

Report No.:

Test Time: 2024-10-13 17:28

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 内调95 24D

Luminous Width (mm): -90

Current: 0.184 A

Power Factor: 0.983

Luminous Length (mm): -90

Voltage: 232.0 V

Power: 42.20 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 4755.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H31.6

Vertical Diffuse Angle(50%): V31.6

Luminaire Efficacy Rating (LER): 112.73

Max. Intensity: 15457.13 cd

S/MH(C0/C180): 0.53

Total Rated Lamp Lumens: 4755.3 lm

Efficiency: 100%

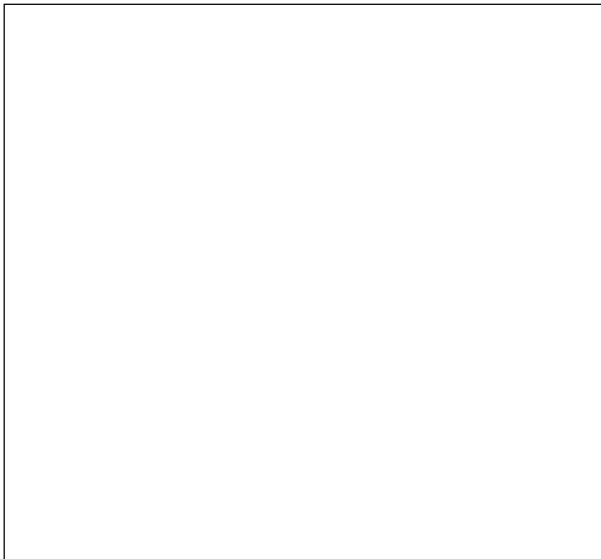
Upward Ratio: 0%

Central Intensity: 15457.13 cd

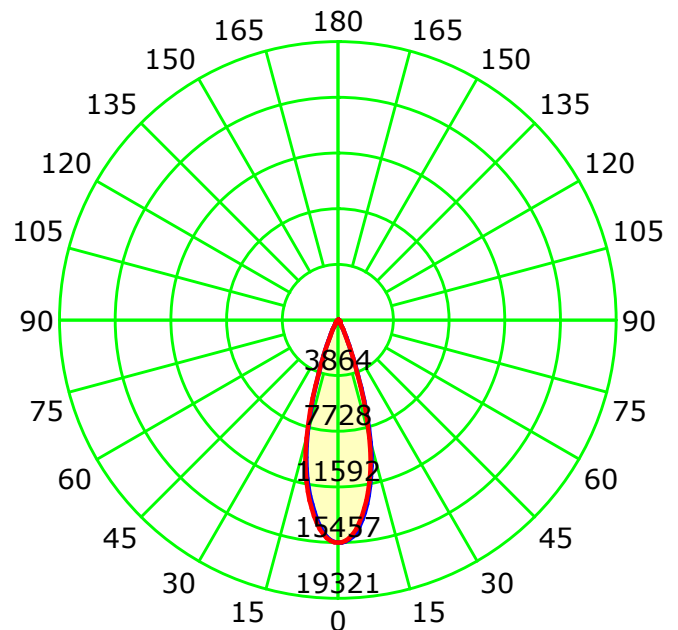
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.53

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

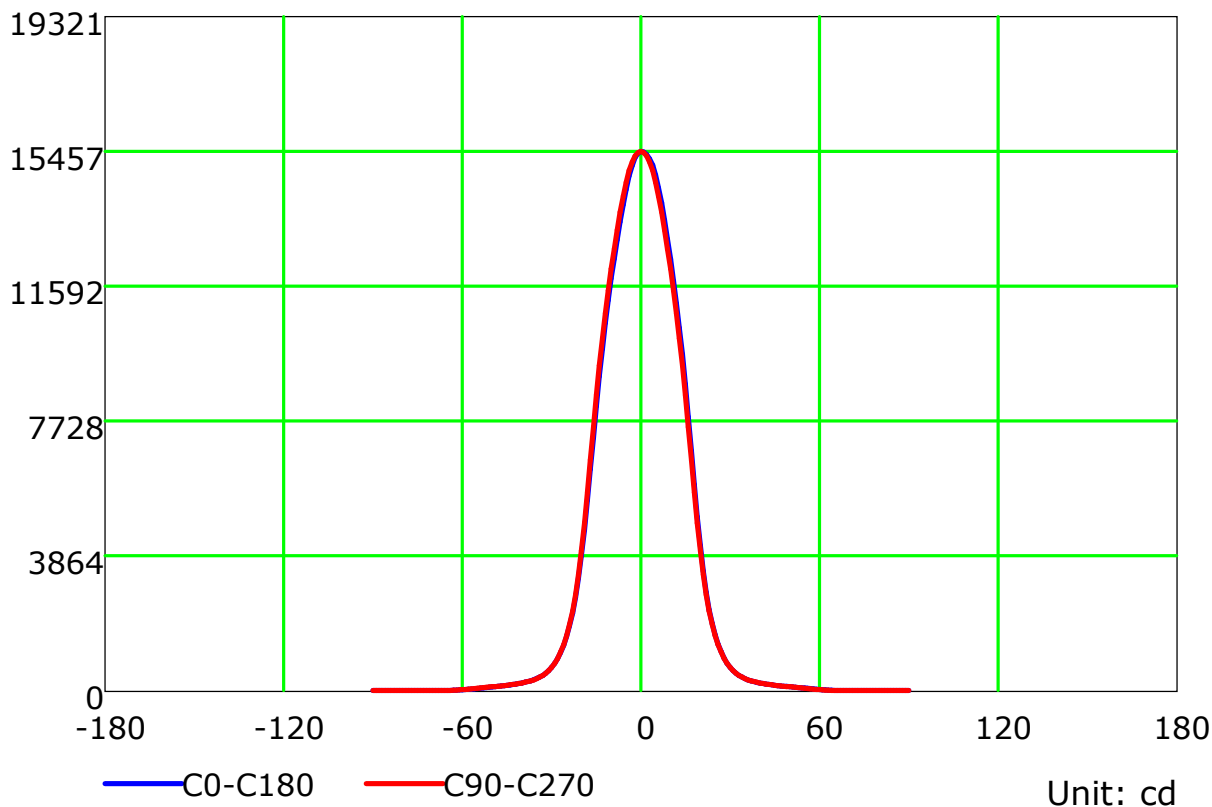
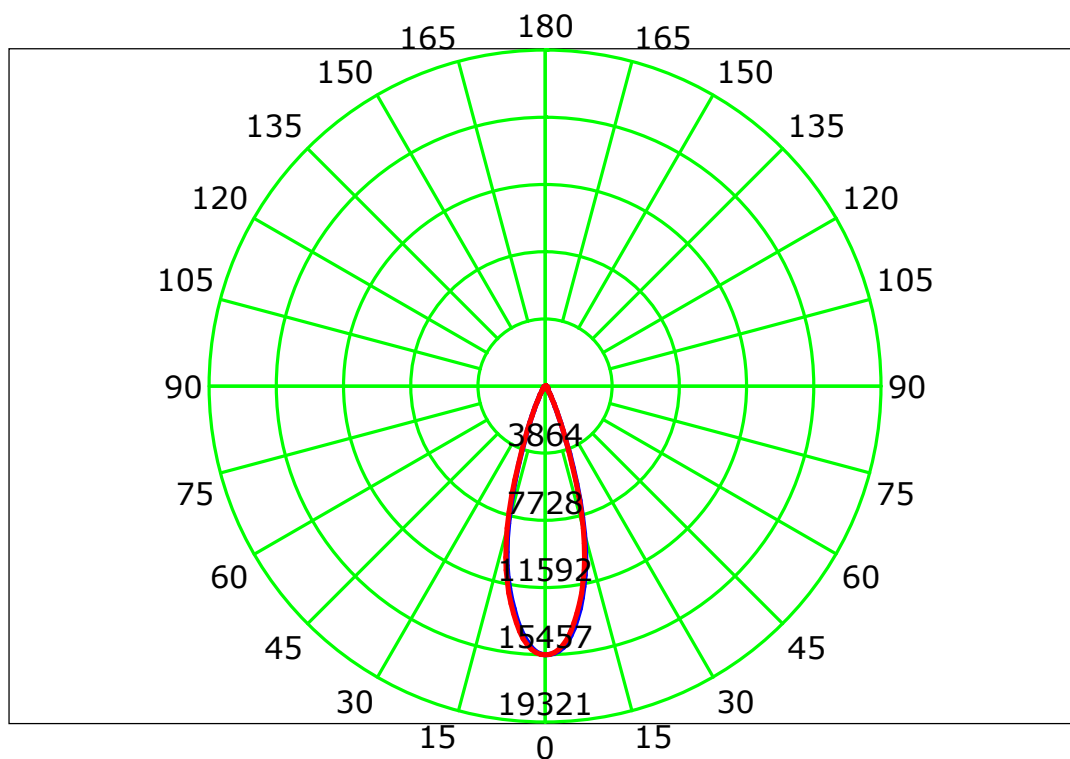
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

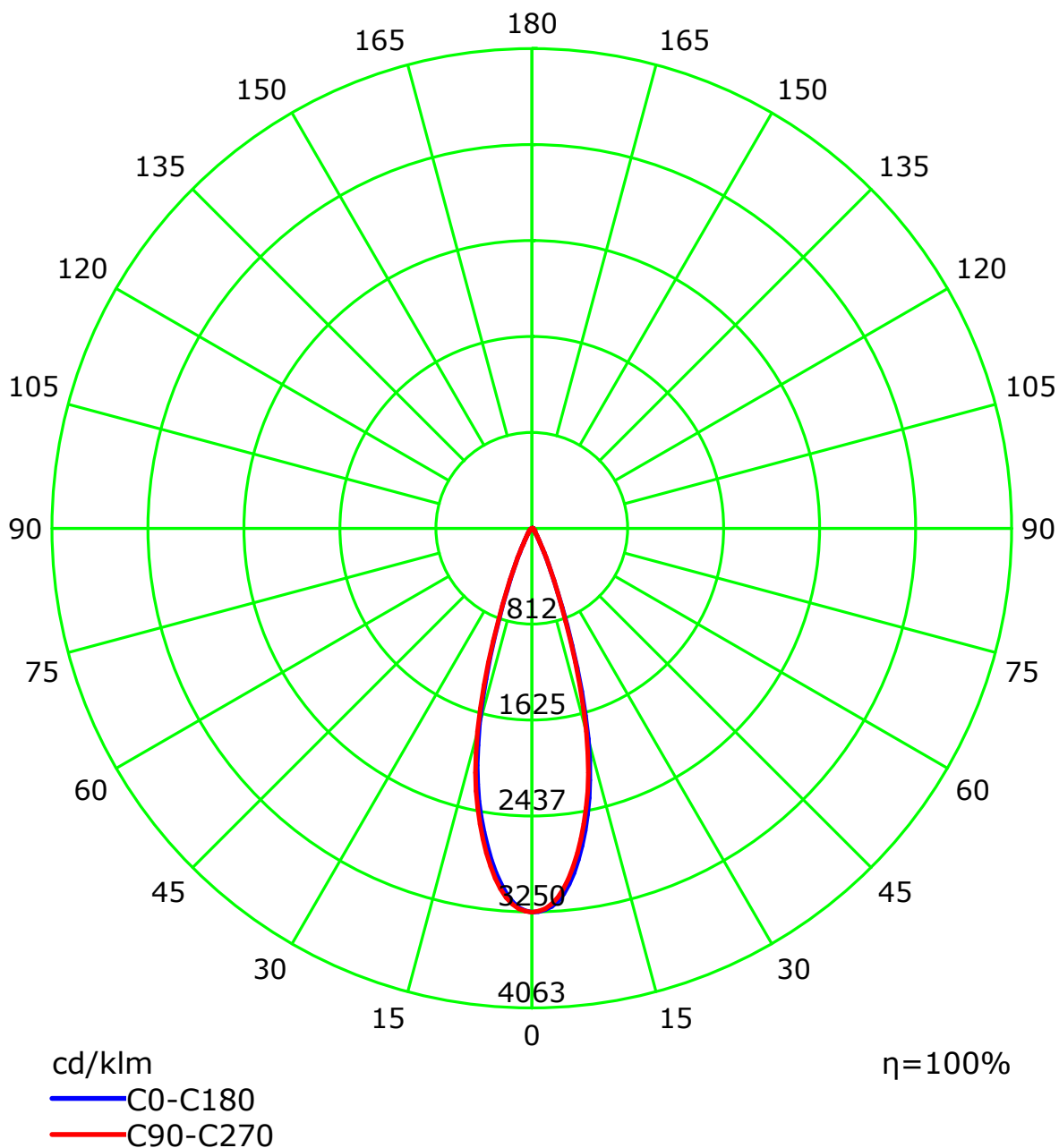
## Luminous Intensity Distribution Curve



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:

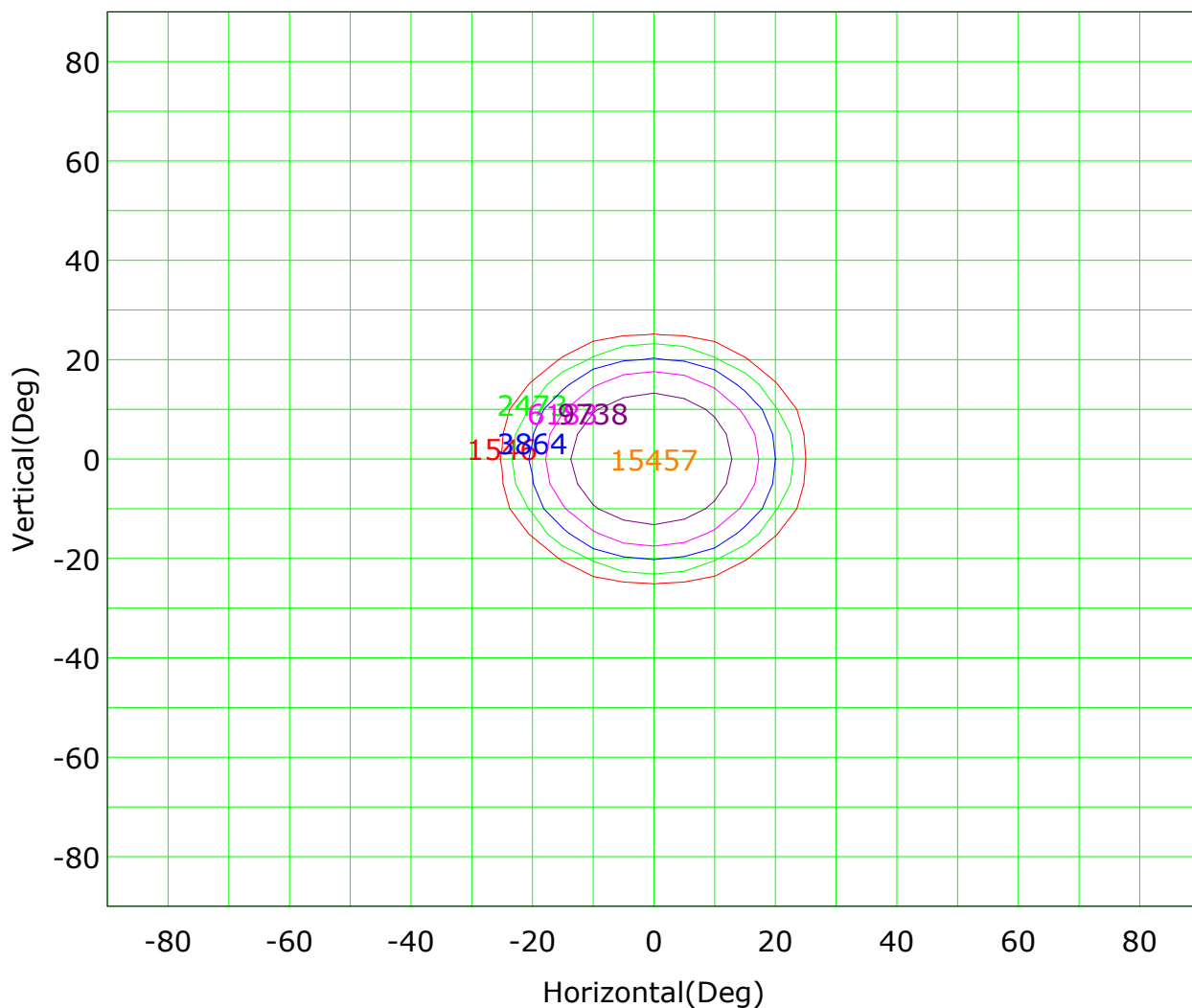
## Luminous Intensity Distribution Curve(cd/klm)



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%): 15457 cd

( 10%): 1546 cd	( 16%): 2473 cd
( 25%): 3864 cd	( 40%): 6183 cd
( 63%): 9738 cd	(100%): 15457 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

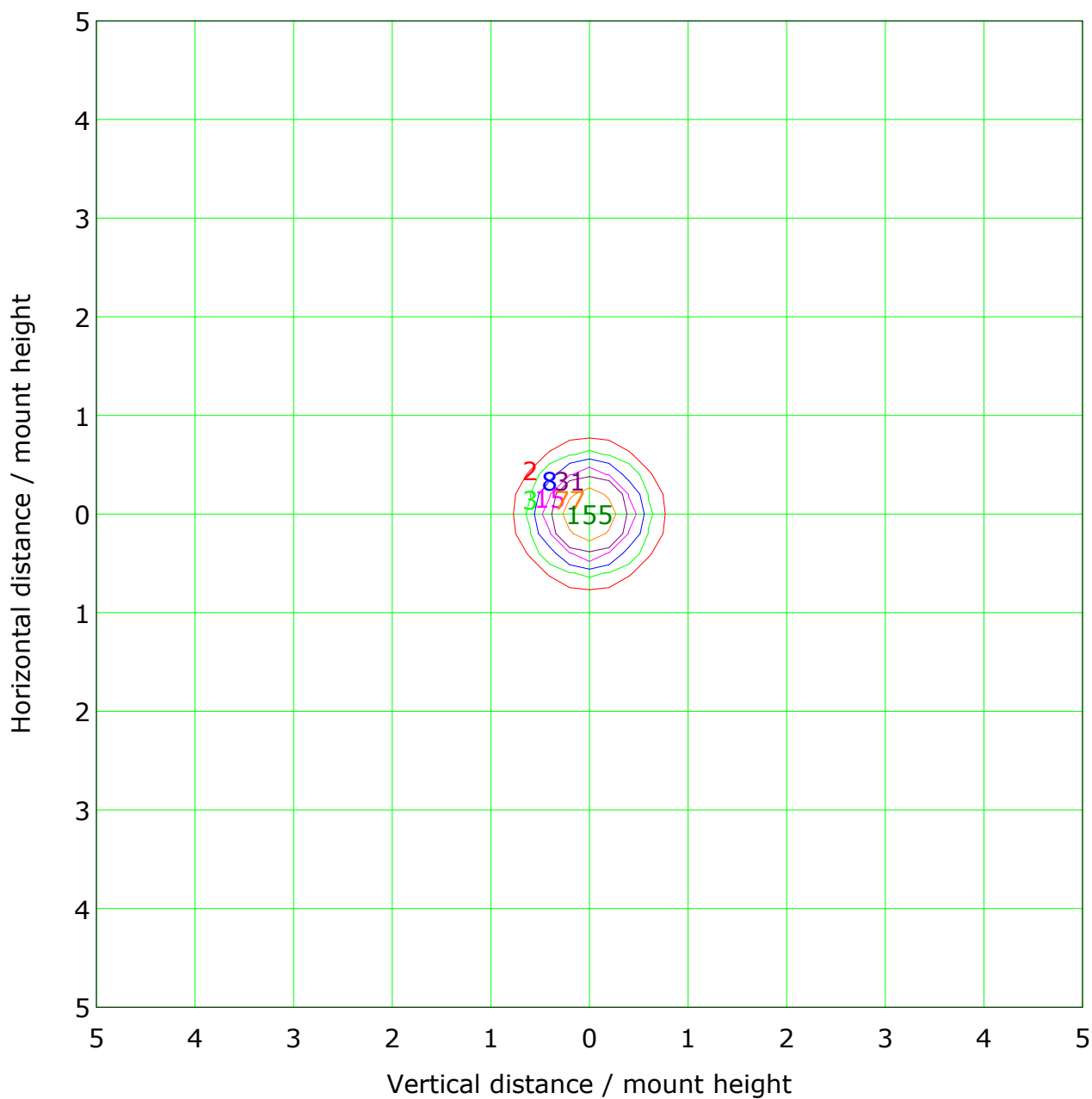
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



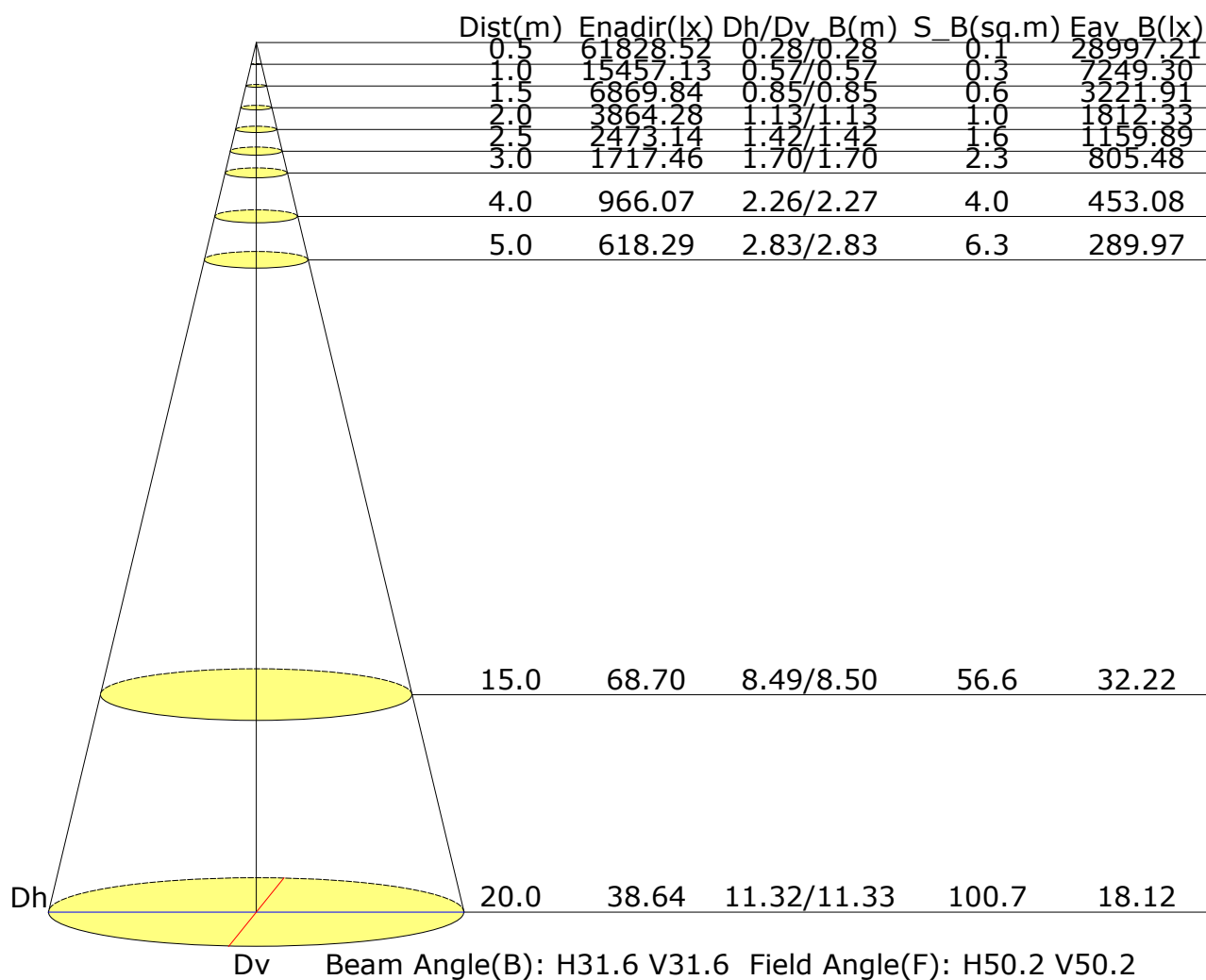
Mounting Height: 10.0m    Max Lux(100%): 154.6 lx

( 1%): 1.5 lx	( 2%): 3.1 lx
( 5%): 7.7 lx	( 10%): 15.5 lx
( 20%): 30.9 lx	( 50%): 77.3 lx
(100%): 154.6 lx	

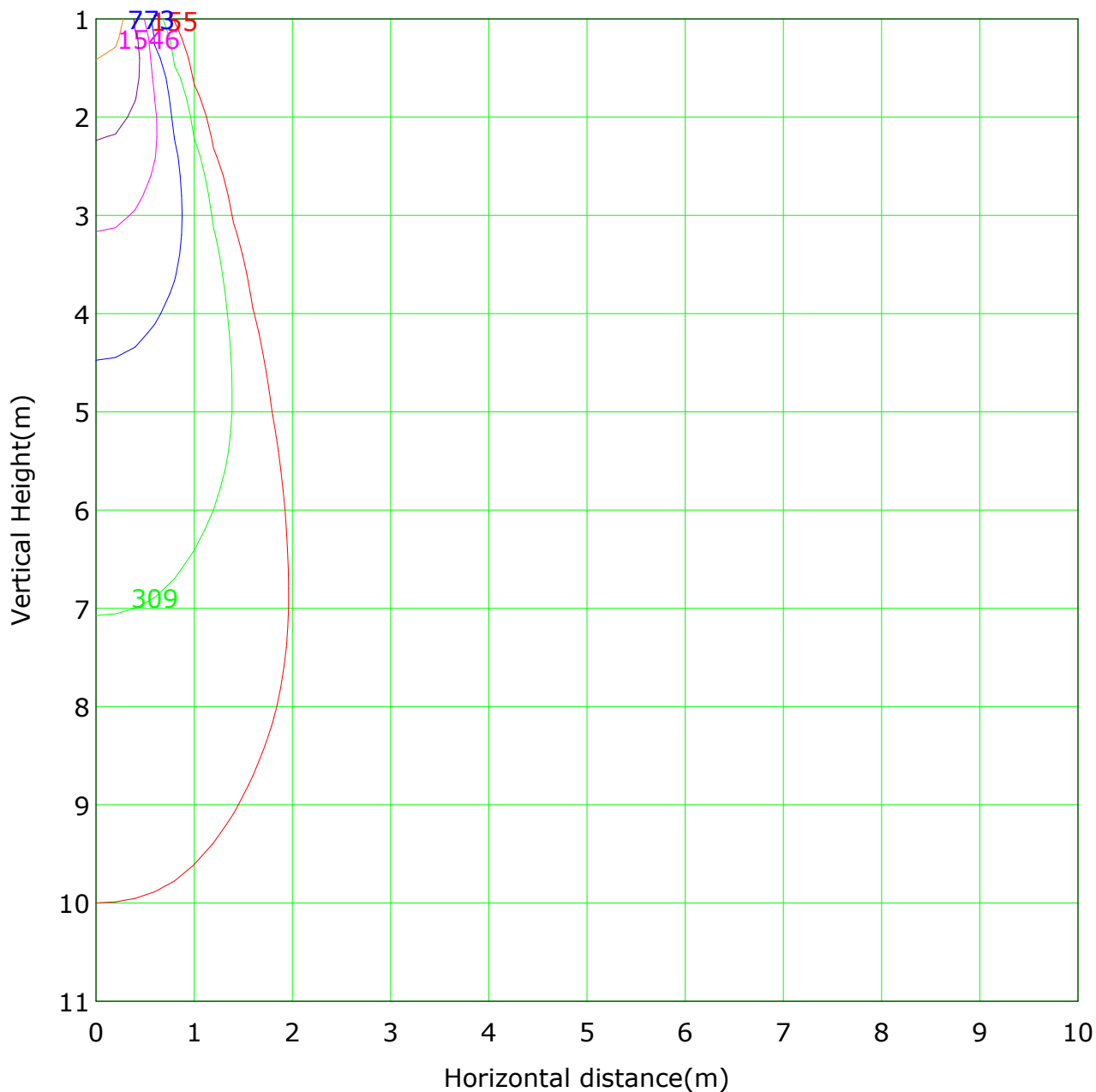
C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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: 15457.1 lx

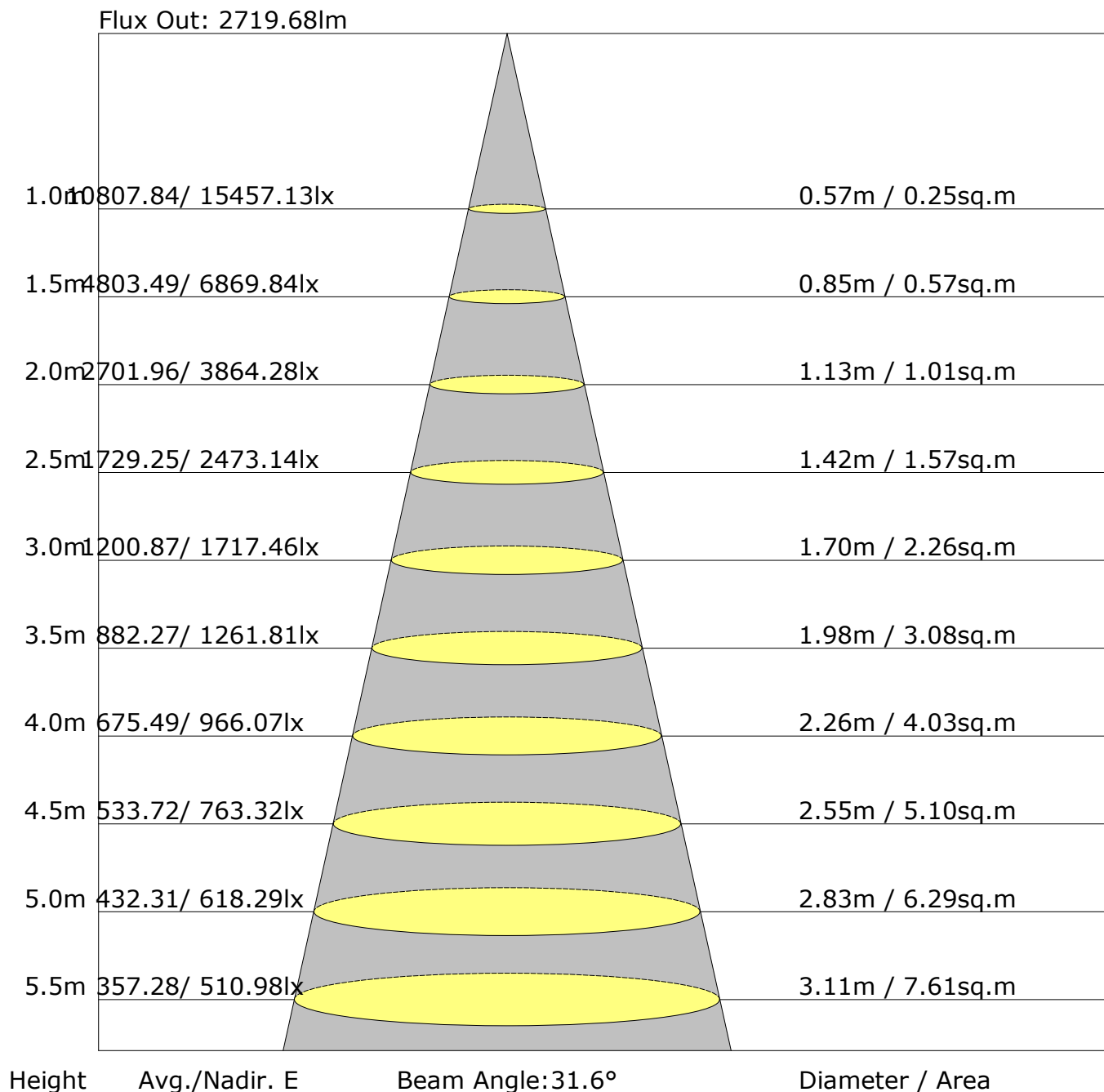
— ( 1%): 154.6 lx	— ( 2%): 309.1 lx
— ( 5%): 772.9 lx	— ( 10%): 1545.7 lx
— ( 20%): 3091.4 lx	— ( 50%): 7728.6 lx
— (100%): 15457.1 lx	

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:

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

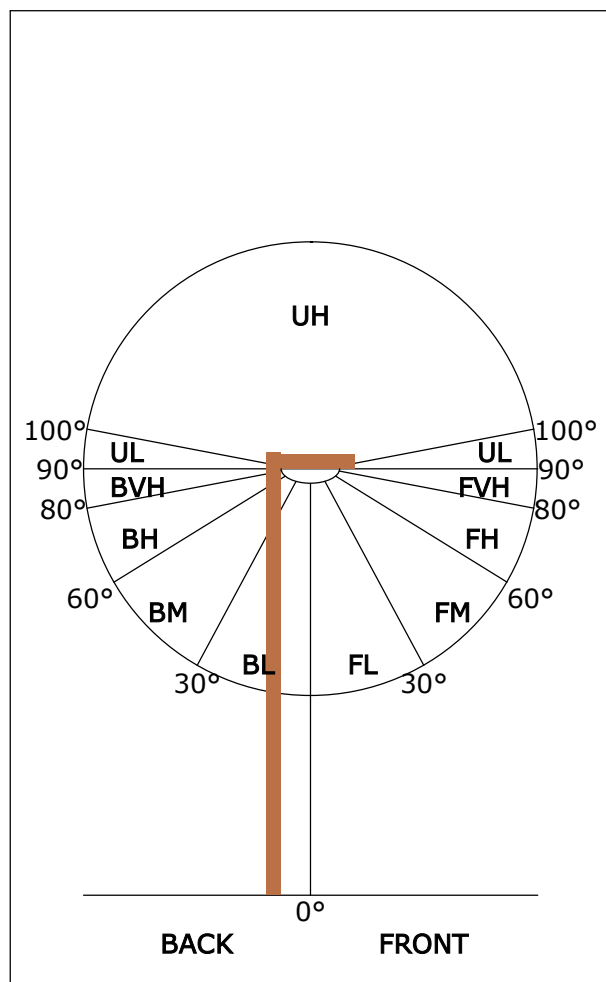
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	16.0	16.6	16.2	16.8	17.0	15.9	16.5	16.1	16.7	16.9
3H	15.8	16.4	16.1	16.7	16.9	15.7	16.3	16.0	16.6	16.8
4H	15.8	16.3	16.1	16.6	16.9	15.7	16.2	16.0	16.5	16.7
6H	15.7	16.2	16.0	16.5	16.8	15.6	16.1	15.9	16.4	16.7
8H	15.7	16.2	16.0	16.5	16.8	15.5	16.1	15.9	16.3	16.6
12H	15.6	16.1	16.0	16.4	16.7	15.5	16.0	15.9	16.3	16.6
X=4H Y=2H	15.9	16.5	16.2	16.7	17.0	15.8	16.4	16.1	16.6	16.9
3H	15.7	16.2	16.1	16.5	16.9	15.6	16.1	16.0	16.4	16.7
4H	15.7	16.1	16.0	16.4	16.8	15.6	16.0	15.9	16.3	16.7
6H	15.6	16.0	16.0	16.3	16.7	15.5	15.8	15.9	16.2	16.6
8H	15.5	15.9	15.9	16.3	16.7	15.4	15.8	15.8	16.2	16.6
12H	15.5	15.8	15.9	16.2	16.6	15.4	15.7	15.8	16.1	16.5
X=8H Y=4H	15.5	15.9	15.9	16.3	16.7	15.4	15.8	15.8	16.2	16.6
6H	15.4	15.7	15.9	16.1	16.6	15.3	15.6	15.8	16.0	16.5
8H	15.4	15.6	15.8	16.1	16.5	15.3	15.5	15.7	16.0	16.4
12H	15.3	15.5	15.8	16.0	16.5	15.2	15.4	15.7	15.9	16.4
X=12H Y=4H	15.5	15.8	15.9	16.2	16.6	15.4	15.7	15.8	16.1	16.5
6H	15.4	15.6	15.8	16.1	16.5	15.3	15.5	15.7	16.0	16.4
8H	15.3	15.5	15.8	16.0	16.5	15.2	15.4	15.7	15.9	16.4
Variations with the observer position at spacings:										
S=1.0H	+2.4/-2.6					+2.4/-2.9				
S=1.5H	+4.6/-9.6					+4.7/-10.4				
S=2.0H	+6.5/-1.\$					+6.6/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with  $4755\text{lm}$  ( $8\log(F/F_0) = 5.4$ ).

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	2407	50.6
FL ( 0°-30°)	2195	46.2
FM (30°-60°)	208	4.4
FH (60°-80°)	5	0.1
FVH (80°-90°)	0	0.0
BACK LIGHT	2348	49.4
BL ( 0°-30°)	2139	45.0
BM (30°-60°)	206	4.3
BH (60°-80°)	4	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: 3.328 m  
Humidity:  
Inspector:

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	15440.3	14.8	14.8	0.31	0.31
1.0-2.0	15377.0	44.1	58.9	0.93	1.24
2.0-3.0	15243.0	72.9	131.8	1.53	2.77
3.0-4.0	15033.0	100.6	232.5	2.12	4.89
4.0-5.0	14742.5	126.8	359.3	2.67	7.56
5.0-6.0	14374.1	151.1	510.4	3.18	10.73
6.0-7.0	13944.0	173.1	683.5	3.64	14.37
7.0-8.0	13459.4	192.7	876.1	4.05	18.42
8.0-9.0	12934.9	209.7	1085.8	4.41	22.83
9.0-10.0	12377.0	224.0	1309.8	4.71	27.54
10.0-11.0	11780.2	235.4	1545.2	4.95	32.50
11.0-12.0	11145.9	243.7	1788.9	5.12	37.62
12.0-13.0	10462.1	248.3	2037.2	5.22	42.84
13.0-14.0	9714.2	248.7	2285.9	5.23	48.07
14.0-15.0	8898.9	244.3	2530.3	5.14	53.21
15.0-16.0	8014.7	234.9	2765.1	4.94	58.15
16.0-17.0	7082.8	220.6	2985.7	4.64	62.79
17.0-18.0	6147.8	202.7	3188.5	4.26	67.05
18.0-19.0	5244.3	182.5	3370.9	3.84	70.89
19.0-20.0	4405.9	161.3	3532.2	3.39	74.28
20.0-21.0	3668.2	140.9	3673.1	2.96	77.24
21.0-22.0	3039.3	122.2	3795.2	2.57	79.81
22.0-23.0	2513.9	105.5	3900.7	2.22	82.03
23.0-24.0	2084.7	91.2	3991.9	1.92	83.95
24.0-25.0	1734.4	78.9	4070.8	1.66	85.61
25.0-26.0	1446.1	68.3	4139.0	1.44	87.04
26.0-27.0	1209.6	59.2	4198.2	1.24	88.29
27.0-28.0	1014.1	51.4	4249.6	1.08	89.37
28.0-29.0	854.0	44.7	4294.3	0.94	90.31
29.0-30.0	724.6	39.1	4333.4	0.82	91.13
30.0-31.0	619.9	34.5	4367.9	0.73	91.85
31.0-32.0	536.1	30.7	4398.6	0.65	92.50
32.0-33.0	468.1	27.6	4426.2	0.58	93.08
33.0-34.0	413.0	25.0	4451.2	0.53	93.61
34.0-35.0	368.1	22.9	4474.0	0.48	94.09
35.0-36.0	329.1	21.0	4495.0	0.44	94.53

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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	296.7	19.4	4514.4	0.41	94.93
37.0-38.0	270.5	18.1	4532.4	0.38	95.31
38.0-39.0	248.7	17.0	4549.4	0.36	95.67
39.0-40.0	229.1	16.0	4565.4	0.34	96.01
40.0-41.0	211.9	15.1	4580.5	0.32	96.32
41.0-42.0	197.3	14.3	4594.8	0.30	96.63
42.0-43.0	183.3	13.6	4608.4	0.29	96.91
43.0-44.0	171.1	12.9	4621.3	0.27	97.18
44.0-45.0	160.2	12.3	4633.6	0.26	97.44
45.0-46.0	149.6	11.7	4645.3	0.25	97.69
46.0-47.0	139.6	11.1	4656.4	0.23	97.92
47.0-48.0	130.6	10.6	4667.0	0.22	98.14
48.0-49.0	122.5	10.1	4677.0	0.21	98.35
49.0-50.0	114.4	9.5	4686.6	0.20	98.56
50.0-51.0	106.0	9.0	4695.5	0.19	98.74
51.0-52.0	97.9	8.4	4703.9	0.18	98.92
52.0-53.0	89.4	7.8	4711.7	0.16	99.08
53.0-54.0	80.4	7.1	4718.8	0.15	99.23
54.0-55.0	71.4	6.4	4725.2	0.13	99.37
55.0-56.0	62.6	5.7	4730.8	0.12	99.49
56.0-57.0	54.9	5.0	4735.8	0.11	99.59
57.0-58.0	47.1	4.4	4740.2	0.09	99.68
58.0-59.0	39.0	3.6	4743.8	0.08	99.76
59.0-60.0	31.5	3.0	4746.8	0.06	99.82
60.0-61.0	25.6	2.4	4749.3	0.05	99.87
61.0-62.0	19.9	1.9	4751.2	0.04	99.91
62.0-63.0	15.0	1.5	4752.6	0.03	99.94
63.0-64.0	10.6	1.0	4753.7	0.02	99.97
64.0-65.0	7.2	0.7	4754.4	0.01	99.98
65.0-66.0	5.0	0.5	4754.9	0.01	99.99
66.0-67.0	2.8	0.3	4755.2	0.01	100.00
67.0-68.0	0.9	0.1	4755.3	0.00	100.00
68.0-69.0	0.0	0.0	4755.3	0.00	100.00
69.0-70.0	0.0	0.0	4755.3	0.00	100.00
70.0-71.0	0.0	0.0	4755.3	0.00	100.00
71.0-72.0	0.0	0.0	4755.3	0.00	100.00

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: 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	15457.1	15457.1								
G1.0	15440.9	15406.0								
G2.0	15373.6	15287.6								
G3.0	15248.9	15061.9								
G4.0	15066.9	14754.0								
G5.0	14781.5	14367.6								
G6.0	14411.2	13936.2								
G7.0	13982.3	13446.3								
G8.0	13483.7	12925.2								
G9.0	12947.6	12382.9								
G10.0	12364.2	11813.2								
G11.0	11745.9	11197.3								
G12.0	11102.6	10537.9								
G13.0	10408.2	9799.9								
G14.0	9640.3	9008.2								
G15.0	8787.6	8159.3								
G16.0	7852.6	7259.2								
G17.0	6871.5	6347.9								
G18.0	5907.8	5464.0								
G19.0	4989.1	4616.3								
G20.0	4151.3	3867.1								
G21.0	3432.0	3222.6								
G22.0	2824.9	2677.8								
G23.0	2325.0	2227.8								
G24.0	1924.8	1861.2								
G25.0	1599.4	1552.1								
G26.0	1331.4	1301.5								
G27.0	1113.3	1092.1								
G28.0	931.2	920.0								
G29.0	784.1	780.4								
G30.0	665.7	668.2								
G31.0	571.0	574.7								
G32.0	498.7	499.9								
G33.0	435.1	438.8								
G34.0	389.0	389.0								
G35.0	345.3	349.1								
G36.0	309.2	312.9								

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	280.5	284.2								
G38.0	258.1	259.3								
G39.0	238.1	239.4								
G40.0	219.4	219.4								
G41.0	204.4	204.4								
G42.0	190.7	189.5								
G43.0	177.0	175.8								
G44.0	168.3	163.3								
G45.0	155.8	153.3								
G46.0	144.6	144.6								
G47.0	134.6	134.6								
G48.0	128.4	124.7								
G49.0	120.9	115.9								
G50.0	114.7	106.0								
G51.0	104.7	98.5								
G52.0	98.5	89.8								
G53.0	89.8	79.8								
G54.0	81.0	71.1								
G55.0	73.6	59.8								
G56.0	64.8	52.4								
G57.0	57.3	44.9								
G58.0	48.6	37.4								
G59.0	39.9	29.9								
G60.0	32.4	23.7								
G61.0	27.4	18.7								
G62.0	20.0	13.7								
G63.0	16.2	10.0								
G64.0	11.2	5.0								
G65.0	8.7	3.7								
G66.0	6.2	1.3								
G67.0	3.7	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:

Unit: cd

[illegible]

Inspector: