

Report No.:

Test Time: 2025-09-30 11:30

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 24D

Luminous Width (mm): -50

Current: 0.070 A

Power Factor: 0.550

Luminous Length (mm): -50

Voltage: 227.4 V

Power: 8.80 W

Photometric Results

CIE Class: Direct

Measurement Flux: 605.9 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H22.2

Vertical Diffuse Angle(50%): V22.2

Luminaire Efficacy Rating (LER): 68.90

Max. Intensity: 3528.09 cd

S/MH(C0/C180): 0.38

Total Rated Lamp Lumens: 605.9 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 3469.48 cd

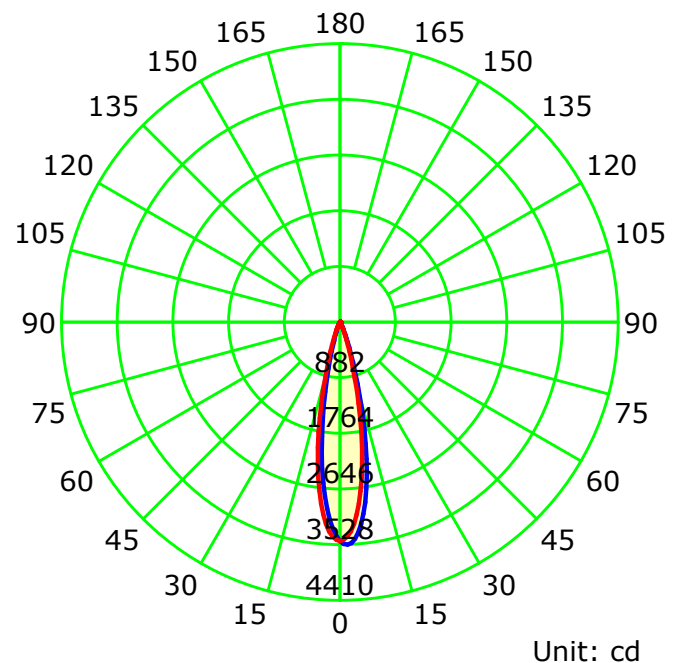
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.38

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

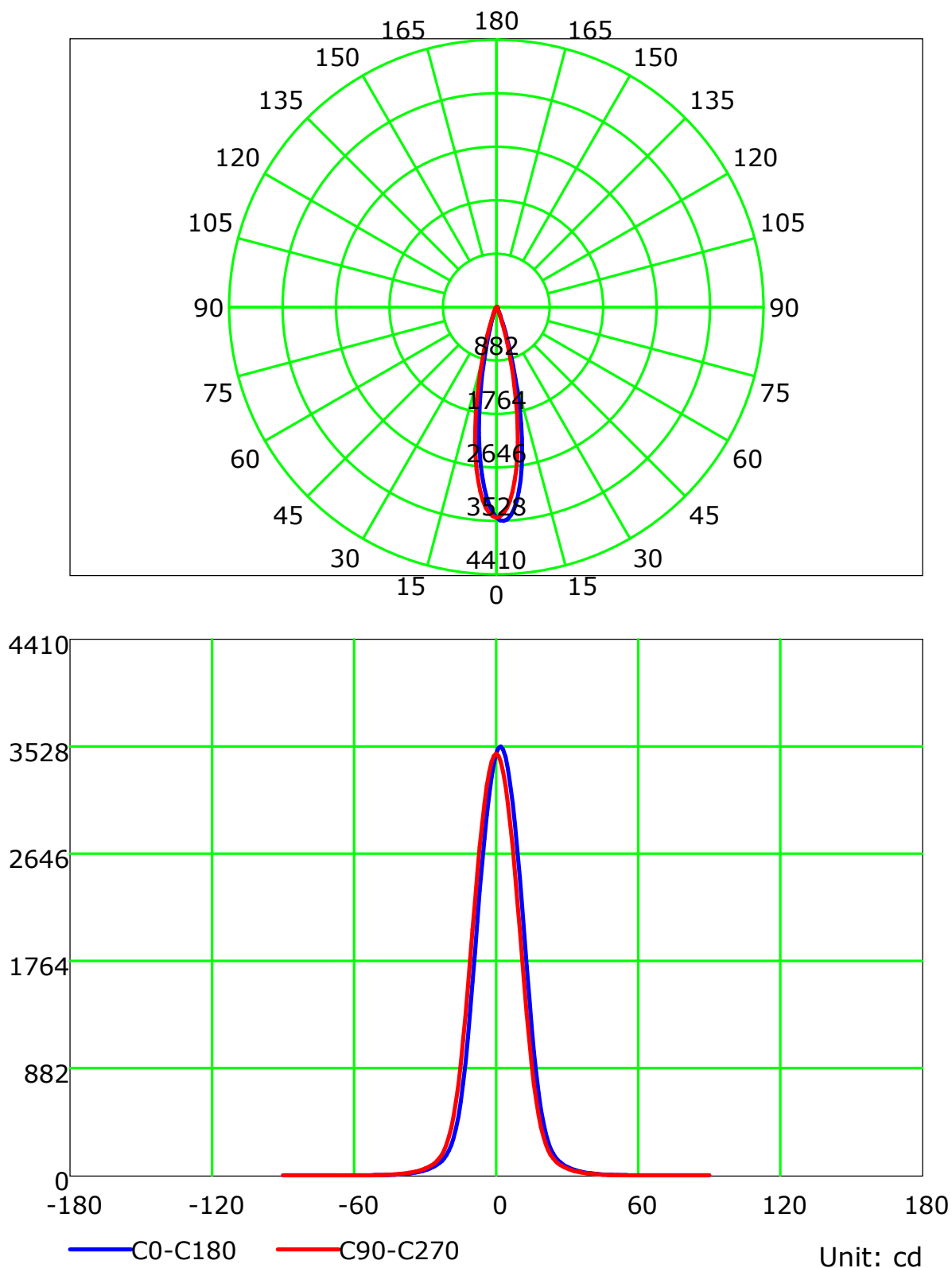
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

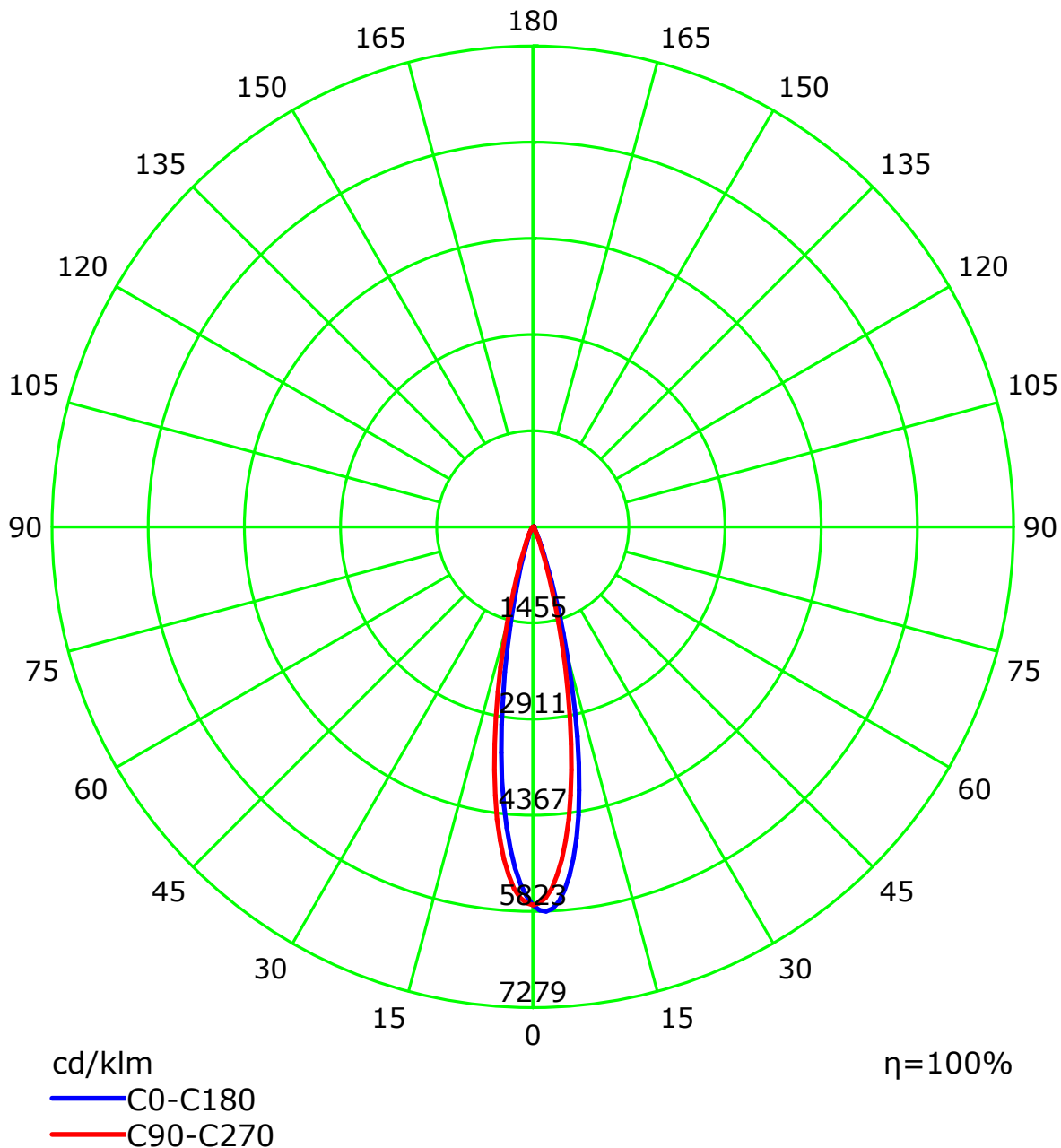
Luminous Intensity Distribution Curve



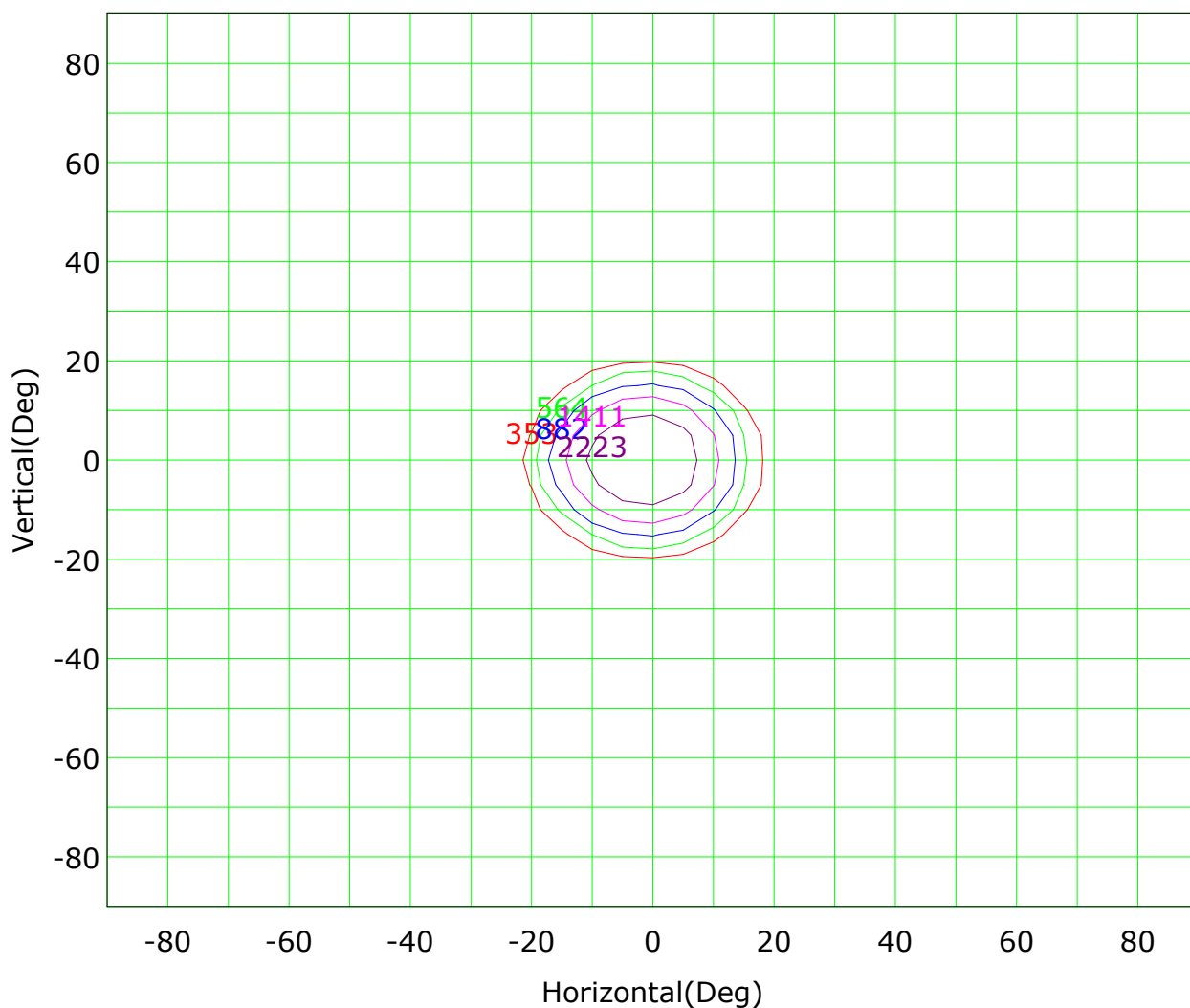
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



Isocandela (rectangle)



Imax (100%): 3528 cd

(10%): 353 cd	(16%): 564 cd
(25%): 882 cd	(40%): 1411 cd
(63%): 2223 cd	(100%): 3528 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

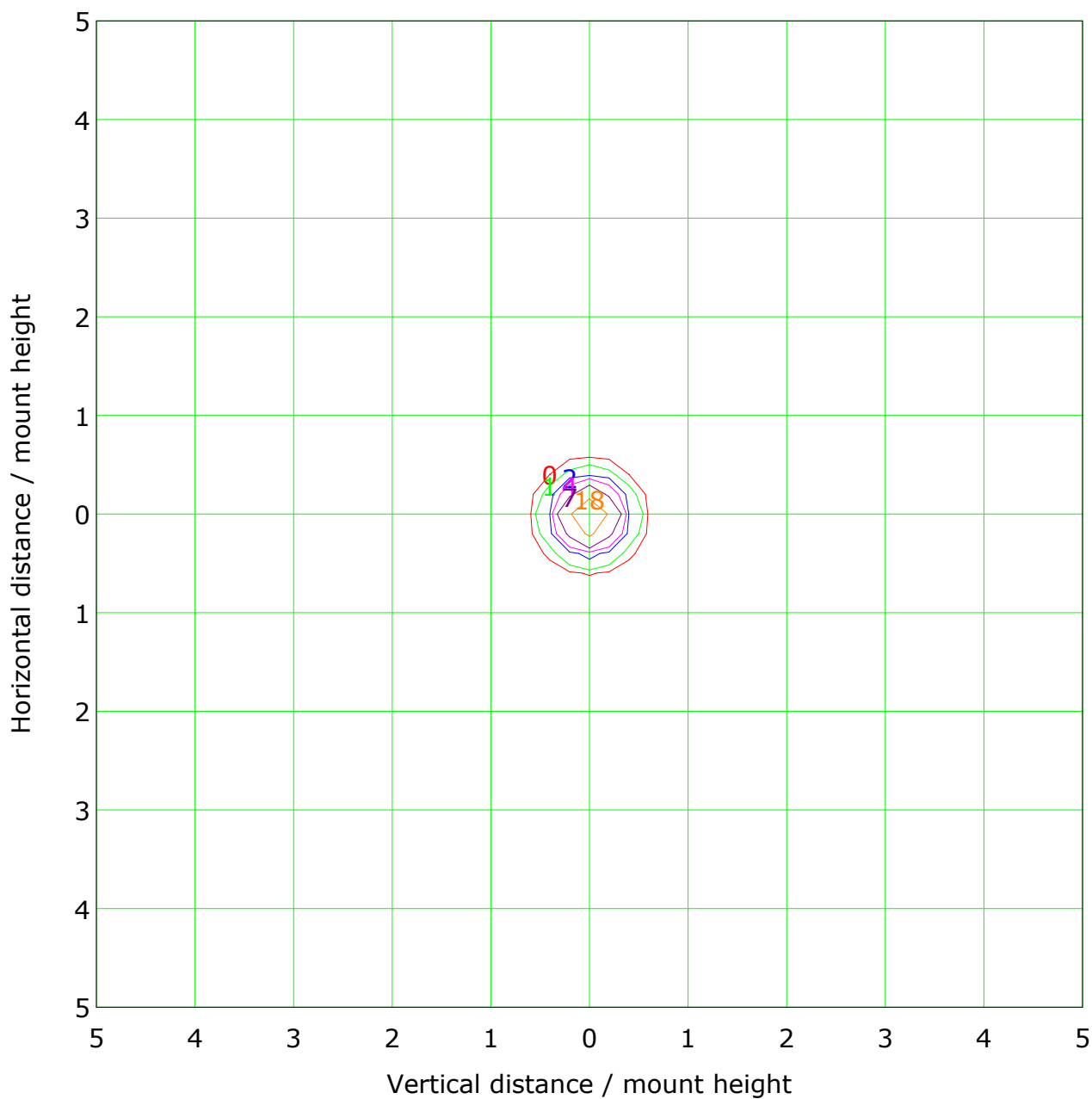
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 35.2 lx

(1%): 0.4 lx	(2%): 0.7 lx
(5%): 1.8 lx	(10%): 3.5 lx
(20%): 7.0 lx	(50%): 17.6 lx
(100%): 35.2 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

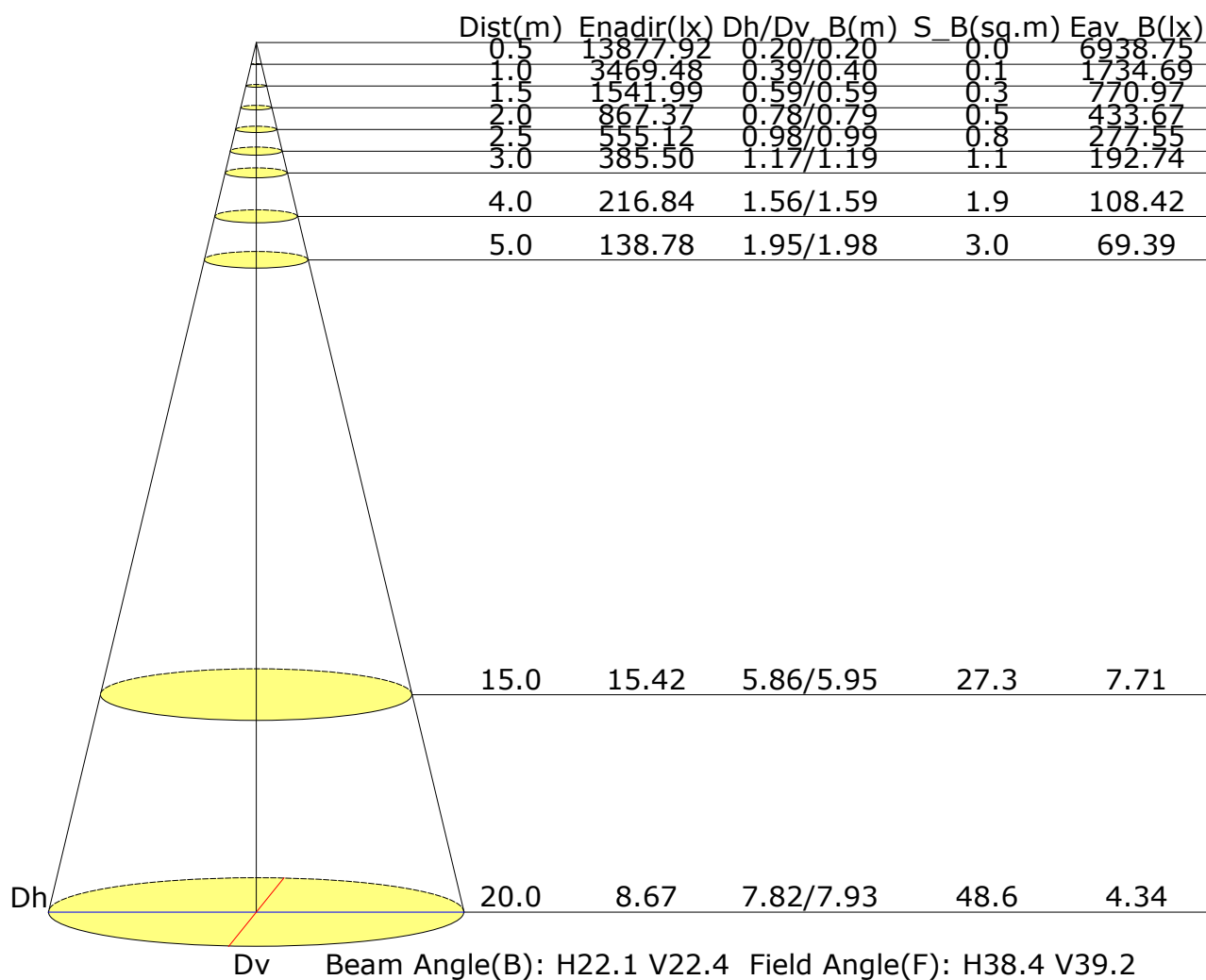
Test Device: CHL-6E

Distance: 2.905 m

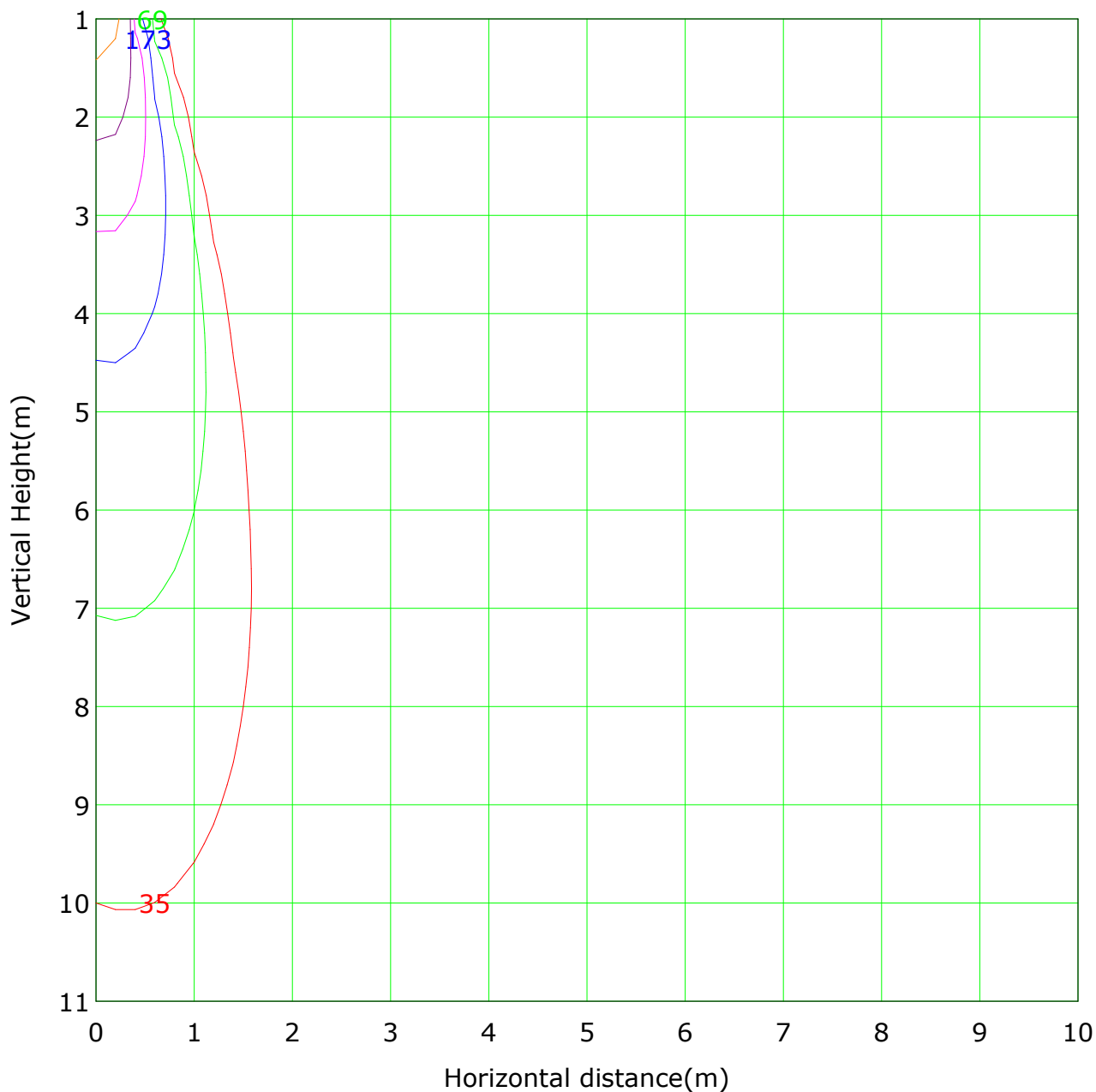
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3469.5 lx
— (1%): 34.7 lx — (2%): 69.4 lx
— (5%): 173.5 lx — (10%): 346.9 lx
— (20%): 693.9 lx — (50%): 1734.7 lx
— (100%): 3469.5 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: 2.905 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	-60	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
	-50	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	0.2	0.0
	-40	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	1.0	0.0
	-30	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	3.8	0.0
	-20	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	14.3	0.0
	-10	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	73.7	57.6
	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	209.6	198.5
	10	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	209.6	198.5
	20	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	73.7	57.6
	30	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	14.3	0.0
	40	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	3.8	0.0
	50	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	1.0	0.0
	60	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	0.2	0.0
	70	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
	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)	0.0	0.0	0.0	0.0	0.1	0.6	2.7	10.7	56.9	197.5	226.3	88.9	16.4	4.0	0.9	0.2	0.0	0.0	0.0	605	
	Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	184.9	214.3	73.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0		512

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

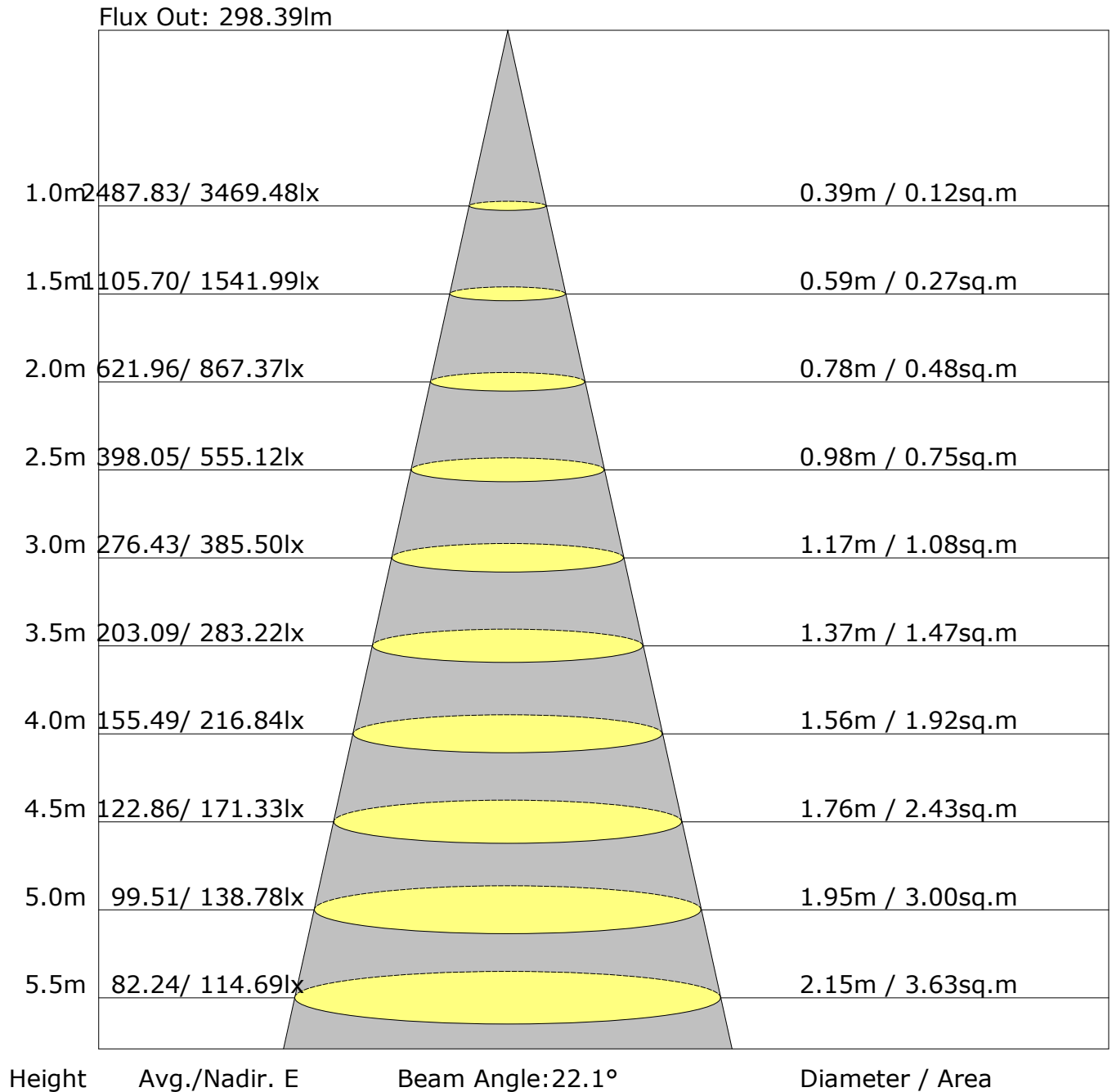
Test Device: CHL-6E

Distance: 2.905 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: 2.905 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	8.4	9.0	8.6	9.1	9.3	7.5	8.0	7.7	8.2	8.4
3H	8.3	8.8	8.5	9.0	9.2	7.3	7.8	7.6	8.1	8.3
4H	8.2	8.7	8.5	8.9	9.2	7.2	7.7	7.5	8.0	8.2
6H	8.1	8.6	8.4	8.8	9.1	7.2	7.6	7.5	7.9	8.2
8H	8.1	8.5	8.4	8.8	9.1	7.1	7.6	7.5	7.9	8.2
12H	8.0	8.5	8.4	8.8	9.1	7.1	7.5	7.4	7.8	8.1
X=4H Y=2H	8.2	8.7	8.5	8.9	9.2	7.3	7.8	7.6	8.0	8.3
3H	8.1	8.5	8.4	8.8	9.1	7.1	7.5	7.5	7.8	8.1
4H	8.0	8.3	8.3	8.7	9.0	7.0	7.4	7.4	7.7	8.1
6H	7.9	8.2	8.3	8.6	9.0	6.9	7.3	7.3	7.6	8.0
8H	7.8	8.1	8.2	8.5	8.9	6.9	7.2	7.3	7.6	8.0
12H	7.8	8.1	8.2	8.5	8.9	6.8	7.1	7.3	7.5	7.9
X=8H Y=4H	7.8	8.1	8.2	8.5	8.9	6.9	7.2	7.3	7.6	8.0
6H	7.7	8.0	8.2	8.4	8.9	6.8	7.0	7.2	7.5	7.9
8H	7.7	7.9	8.1	8.3	8.8	6.7	7.0	7.2	7.4	7.9
12H	7.6	7.8	8.1	8.3	8.8	6.7	6.9	7.2	7.3	7.8
X=12H Y=4H	7.8	8.1	8.2	8.5	8.9	6.8	7.1	7.3	7.5	7.9
6H	7.7	7.9	8.1	8.3	8.8	6.7	7.0	7.2	7.4	7.9
8H	7.6	7.8	8.1	8.3	8.8	6.7	6.9	7.2	7.3	7.8
Variations with the observer position at spacings:										
S=1.0H	+4.9/-8.8					+4.8/-9.4				
S=1.5H	+7.7/-15.5					+7.5/-16.4				
S=2.0H	+9.7/-21.8					+9.5/-24.6				

Calculate in accordance with CIE Pub.117. The table is revised with 606lm ($8\log(F/F_0) = -1.7$).

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: 2.905 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	337	55.6
	FL (0°-30°)	323	53.3
	FM (30°-60°)	14	2.3
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	269	44.4
	BL (0°-30°)	258	42.6
	BM (30°-60°)	11	1.8
	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)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U0 G0

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
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Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	3460.8	3.3	3.3	0.55	0.55
1.0-2.0	3427.7	9.8	13.2	1.62	2.17
2.0-3.0	3362.1	16.1	29.2	2.65	4.83
3.0-4.0	3262.3	21.8	51.1	3.60	8.43
4.0-5.0	3130.9	26.9	78.0	4.45	12.88
5.0-6.0	2975.3	31.3	109.3	5.16	18.04
6.0-7.0	2797.0	34.7	144.0	5.73	23.77
7.0-8.0	2593.9	37.1	181.1	6.13	29.90
8.0-9.0	2371.4	38.4	219.6	6.34	36.24
9.0-10.0	2139.0	38.7	258.3	6.39	42.63
10.0-11.0	1902.7	38.0	296.3	6.28	48.91
11.0-12.0	1667.1	36.4	332.8	6.02	54.92
12.0-13.0	1437.8	34.1	366.9	5.63	60.56
13.0-14.0	1219.3	31.2	398.1	5.15	65.71
14.0-15.0	1016.4	27.9	426.0	4.61	70.31
15.0-16.0	835.3	24.5	450.5	4.04	74.36
16.0-17.0	679.9	21.2	471.7	3.50	77.85
17.0-18.0	550.4	18.2	489.8	3.00	80.85
18.0-19.0	443.4	15.4	505.2	2.55	83.39
19.0-20.0	355.9	13.0	518.3	2.15	85.54
20.0-21.0	286.9	11.0	529.3	1.82	87.36
21.0-22.0	232.6	9.3	538.6	1.54	88.91
22.0-23.0	190.2	8.0	546.6	1.32	90.22
23.0-24.0	157.3	6.9	553.5	1.14	91.36
24.0-25.0	131.7	6.0	559.5	0.99	92.35
25.0-26.0	111.2	5.2	564.7	0.87	93.21
26.0-27.0	94.6	4.6	569.4	0.76	93.98
27.0-28.0	81.4	4.1	573.5	0.68	94.66
28.0-29.0	70.5	3.7	577.2	0.61	95.27
29.0-30.0	61.2	3.3	580.5	0.55	95.81
30.0-31.0	53.0	2.9	583.4	0.49	96.30
31.0-32.0	45.8	2.6	586.0	0.43	96.73
32.0-33.0	39.7	2.3	588.4	0.39	97.12
33.0-34.0	34.7	2.1	590.5	0.35	97.46
34.0-35.0	30.2	1.9	592.4	0.31	97.77
35.0-36.0	26.1	1.7	594.0	0.27	98.05

C Plane (°):0.0-180.0: 180.0
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 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	22.6	1.5	595.5	0.24	98.29
37.0-38.0	19.6	1.3	596.8	0.22	98.51
38.0-39.0	17.1	1.2	598.0	0.19	98.70
39.0-40.0	14.8	1.0	599.0	0.17	98.87
40.0-41.0	12.7	0.9	599.9	0.15	99.02
41.0-42.0	10.8	0.8	600.7	0.13	99.15
42.0-43.0	9.2	0.7	601.4	0.11	99.26
43.0-44.0	7.9	0.6	602.0	0.10	99.36
44.0-45.0	6.7	0.5	602.5	0.09	99.45
45.0-46.0	5.7	0.4	602.9	0.07	99.52
46.0-47.0	4.8	0.4	603.3	0.06	99.58
47.0-48.0	4.2	0.3	603.7	0.06	99.64
48.0-49.0	3.7	0.3	604.0	0.05	99.69
49.0-50.0	3.4	0.3	604.2	0.05	99.73
50.0-51.0	2.9	0.2	604.5	0.04	99.78
51.0-52.0	2.5	0.2	604.7	0.04	99.81
52.0-53.0	2.1	0.2	604.9	0.03	99.84
53.0-54.0	1.8	0.2	605.1	0.03	99.87
54.0-55.0	1.6	0.1	605.2	0.02	99.89
55.0-56.0	1.4	0.1	605.3	0.02	99.91
56.0-57.0	1.2	0.1	605.4	0.02	99.93
57.0-58.0	0.9	0.1	605.5	0.01	99.95
58.0-59.0	0.8	0.1	605.6	0.01	99.96
59.0-60.0	0.7	0.1	605.7	0.01	99.97
60.0-61.0	0.5	0.1	605.7	0.01	99.98
61.0-62.0	0.5	0.0	605.7	0.01	99.98
62.0-63.0	0.3	0.0	605.8	0.01	99.99
63.0-64.0	0.2	0.0	605.8	0.00	99.99
64.0-65.0	0.1	0.0	605.8	0.00	99.99
65.0-66.0	0.1	0.0	605.8	0.00	100.00
66.0-67.0	0.1	0.0	605.8	0.00	100.00
67.0-68.0	0.1	0.0	605.8	0.00	100.00
68.0-69.0	0.1	0.0	605.9	0.00	100.00
69.0-70.0	0.0	0.0	605.9	0.00	100.00
70.0-71.0	0.0	0.0	605.9	0.00	100.00
71.0-72.0	0.0	0.0	605.9	0.00	100.00

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Gamma Plane (°):0.0-90.0:1.0
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	3469.5	3469.5								
G1.0	3516.1	3388.4								
G2.0	3528.1	3278.4								
G3.0	3504.9	3136.9								
G4.0	3444.0	2963.4								
G5.0	3345.2	2771.2								
G6.0	3217.2	2567.7								
G7.0	3062.5	2340.5								
G8.0	2882.8	2089.9								
G9.0	2677.0	1835.8								
G10.0	2452.9	1590.3								
G11.0	2211.7	1355.7								
G12.0	1967.2	1133.8								
G13.0	1719.3	931.0								
G14.0	1468.8	758.0								
G15.0	1230.7	608.3								
G16.0	1017.8	484.4								
G17.0	829.9	387.5								
G18.0	673.0	311.3								
G19.0	539.5	249.9								
G20.0	430.9	203.5								
G21.0	345.0	168.1								
G22.0	276.8	140.7								
G23.0	224.0	119.2								
G24.0	183.6	102.5								
G25.0	152.4	88.4								
G26.0	127.8	76.1								
G27.0	109.1	65.4								
G28.0	94.4	56.6								
G29.0	81.7	49.2								
G30.0	70.8	43.1								
G31.0	61.1	37.1								
G32.0	52.7	32.2								
G33.0	46.3	27.7								
G34.0	40.6	24.3								
G35.0	34.8	21.1								
G36.0	30.1	18.3								

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: 2.905 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	26.0	15.9								
G38.0	22.5	14.0								
G39.0	19.7	12.0								
G40.0	17.2	10.2								
G41.0	14.8	8.7								
G42.0	12.9	7.0								
G43.0	11.2	5.9								
G44.0	9.4	5.0								
G45.0	7.8	4.6								
G46.0	6.4	3.9								
G47.0	5.6	3.4								
G48.0	4.8	2.9								
G49.0	4.5	2.7								
G50.0	3.9	2.5								
G51.0	3.2	2.1								
G52.0	2.9	1.8								
G53.0	2.4	1.4								
G54.0	2.2	1.1								
G55.0	2.1	0.8								
G56.0	1.8	1.0								
G57.0	1.4	0.7								
G58.0	1.1	0.4								
G59.0	1.1	0.4								
G60.0	0.8	0.3								
G61.0	0.7	0.3								
G62.0	0.7	0.1								
G63.0	0.4	0.1								
G64.0	0.4	0.0								
G65.0	0.1	0.0								
G66.0	0.1	0.0								
G67.0	0.1	0.0								
G68.0	0.3	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: 2.905 m

Humidity:

Inspector:

Unit: cd

Inspector: