

Report No.:

Test Time: 2024-10-13 17:46

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 内调75 50D

Luminous Width (mm): -70

Current: 0.139 A

Power Factor: 0.977

Luminous Length (mm): -70

Voltage: 233.6 V

Power: 32.00 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 3602.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H58.5

Vertical Diffuse Angle(50%): V58.5

Luminaire Efficacy Rating (LER): 112.63

Max. Intensity: 4199.94 cd

S/MH(C0/C180): 0.92

Total Rated Lamp Lumens: 3602.6 lm

Efficiency: 100%

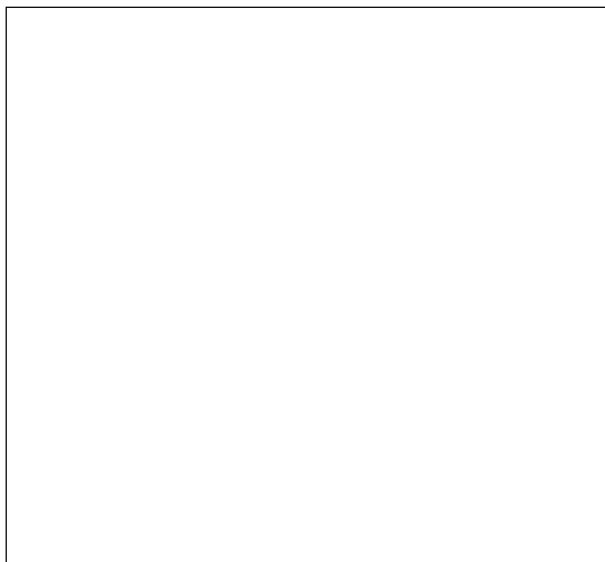
Upward Ratio: 0%

Central Intensity: 4191.21 cd

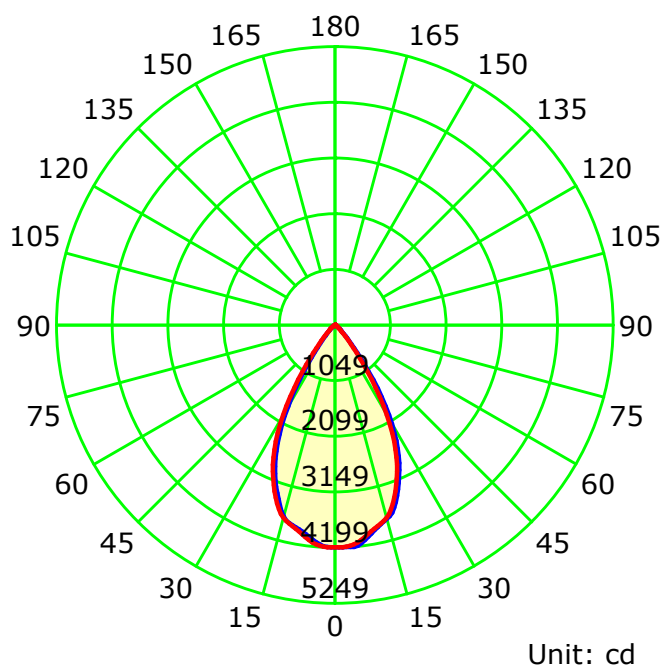
Pos of Max. Intensity: H0 V5

S/MH(C90/C270): 0.92

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

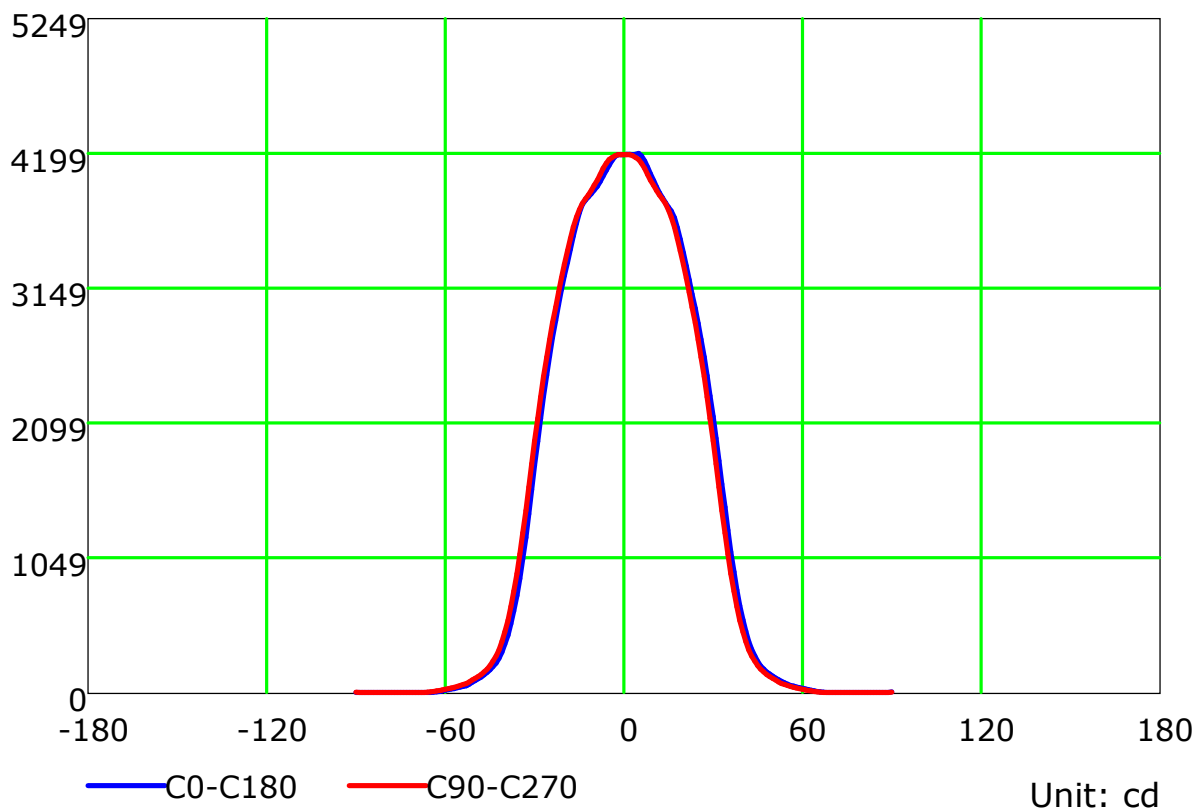
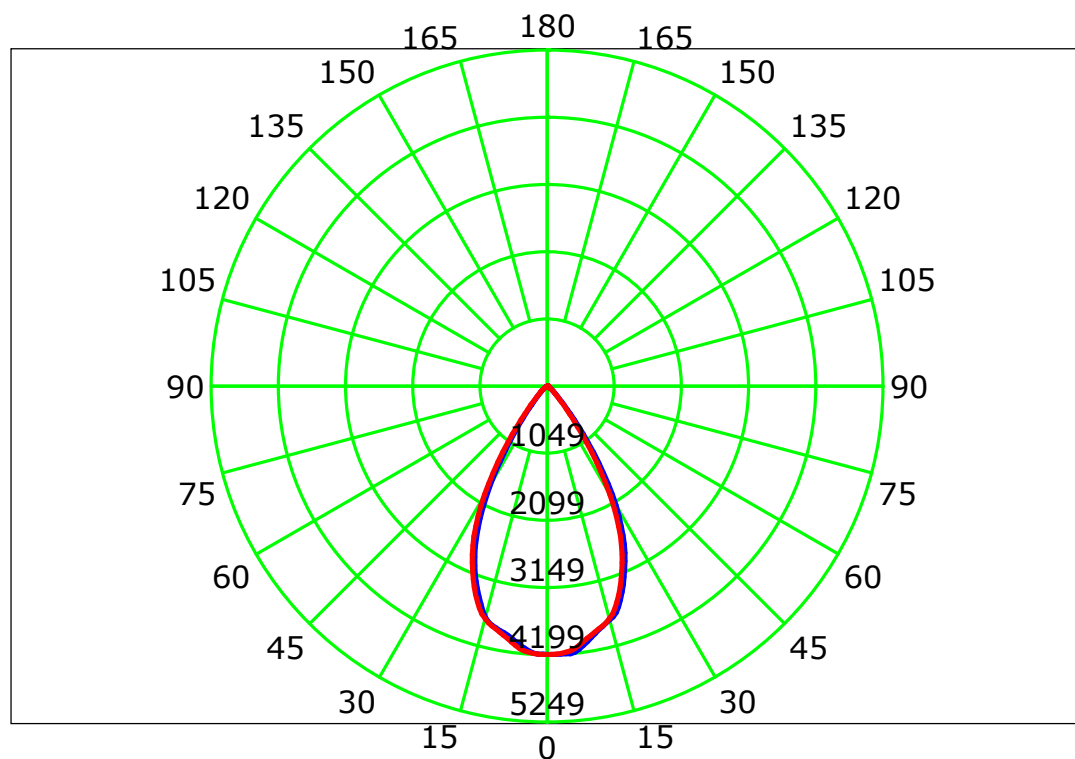
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

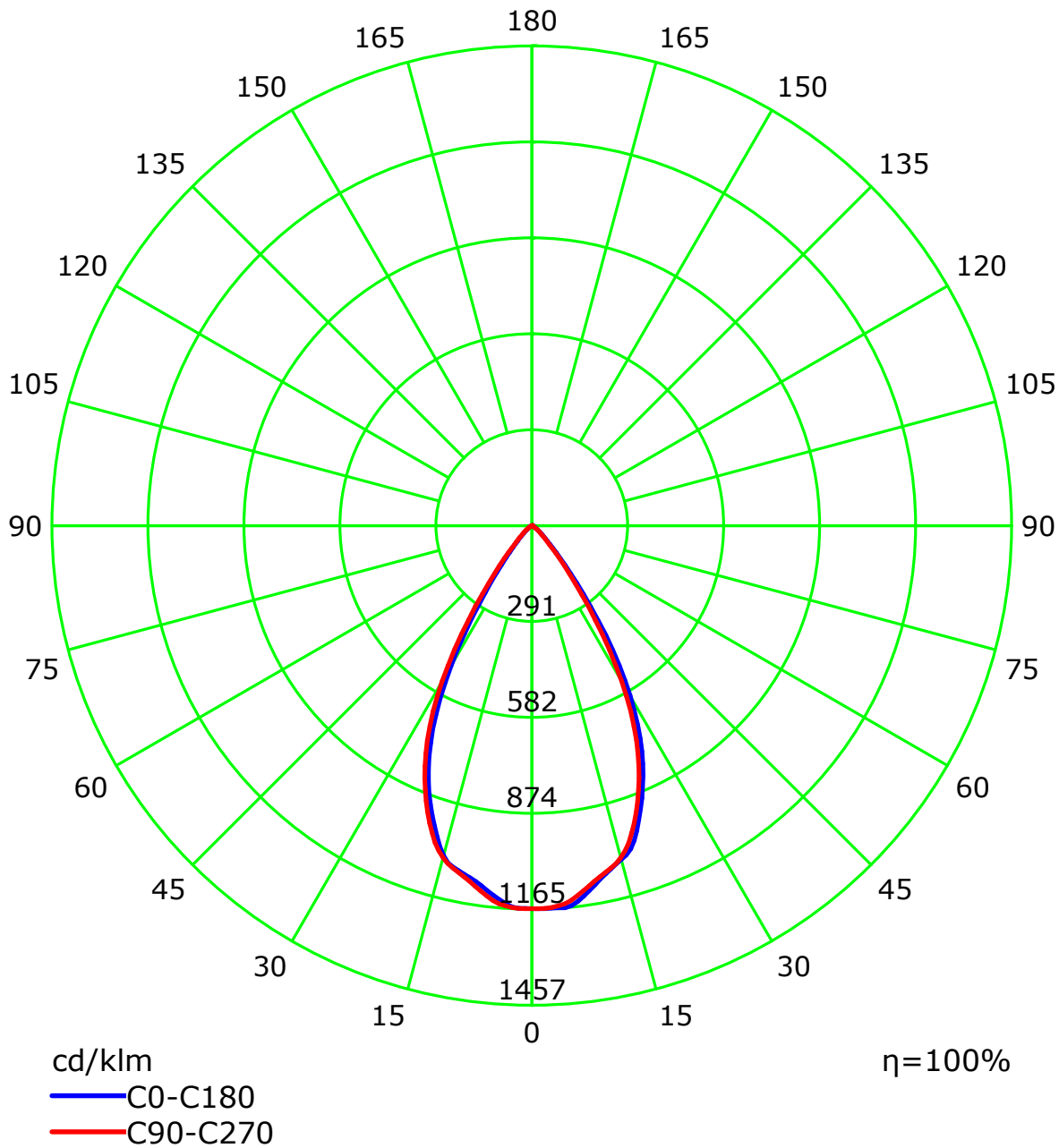
## Luminous Intensity Distribution Curve



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:

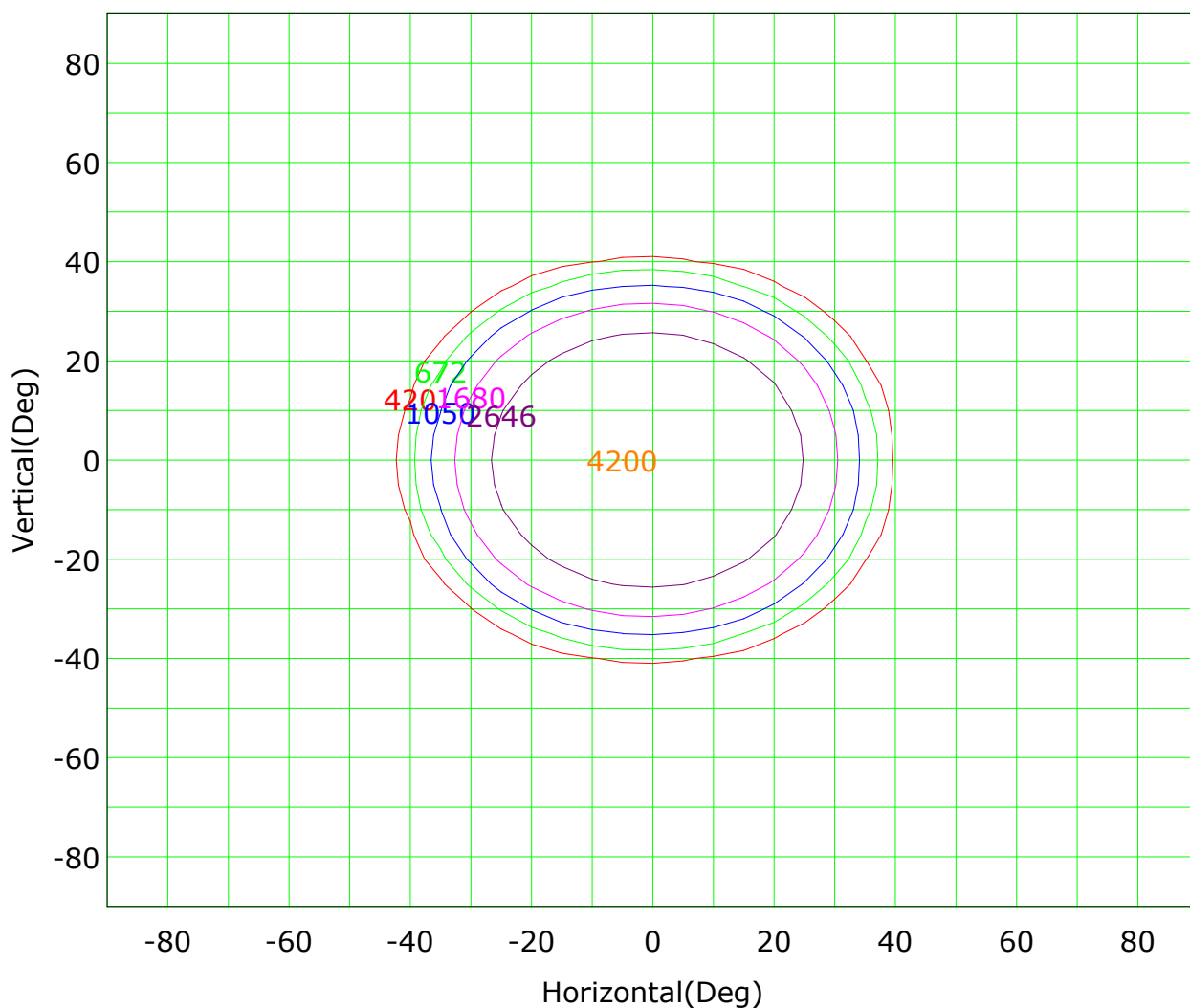
## Luminous Intensity Distribution Curve(cd/klm)



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%): 4200 cd

( 10%): 420 cd	( 16%): 672 cd
( 25%): 1050 cd	( 40%): 1680 cd
( 63%): 2646 cd	(100%): 4200 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

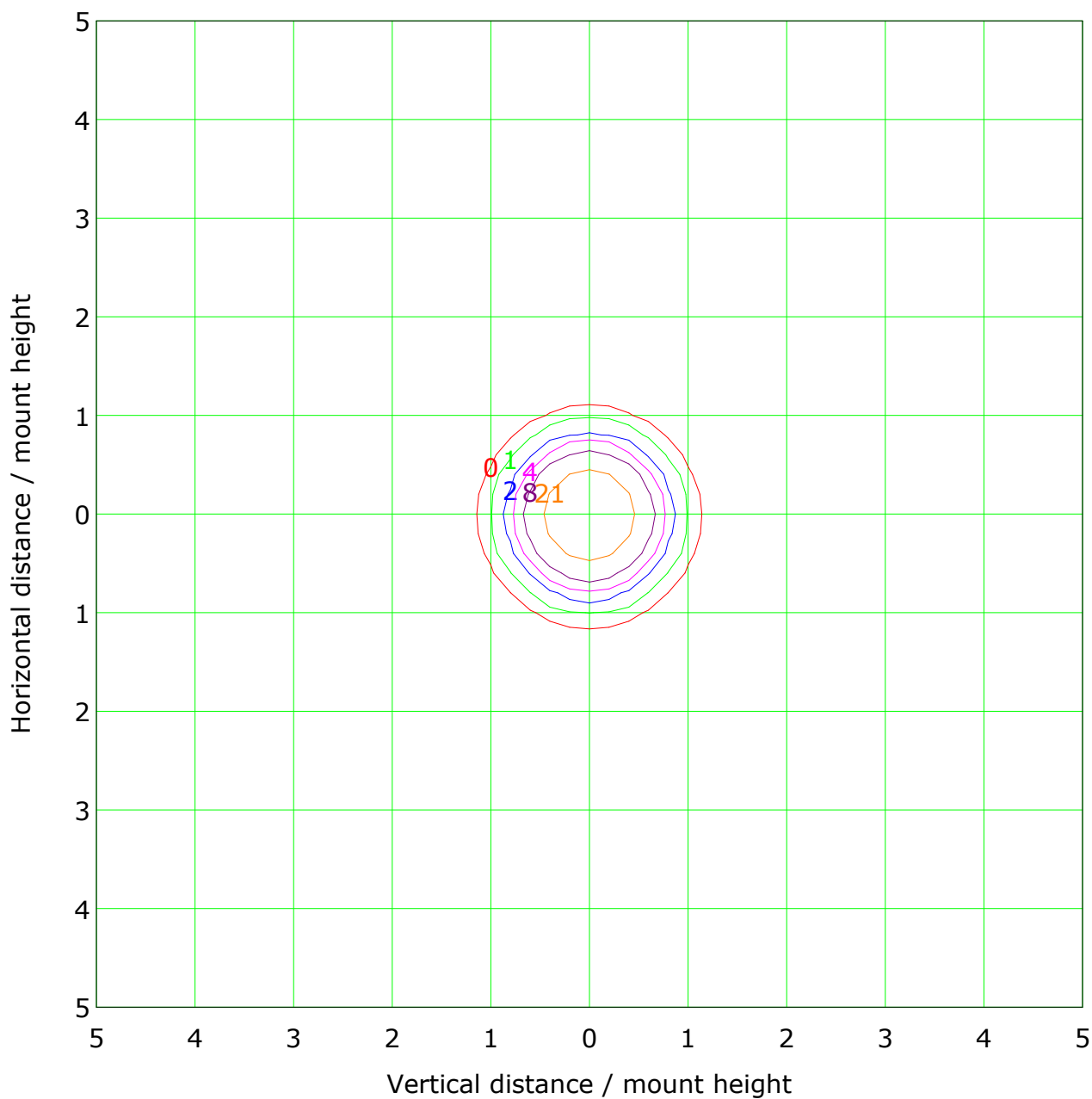
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



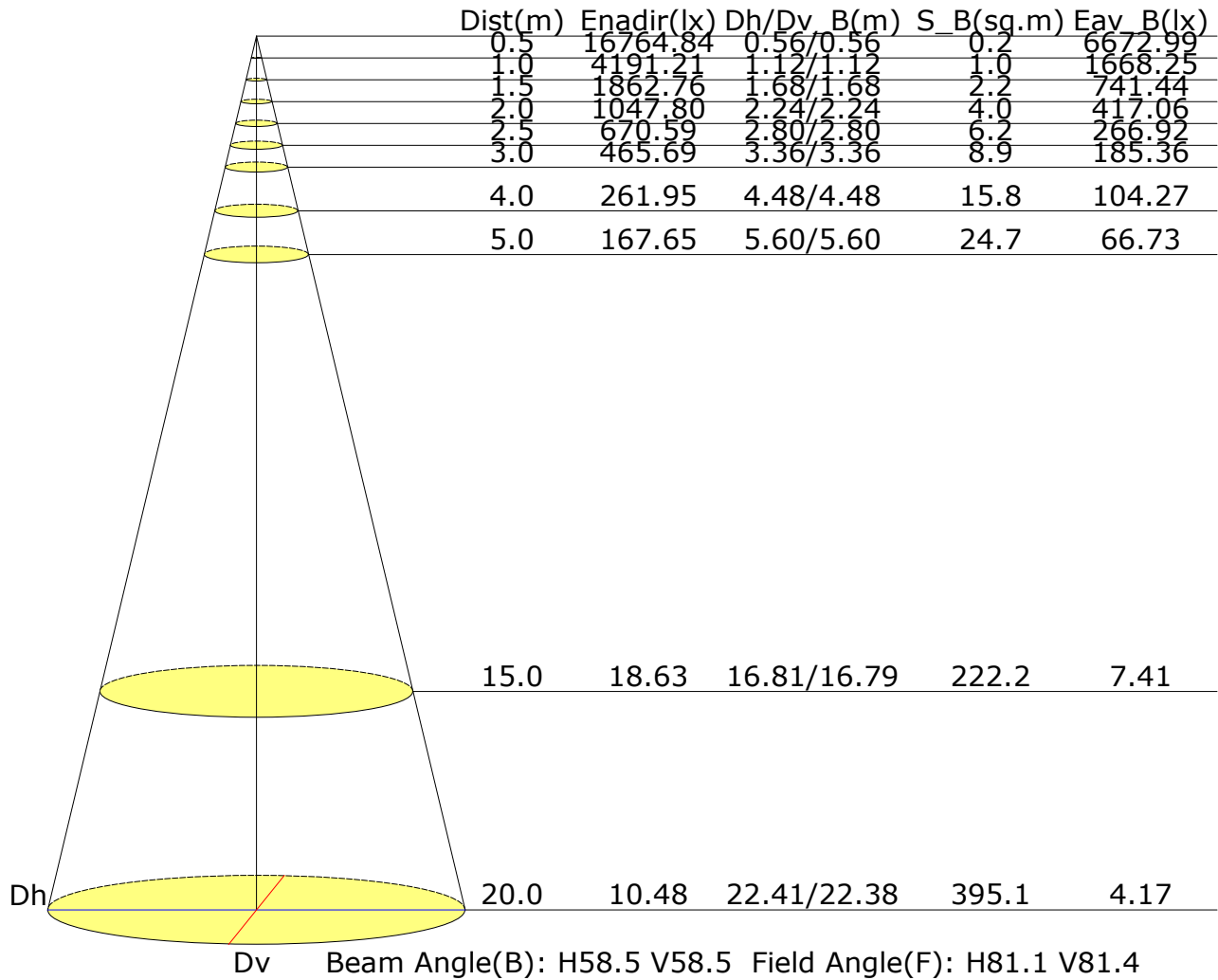
Mounting Height: 10.0m    Max Lux(100%): 41.9 lx

( 1%): 0.4 lx	( 2%): 0.8 lx
( 5%): 2.1 lx	( 10%): 4.2 lx
( 20%): 8.4 lx	( 50%): 21.0 lx
(100%): 41.9 lx	

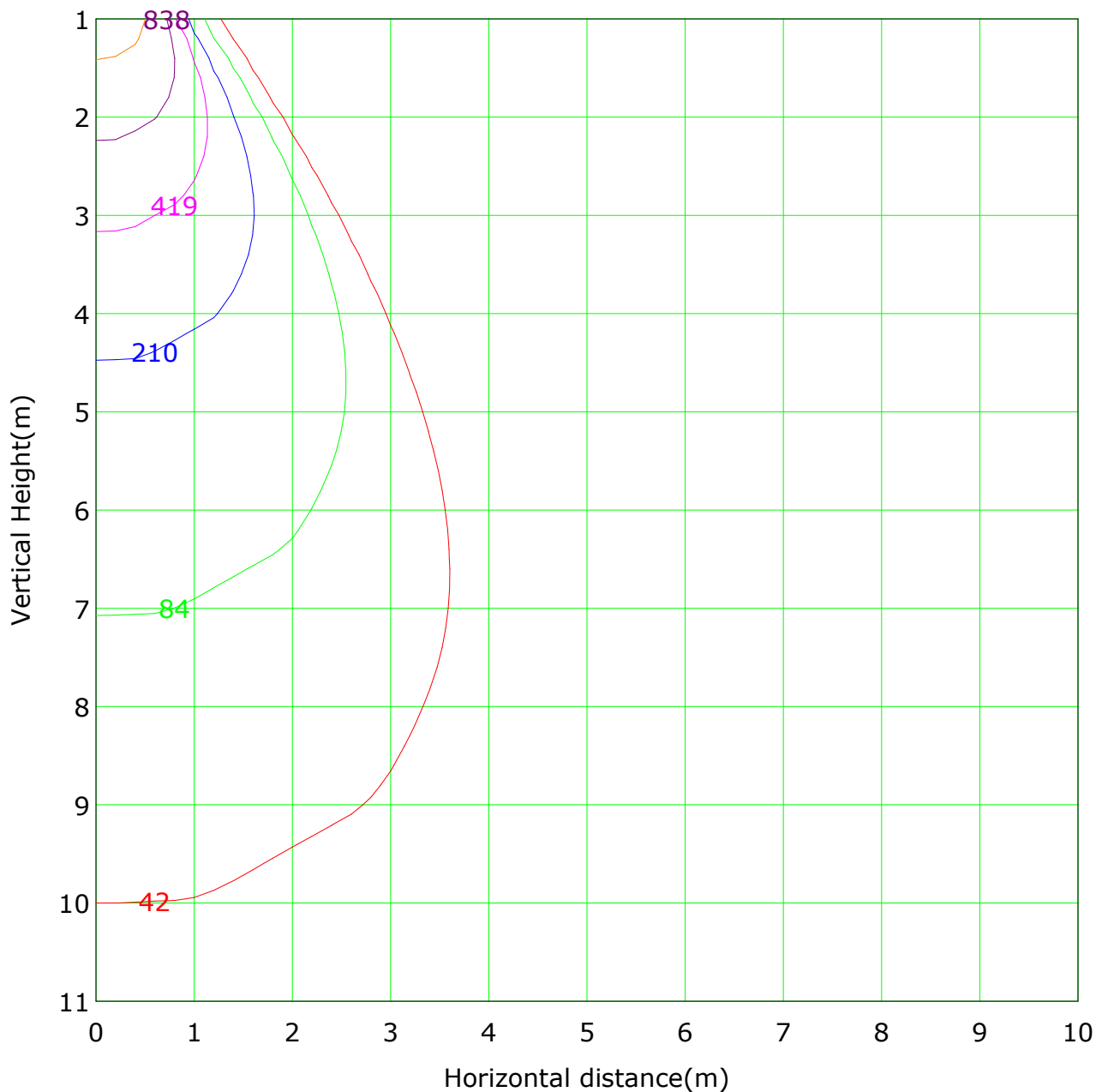
C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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

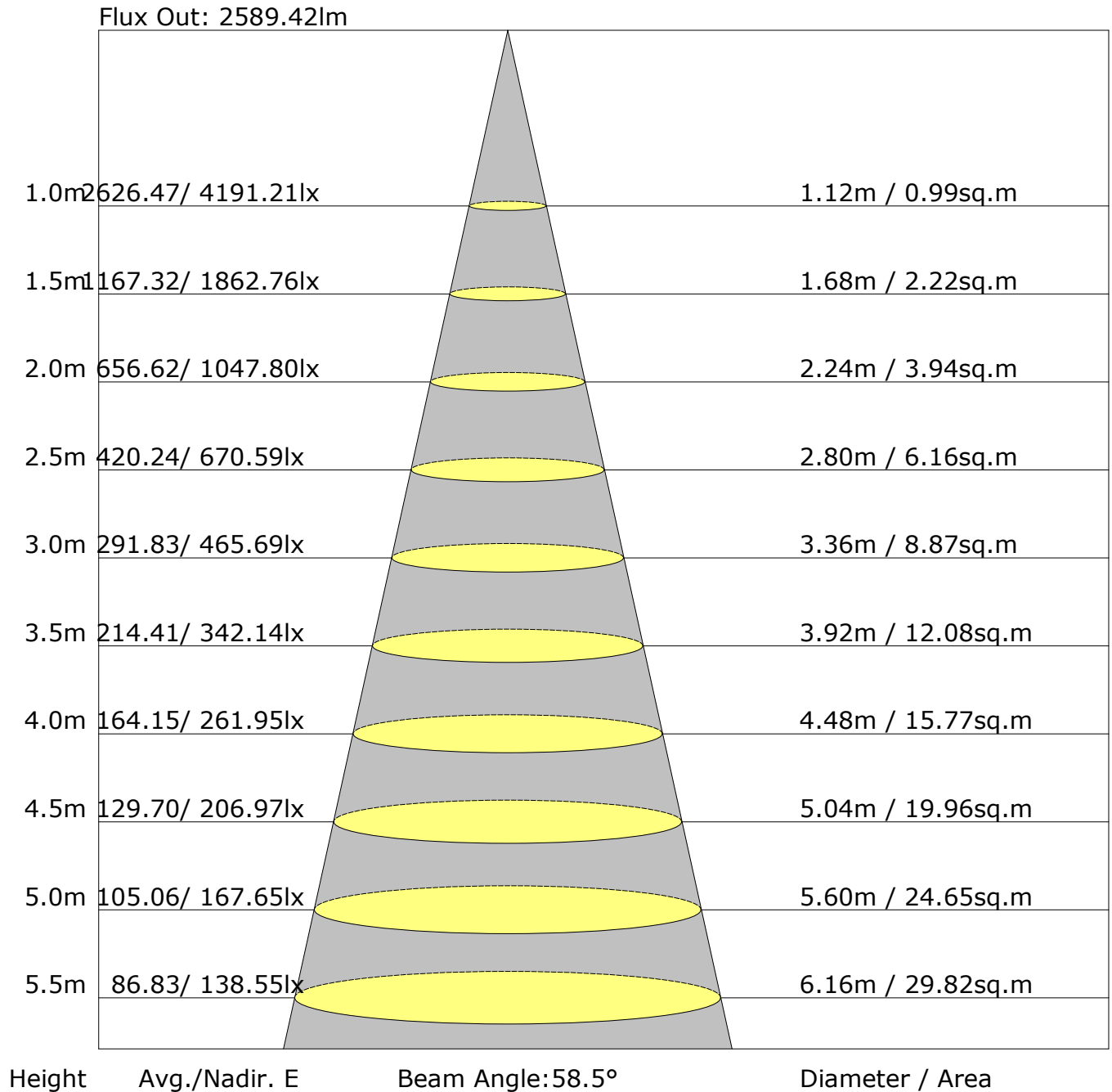


Lowest(m): 1.0m   Highest(m): 11.0m   Max Lux: 4191.2 lx  
— ( 1%): 41.9 lx   — ( 2%): 83.8 lx  
— ( 5%): 209.6 lx   — ( 10%): 419.1 lx  
— ( 20%): 838.2 lx   — ( 50%): 2095.6 lx  
— (100%): 4191.2 lx

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	24.4	25.3	24.7	25.5	25.7	23.8	24.7	24.1	24.9	25.1
3H	24.3	25.1	24.6	25.3	25.5	23.7	24.5	24.0	24.7	24.9
4H	24.2	24.9	24.5	25.2	25.5	23.6	24.3	23.9	24.6	24.9
6H	24.1	24.8	24.5	25.1	25.4	23.5	24.2	23.9	24.5	24.8
8H	24.1	24.7	24.4	25.0	25.3	23.5	24.1	23.8	24.4	24.7
12H	24.1	24.7	24.4	25.0	25.3	23.5	24.1	23.8	24.4	24.7
X=4H Y=2H	24.2	24.9	24.5	25.2	25.5	23.6	24.4	23.9	24.6	24.9
3H	24.1	24.7	24.4	25.0	25.3	23.5	24.1	23.8	24.4	24.7
4H	24.0	24.5	24.4	24.9	25.2	23.4	23.9	23.8	24.3	24.6
6H	23.9	24.4	24.3	24.8	25.1	23.3	23.8	23.7	24.2	24.6
8H	23.9	24.3	24.3	24.7	25.1	23.3	23.7	23.7	24.1	24.5
12H	23.8	24.2	24.3	24.6	25.1	23.2	23.6	23.7	24.0	24.5
X=8H Y=4H	23.9	24.3	24.3	24.7	25.1	23.3	23.7	23.7	24.1	24.5
6H	23.8	24.1	24.2	24.6	25.0	23.2	23.5	23.6	24.0	24.4
8H	23.7	24.0	24.2	24.5	25.0	23.1	23.5	23.6	23.9	24.4
12H	23.7	24.0	24.2	24.4	24.9	23.1	23.4	23.6	23.8	24.3
X=12H Y=4H	23.8	24.2	24.3	24.6	25.1	23.2	23.6	23.7	24.0	24.5
6H	23.7	24.0	24.2	24.5	25.0	23.1	23.5	23.6	23.9	24.4
8H	23.7	24.0	24.2	24.4	24.9	23.1	23.4	23.6	23.8	24.3
Variations with the observer position at spacings:										
S=1.0H	+5.0/-8.7					+4.9/-9.1				
S=1.5H	+7.8/-14.1					+7.7/-15.0				
S=2.0H	+9.8/-1.\$					+9.7/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 3603lm ( $8\log(F/F_0) = 4.5$ ).

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: 3.328 m  
Humidity:  
Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	1859	51.6
	FL ( 0°-30°)	1355	37.6
	FM (30°-60°)	499	13.8
	FH (60°-80°)	5	0.1
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1743	48.4
	BL ( 0°-30°)	1316	36.5
	BM (30°-60°)	424	11.8
	BH (60°-80°)	3	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	4191.5	4.0	4.0	0.11	0.11
1.0-2.0	4191.8	12.0	16.0	0.33	0.45
2.0-3.0	4188.1	20.0	36.1	0.56	1.00
3.0-4.0	4176.9	28.0	64.0	0.78	1.78
4.0-5.0	4161.6	35.8	99.8	0.99	2.77
5.0-6.0	4139.2	43.5	143.4	1.21	3.98
6.0-7.0	4103.6	50.9	194.3	1.41	5.39
7.0-8.0	4060.0	58.1	252.4	1.61	7.01
8.0-9.0	4014.8	65.1	317.5	1.81	8.81
9.0-10.0	3971.8	71.9	389.4	2.00	10.81
10.0-11.0	3931.9	78.6	467.9	2.18	12.99
11.0-12.0	3895.1	85.2	553.1	2.36	15.35
12.0-13.0	3861.8	91.7	644.8	2.54	17.90
13.0-14.0	3827.8	98.0	742.8	2.72	20.62
14.0-15.0	3785.4	103.9	846.7	2.89	23.50
15.0-16.0	3732.4	109.4	956.1	3.04	26.54
16.0-17.0	3666.1	114.2	1070.3	3.17	29.71
17.0-18.0	3583.5	118.2	1188.4	3.28	32.99
18.0-19.0	3490.3	121.4	1309.9	3.37	36.36
19.0-20.0	3389.3	124.1	1433.9	3.44	39.80
20.0-21.0	3284.3	126.1	1560.1	3.50	43.30
21.0-22.0	3175.5	127.6	1687.7	3.54	46.85
22.0-23.0	3060.2	128.4	1816.1	3.56	50.41
23.0-24.0	2941.1	128.6	1944.7	3.57	53.98
24.0-25.0	2815.5	128.0	2072.8	3.55	57.54
25.0-26.0	2681.5	126.6	2199.4	3.51	61.05
26.0-27.0	2538.2	124.2	2323.6	3.45	64.50
27.0-28.0	2383.6	120.7	2444.2	3.35	67.85
28.0-29.0	2219.6	116.1	2560.4	3.22	71.07
29.0-30.0	2048.9	110.6	2671.0	3.07	74.14
30.0-31.0	1872.2	104.2	2775.2	2.89	77.03
31.0-32.0	1691.1	96.9	2872.1	2.69	79.72
32.0-33.0	1508.4	88.9	2961.0	2.47	82.19
33.0-34.0	1330.5	80.5	3041.5	2.24	84.43
34.0-35.0	1161.2	72.1	3113.7	2.00	86.43
35.0-36.0	1002.9	63.9	3177.5	1.77	88.20

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	858.3	56.0	3233.5	1.55	89.76
37.0-38.0	729.0	48.7	3282.2	1.35	91.11
38.0-39.0	615.8	42.0	3324.2	1.17	92.27
39.0-40.0	518.3	36.2	3360.4	1.00	93.28
40.0-41.0	435.4	31.0	3391.4	0.86	94.14
41.0-42.0	365.6	26.6	3417.9	0.74	94.87
42.0-43.0	309.5	22.9	3440.9	0.64	95.51
43.0-44.0	265.2	20.0	3460.9	0.56	96.07
44.0-45.0	228.4	17.6	3478.4	0.49	96.55
45.0-46.0	197.6	15.5	3493.9	0.43	96.98
46.0-47.0	172.7	13.7	3507.6	0.38	97.36
47.0-48.0	151.5	12.2	3519.9	0.34	97.70
48.0-49.0	134.3	11.0	3530.9	0.31	98.01
49.0-50.0	119.4	10.0	3540.9	0.28	98.29
50.0-51.0	104.7	8.9	3549.7	0.25	98.53
51.0-52.0	91.3	7.8	3557.6	0.22	98.75
52.0-53.0	78.5	6.8	3564.4	0.19	98.94
53.0-54.0	67.9	6.0	3570.4	0.17	99.11
54.0-55.0	59.5	5.3	3575.7	0.15	99.25
55.0-56.0	51.7	4.7	3580.4	0.13	99.38
56.0-57.0	44.9	4.1	3584.5	0.11	99.50
57.0-58.0	39.3	3.6	3588.1	0.10	99.60
58.0-59.0	34.3	3.2	3591.3	0.09	99.69
59.0-60.0	29.3	2.8	3594.1	0.08	99.76
60.0-61.0	24.3	2.3	3596.4	0.06	99.83
61.0-62.0	19.3	1.9	3598.3	0.05	99.88
62.0-63.0	15.0	1.5	3599.7	0.04	99.92
63.0-64.0	11.2	1.1	3600.8	0.03	99.95
64.0-65.0	7.5	0.7	3601.6	0.02	99.97
65.0-66.0	4.4	0.4	3602.0	0.01	99.98
66.0-67.0	2.5	0.3	3602.3	0.01	99.99
67.0-68.0	0.9	0.1	3602.3	0.00	99.99
68.0-69.0	0.0	0.0	3602.3	0.00	99.99
69.0-70.0	0.0	0.0	3602.3	0.00	99.99
70.0-71.0	0.0	0.0	3602.3	0.00	99.99
71.0-72.0	0.0	0.0	3602.3	0.00	99.99

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	4191.2	4191.2								
G1.0	4193.7	4190.0								
G2.0	4193.7	4190.0								
G3.0	4191.2	4177.5								
G4.0	4192.5	4146.3								
G5.0	4199.9	4107.7								
G6.0	4181.2	4067.8								
G7.0	4141.4	4024.2								
G8.0	4094.0	3980.5								
G9.0	4041.6	3943.1								
G10.0	3989.3	3913.2								
G11.0	3938.1	3887.0								
G12.0	3894.5	3860.9								
G13.0	3855.9	3835.9								
G14.0	3817.2	3802.3								
G15.0	3782.3	3739.9								
G16.0	3751.1	3656.4								
G17.0	3700.0	3556.7								
G18.0	3622.8	3454.4								
G19.0	3531.7	3352.2								
G20.0	3424.5	3248.8								
G21.0	3322.3	3141.5								
G22.0	3215.1	3023.1								
G23.0	3104.1	2898.4								
G24.0	2994.4	2767.6								
G25.0	2876.0	2624.2								
G26.0	2751.3	2474.6								
G27.0	2615.5	2311.3								
G28.0	2469.6	2138.0								
G29.0	2312.5	1958.5								
G30.0	2151.7	1772.7								
G31.0	1980.9	1583.2								
G32.0	1806.4	1393.8								
G33.0	1624.4	1209.2								
G34.0	1446.1	1042.2								
G35.0	1266.6	890.1								
G36.0	1097.1	758.0								

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:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	941.2	637.0								
G38.0	800.3	537.3								
G39.0	676.9	448.8								
G40.0	568.5	379.0								
G41.0	477.5	316.6								
G42.0	398.9	269.3								
G43.0	337.8	231.9								
G44.0	286.7	204.4								
G45.0	243.1	179.5								
G46.0	209.4	158.3								
G47.0	183.3	139.6								
G48.0	160.8	122.2								
G49.0	145.9	108.5								
G50.0	129.6	93.5								
G51.0	114.7	81.0								
G52.0	102.2	67.3								
G53.0	89.8	54.8								
G54.0	77.3	49.9								
G55.0	67.3	43.6								
G56.0	57.3	38.7								
G57.0	51.1	32.4								
G58.0	44.9	28.7								
G59.0	39.9	23.7								
G60.0	34.9	18.7								
G61.0	28.7	15.0								
G62.0	23.7	10.0								
G63.0	18.7	7.5								
G64.0	15.0	3.7								
G65.0	10.0	1.3								
G66.0	6.2	0.0								
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: