.5	13.8	14.2	13.4	13.8	13.8	14.1	14.5
8H	13.0	13.4	13.5	13.8	14.2	13.3	13.7	13.8	14.1	14.5
12H	13.0	13.3	13.4	13.7	14.1	13.3	13.6	13.7	14.0	14.4
X=8H Y=4H	13.0	13.4	13.5	13.8	14.2	13.3	13.7	13.8	14.1	14.5
6H	12.9	13.2	13.4	13.6	14.1	13.2	13.5	13.7	13.9	14.4
8H	12.9	13.1	13.4	13.6	14.0	13.2	13.4	13.7	13.9	14.4
12H	12.8	13.0	13.3	13.5	14.0	13.1	13.4	13.6	13.8	14.3
X=12H Y=4H	13.0	13.3	13.4	13.7	14.1	13.3	13.6	13.7	14.0	14.4
6H	12.9	13.1	13.4	13.6	14.0	13.2	13.4	13.7	13.9	14.4
8H	12.8	13.0	13.3	13.5	14.0	13.1	13.4	13.6	13.8	14.3
Variations with the observer position at spacings:										
S=1.0H	+3.9/-6.3					+4.1/-6.7				
S=1.5H	+6.5/-8.5					+6.7/-8.8				
S=2.0H	+8.4/-1.\$					+8.7/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 4061lm ($8\log(F/F_0) = 4.9$).

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	1930	47.5
	FL (0°-30°)	1790	44.1
	FM (30°-60°)	137	3.4
	FH (60°-80°)	3	0.1
	FVH (80°-90°)	0	0.0
	BACK LIGHT	2131	52.5
	BL (0°-30°)	1979	48.7
	BM (30°-60°)	149	3.7
	BH (60°-80°)	3	0.1
	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	17327.5	16.6	16.6	0.41	0.41
1.0-2.0	17300.3	49.7	66.2	1.22	1.63
2.0-3.0	17235.5	82.4	148.7	2.03	3.66
3.0-4.0	17126.6	114.7	263.3	2.82	6.49
4.0-5.0	16949.4	145.8	409.2	3.59	10.08
5.0-6.0	16664.9	175.2	584.3	4.31	14.39
6.0-7.0	16206.9	201.2	785.5	4.95	19.34
7.0-8.0	15500.6	221.9	1007.4	5.46	24.81
8.0-9.0	14506.3	235.1	1242.5	5.79	30.60
9.0-10.0	13231.5	239.5	1482.0	5.90	36.50
10.0-11.0	11756.7	234.9	1717.0	5.79	42.28
11.0-12.0	10239.6	223.9	1940.8	5.51	47.79
12.0-13.0	8816.4	209.3	2150.1	5.15	52.95
13.0-14.0	7562.4	193.6	2343.7	4.77	57.72
14.0-15.0	6489.3	178.2	2521.8	4.39	62.10
15.0-16.0	5559.1	162.9	2684.8	4.01	66.11
16.0-17.0	4741.2	147.7	2832.4	3.64	69.75
17.0-18.0	4024.7	132.7	2965.1	3.27	73.02
18.0-19.0	3407.7	118.6	3083.7	2.92	75.94
19.0-20.0	2879.6	105.4	3189.1	2.60	78.54
20.0-21.0	2430.7	93.3	3282.5	2.30	80.83
21.0-22.0	2054.6	82.6	3365.0	2.03	82.87
22.0-23.0	1745.1	73.2	3438.3	1.80	84.67
23.0-24.0	1490.3	65.2	3503.5	1.60	86.28
24.0-25.0	1277.7	58.1	3561.6	1.43	87.71
25.0-26.0	1097.9	51.8	3613.4	1.28	88.98
26.0-27.0	944.9	46.2	3659.6	1.14	90.12
27.0-28.0	811.1	41.1	3700.7	1.01	91.13
28.0-29.0	694.3	36.3	3737.0	0.89	92.03
29.0-30.0	595.1	32.1	3769.2	0.79	92.82
30.0-31.0	513.7	28.6	3797.8	0.70	93.52
31.0-32.0	449.3	25.7	3823.5	0.63	94.16
32.0-33.0	398.0	23.5	3847.0	0.58	94.73
33.0-34.0	354.7	21.5	3868.4	0.53	95.26
34.0-35.0	316.2	19.6	3888.1	0.48	95.75
35.0-36.0	283.1	18.0	3906.1	0.44	96.19

