

Report No.: AX-DL-DE-32W-075

Test Time: 2024-10-06 14:41

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): -75

Voltage: 225.0 V

Power: 31.90 W

Luminous Width (mm): -75

Current: 0.144 A

Power Factor: 0.982

Photometric Results

CIE Class: Direct

Measurement Flux: 3365.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H51.3

Vertical Diffuse Angle(50%): V51.3

Luminaire Efficacy Rating (LER): 105.56

Max. Intensity: 5279.53 cd

S/MH(C0/C180): 0.80

Total Rated Lamp Lumens: 3365.7 lm

Efficiency: 100%

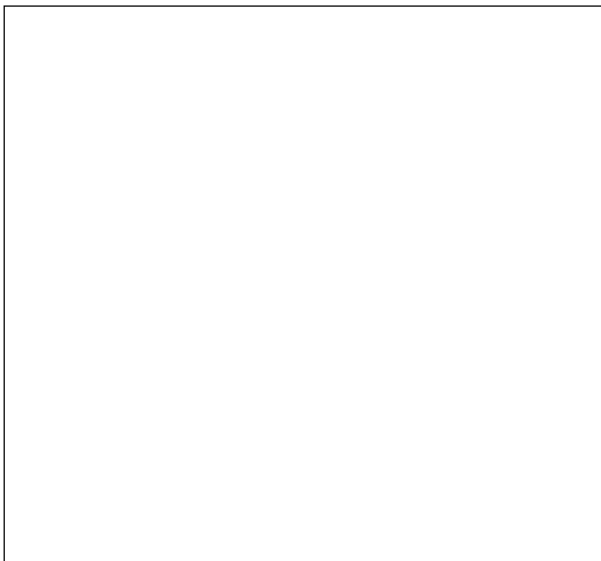
Upward Ratio: 0%

Central Intensity: 4965.38 cd

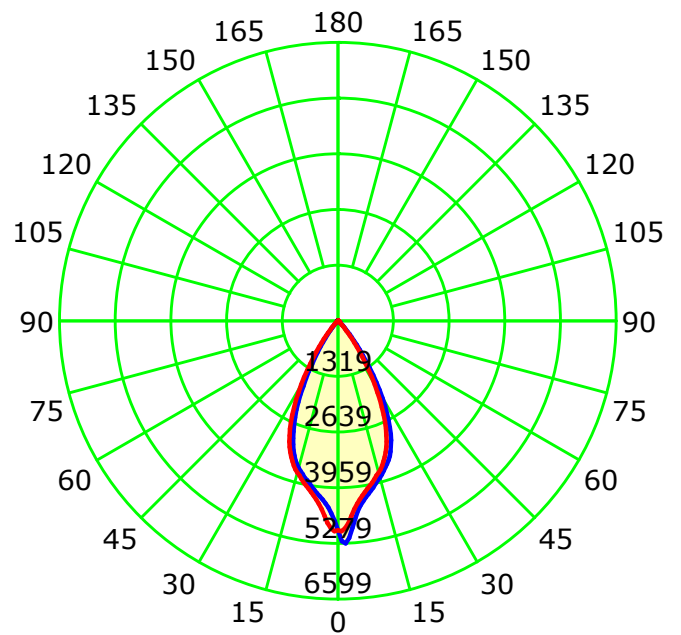
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.80

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— 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

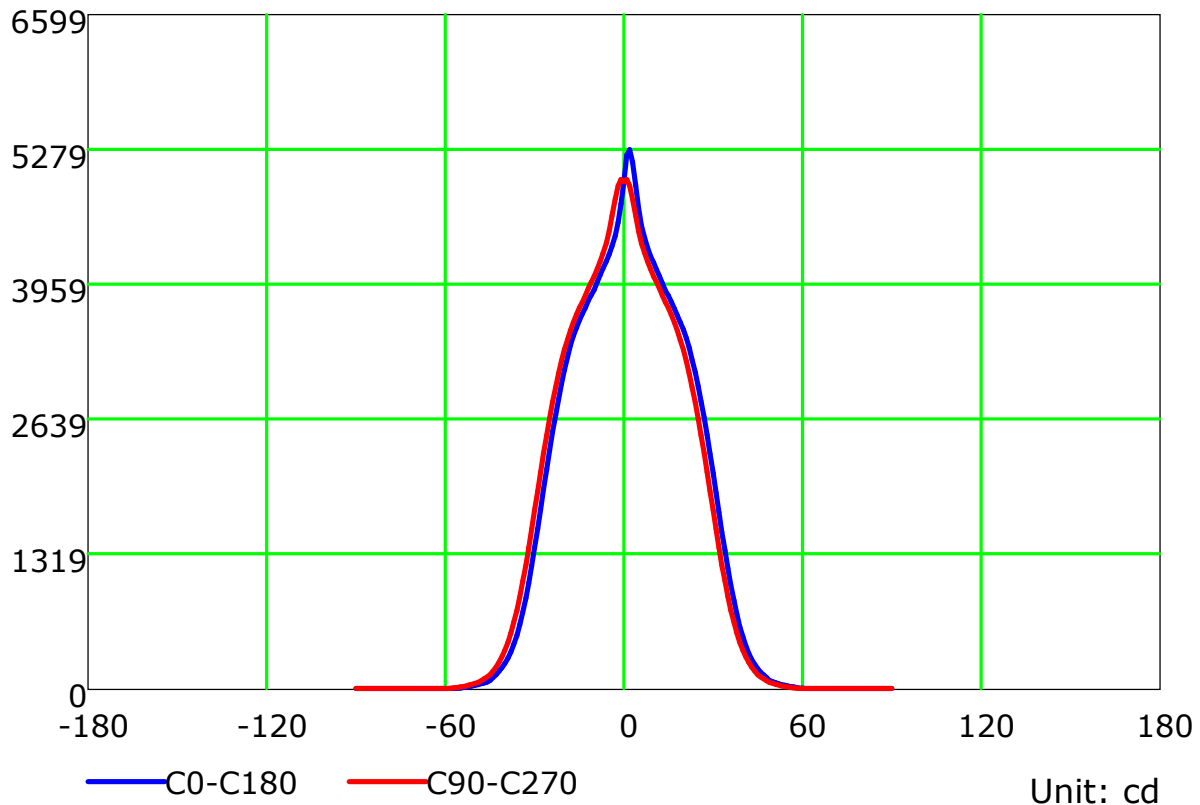
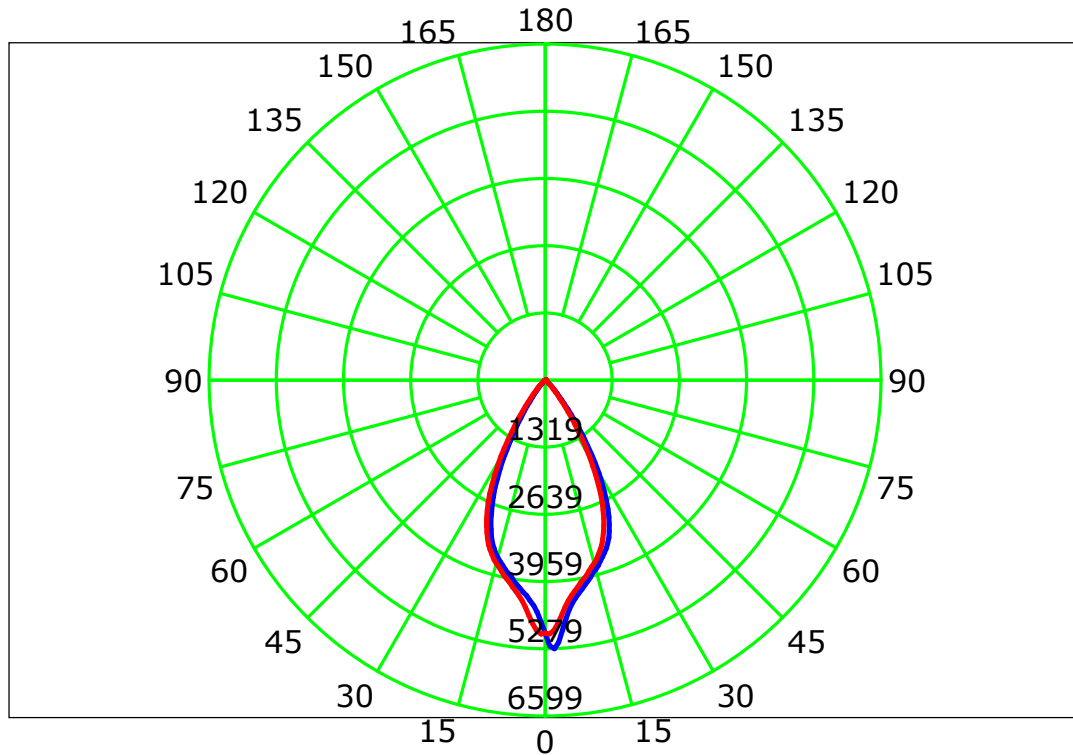
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

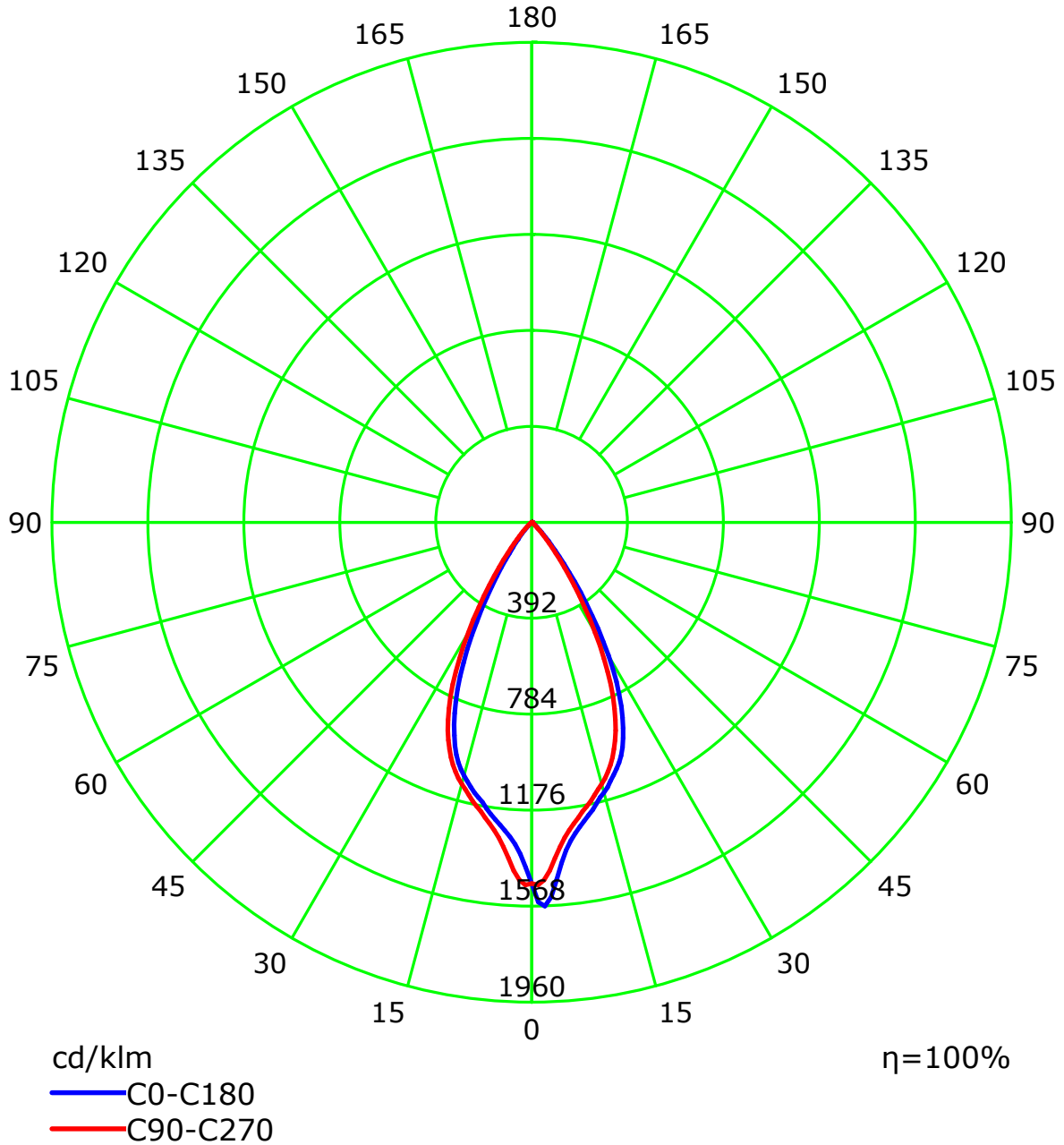
Luminous Intensity Distribution Curve



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: 3.328 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

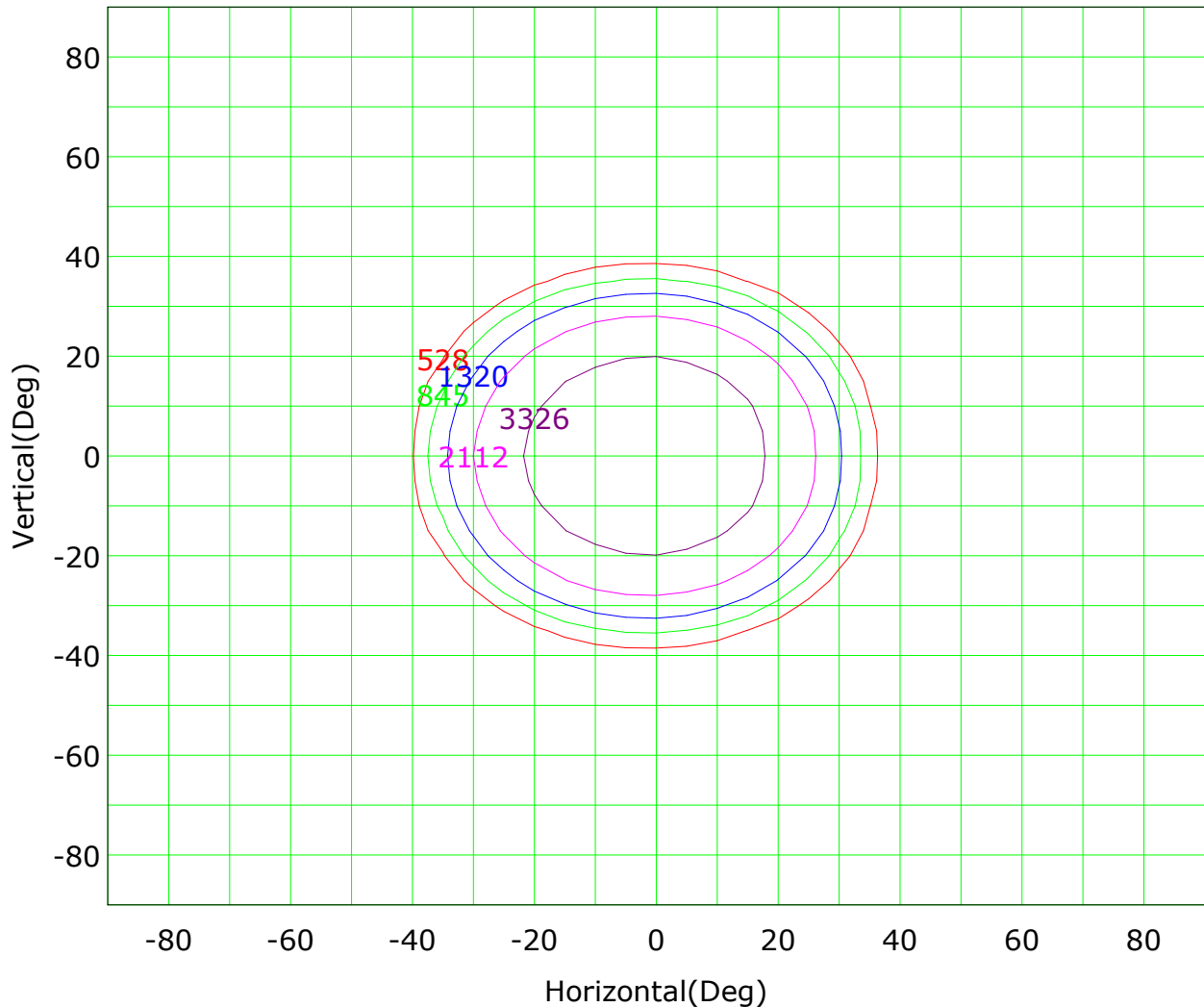
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

Isocandela (rectangle)



Imax (100%): 5280 cd

(10%): 528 cd	(16%): 845 cd
(25%): 1320 cd	(40%): 2112 cd
(63%): 3326 cd	(100%): 5280 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

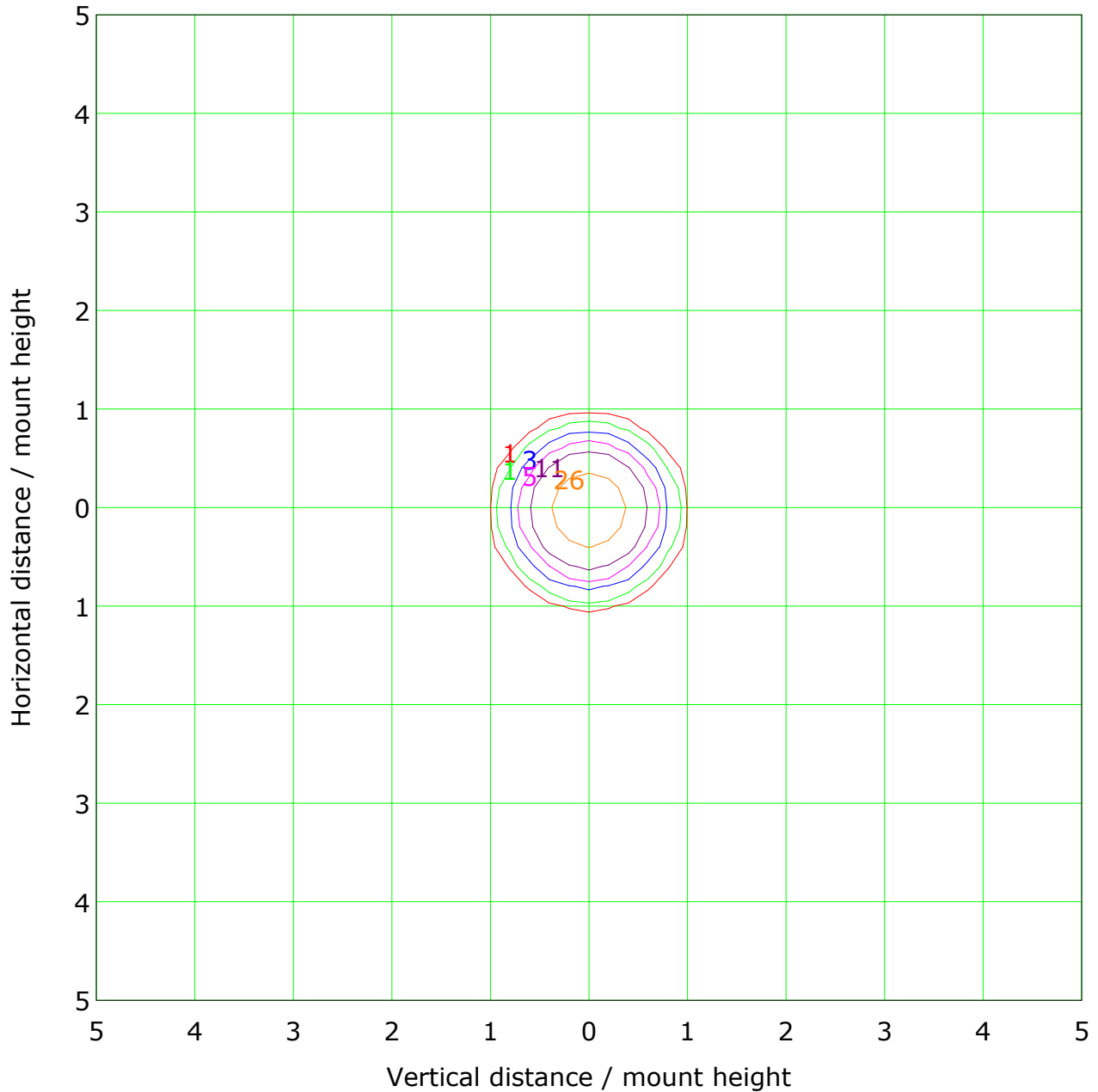
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 52.7 lx

(1%): 0.5 lx	(2%): 1.1 lx
(5%): 2.6 lx	(10%): 5.3 lx
(20%): 10.5 lx	(50%): 26.3 lx
(100%): 52.7 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

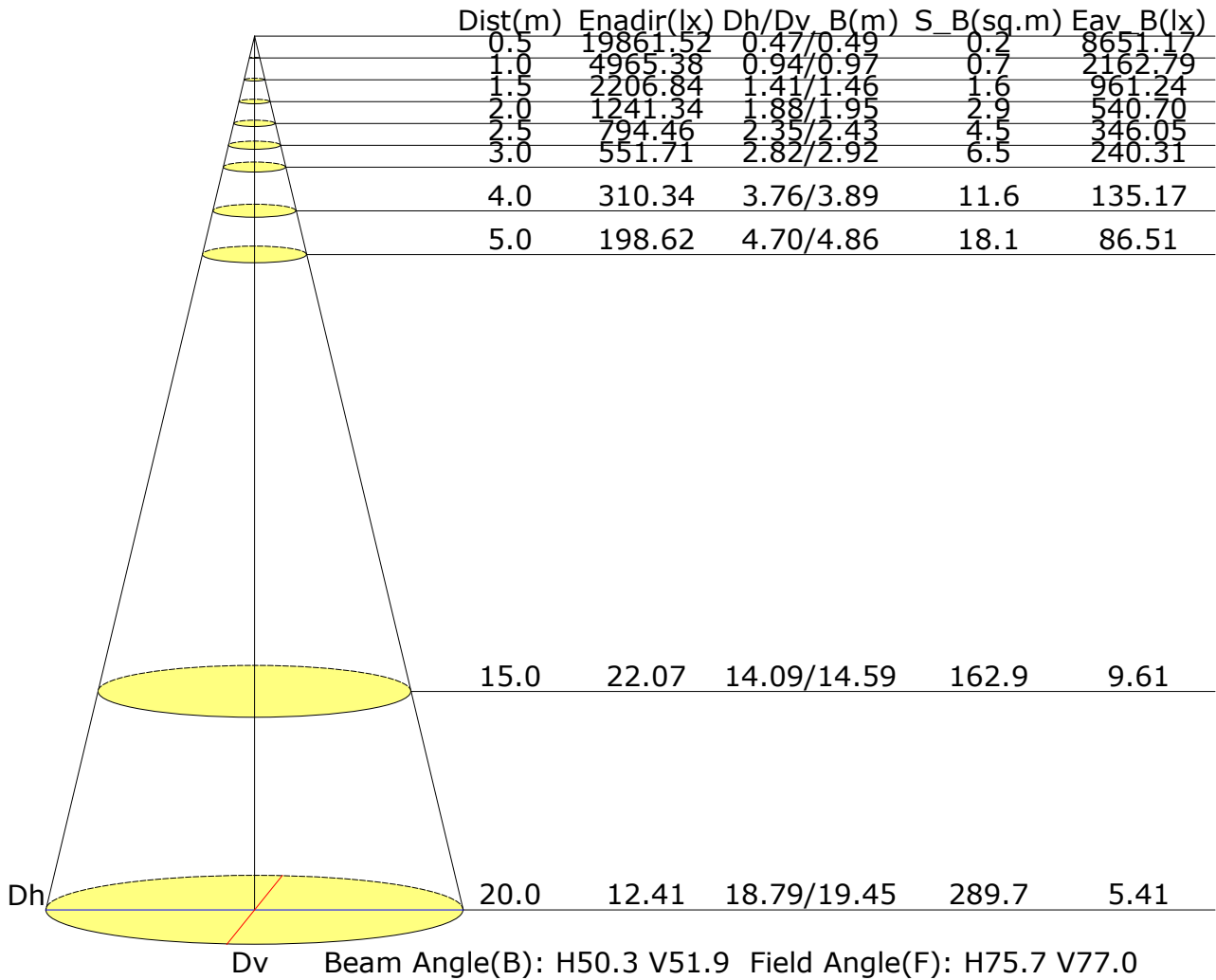
Test Device: CHL-6E

Distance: 3.328 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

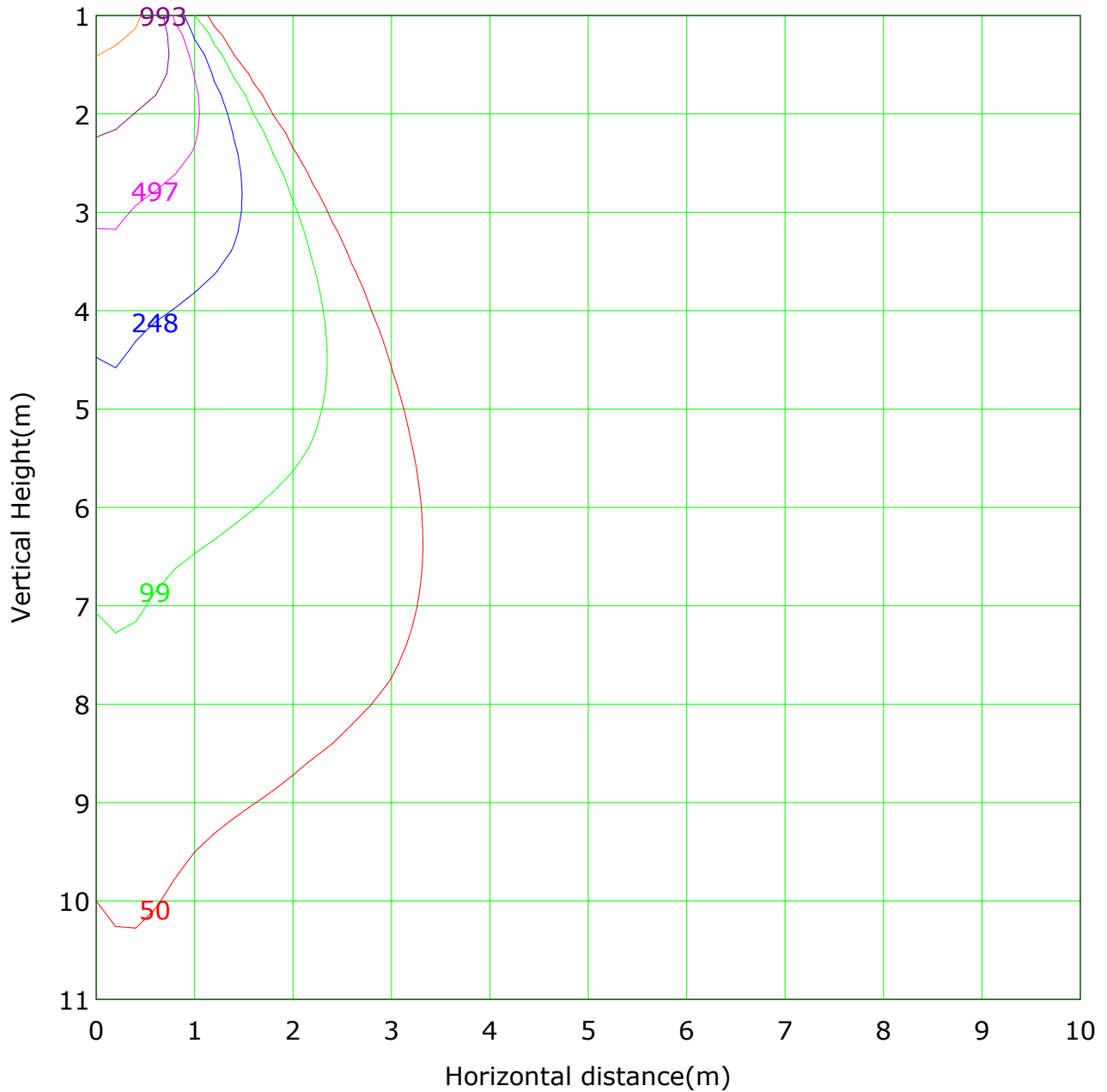
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 4965.4 lx
 (1%): 49.7 lx (2%): 99.3 lx
 (5%): 248.3 lx (10%): 496.5 lx
 (20%): 993.1 lx (50%): 2482.7 lx
 (100%): 4965.4 lx

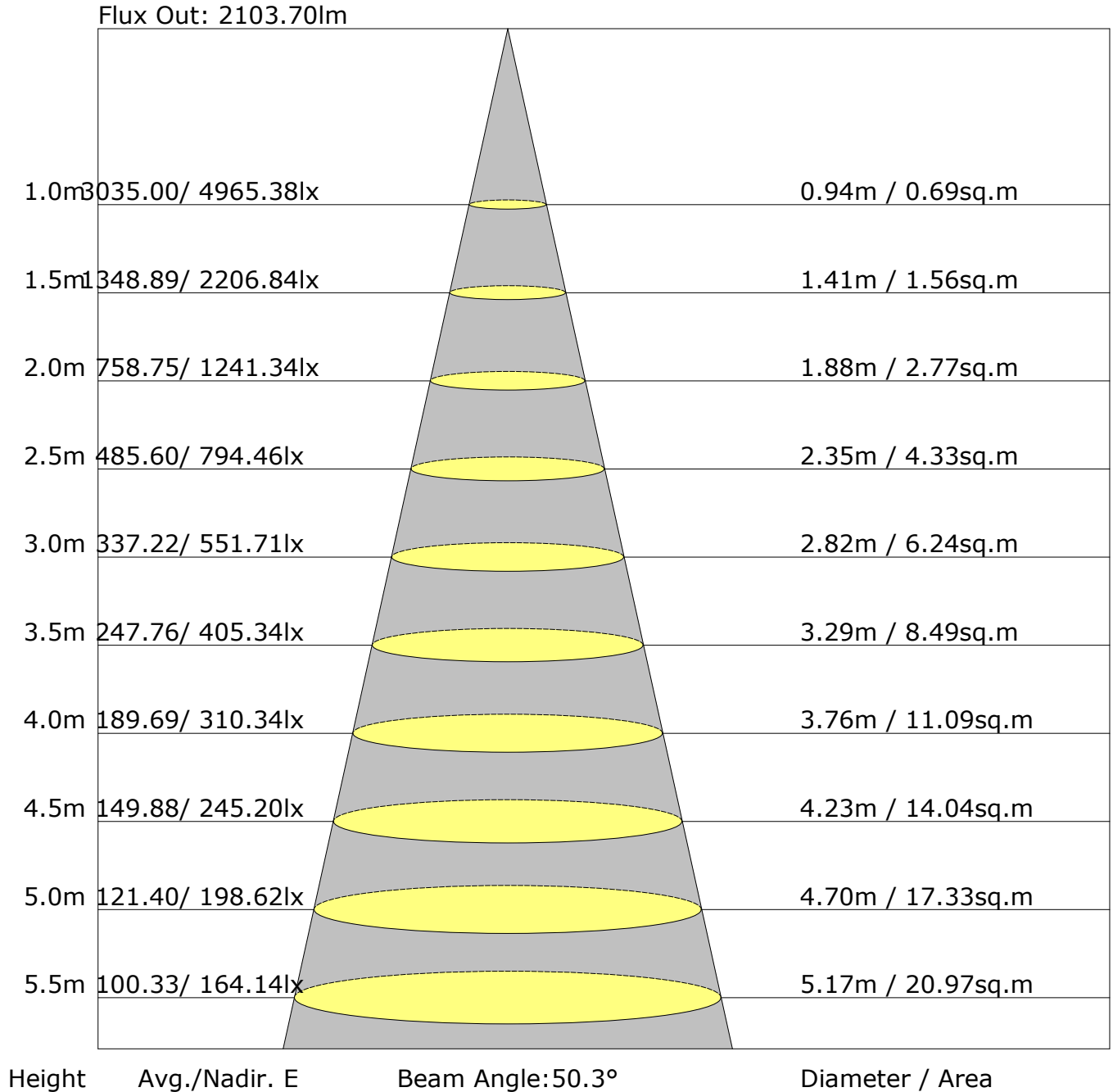
C Plane (°): 0.0-180.0: 180.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: CHL-6E
 Distance: 3.328 m
 Humidity:
 Inspector:

Unit: lm

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 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: 3.328 m
Humidity:
Inspector:

UGR Table

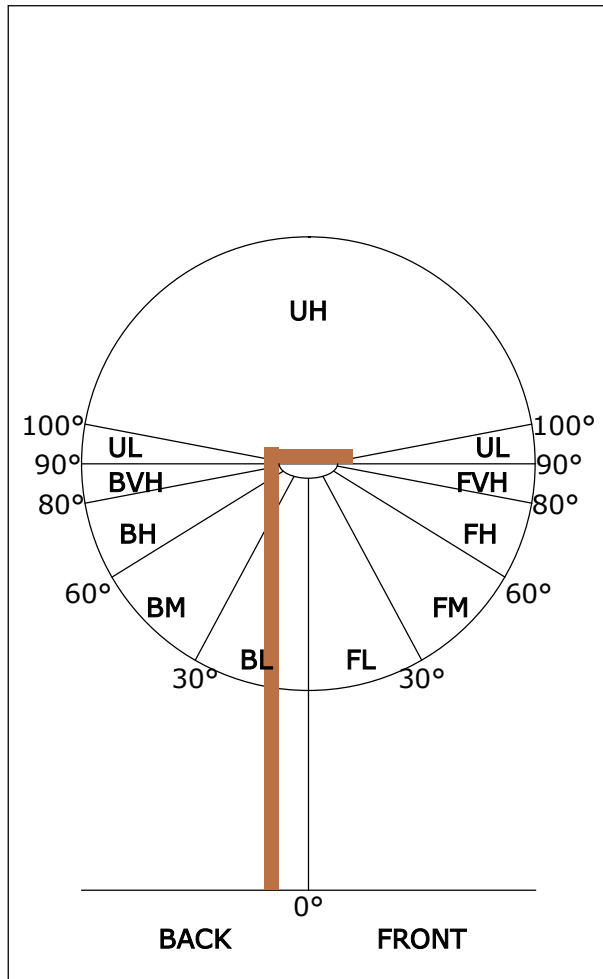
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	23.3	24.1	23.6	24.3	24.5	22.3	23.1	22.5	23.3	23.5
3H	23.2	23.9	23.5	24.1	24.4	22.1	22.9	22.4	23.1	23.3
4H	23.1	23.8	23.4	24.0	24.3	22.0	22.7	22.4	23.0	23.3
6H	23.0	23.6	23.3	23.9	24.2	22.0	22.6	22.3	22.9	23.2
8H	23.0	23.6	23.3	23.9	24.2	21.9	22.5	22.3	22.8	23.1
12H	22.9	23.5	23.3	23.8	24.1	21.9	22.5	22.2	22.8	23.1
X=4H Y=2H	23.1	23.8	23.4	24.0	24.3	22.0	22.7	22.4	23.0	23.3
3H	22.9	23.5	23.3	23.8	24.1	21.9	22.5	22.2	22.8	23.1
4H	22.9	23.4	23.2	23.7	24.1	21.8	22.3	22.2	22.7	23.0
6H	22.8	23.2	23.2	23.6	24.0	21.7	22.2	22.1	22.6	22.9
8H	22.7	23.1	23.1	23.5	23.9	21.7	22.1	22.1	22.5	22.9
12H	22.7	23.1	23.1	23.5	23.9	21.6	22.0	22.1	22.4	22.9
X=8H Y=4H	22.7	23.1	23.1	23.5	23.9	21.7	22.1	22.1	22.5	22.9
6H	22.6	23.0	23.1	23.4	23.9	21.6	21.9	22.1	22.4	22.8
8H	22.6	22.9	23.1	23.3	23.8	21.5	21.8	22.0	22.3	22.8
12H	22.5	22.8	23.0	23.3	23.8	21.5	21.8	22.0	22.2	22.7
X=12H Y=4H	22.7	23.1	23.1	23.5	23.9	21.6	22.0	22.1	22.4	22.9
6H	22.6	22.9	23.1	23.3	23.8	21.5	21.8	22.0	22.3	22.8
8H	22.5	22.8	23.0	23.3	23.8	21.5	21.8	22.0	22.2	22.7
Variations with the observer position at spacings:										
S=1.0H	+5.4/-14.9					+5.3/-16.3				
S=1.5H	+8.2/-1.\$					+8.1/-1.\$				
S=2.0H	+10.2/-1.\$					+10.1/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 3366lm ($8\log(F/F_0) = 4.2$).

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: 3.328 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1787	53.1
FL (0°-30°)	1370	40.7
FM (30°-60°)	417	12.4
FH (60°-80°)	0	0.0
FVH (80°-90°)	0	0.0
BACK LIGHT	1578	46.9
BL (0°-30°)	1270	37.7
BM (30°-60°)	308	9.2
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)	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: 3.328 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	4975.4	4.8	4.8	0.14	0.14
1.0-2.0	4953.8	14.2	19.0	0.42	0.56
2.0-3.0	4859.1	23.2	42.2	0.69	1.25
3.0-4.0	4713.6	31.6	73.8	0.94	2.19
4.0-5.0	4554.6	39.2	113.0	1.16	3.36
5.0-6.0	4418.1	46.4	159.4	1.38	4.74
6.0-7.0	4311.8	53.5	212.9	1.59	6.33
7.0-8.0	4225.2	60.5	273.4	1.80	8.12
8.0-9.0	4148.2	67.2	340.6	2.00	10.12
9.0-10.0	4074.7	73.7	414.4	2.19	12.31
10.0-11.0	4008.3	80.1	494.5	2.38	14.69
11.0-12.0	3950.0	86.4	580.9	2.57	17.26
12.0-13.0	3886.1	92.2	673.1	2.74	20.00
13.0-14.0	3816.6	97.7	770.8	2.90	22.90
14.0-15.0	3755.2	103.1	873.9	3.06	25.96
15.0-16.0	3695.1	108.3	982.2	3.22	29.18
16.0-17.0	3624.0	112.9	1095.1	3.35	32.54
17.0-18.0	3546.4	116.9	1212.0	3.47	36.01
18.0-19.0	3461.9	120.5	1332.5	3.58	39.59
19.0-20.0	3367.2	123.3	1455.7	3.66	43.25
20.0-21.0	3263.1	125.3	1581.0	3.72	46.98
21.0-22.0	3147.8	126.5	1707.5	3.76	50.73
22.0-23.0	3018.4	126.7	1834.2	3.76	54.50
23.0-24.0	2877.6	125.8	1960.0	3.74	58.24
24.0-25.0	2727.0	124.0	2084.1	3.68	61.92
25.0-26.0	2565.3	121.1	2205.2	3.60	65.52
26.0-27.0	2393.6	117.1	2322.3	3.48	69.00
27.0-28.0	2213.4	112.1	2434.4	3.33	72.33
28.0-29.0	2028.0	106.1	2540.5	3.15	75.48
29.0-30.0	1841.3	99.4	2639.9	2.95	78.44
30.0-31.0	1655.2	92.1	2732.0	2.74	81.17
31.0-32.0	1472.0	84.3	2816.4	2.51	83.68
32.0-33.0	1295.3	76.3	2892.7	2.27	85.95
33.0-34.0	1129.8	68.4	2961.1	2.03	87.98
34.0-35.0	976.4	60.6	3021.7	1.80	89.78
35.0-36.0	835.3	53.2	3074.9	1.58	91.36

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

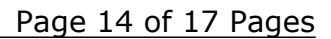
Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector:

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	708.7	46.2	3121.1	1.37	92.73
37.0-38.0	596.5	39.8	3161.0	1.18	93.92
38.0-39.0	498.3	34.0	3195.0	1.01	94.93
39.0-40.0	414.5	28.9	3223.9	0.86	95.79
40.0-41.0	343.8	24.5	3248.4	0.73	96.51
41.0-42.0	285.2	20.7	3269.1	0.62	97.13
42.0-43.0	235.6	17.5	3286.6	0.52	97.65
43.0-44.0	192.3	14.5	3301.1	0.43	98.08
44.0-45.0	154.9	11.9	3313.0	0.35	98.43
45.0-46.0	125.6	9.8	3322.8	0.29	98.73
46.0-47.0	104.1	8.3	3331.1	0.25	98.97
47.0-48.0	86.3	7.0	3338.1	0.21	99.18
48.0-49.0	68.9	5.7	3343.7	0.17	99.35
49.0-50.0	55.2	4.6	3348.3	0.14	99.48
50.0-51.0	46.4	3.9	3352.2	0.12	99.60
51.0-52.0	38.6	3.3	3355.6	0.10	99.70
52.0-53.0	30.9	2.7	3358.2	0.08	99.78
53.0-54.0	24.0	2.1	3360.4	0.06	99.84
54.0-55.0	19.0	1.7	3362.1	0.05	99.89
55.0-56.0	14.3	1.3	3363.4	0.04	99.93
56.0-57.0	10.3	0.9	3364.3	0.03	99.96
57.0-58.0	6.9	0.6	3364.9	0.02	99.98
58.0-59.0	4.1	0.4	3365.3	0.01	99.99
59.0-60.0	2.5	0.2	3365.5	0.01	100.00
60.0-61.0	1.2	0.1	3365.7	0.00	100.00
61.0-62.0	0.3	0.0	3365.7	0.00	100.00
62.0-63.0	0.0	0.0	3365.7	0.00	100.00
63.0-64.0	0.0	0.0	3365.7	0.00	100.00
64.0-65.0	0.0	0.0	3365.7	0.00	100.00
65.0-66.0	0.0	0.0	3365.7	0.00	100.00
66.0-67.0	0.0	0.0	3365.7	0.00	100.00
67.0-68.0	0.0	0.0	3365.7	0.00	100.00
68.0-69.0	0.0	0.0	3365.7	0.00	100.00
69.0-70.0	0.0	0.0	3365.7	0.00	100.00
70.0-71.0	0.0	0.0	3365.7	0.00	100.00
71.0-72.0	0.0	0.0	3365.7	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: 3.328 m
Humidity:
Inspector:



Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	4965.4	4965.4								
G1.0	5223.4	4747.2								
G2.0	5279.5	4565.2								
G3.0	5157.4	4434.3								
G4.0	4926.7	4335.8								
G5.0	4703.6	4252.3								
G6.0	4532.8	4183.7								
G7.0	4411.9	4118.9								
G8.0	4318.4	4051.6								
G9.0	4238.6	3984.3								
G10.0	4170.0	3905.7								
G11.0	4102.7	3854.6								
G12.0	4040.4	3802.3								
G13.0	3969.3	3732.4								
G14.0	3895.8	3668.9								
G15.0	3848.4	3607.8								
G16.0	3788.6	3535.5								
G17.0	3718.7	3453.2								
G18.0	3652.7	3360.9								
G19.0	3586.6	3247.5								
G20.0	3516.8	3117.9								
G21.0	3435.8	2982.0								
G22.0	3339.8	2833.6								
G23.0	3222.6	2677.8								
G24.0	3097.9	2512.0								
G25.0	2963.3	2335.0								
G26.0	2814.9	2148.0								
G27.0	2655.4	1956.0								
G28.0	2484.6	1757.8								
G29.0	2301.3	1568.3								
G30.0	2113.1	1382.5								
G31.0	1919.8	1205.5								
G32.0	1725.3	1037.2								
G33.0	1532.1	886.4								
G34.0	1352.6	748.0								
G35.0	1176.8	628.3								
G36.0	1013.5	522.3								

C Plane (°):0.0-180.0: 180.0
Test Lab:
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Gamma Plane (°):0.0-90.0:1.0
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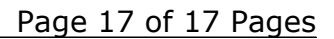
Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	863.9	435.1								
G38.0	728.0	359.0								
G39.0	607.1	299.2								
G40.0	504.9	246.8								
G41.0	418.9	204.4								
G42.0	347.8	169.5								
G43.0	288.0	137.1								
G44.0	236.9	107.2								
G45.0	195.7	79.8								
G46.0	162.1	64.8								
G47.0	134.6	54.8								
G48.0	108.5	47.4								
G49.0	81.0	38.7								
G50.0	68.6	32.4								
G51.0	57.3	27.4								
G52.0	49.9	20.0								
G53.0	39.9	13.7								
G54.0	32.4	10.0								
G55.0	27.4	6.2								
G56.0	20.0	3.7								
G57.0	16.2	1.3								
G58.0	10.0	0.0								
G59.0	6.2	0.0								
G60.0	3.7	0.0								
G61.0	1.3	0.0								
G62.0	0.0	0.0								
G63.0	0.0	0.0								
G64.0	0.0	0.0								
G65.0	0.0	0.0								
G66.0	0.0	0.0								
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
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Gamma Plane (°):0.0-90.0:1.0
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Unit: cd

Gamma Plane (°):0.0-90.0:1.0
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Inspector: