

Report No.:

Test Time: 2025-10-10 20:38

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 60D

Luminous Width (mm): -15

Current: 0.127 A

Power Factor: 0.964

Luminous Length (mm): -815

Voltage: 232.9 V

Power: 28.50 W

Photometric Results

CIE Class: Direct

Measurement Flux: 2221.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H48.9

Vertical Diffuse Angle(50%): V48.9

Luminaire Efficacy Rating (LER): 78.00

Max. Intensity: 3384.73 cd

S/MH(C0/C180): 0.79

Total Rated Lamp Lumens: 2221.5 lm

Efficiency: 100%

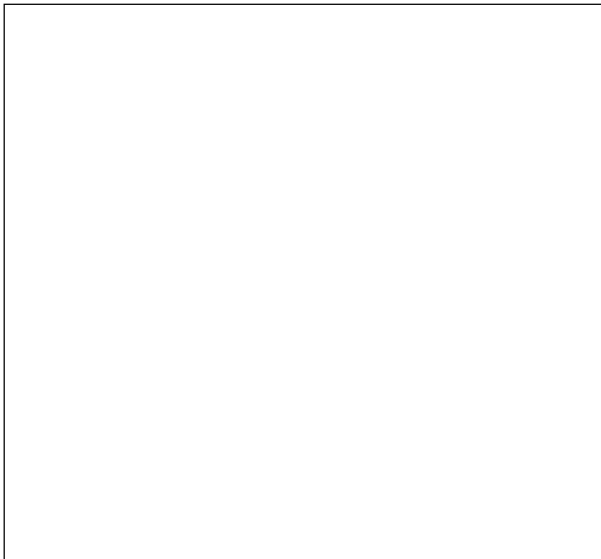
Upward Ratio: 0%

Central Intensity: 3371.45 cd

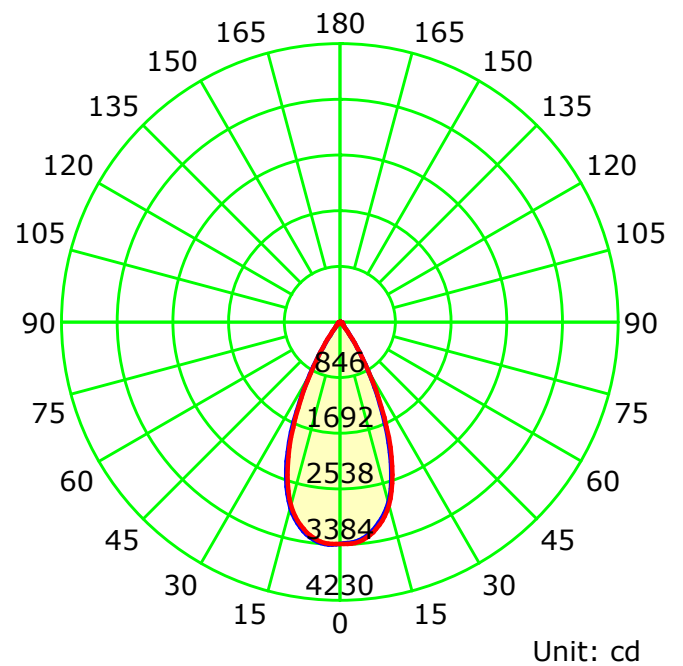
Pos of Max. Intensity: H180 V3

S/MH(C90/C270): 0.79

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

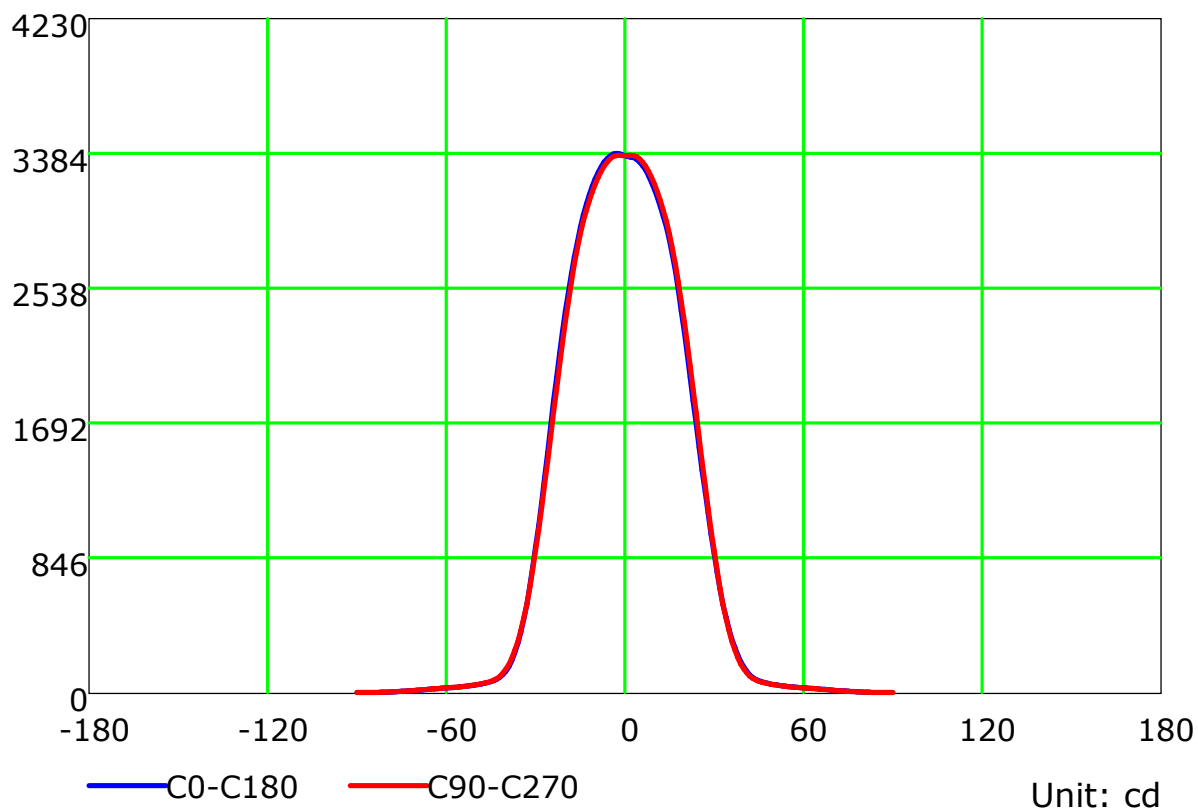
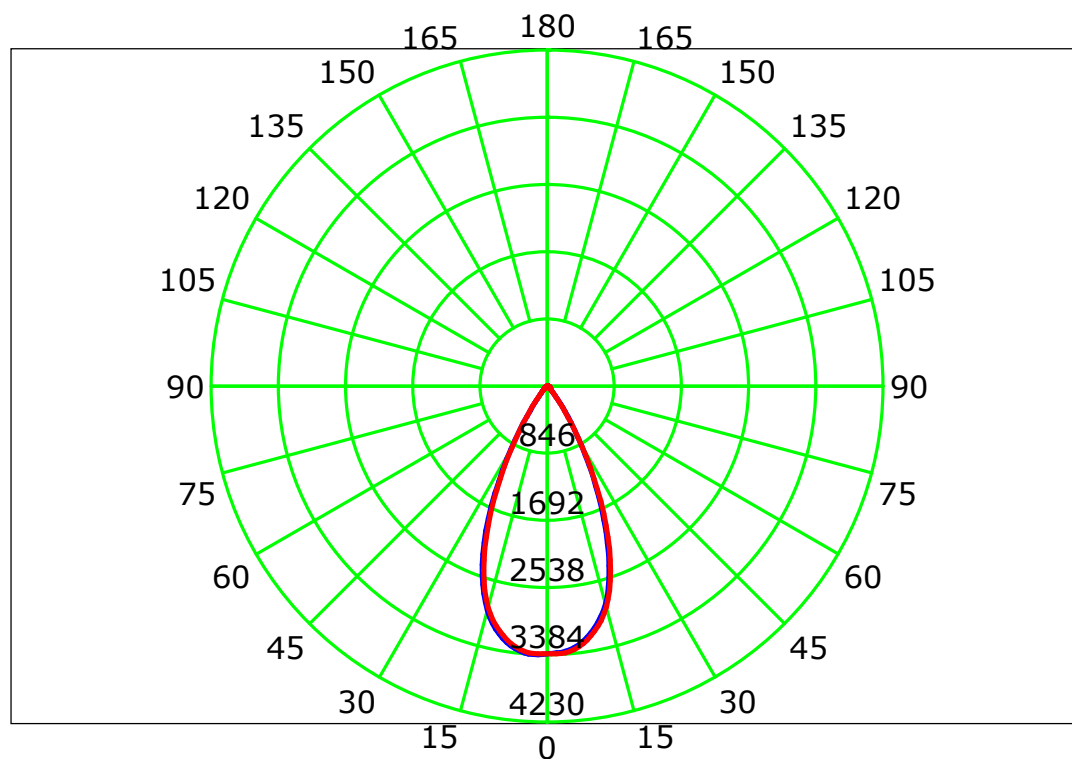
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

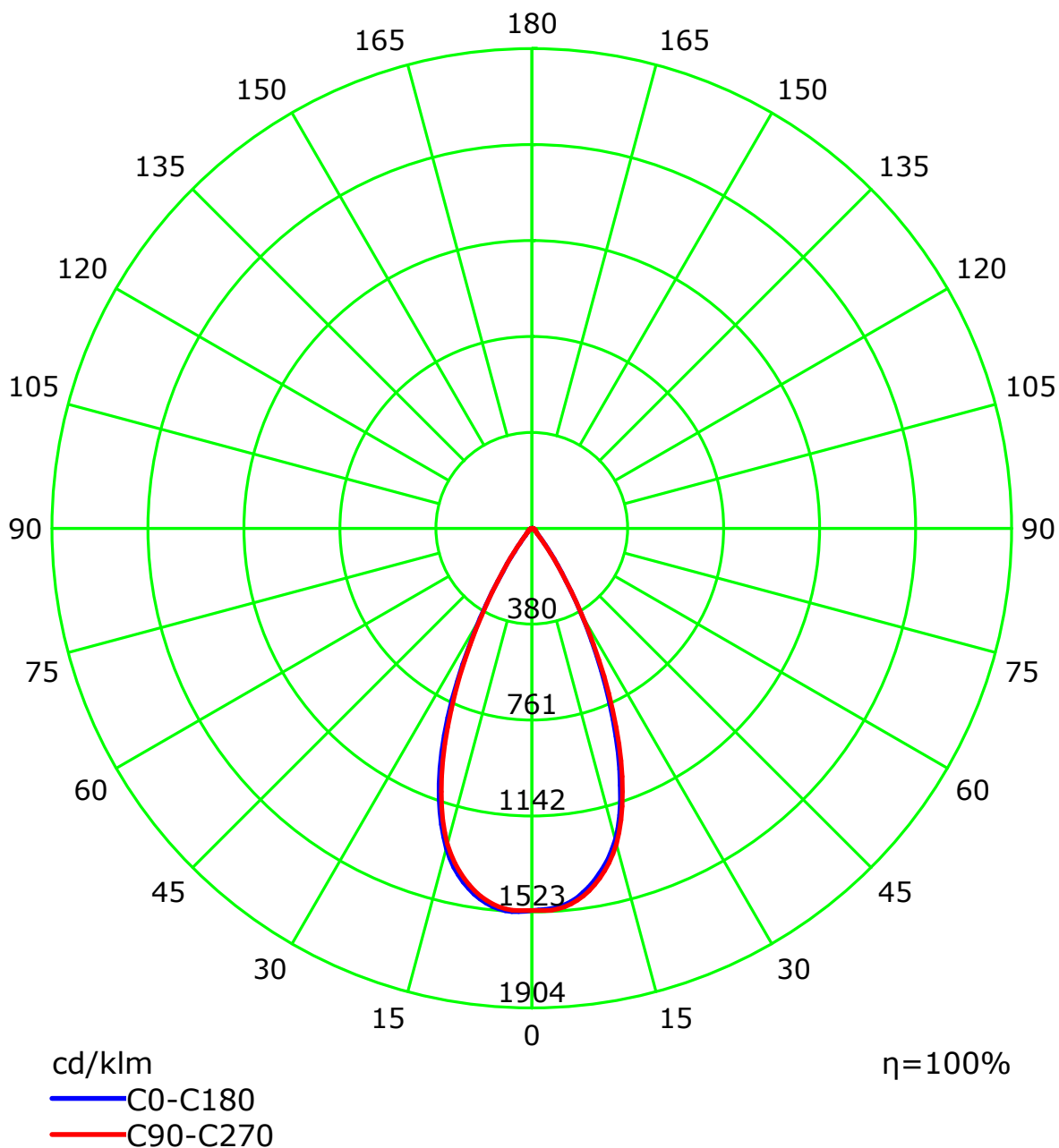
Luminous Intensity Distribution Curve



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:

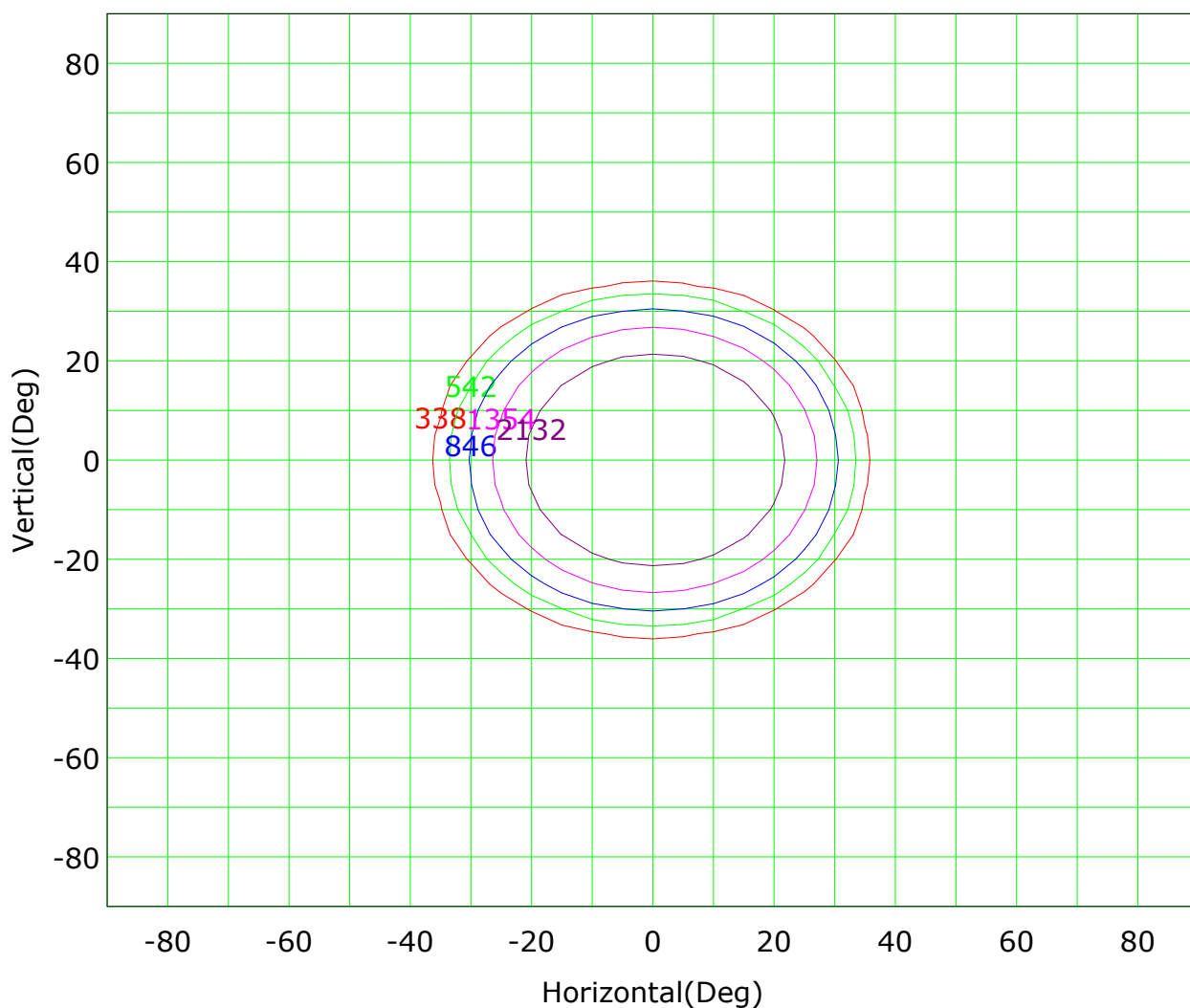
Luminous Intensity Distribution Curve(cd/klm)



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:

Isocandela (rectangle)



Imax (100%): 3385 cd

(10%): 338 cd	(16%): 542 cd
(25%): 846 cd	(40%): 1354 cd
(63%): 2132 cd	(100%): 3385 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

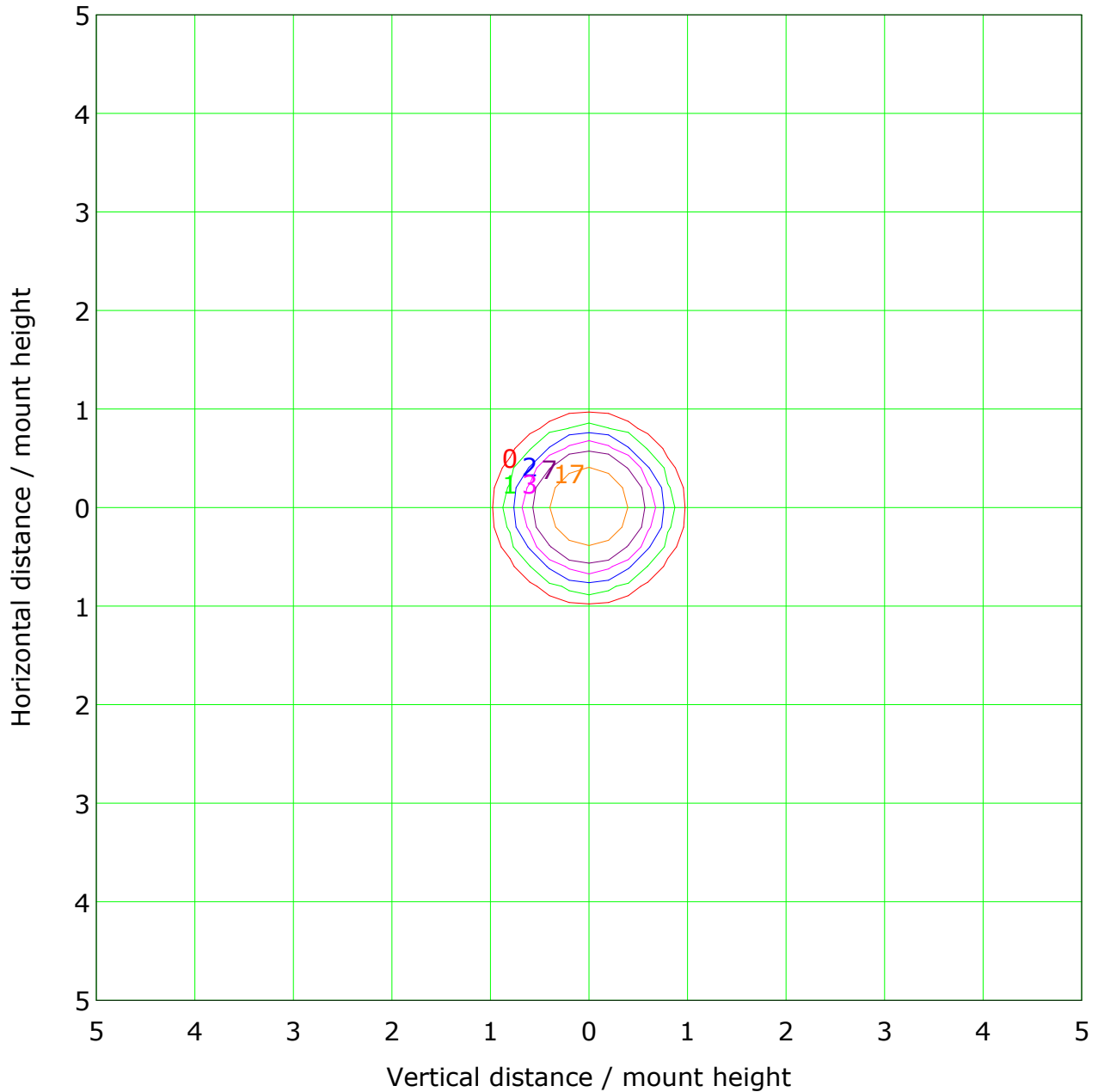
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 33.8 lx

(1%): 0.3 lx	(2%): 0.7 lx
(5%): 1.7 lx	(10%): 3.4 lx
(20%): 6.8 lx	(50%): 16.9 lx
(100%): 33.8 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

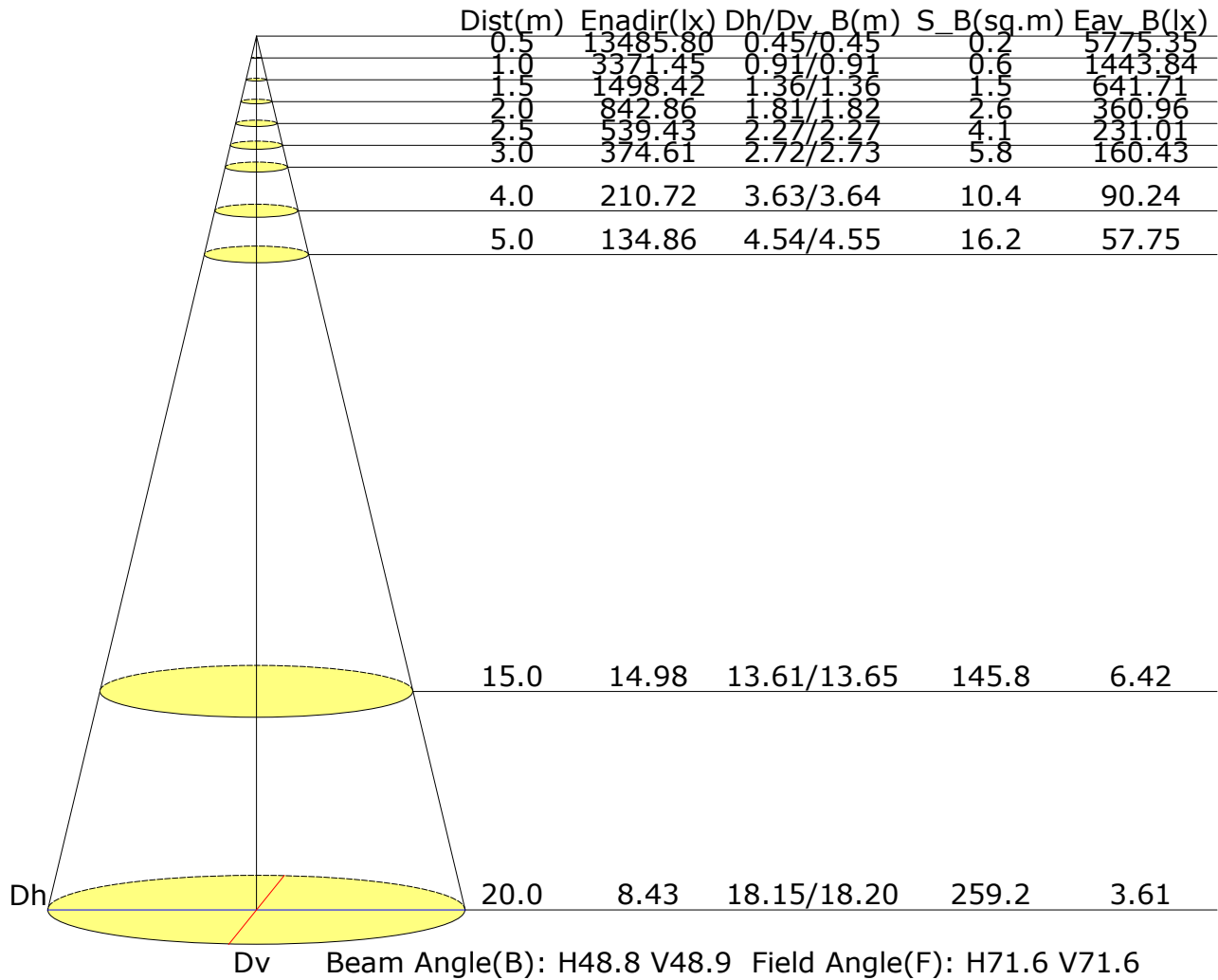
Test Device: CHL-6E

Distance: 2.905 m

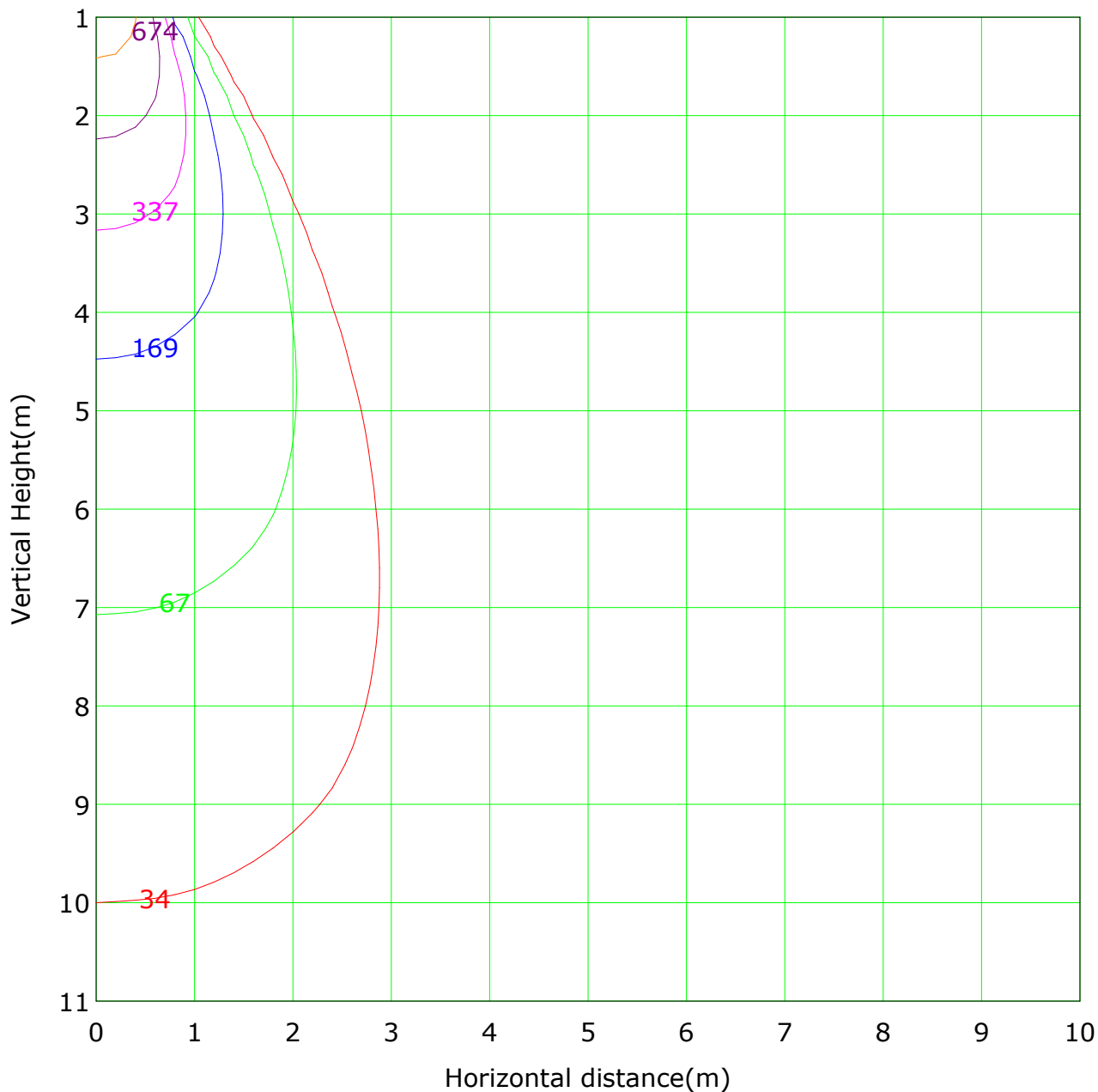
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 3371.4 lx
— (1%): 33.7 lx — (2%): 67.4 lx
— (5%): 168.6 lx — (10%): 337.1 lx
— (20%): 674.3 lx — (50%): 1685.7 lx
— (100%): 3371.4 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: 2.905 m
Humidity:
Inspector:

Area Flux Table

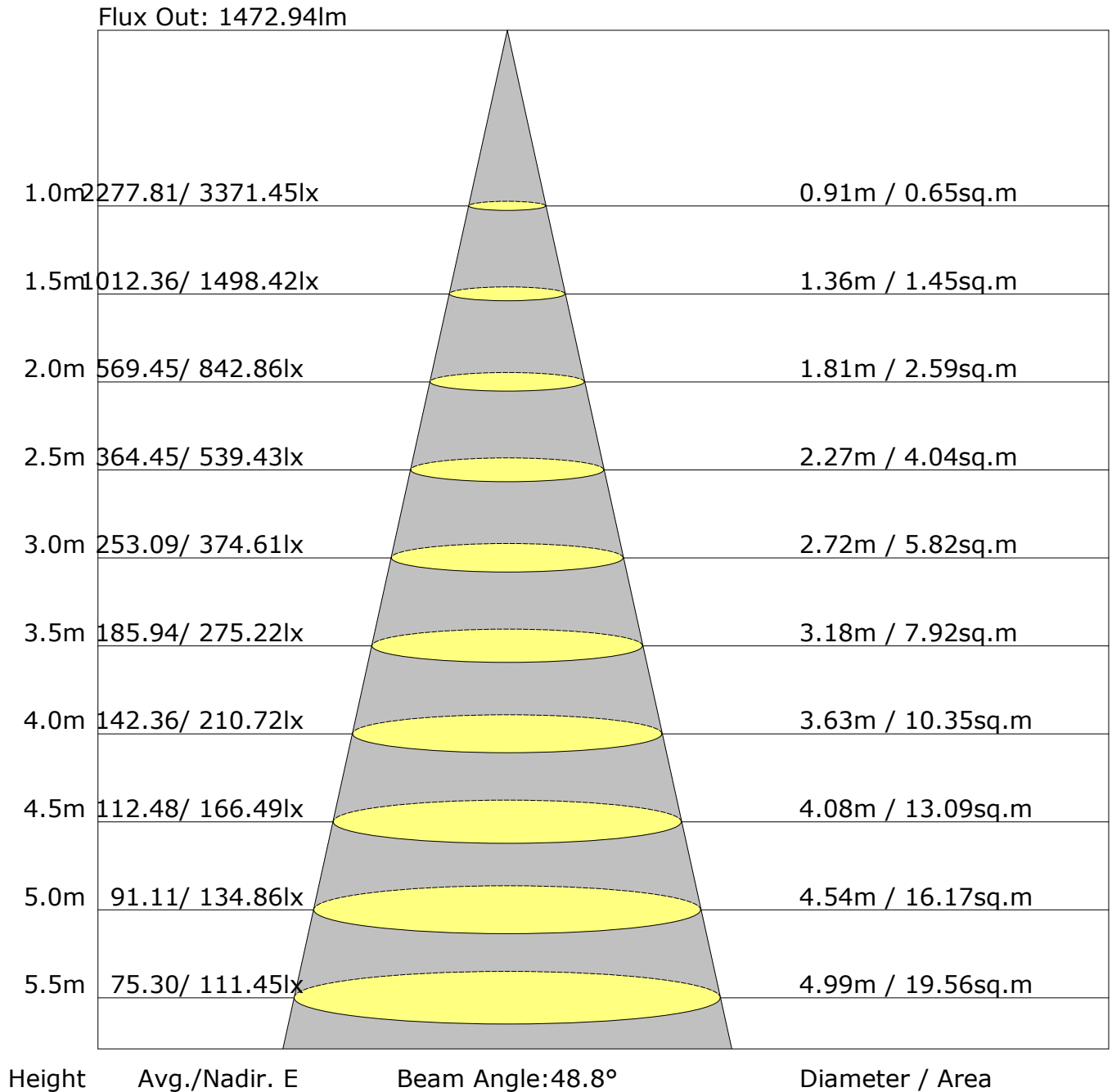
Unit: lm

Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	Flux(T)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.6	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	2.6
0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
0.0	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7
0.0	46.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.1
0.0	182.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	182.7
0.0	7376.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7376.1
0.0	4491.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4491.2
0.0	487.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	487.7
0.0	367.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	367.1
0.0	176.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176.1
0.0	48.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.3
0.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4
0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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	0.0	0.0	0.0	0.0	0.0	0.0	0.1
0.0	2221	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2221
0.0	2028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2028

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	15.9	16.8	16.2	16.9	17.2	15.9	16.7	16.2	16.9	17.1
3H	16.2	16.9	16.5	17.1	17.4	16.1	16.9	16.4	17.1	17.3
4H	16.2	16.9	16.5	17.2	17.4	16.2	16.9	16.5	17.1	17.4
6H	16.2	16.9	16.6	17.1	17.4	16.2	16.8	16.5	17.1	17.4
8H	16.2	16.8	16.6	17.1	17.4	16.1	16.8	16.5	17.0	17.4
12H	16.2	16.8	16.5	17.1	17.4	16.1	16.7	16.5	17.0	17.3
X=4H Y=2H	16.0	16.6	16.3	16.9	17.2	15.9	16.6	16.2	16.9	17.1
3H	16.3	16.9	16.6	17.2	17.5	16.2	16.8	16.6	17.1	17.4
4H	16.4	16.9	16.8	17.2	17.6	16.3	16.9	16.7	17.2	17.5
6H	16.4	16.9	16.8	17.2	17.6	16.3	16.8	16.8	17.2	17.6
8H	16.4	16.8	16.8	17.2	17.6	16.3	16.7	16.7	17.1	17.5
12H	16.4	16.7	16.8	17.1	17.6	16.3	16.7	16.7	17.1	17.5
X=8H Y=4H	16.4	16.8	16.8	17.2	17.6	16.3	16.7	16.7	17.1	17.5
6H	16.4	16.7	16.9	17.2	17.6	16.3	16.7	16.8	17.1	17.6
8H	16.4	16.7	16.9	17.1	17.6	16.3	16.6	16.8	17.1	17.5
12H	16.4	16.6	16.8	17.1	17.6	16.3	16.5	16.8	17.0	17.5
X=12H Y=4H	16.3	16.7	16.8	17.1	17.5	16.3	16.6	16.7	17.1	17.5
6H	16.4	16.7	16.8	17.1	17.6	16.3	16.6	16.8	17.0	17.5
8H	16.4	16.6	16.8	17.1	17.6	16.3	16.5	16.8	17.0	17.5
Variations with the observer position at spacings:										
S=1.0H	+4.2/-2.9					+4.2/-2.9				
S=1.5H	+6.7/-3.3					+6.8/-3.4				
S=2.0H	+8.6/-3.9					+8.7/-4.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2222Im ($8\log(F/F_0) = 2.8$).

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	1103	49.6
	FL (0°-30°)	904	40.7
	FM (30°-60°)	182	8.2
	FH (60°-80°)	16	0.7
	FVH (80°-90°)	1	0.0
	BACK LIGHT	1119	50.4
	BL (0°-30°)	925	41.6
	BM (30°-60°)	178	8.0
	BH (60°-80°)	16	0.7
	BVH (80°-90°)	1	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)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 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: 2.905 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	3371.7	3.2	3.2	0.15	0.15
1.0-2.0	3372.4	9.7	12.9	0.44	0.58
2.0-3.0	3372.3	16.1	29.0	0.73	1.31
3.0-4.0	3368.3	22.5	51.6	1.02	2.32
4.0-5.0	3357.9	28.9	80.5	1.30	3.62
5.0-6.0	3341.3	35.1	115.6	1.58	5.20
6.0-7.0	3318.7	41.2	156.8	1.85	7.06
7.0-8.0	3289.5	47.1	203.9	2.12	9.18
8.0-9.0	3254.7	52.8	256.6	2.37	11.55
9.0-10.0	3213.8	58.2	314.8	2.62	14.17
10.0-11.0	3166.7	63.3	378.1	2.85	17.02
11.0-12.0	3115.1	68.1	446.2	3.07	20.09
12.0-13.0	3058.4	72.6	518.8	3.27	23.35
13.0-14.0	2994.1	76.6	595.4	3.45	26.80
14.0-15.0	2920.9	80.2	675.6	3.61	30.41
15.0-16.0	2837.1	83.1	758.8	3.74	34.16
16.0-17.0	2740.8	85.4	844.1	3.84	38.00
17.0-18.0	2634.0	86.9	931.0	3.91	41.91
18.0-19.0	2517.5	87.6	1018.6	3.94	45.85
19.0-20.0	2393.0	87.6	1106.2	3.94	49.79
20.0-21.0	2262.0	86.9	1193.1	3.91	53.71
21.0-22.0	2124.1	85.4	1278.4	3.84	57.55
22.0-23.0	1980.2	83.1	1361.5	3.74	61.29
23.0-24.0	1832.1	80.1	1441.6	3.61	64.89
24.0-25.0	1680.4	76.4	1518.1	3.44	68.33
25.0-26.0	1527.9	72.1	1590.2	3.25	71.58
26.0-27.0	1378.2	67.4	1657.6	3.04	74.62
27.0-28.0	1232.4	62.4	1720.0	2.81	77.43
28.0-29.0	1091.8	57.1	1777.2	2.57	80.00
29.0-30.0	958.4	51.8	1828.9	2.33	82.33
30.0-31.0	833.1	46.4	1875.3	2.09	84.42
31.0-32.0	715.7	41.0	1916.3	1.85	86.26
32.0-33.0	607.7	35.8	1952.1	1.61	87.87
33.0-34.0	512.3	31.0	1983.1	1.40	89.27
34.0-35.0	429.1	26.7	2009.8	1.20	90.47
35.0-36.0	356.8	22.7	2032.5	1.02	91.49

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	294.9	19.2	2051.7	0.87	92.36
37.0-38.0	242.4	16.2	2067.9	0.73	93.09
38.0-39.0	198.7	13.6	2081.5	0.61	93.70
39.0-40.0	163.0	11.4	2092.8	0.51	94.21
40.0-41.0	134.9	9.6	2102.4	0.43	94.64
41.0-42.0	113.3	8.2	2110.7	0.37	95.01
42.0-43.0	96.9	7.2	2117.8	0.32	95.33
43.0-44.0	84.8	6.4	2124.2	0.29	95.62
44.0-45.0	75.9	5.8	2130.1	0.26	95.88
45.0-46.0	69.2	5.4	2135.5	0.24	96.13
46.0-47.0	63.6	5.1	2140.6	0.23	96.36
47.0-48.0	58.9	4.8	2145.3	0.21	96.57
48.0-49.0	54.9	4.5	2149.8	0.20	96.77
49.0-50.0	51.6	4.3	2154.1	0.19	96.97
50.0-51.0	48.7	4.1	2158.2	0.19	97.15
51.0-52.0	45.9	3.9	2162.2	0.18	97.33
52.0-53.0	43.3	3.8	2166.0	0.17	97.50
53.0-54.0	40.7	3.6	2169.5	0.16	97.66
54.0-55.0	38.4	3.4	2173.0	0.15	97.82
55.0-56.0	36.5	3.3	2176.3	0.15	97.96
56.0-57.0	34.9	3.2	2179.5	0.14	98.11
57.0-58.0	33.4	3.1	2182.6	0.14	98.25
58.0-59.0	31.9	3.0	2185.5	0.13	98.38
59.0-60.0	30.6	2.9	2188.4	0.13	98.51
60.0-61.0	29.3	2.8	2191.2	0.13	98.64
61.0-62.0	27.9	2.7	2193.9	0.12	98.76
62.0-63.0	26.5	2.6	2196.5	0.12	98.87
63.0-64.0	25.1	2.5	2198.9	0.11	98.98
64.0-65.0	23.7	2.3	2201.3	0.11	99.09
65.0-66.0	22.1	2.2	2203.5	0.10	99.19
66.0-67.0	20.5	2.1	2205.6	0.09	99.28
67.0-68.0	18.9	1.9	2207.5	0.09	99.37
68.0-69.0	17.4	1.8	2209.3	0.08	99.45
69.0-70.0	15.7	1.6	2210.9	0.07	99.52
70.0-71.0	14.1	1.5	2212.3	0.07	99.59
71.0-72.0	12.6	1.3	2213.6	0.06	99.65

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: 2.905 m
Humidity:
Inspector:

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	3371.4	3371.4								
G1.0	3365.7	3378.3								
G2.0	3362.2	3383.5								
G3.0	3358.9	3384.7								
G4.0	3348.5	3381.2								
G5.0	3332.1	3369.6								
G6.0	3309.8	3353.6								
G7.0	3280.7	3330.8								
G8.0	3244.5	3302.1								
G9.0	3204.3	3268.1								
G10.0	3157.3	3225.4								
G11.0	3105.6	3178.3								
G12.0	3049.5	3126.9								
G13.0	2989.3	3067.8								
G14.0	2920.7	2998.6								
G15.0	2843.9	2920.4								
G16.0	2752.6	2831.4								
G17.0	2645.6	2733.7								
G18.0	2526.9	2629.7								
G19.0	2396.9	2516.7								
G20.0	2262.6	2395.7								
G21.0	2123.2	2266.4								
G22.0	1979.5	2127.4								
G23.0	1832.3	1981.5								
G24.0	1685.2	1829.3								
G25.0	1538.1	1669.2								
G26.0	1396.4	1508.0								
G27.0	1260.6	1348.0								
G28.0	1127.9	1193.3								
G29.0	996.1	1049.7								
G30.0	872.0	915.7								
G31.0	756.3	788.5								
G32.0	650.3	667.6								
G33.0	556.5	556.3								
G34.0	475.8	460.5								
G35.0	401.2	379.0								
G36.0	336.9	310.2								

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	282.5	250.2								
G38.0	235.1	201.9								
G39.0	194.4	163.3								
G40.0	160.1	134.3								
G41.0	132.7	112.6								
G42.0	111.2	96.6								
G43.0	95.0	84.8								
G44.0	83.2	76.2								
G45.0	74.7	69.6								
G46.0	68.4	64.1								
G47.0	62.9	59.2								
G48.0	58.3	55.1								
G49.0	54.3	51.7								
G50.0	51.3	49.1								
G51.0	48.4	46.0								
G52.0	45.5	43.8								
G53.0	42.7	41.3								
G54.0	40.3	38.7								
G55.0	38.0	36.6								
G56.0	36.5	35.0								
G57.0	34.7	33.6								
G58.0	33.1	32.0								
G59.0	31.8	30.6								
G60.0	30.4	29.5								
G61.0	29.1	28.3								
G62.0	27.4	26.9								
G63.0	26.1	25.5								
G64.0	24.8	24.0								
G65.0	23.5	22.4								
G66.0	21.8	20.8								
G67.0	20.1	19.2								
G68.0	18.9	17.6								
G69.0	17.1	15.9								
G70.0	15.5	14.4								
G71.0	13.8	12.7								
G72.0	12.4	11.3								
G73.0	11.2	10.5								

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: 2.905 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: