

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

Test Time: 2024-10-06 16:49

## Luminaire Property

Luminaire Manufacturer:

Luminous Length (mm): -95

Voltage: 223.9 V

Power: 40.50 W

Luminous Width (mm): -95

Current: 0.182 A

Power Factor: 0.993

## Photometric Results

CIE Class: Direct

Measurement Flux: 4259 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H26.8

Vertical Diffuse Angle(50%): V26.8

Luminaire Efficacy Rating (LER): 105.21

Max. Intensity: 15694 cd

S/MH(C0/C180): 0.47

Total Rated Lamp Lumens: 4259.0 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 15561.85 cd

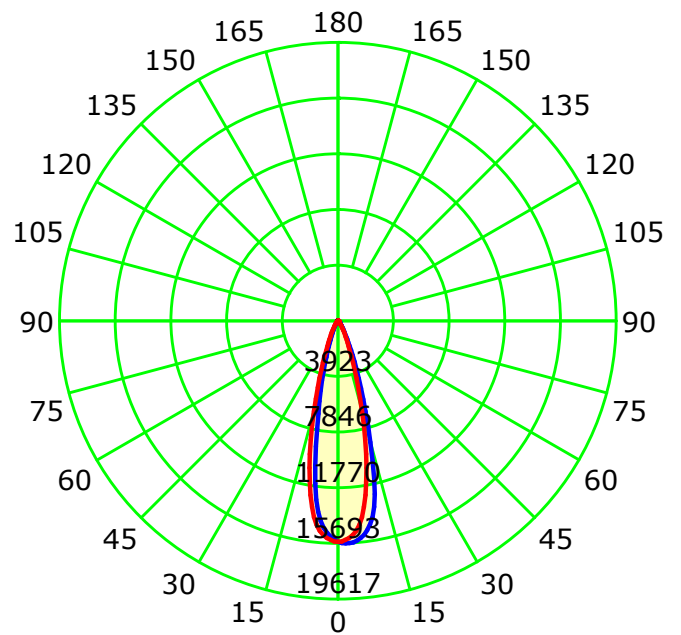
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.47

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

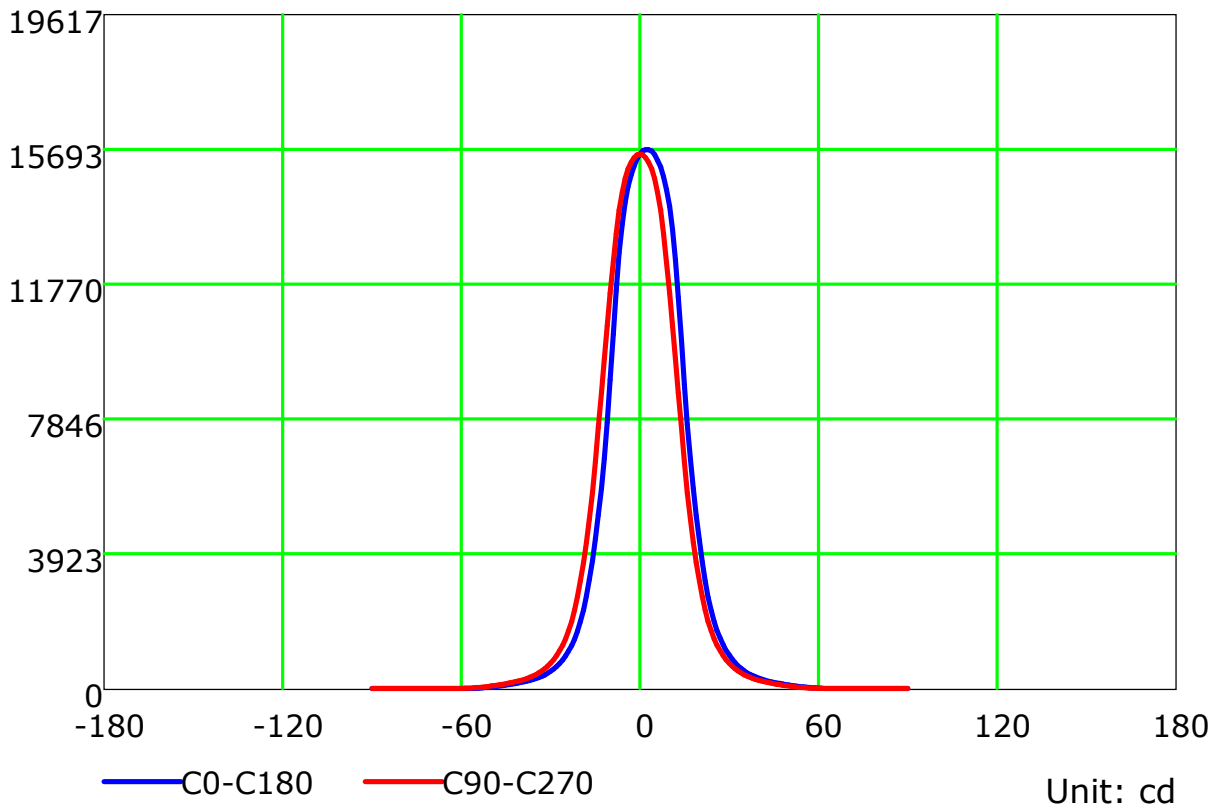
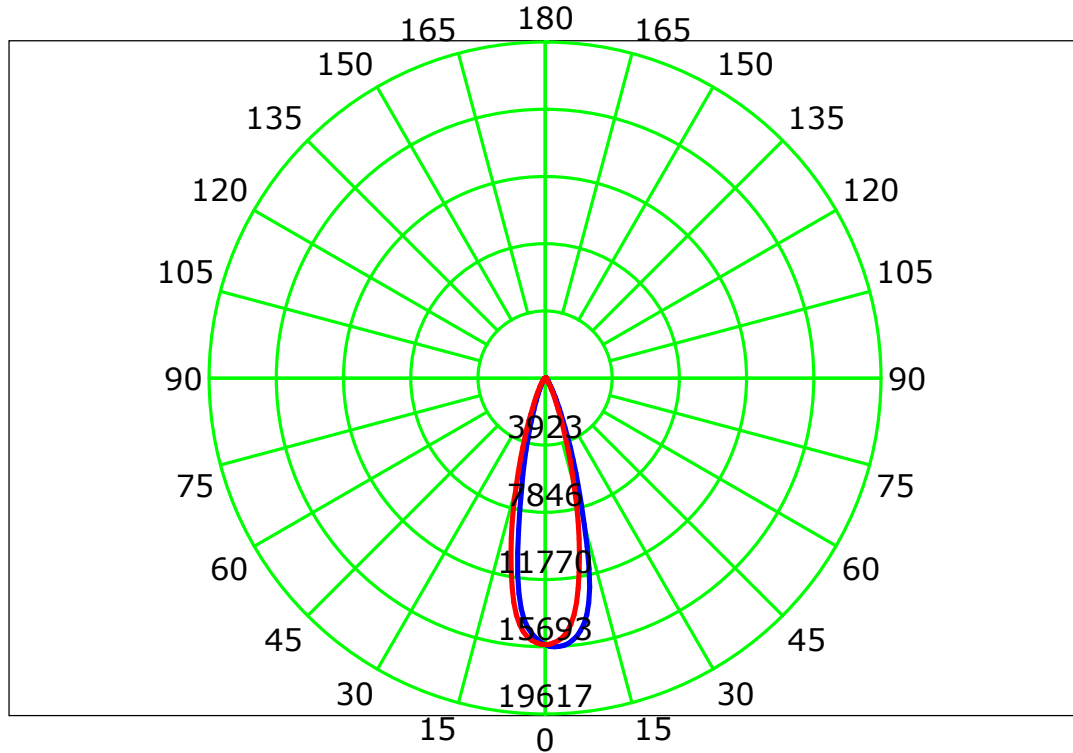
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

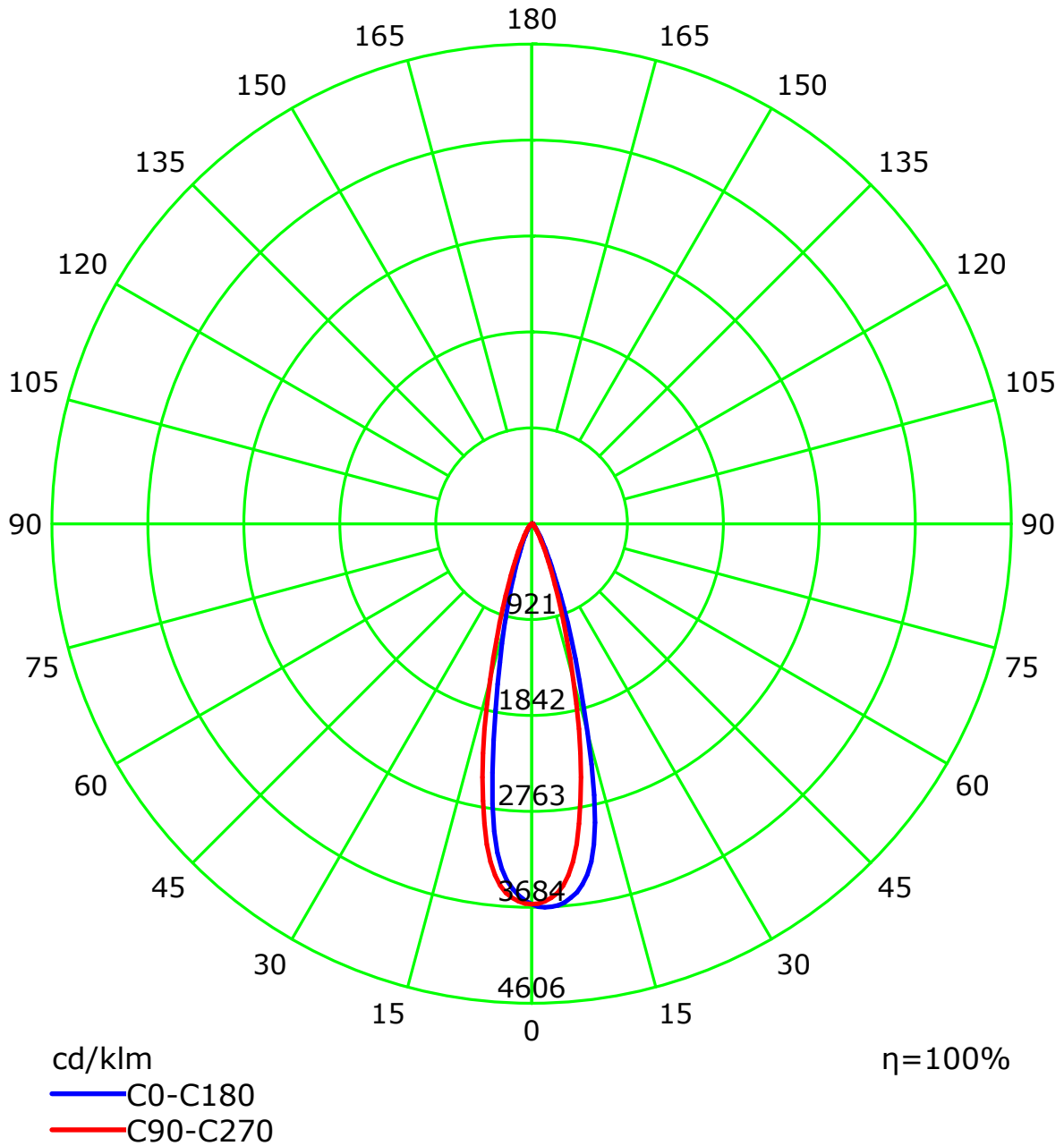
## Luminous Intensity Distribution Curve



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:

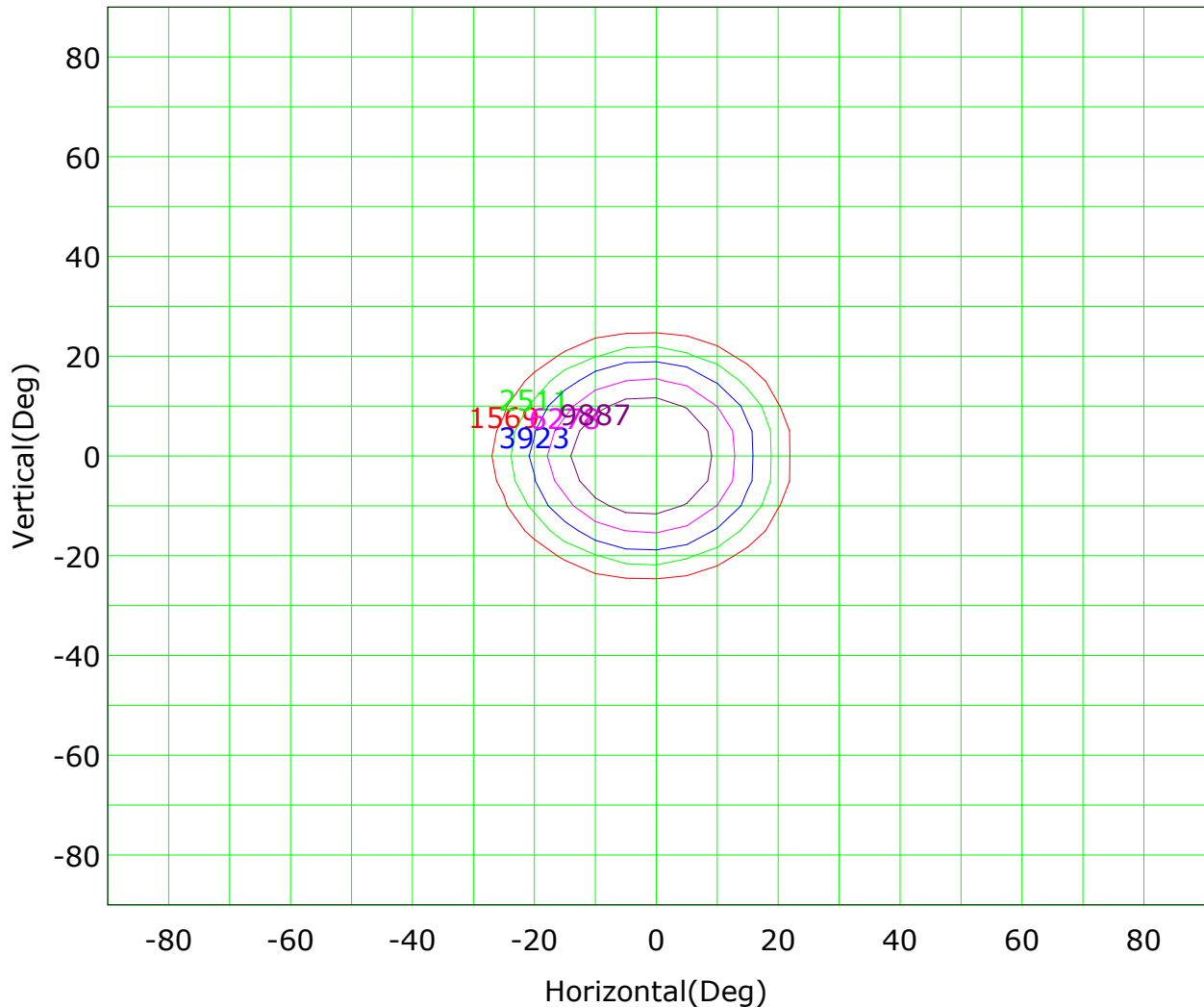
## Luminous Intensity Distribution Curve(cd/klm)



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)



C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

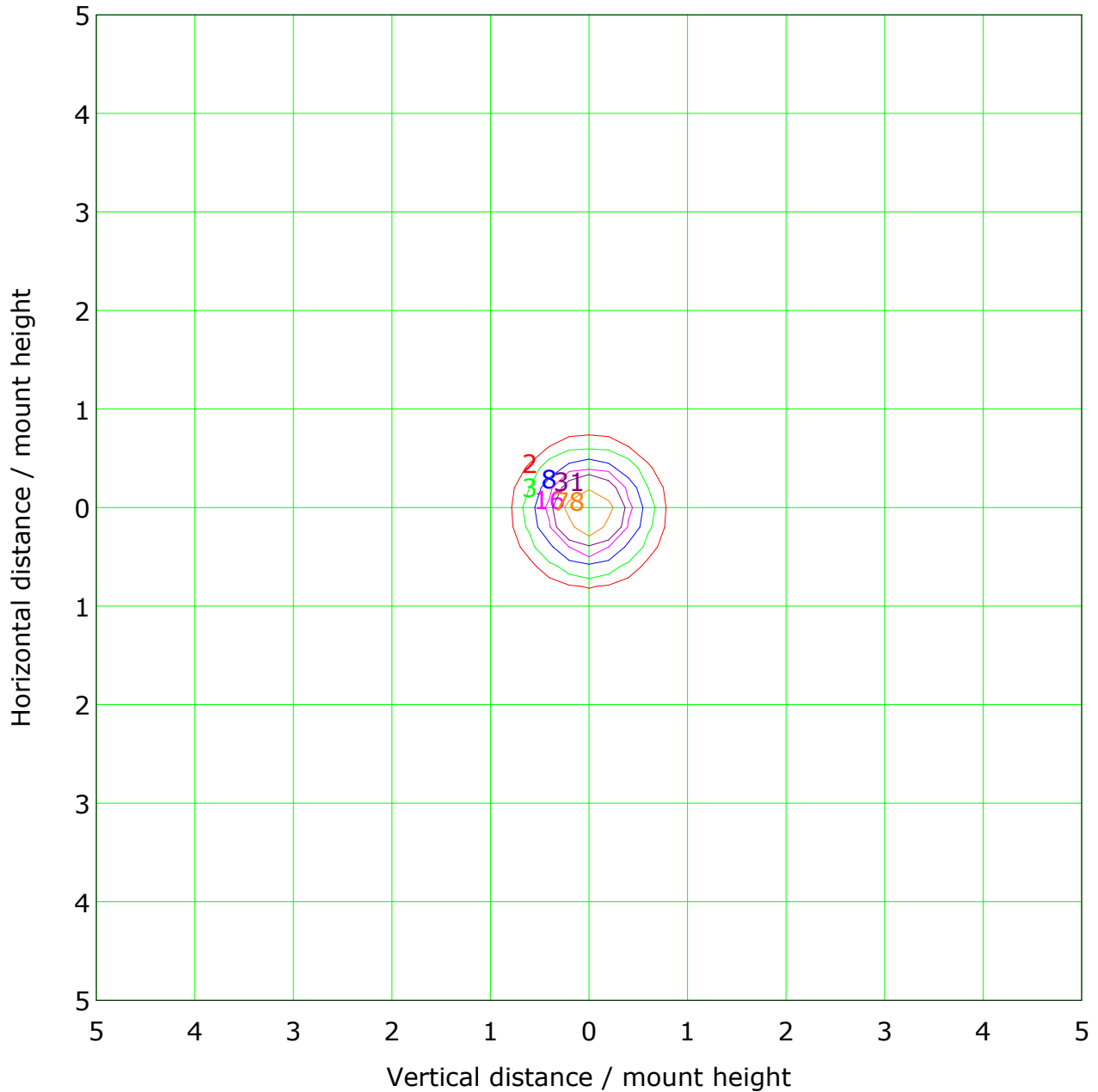
Test Device: CHL-6E

Distance: 3.328 m

Humidity:

Inspector:

## IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 156.7 lx	
— ( 1%):	1.6 lx	— ( 2%):	3.1 lx
— ( 5%):	7.8 lx	— ( 10%):	15.7 lx
— ( 20%):	31.3 lx	— ( 50%):	78.3 lx
— (100%):	156.7 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

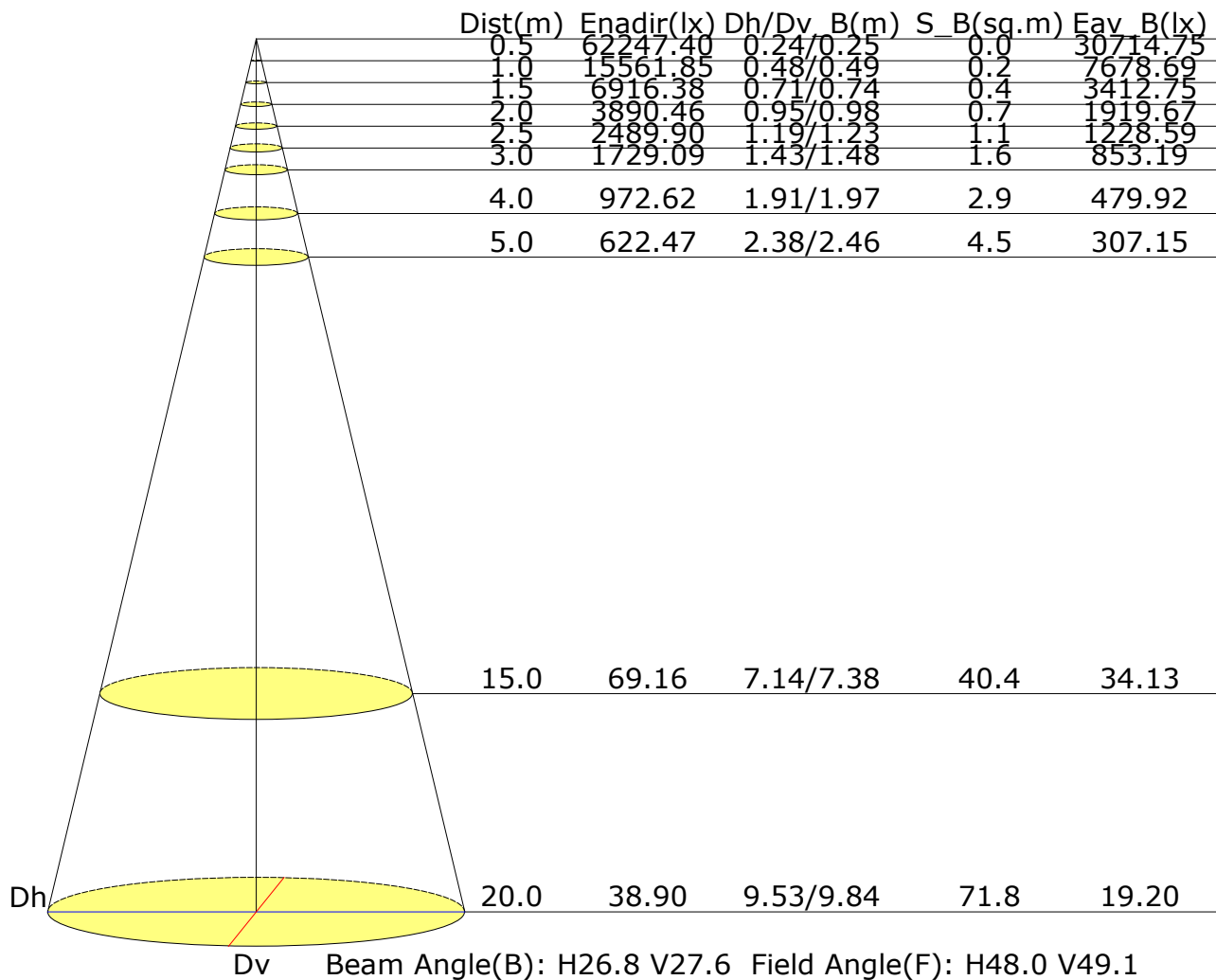
Test Device: CHL-6E

Distance: 3.328 m

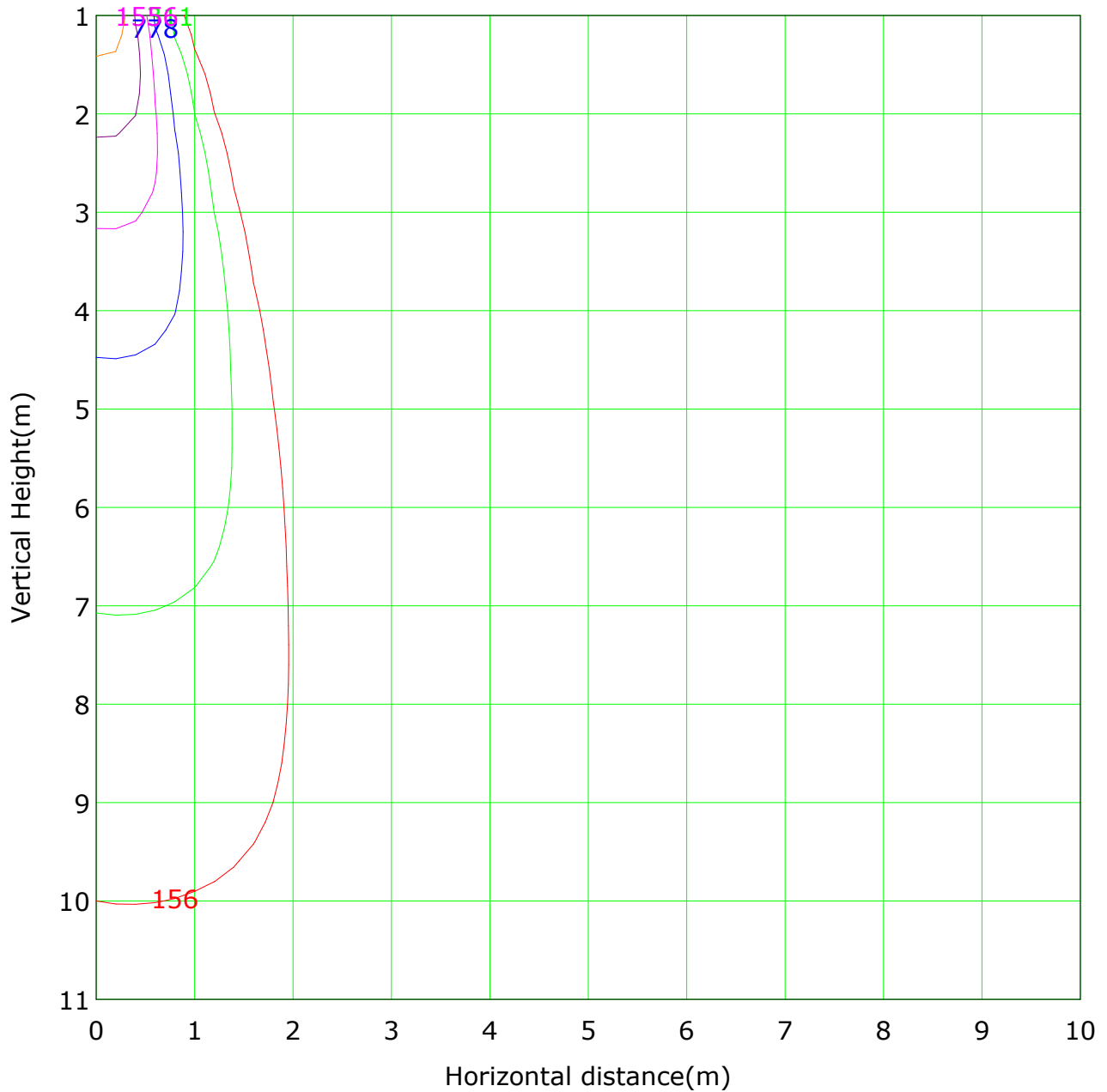
Humidity:

Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m   Highest(m): 11.0m   Max Lux: 15561.8 lx

( 1%): 155.6 lx	( 2%): 311.2 lx
( 5%): 778.1 lx	( 10%): 1556.2 lx
( 20%): 3112.4 lx	( 50%): 7780.9 lx
(100%): 15561.8 lx	

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

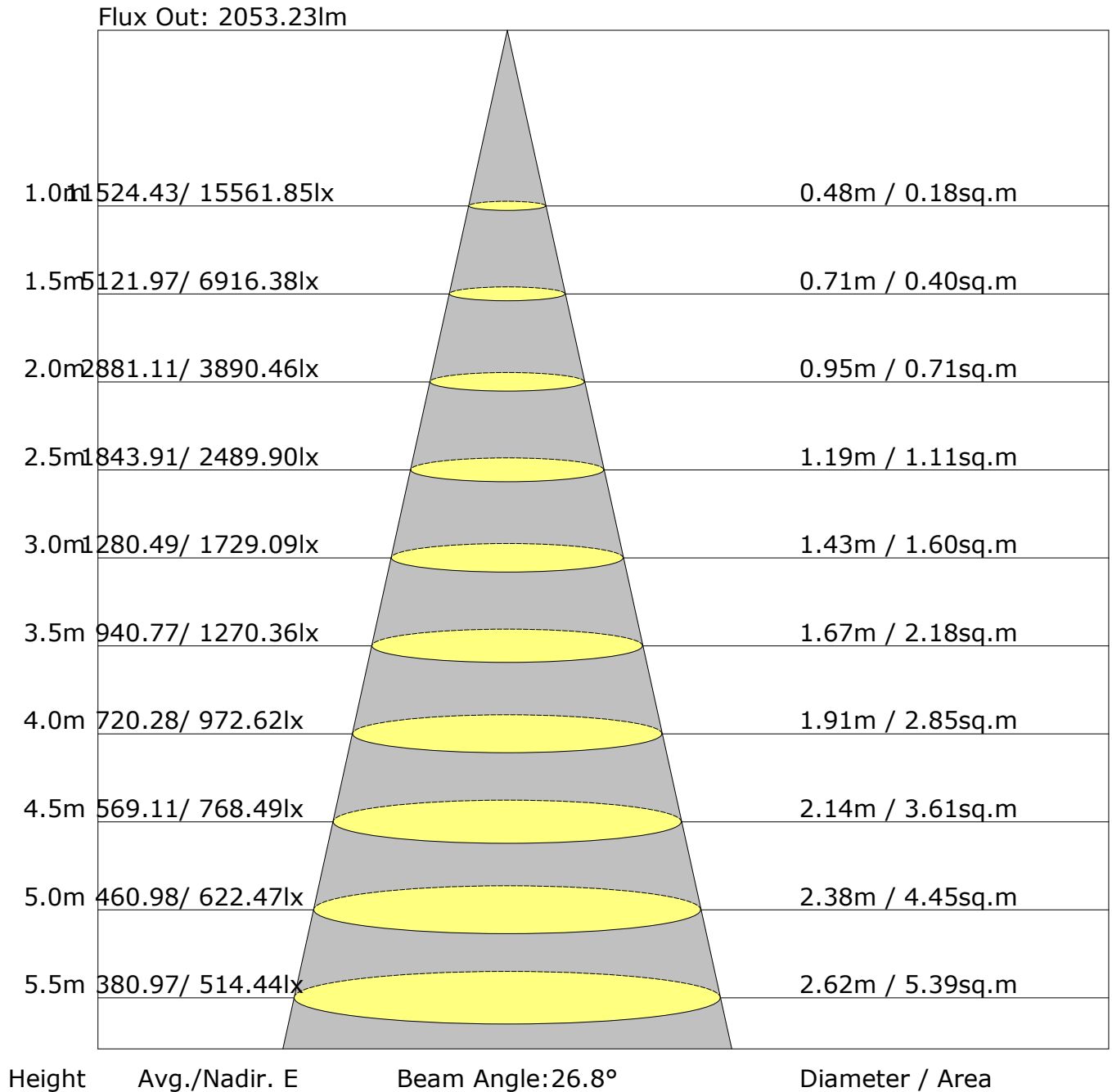
Gamma Plane (°): 0.0-90.0: 1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## 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

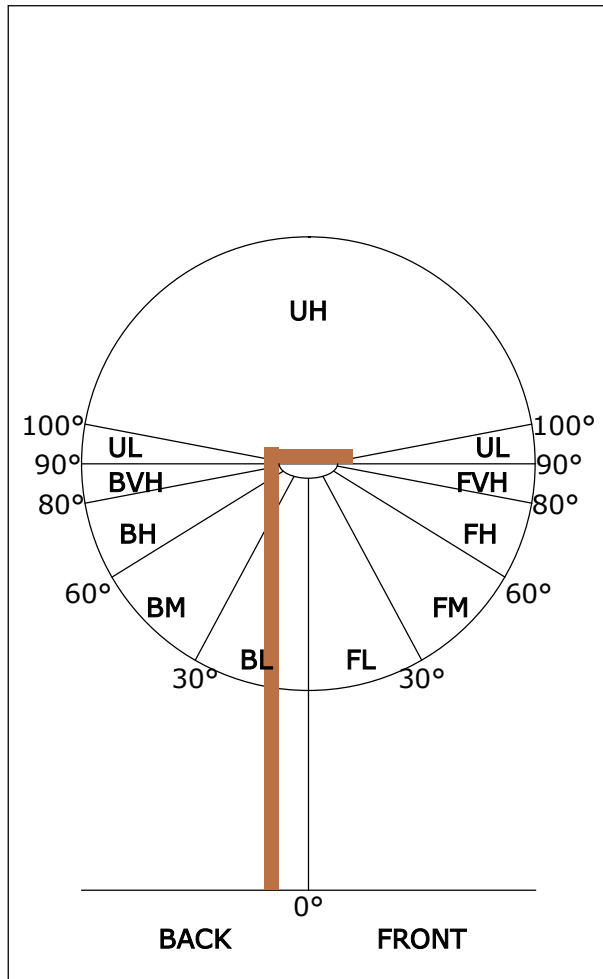
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	16.8	17.5	17.0	17.6	17.8	15.7	16.4	16.0	16.6	16.8
3H	16.7	17.3	16.9	17.5	17.7	15.6	16.2	15.9	16.4	16.7
4H	16.6	17.1	16.9	17.4	17.7	15.5	16.1	15.8	16.3	16.6
6H	16.5	17.0	16.8	17.3	17.6	15.5	16.0	15.8	16.3	16.5
8H	16.5	17.0	16.8	17.3	17.6	15.4	15.9	15.8	16.2	16.5
12H	16.4	16.9	16.8	17.2	17.5	15.4	15.9	15.7	16.2	16.5
X=4H Y=2H	16.6	17.2	16.9	17.4	17.7	15.6	16.1	15.9	16.4	16.6
3H	16.5	16.9	16.8	17.2	17.6	15.4	15.9	15.8	16.2	16.5
4H	16.4	16.8	16.7	17.1	17.5	15.3	15.8	15.7	16.1	16.4
6H	16.3	16.7	16.7	17.0	17.4	15.2	15.6	15.6	16.0	16.4
8H	16.2	16.6	16.7	17.0	17.4	15.2	15.5	15.6	15.9	16.3
12H	16.2	16.5	16.6	16.9	17.3	15.1	15.5	15.6	15.9	16.3
X=8H Y=4H	16.2	16.6	16.7	17.0	17.4	15.2	15.5	15.6	15.9	16.3
6H	16.1	16.4	16.6	16.8	17.3	15.1	15.4	15.5	15.8	16.3
8H	16.1	16.3	16.6	16.8	17.3	15.0	15.3	15.5	15.7	16.2
12H	16.0	16.3	16.5	16.7	17.2	15.0	15.2	15.5	15.7	16.2
X=12H Y=4H	16.2	16.5	16.6	16.9	17.3	15.1	15.5	15.6	15.9	16.3
6H	16.1	16.3	16.6	16.8	17.3	15.0	15.3	15.5	15.7	16.2
8H	16.0	16.3	16.5	16.7	17.2	15.0	15.2	15.5	15.7	16.2
Variations with the observer position at spacings:										
S=1.0H	+3.9/-6.8					+3.6/-8.2				
S=1.5H	+6.5/-30.6					+6.2/-32.3				
S=2.0H	+8.5/-1.\$					+8.2/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with 4259lm ( $8\log(F/F_0) = 5.0$ ).

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:

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



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	2403	56.4
FL ( 0°-30°)	2166	50.9
FM (30°-60°)	236	5.6
FH (60°-80°)	1	0.0
FVH (80°-90°)	0	0.0
BACK LIGHT	1856	43.6
BL ( 0°-30°)	1682	39.5
BM (30°-60°)	174	4.1
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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	15551.6	14.9	14.9	0.35	0.35
1.0-2.0	15498.0	44.5	59.4	1.04	1.39
2.0-3.0	15390.7	73.6	133.0	1.73	3.12
3.0-4.0	15230.2	102.0	235.0	2.39	5.52
4.0-5.0	14992.1	129.0	363.9	3.03	8.55
5.0-6.0	14652.1	154.0	517.9	3.62	12.16
6.0-7.0	14192.7	176.2	694.1	4.14	16.30
7.0-8.0	13585.3	194.5	888.6	4.57	20.86
8.0-9.0	12829.5	208.0	1096.5	4.88	25.75
9.0-10.0	11965.9	216.6	1313.1	5.09	30.83
10.0-11.0	11035.6	220.5	1533.6	5.18	36.01
11.0-12.0	10079.7	220.4	1754.0	5.17	41.18
12.0-13.0	9103.3	216.1	1970.1	5.07	46.26
13.0-14.0	8102.6	207.4	2177.5	4.87	51.13
14.0-15.0	7101.5	195.0	2372.5	4.58	55.71
15.0-16.0	6156.2	180.4	2552.9	4.24	59.94
16.0-17.0	5316.9	165.6	2718.5	3.89	63.83
17.0-18.0	4590.5	151.4	2869.9	3.55	67.38
18.0-19.0	3958.7	137.7	3007.6	3.23	70.62
19.0-20.0	3401.2	124.5	3132.1	2.92	73.54
20.0-21.0	2908.7	111.7	3243.8	2.62	76.16
21.0-22.0	2482.1	99.8	3343.6	2.34	78.51
22.0-23.0	2120.9	89.0	3432.6	2.09	80.60
23.0-24.0	1818.9	79.5	3512.1	1.87	82.46
24.0-25.0	1566.7	71.2	3583.4	1.67	84.14
25.0-26.0	1355.7	64.0	3647.4	1.50	85.64
26.0-27.0	1180.3	57.8	3705.1	1.36	87.00
27.0-28.0	1032.2	52.3	3757.4	1.23	88.22
28.0-29.0	904.8	47.3	3804.7	1.11	89.33
29.0-30.0	794.7	42.9	3847.7	1.01	90.34
30.0-31.0	699.4	38.9	3886.6	0.91	91.26
31.0-32.0	616.8	35.3	3921.9	0.83	92.09
32.0-33.0	547.3	32.2	3954.2	0.76	92.84
33.0-34.0	487.1	29.5	3983.6	0.69	93.54
34.0-35.0	434.1	27.0	4010.6	0.63	94.17
35.0-36.0	388.0	24.7	4035.3	0.58	94.75

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

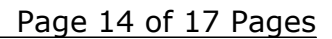
Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.328 m  
Humidity:  
Inspector:

## 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	347.2	22.6	4058.0	0.53	95.28
37.0-38.0	311.7	20.8	4078.8	0.49	95.77
38.0-39.0	281.1	19.2	4098.0	0.45	96.22
39.0-40.0	254.3	17.7	4115.7	0.42	96.64
40.0-41.0	230.6	16.4	4132.1	0.39	97.02
41.0-42.0	208.2	15.1	4147.3	0.36	97.38
42.0-43.0	187.6	13.9	4161.2	0.33	97.70
43.0-44.0	168.6	12.7	4173.9	0.30	98.00
44.0-45.0	150.8	11.6	4185.5	0.27	98.27
45.0-46.0	135.3	10.6	4196.1	0.25	98.52
46.0-47.0	120.6	9.6	4205.7	0.23	98.75
47.0-48.0	106.3	8.6	4214.2	0.20	98.95
48.0-49.0	92.9	7.6	4221.9	0.18	99.13
49.0-50.0	81.3	6.8	4228.7	0.16	99.29
50.0-51.0	69.5	5.9	4234.5	0.14	99.43
51.0-52.0	58.6	5.0	4239.6	0.12	99.54
52.0-53.0	49.2	4.3	4243.8	0.10	99.64
53.0-54.0	39.9	3.5	4247.4	0.08	99.73
54.0-55.0	32.7	2.9	4250.3	0.07	99.80
55.0-56.0	26.8	2.4	4252.7	0.06	99.85
56.0-57.0	20.6	1.9	4254.6	0.04	99.90
57.0-58.0	15.3	1.4	4256.0	0.03	99.93
58.0-59.0	11.2	1.0	4257.1	0.02	99.95
59.0-60.0	8.1	0.8	4257.8	0.02	99.97
60.0-61.0	5.9	0.6	4258.4	0.01	99.99
61.0-62.0	4.1	0.4	4258.8	0.01	100.00
62.0-63.0	1.9	0.2	4259.0	0.00	100.00
63.0-64.0	0.3	0.0	4259.0	0.00	100.00
64.0-65.0	0.0	0.0	4259.0	0.00	100.00
65.0-66.0	0.0	0.0	4259.0	0.00	100.00
66.0-67.0	0.0	0.0	4259.0	0.00	100.00
67.0-68.0	0.0	0.0	4259.0	0.00	100.00
68.0-69.0	0.0	0.0	4259.0	0.00	100.00
69.0-70.0	0.0	0.0	4259.0	0.00	100.00
70.0-71.0	0.0	0.0	4259.0	0.00	100.00
71.0-72.0	0.0	0.0	4259.0	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	15561.8	15561.8								
G1.0	15664.1	15418.5								
G2.0	15694.0	15215.3								
G3.0	15689.0	14964.7								
G4.0	15647.9	14619.4								
G5.0	15548.1	14153.1								
G6.0	15378.6	13528.6								
G7.0	15186.6	12677.1								
G8.0	14901.1	11576.3								
G9.0	14529.6	10311.0								
G10.0	14037.2	8985.8								
G11.0	13365.3	7754.1								
G12.0	12491.4	6708.2								
G13.0	11394.3	5819.3								
G14.0	10142.7	5053.9								
G15.0	8852.4	4357.0								
G16.0	7690.5	3725.0								
G17.0	6679.5	3172.7								
G18.0	5815.6	2694.0								
G19.0	5035.2	2290.1								
G20.0	4323.4	1956.0								
G21.0	3686.3	1669.3								
G22.0	3135.3	1437.4								
G23.0	2661.6	1249.1								
G24.0	2273.9	1090.8								
G25.0	1951.0	951.2								
G26.0	1685.5	835.3								
G27.0	1464.8	735.5								
G28.0	1279.1	649.5								
G29.0	1114.5	576.0								
G30.0	978.6	509.9								
G31.0	860.2	448.8								
G32.0	758.0	400.2								
G33.0	669.5	361.5								
G34.0	592.2	325.4								
G35.0	524.8	294.2								
G36.0	465.0	268.0								

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)

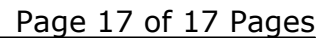
Unit: cd

G\C	C0.0	C180.0								
G37.0	415.1	240.6								
G38.0	374.0	216.9								
G39.0	337.8	195.7								
G40.0	304.2	179.5								
G41.0	275.5	163.3								
G42.0	246.8	147.1								
G43.0	223.1	133.4								
G44.0	202.0	115.9								
G45.0	182.0	103.5								
G46.0	165.8	89.8								
G47.0	149.6	77.3								
G48.0	132.1	66.1								
G49.0	118.4	54.8								
G50.0	104.7	47.4								
G51.0	89.8	36.2								
G52.0	78.5	29.9								
G53.0	67.3	21.2								
G54.0	54.8	16.2								
G55.0	47.4	12.5								
G56.0	38.7	8.7								
G57.0	29.9	5.0								
G58.0	24.9	1.3								
G59.0	18.7	0.0								
G60.0	13.7	0.0								
G61.0	10.0	0.0								
G62.0	6.2	0.0								
G63.0	1.3	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  
Temperature:  
Operator:

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





## Unit: cd

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