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	253.3	16.5	3922.6	0.41	96.60
37.0-38.0	226.1	15.1	3937.7	0.37	96.97
38.0-39.0	201.6	13.8	3951.5	0.34	97.31
39.0-40.0	177.5	12.4	3963.9	0.30	97.61
40.0-41.0	153.8	11.0	3974.8	0.27	97.88
41.0-42.0	134.2	9.7	3984.6	0.24	98.12
42.0-43.0	118.7	8.8	3993.4	0.22	98.34
43.0-44.0	103.3	7.8	4001.1	0.19	98.53
44.0-45.0	88.6	6.8	4008.0	0.17	98.70
45.0-46.0	78.4	6.1	4014.1	0.15	98.85
46.0-47.0	70.1	5.6	4019.7	0.14	98.99
47.0-48.0	61.4	5.0	4024.6	0.12	99.11
48.0-49.0	53.1	4.4	4029.0	0.11	99.22
49.0-50.0	46.7	3.9	4032.9	0.10	99.31
50.0-51.0	41.1	3.5	4036.4	0.09	99.40
51.0-52.0	35.8	3.1	4039.4	0.08	99.48
52.0-53.0	31.7	2.8	4042.2	0.07	99.54
53.0-54.0	27.5	2.4	4044.6	0.06	99.60
54.0-55.0	24.1	2.2	4046.8	0.05	99.66
55.0-56.0	21.1	1.9	4048.7	0.05	99.70
56.0-57.0	18.8	1.7	4050.4	0.04	99.75
57.0-58.0	18.5	1.7	4052.1	0.04	99.79
58.0-59.0	17.7	1.7	4053.8	0.04	99.83
59.0-60.0	15.5	1.5	4055.2	0.04	99.86
60.0-61.0	14.3	1.4	4056.6	0.03	99.90
61.0-62.0	13.2	1.3	4057.9	0.03	99.93
62.0-63.0	11.3	1.1	4059.0	0.03	99.96
63.0-64.0	9.0	0.9	4059.9	0.02	99.98
64.0-65.0	6.0	0.6	4060.5	0.01	99.99
65.0-66.0	2.6	0.3	4060.7	0.01	100.00
66.0-67.0	0.4	0.0	4060.8	0.00	100.00
67.0-68.0	0.0	0.0	4060.8	0.00	100.00
68.0-69.0	0.0	0.0	4060.8	0.00	100.00
69.0-70.0	0.0	0.0	4060.8	0.00	100.00
70.0-71.0	0.0	0.0	4060.8	0.00	100.00
71.0-72.0	0.0	0.0	4060.8	0.00	100.00

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:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	17332.0	17332.0								
G1.0	17292.8	17353.1								
G2.0	17241.5	17313.9								
G3.0	17137.5	17249.1								
G4.0	16947.5	17172.2								
G5.0	16630.9	17047.0								
G6.0	16148.5	16833.0								
G7.0	15376.6	16469.6								
G8.0	14259.4	15896.7								
G9.0	12806.0	15063.0								
G10.0	11146.1	13911.1								
G11.0	9508.8	12460.8								
G12.0	8117.2	10871.7								
G13.0	6959.3	9317.3								
G14.0	6008.0	7964.9								
G15.0	5165.2	6819.1								
G16.0	4402.4	5849.7								
G17.0	3716.4	4996.4								
G18.0	3141.9	4244.0								
G19.0	2661.0	3583.7								
G20.0	2246.4	3027.4								
G21.0	1902.7	2546.4								
G22.0	1613.2	2155.9								
G23.0	1378.0	1833.3								
G24.0	1183.5	1566.4								
G25.0	1020.7	1340.3								
G26.0	880.5	1150.3								
G27.0	759.9	989.0								
G28.0	649.8	845.8								
G29.0	557.8	723.7								
G30.0	482.5	616.6								
G31.0	425.2	530.7								
G32.0	376.9	464.4								
G33.0	337.7	413.1								
G34.0	303.0	364.9								
G35.0	271.4	325.6								
G36.0	245.8	289.5								

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	220.1	257.8								
G38.0	197.5	229.2								
G39.0	174.9	205.0								
G40.0	149.3	180.9								
G41.0	132.7	152.3								
G42.0	119.1	132.7								
G43.0	104.0	119.1								
G44.0	88.9	101.0								
G45.0	78.4	85.9								
G46.0	70.9	78.4								
G47.0	61.8	69.3								
G48.0	54.3	60.3								
G49.0	46.7	51.3								
G50.0	42.2	46.7								
G51.0	36.2	39.2								
G52.0	31.7	36.2								
G53.0	30.1	28.6								
G54.0	24.1	27.1								
G55.0	22.6	22.6								
G56.0	19.6	19.6								
G57.0	19.6	16.6								
G58.0	19.6	18.1								
G59.0	18.1	15.1								
G60.0	15.1	13.6								
G61.0	13.6	15.1								
G62.0	12.1	12.1								
G63.0	10.6	10.6								
G64.0	7.5	7.5								
G65.0	4.5	4.5								
G66.0	0.0	1.5								
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:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Unit: cd

Inspector: