

Report No.:AX-DL-DE-40W-095

Test Time: 2024-10-06 16:57

Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): -95

Voltage: 227.6 V

Power: 40.30 W

Luminous Width (mm): -95

Current: 0.178 A

Power Factor: 0.992

Photometric Results

CIE Class: Direct

Measurement Flux: 3999.8 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H51.2

Vertical Diffuse Angle(50%): V51.2

Luminaire Efficacy Rating (LER): 99.30

Max. Intensity: 5421.65 cd

S/MH(C0/C180): 0.82

Total Rated Lamp Lumens: 3999.8 lm

Efficiency: 100%

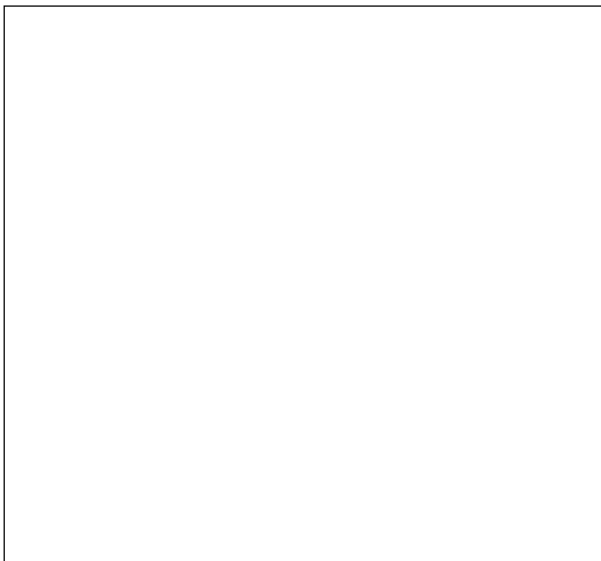
Upward Ratio: 0%

Central Intensity: 5274.55 cd

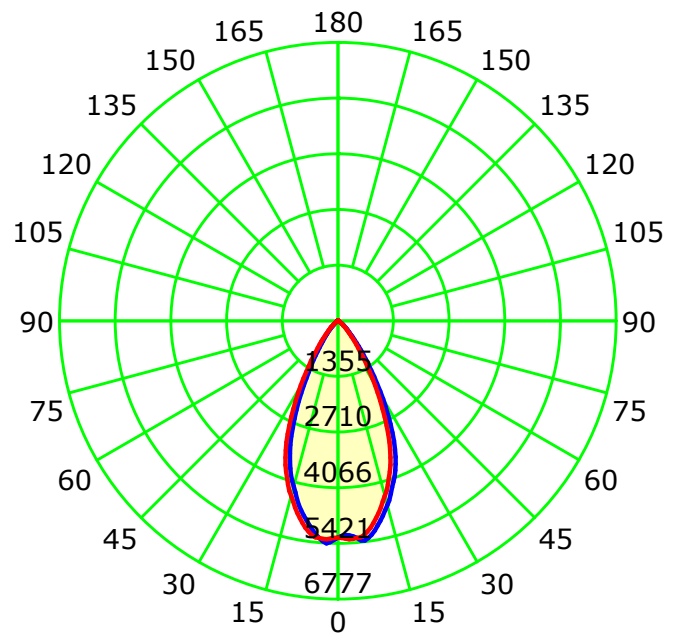
Pos of Max. Intensity: H180 V3

S/MH(C90/C270): 0.82

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

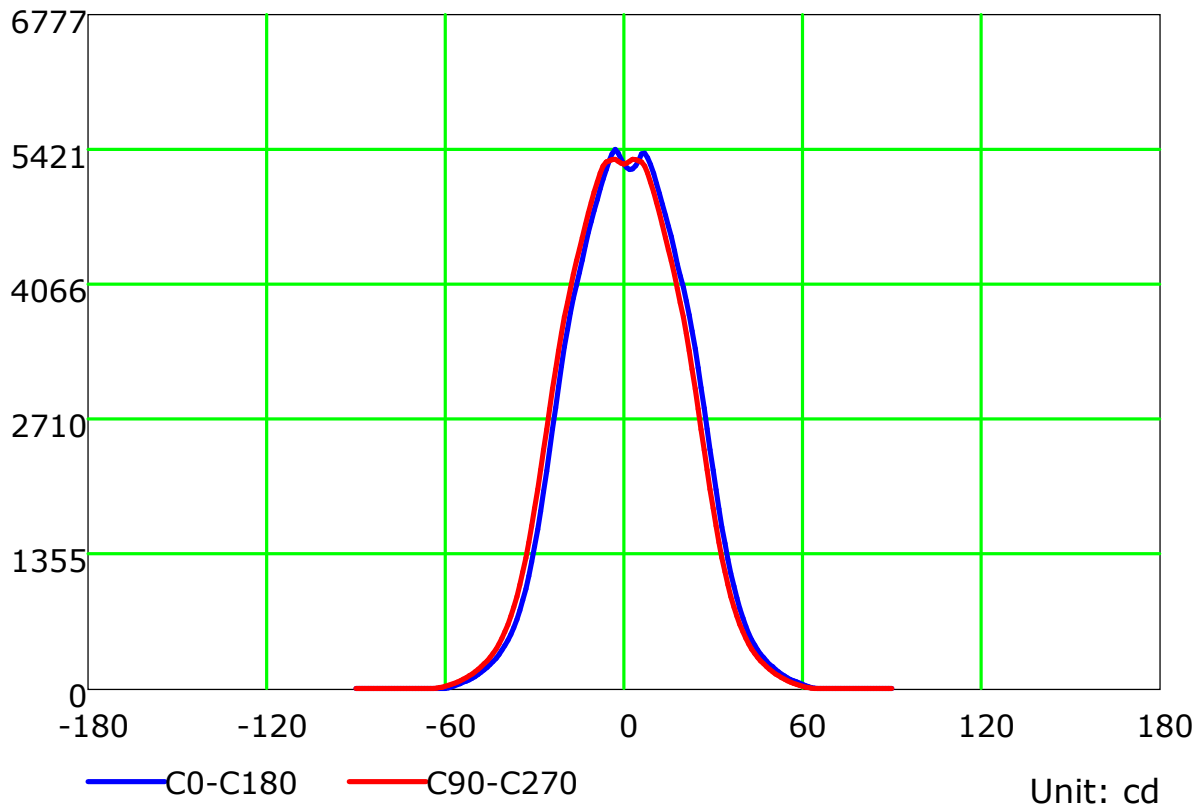
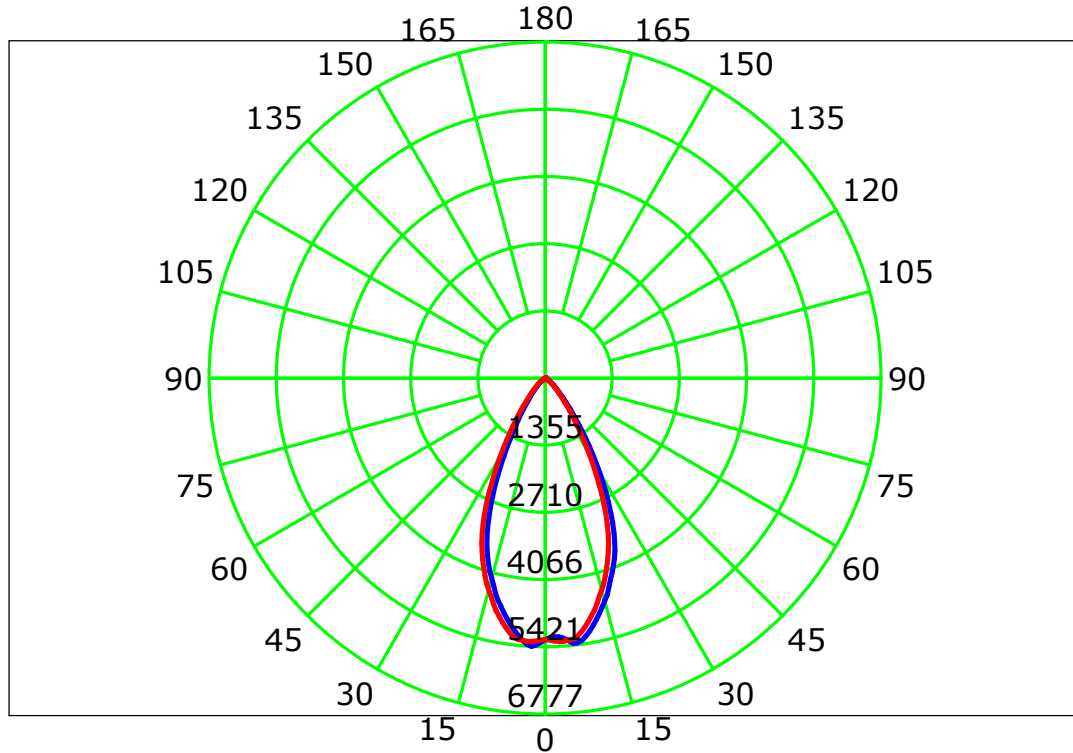
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

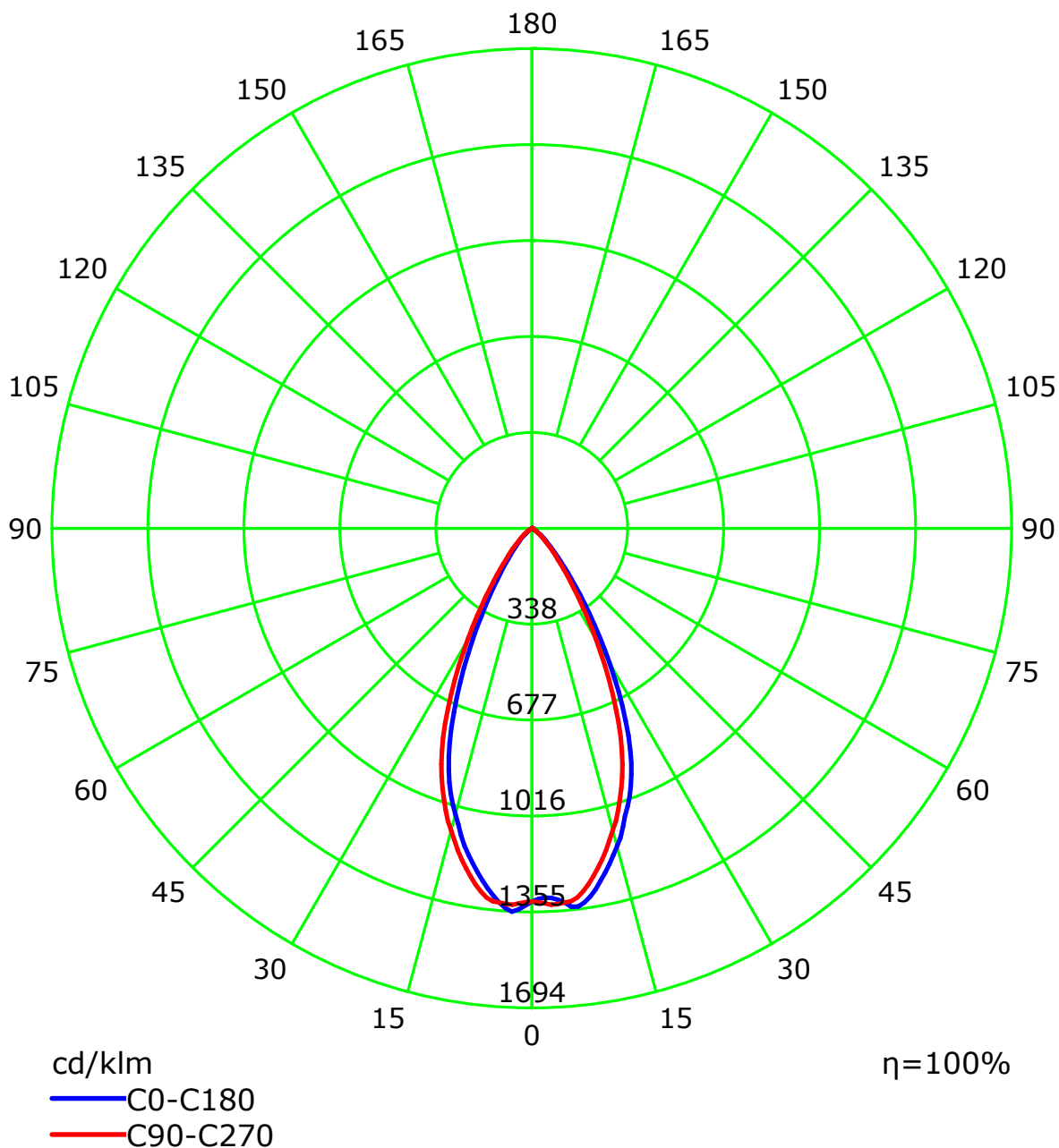
Luminous Intensity Distribution Curve



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:

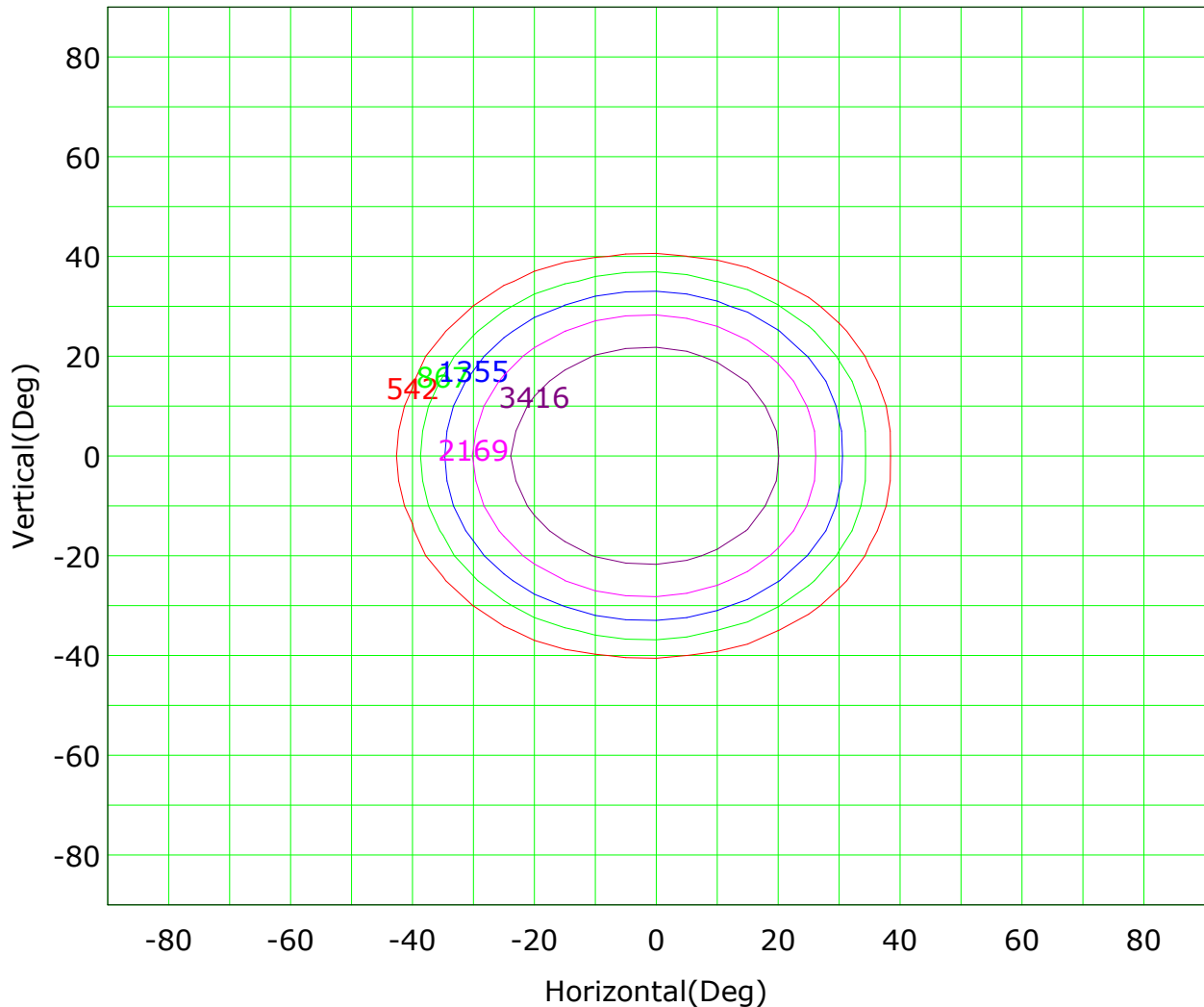
Luminous Intensity Distribution Curve(cd/klm)



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%): 5422 cd

(10%): 542 cd	(16%): 867 cd
(25%): 1355 cd	(40%): 2169 cd
(63%): 3416 cd	(100%): 5422 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

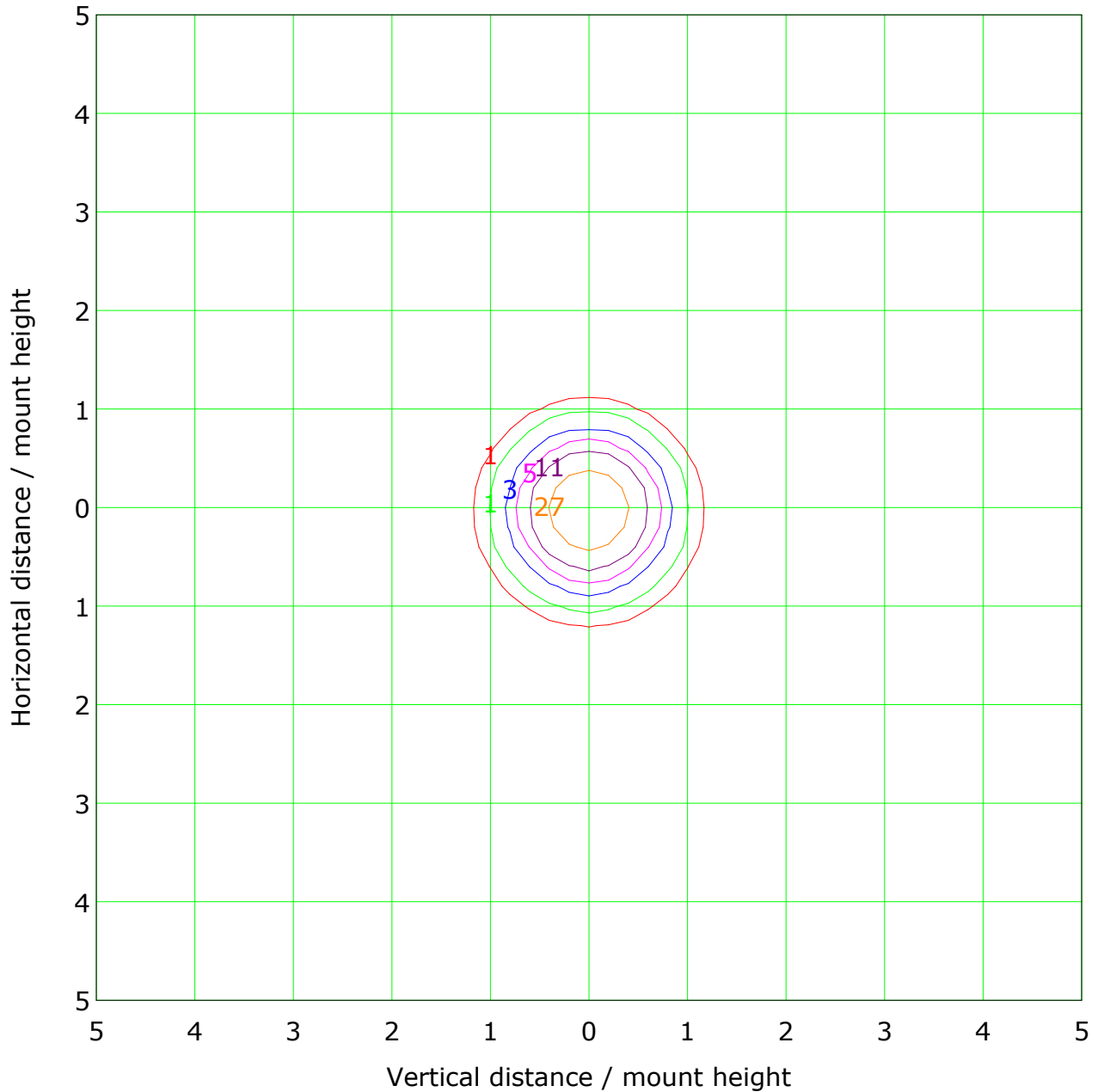
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 54.0 lx

(1%): 0.5 lx	(2%): 1.1 lx
(5%): 2.7 lx	(10%): 5.4 lx
(20%): 10.8 lx	(50%): 27.0 lx
(100%): 54.0 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

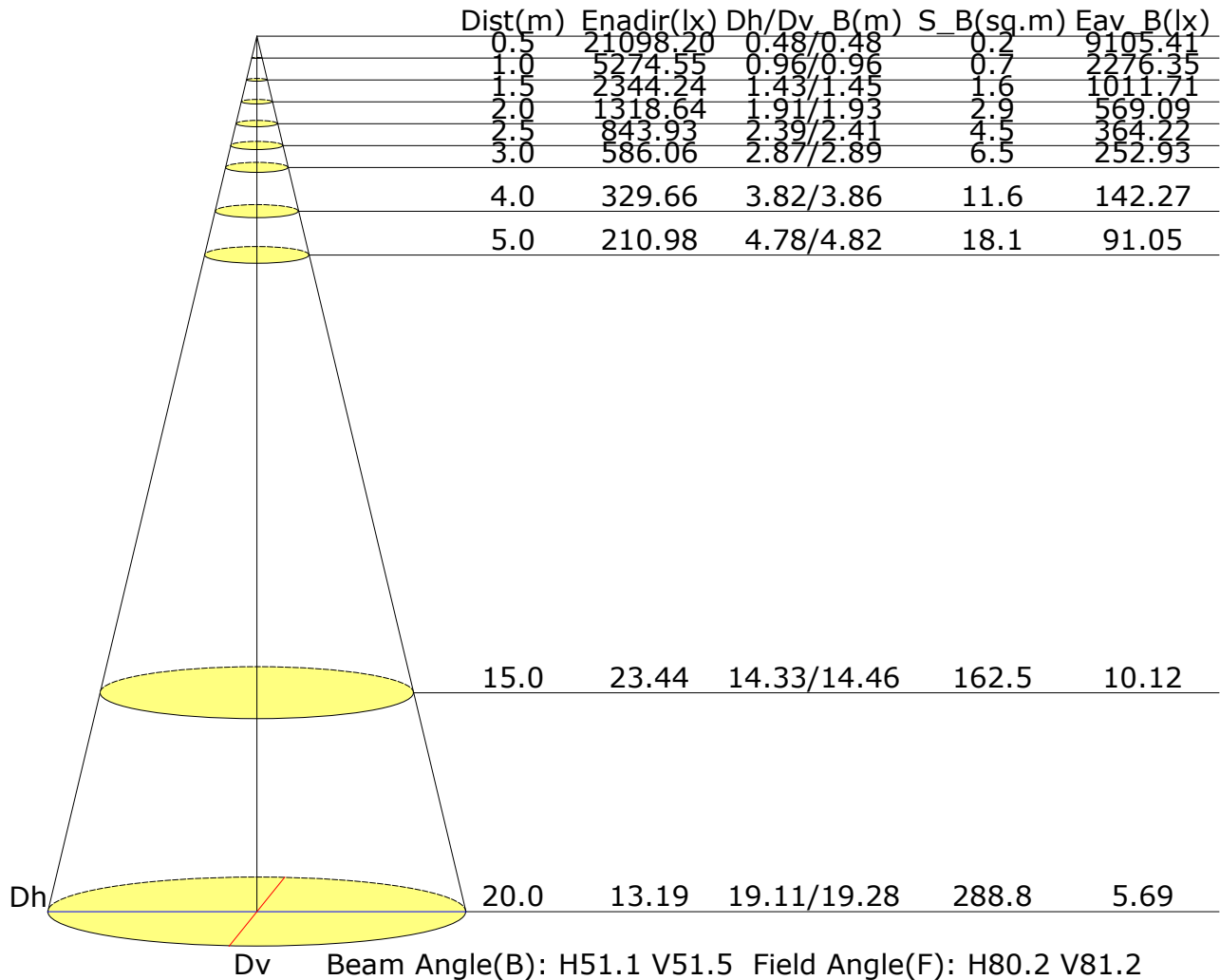
Test Device: CHL-6E

Distance: 3.328 m

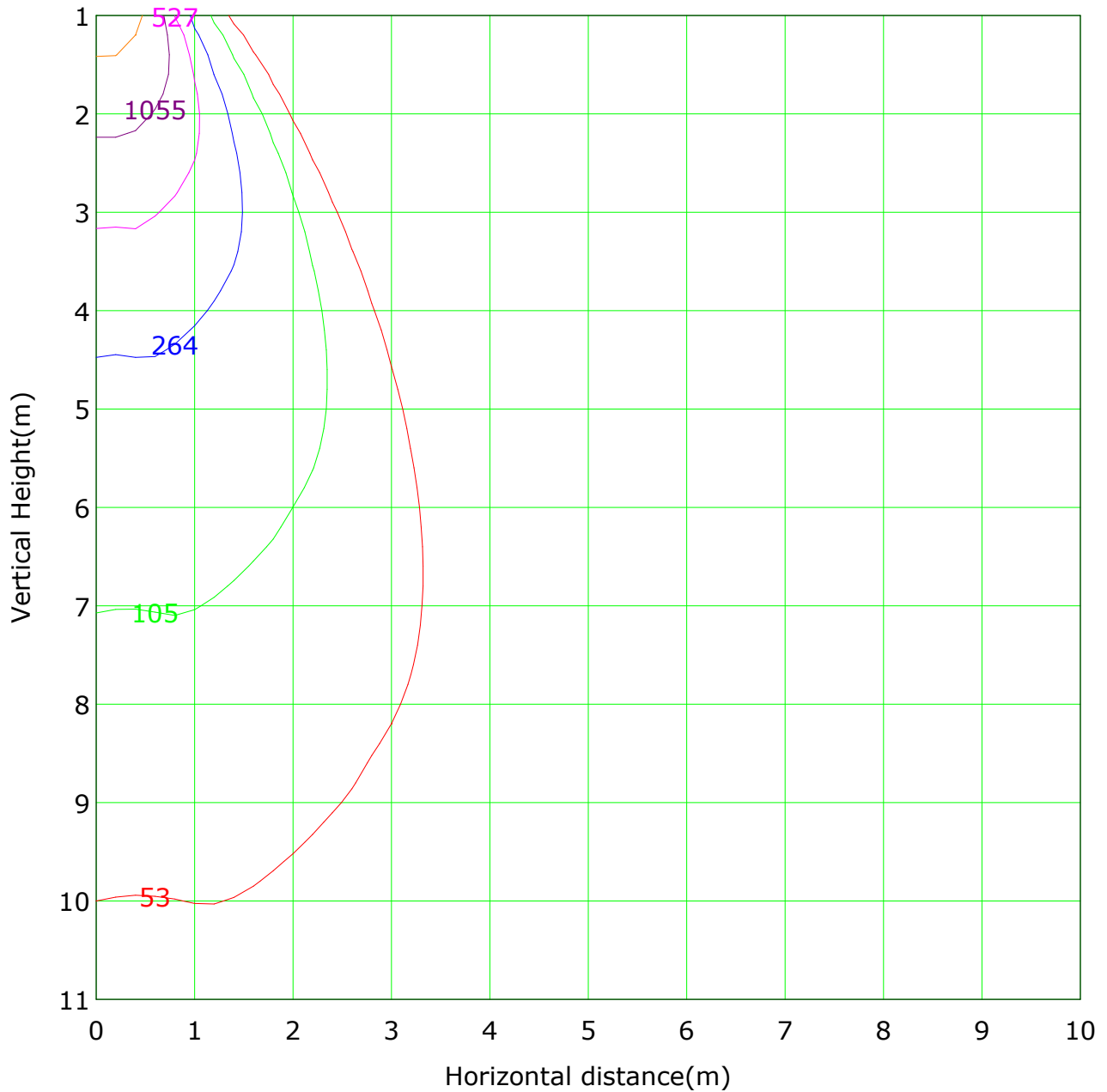
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 5274.5 lx

(1%): 52.7 lx	(2%): 105.5 lx
(5%): 263.7 lx	(10%): 527.5 lx
(20%): 1054.9 lx	(50%): 2637.3 lx
(100%): 5274.5 lx	

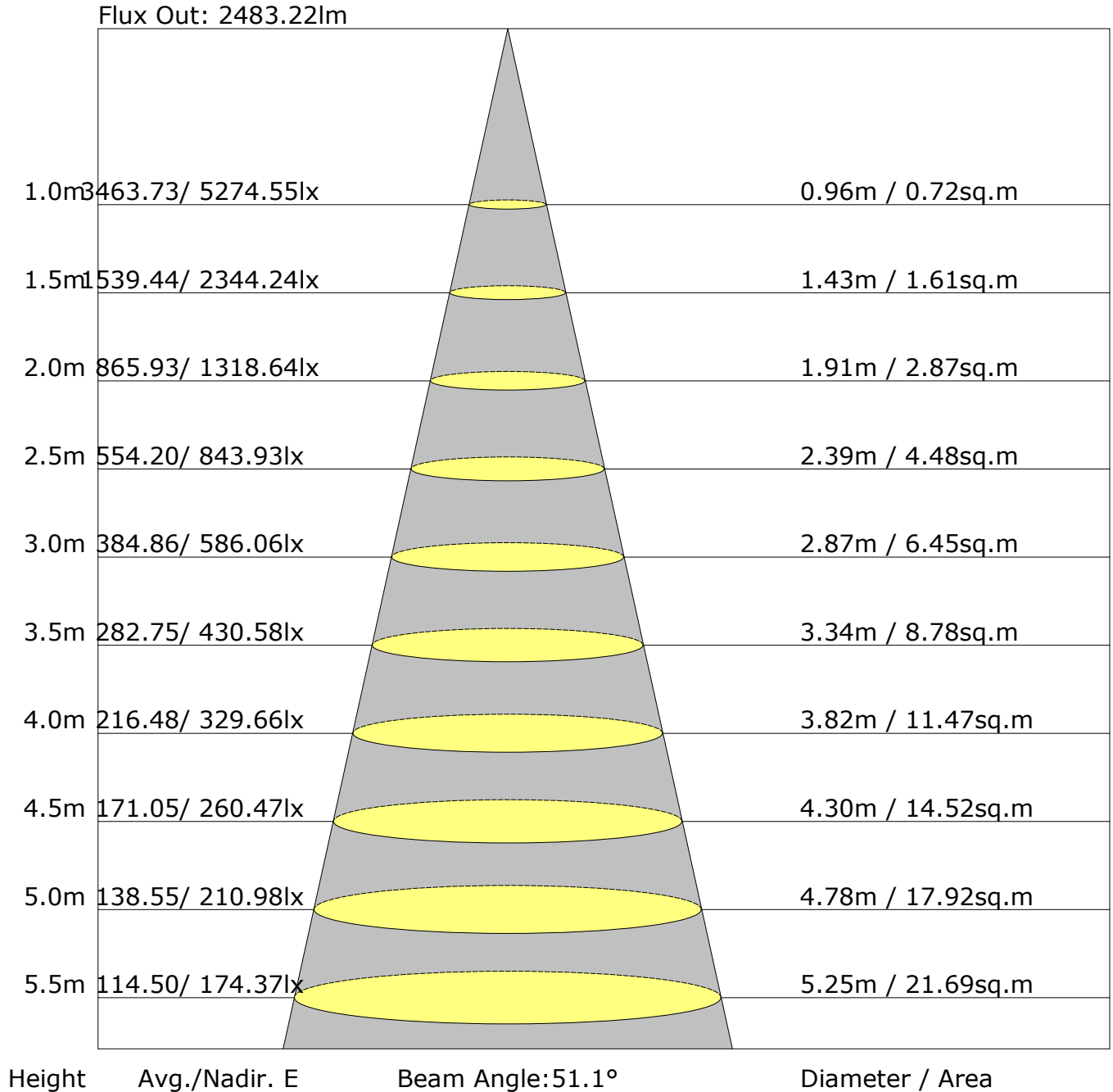
C Plane (°): 0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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



UGR Table

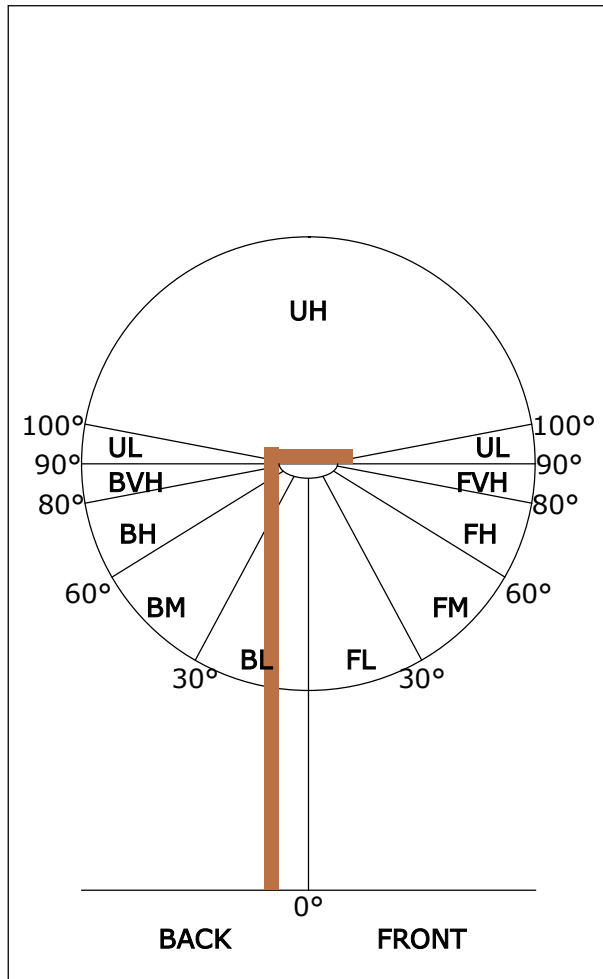
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	22.9	23.7	23.1	23.9	24.1	22.0	22.8	22.3	23.0	23.2
3H	22.7	23.5	23.0	23.7	24.0	21.9	22.6	22.1	22.8	23.1
4H	22.7	23.4	23.0	23.6	23.9	21.8	22.5	22.1	22.7	23.0
6H	22.6	23.2	22.9	23.5	23.8	21.7	22.4	22.0	22.6	22.9
8H	22.5	23.2	22.9	23.5	23.8	21.7	22.3	22.0	22.6	22.9
12H	22.5	23.1	22.9	23.4	23.7	21.6	22.2	22.0	22.5	22.9
X=4H Y=2H	22.7	23.4	23.0	23.7	23.9	21.8	22.5	22.1	22.8	23.1
3H	22.5	23.1	22.9	23.4	23.8	21.7	22.3	22.0	22.6	22.9
4H	22.5	23.0	22.8	23.3	23.7	21.6	22.1	22.0	22.5	22.8
6H	22.4	22.8	22.8	23.2	23.6	21.5	22.0	21.9	22.3	22.7
8H	22.3	22.8	22.8	23.1	23.6	21.5	21.9	21.9	22.3	22.7
12H	22.3	22.7	22.7	23.1	23.5	21.4	21.8	21.9	22.2	22.6
X=8H Y=4H	22.3	22.8	22.8	23.1	23.6	21.5	21.9	21.9	22.3	22.7
6H	22.2	22.6	22.7	23.0	23.5	21.4	21.7	21.8	22.1	22.6
8H	22.2	22.5	22.7	22.9	23.4	21.3	21.6	21.8	22.1	22.5
12H	22.1	22.4	22.6	22.9	23.4	21.3	21.5	21.8	22.0	22.5
X=12H Y=4H	22.3	22.7	22.7	23.1	23.5	21.4	21.8	21.9	22.2	22.6
6H	22.2	22.5	22.7	22.9	23.4	21.3	21.6	21.8	22.1	22.5
8H	22.1	22.4	22.6	22.9	23.4	21.3	21.5	21.8	22.0	22.5
Variations with the observer position at spacings:										
S=1.0H	+4.1/-6.6					+3.9/-7.3				
S=1.5H	+6.8/-20.6					+6.5/-22.4				
S=2.0H	+8.8/-1.\$					+8.5/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 4000lm ($8\log(F/F_0) = 4.8$).

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: 3.328 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2127	53.2
FL (0°-30°)	1561	39.0
FM (30°-60°)	563	14.1
FH (60°-80°)	3	0.1
FVH (80°-90°)	0	0.0
BACK LIGHT	1873	46.8
BL (0°-30°)	1433	35.8
BM (30°-60°)	439	11.0
BH (60°-80°)	1	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	5278.9	5.1	5.1	0.13	0.13
1.0-2.0	5293.2	15.2	20.2	0.38	0.51
2.0-3.0	5314.1	25.4	45.7	0.64	1.14
3.0-4.0	5322.2	35.6	81.3	0.89	2.03
4.0-5.0	5313.5	45.7	127.0	1.14	3.18
5.0-6.0	5303.2	55.7	182.8	1.39	4.57
6.0-7.0	5276.7	65.5	248.3	1.64	6.21
7.0-8.0	5219.1	74.7	323.0	1.87	8.07
8.0-9.0	5139.6	83.3	406.3	2.08	10.16
9.0-10.0	5045.5	91.3	497.6	2.28	12.44
10.0-11.0	4942.0	98.8	596.3	2.47	14.91
11.0-12.0	4836.4	105.7	702.1	2.64	17.55
12.0-13.0	4724.8	112.1	814.2	2.80	20.36
13.0-14.0	4600.4	117.8	932.0	2.94	23.30
14.0-15.0	4475.8	122.9	1054.9	3.07	26.37
15.0-16.0	4360.1	127.8	1182.7	3.19	29.57
16.0-17.0	4234.8	131.9	1314.6	3.30	32.87
17.0-18.0	4094.6	135.0	1449.6	3.38	36.24
18.0-19.0	3952.8	137.5	1587.1	3.44	39.68
19.0-20.0	3808.8	139.4	1726.5	3.49	43.17
20.0-21.0	3653.3	140.3	1866.8	3.51	46.67
21.0-22.0	3484.4	140.0	2006.9	3.50	50.17
22.0-23.0	3304.2	138.7	2145.6	3.47	53.64
23.0-24.0	3113.5	136.1	2281.7	3.40	57.05
24.0-25.0	2915.0	132.6	2414.3	3.31	60.36
25.0-26.0	2710.5	128.0	2542.2	3.20	63.56
26.0-27.0	2504.5	122.5	2664.8	3.06	66.62
27.0-28.0	2300.4	116.5	2781.2	2.91	69.53
28.0-29.0	2100.9	109.9	2891.2	2.75	72.28
29.0-30.0	1908.6	103.1	2994.2	2.58	74.86
30.0-31.0	1726.0	96.1	3090.3	2.40	77.26
31.0-32.0	1553.3	89.0	3179.3	2.23	79.49
32.0-33.0	1391.6	82.0	3261.3	2.05	81.54
33.0-34.0	1243.8	75.3	3336.6	1.88	83.42
34.0-35.0	1108.6	68.9	3405.4	1.72	85.14
35.0-36.0	985.2	62.7	3468.2	1.57	86.71

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

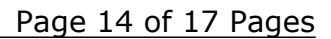
Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.328 m
Humidity:
Inspector:

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	873.9	57.0	3525.2	1.43	88.13
37.0-38.0	774.5	51.7	3576.9	1.29	89.43
38.0-39.0	686.9	46.9	3623.8	1.17	90.60
39.0-40.0	608.7	42.5	3666.2	1.06	91.66
40.0-41.0	539.2	38.4	3704.6	0.96	92.62
41.0-42.0	477.8	34.7	3739.3	0.87	93.49
42.0-43.0	423.2	31.4	3770.7	0.78	94.27
43.0-44.0	375.9	28.4	3799.1	0.71	94.98
44.0-45.0	334.4	25.7	3824.8	0.64	95.62
45.0-46.0	297.3	23.3	3848.0	0.58	96.21
46.0-47.0	264.3	21.0	3869.1	0.53	96.73
47.0-48.0	234.7	19.0	3888.0	0.47	97.21
48.0-49.0	207.3	17.0	3905.1	0.43	97.63
49.0-50.0	182.0	15.2	3920.2	0.38	98.01
50.0-51.0	158.6	13.4	3933.7	0.34	98.35
51.0-52.0	138.4	11.9	3945.5	0.30	98.64
52.0-53.0	120.3	10.5	3956.0	0.26	98.90
53.0-54.0	103.5	9.1	3965.1	0.23	99.13
54.0-55.0	87.9	7.8	3973.0	0.20	99.33
55.0-56.0	72.6	6.6	3979.5	0.16	99.49
56.0-57.0	59.5	5.4	3985.0	0.14	99.63
57.0-58.0	48.3	4.5	3989.4	0.11	99.74
58.0-59.0	37.7	3.5	3993.0	0.09	99.83
59.0-60.0	27.7	2.6	3995.6	0.07	99.89
60.0-61.0	19.0	1.8	3997.4	0.05	99.94
61.0-62.0	12.5	1.2	3998.6	0.03	99.97
62.0-63.0	7.8	0.8	3999.4	0.02	99.99
63.0-64.0	3.7	0.4	3999.7	0.01	100.00
64.0-65.0	0.9	0.1	3999.8	0.00	100.00
65.0-66.0	0.0	0.0	3999.8	0.00	100.00
66.0-67.0	0.0	0.0	3999.8	0.00	100.00
67.0-68.0	0.0	0.0	3999.8	0.00	100.00
68.0-69.0	0.0	0.0	3999.8	0.00	100.00
69.0-70.0	0.0	0.0	3999.8	0.00	100.00
70.0-71.0	0.0	0.0	3999.8	0.00	100.00
71.0-72.0	0.0	0.0	3999.8	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: 3.328 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	5274.5	5274.5								
G1.0	5238.4	5328.1								
G2.0	5219.7	5386.8								
G3.0	5228.4	5421.6								
G4.0	5259.6	5379.3								
G5.0	5308.2	5307.0								
G6.0	5376.8	5220.9								
G7.0	5384.3	5125.0								
G8.0	5339.4	5027.7								
G9.0	5272.0	4919.3								
G10.0	5181.0	4809.5								
G11.0	5077.6	4699.8								
G12.0	4977.9	4590.1								
G13.0	4871.9	4459.2								
G14.0	4759.7	4310.9								
G15.0	4650.0	4182.5								
G16.0	4549.0	4059.1								
G17.0	4405.6	3925.7								
G18.0	4267.3	3779.8								
G19.0	4151.3	3612.8								
G20.0	4034.1	3437.0								
G21.0	3899.5	3242.5								
G22.0	3758.6	3036.8								
G23.0	3596.6	2824.9								
G24.0	3419.5	2613.0								
G25.0	3228.8	2398.5								
G26.0	3026.9	2187.9								
G27.0	2821.1	1982.2								
G28.0	2613.0	1785.2								
G29.0	2402.3	1603.2								
G30.0	2197.8	1431.2								
G31.0	1999.6	1275.3								
G32.0	1806.4	1131.9								
G33.0	1624.4	1003.5								
G34.0	1458.6	888.9								
G35.0	1300.3	786.6								
G36.0	1156.9	696.9								

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: 3.328 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	1027.2	614.6								
G38.0	911.3	544.8								
G39.0	805.3	486.2								
G40.0	710.6	432.6								
G41.0	627.1	386.5								
G42.0	553.5	344.1								
G43.0	489.9	305.4								
G44.0	435.1	273.0								
G45.0	386.5	243.1								
G46.0	345.3	214.4								
G47.0	309.2	188.2								
G48.0	275.5	165.8								
G49.0	244.3	143.4								
G50.0	219.4	120.9								
G51.0	190.7	103.5								
G52.0	169.5	89.8								
G53.0	147.1	74.8								
G54.0	127.2	64.8								
G55.0	108.5	51.1								
G56.0	91.0	39.9								
G57.0	79.8	27.4								
G58.0	69.8	16.2								
G59.0	57.3	7.5								
G60.0	44.9	1.3								
G61.0	29.9	0.0								
G62.0	20.0	0.0								
G63.0	11.2	0.0								
G64.0	3.7	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

Temperature:

Operator:

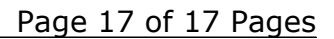
Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:



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