

Report No.:AX-MG-FL-AC-F-27W-652

Test Time: 2025-09-20 15:16

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 15D

Luminous Width (mm): -20

Current: 0.121 A

Power Factor: 0.965

Luminous Length (mm): -650

Voltage: 231.1 V

Power: 27.10 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 2092.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H21.2

Vertical Diffuse Angle(50%): V21.2

Luminaire Efficacy Rating (LER): 77.27

Max. Intensity: 12634.52 cd

S/MH(C0/C180): 0.36

Total Rated Lamp Lumens: 2092.7 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 12634.52 cd

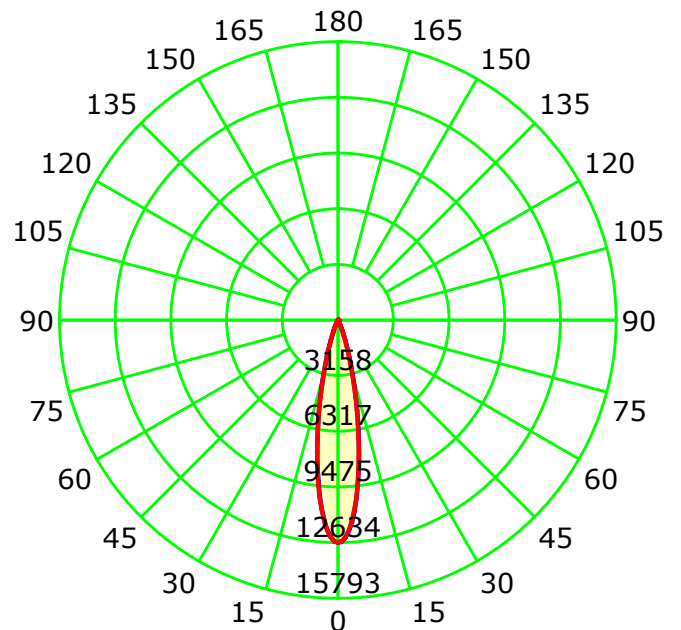
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.36

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

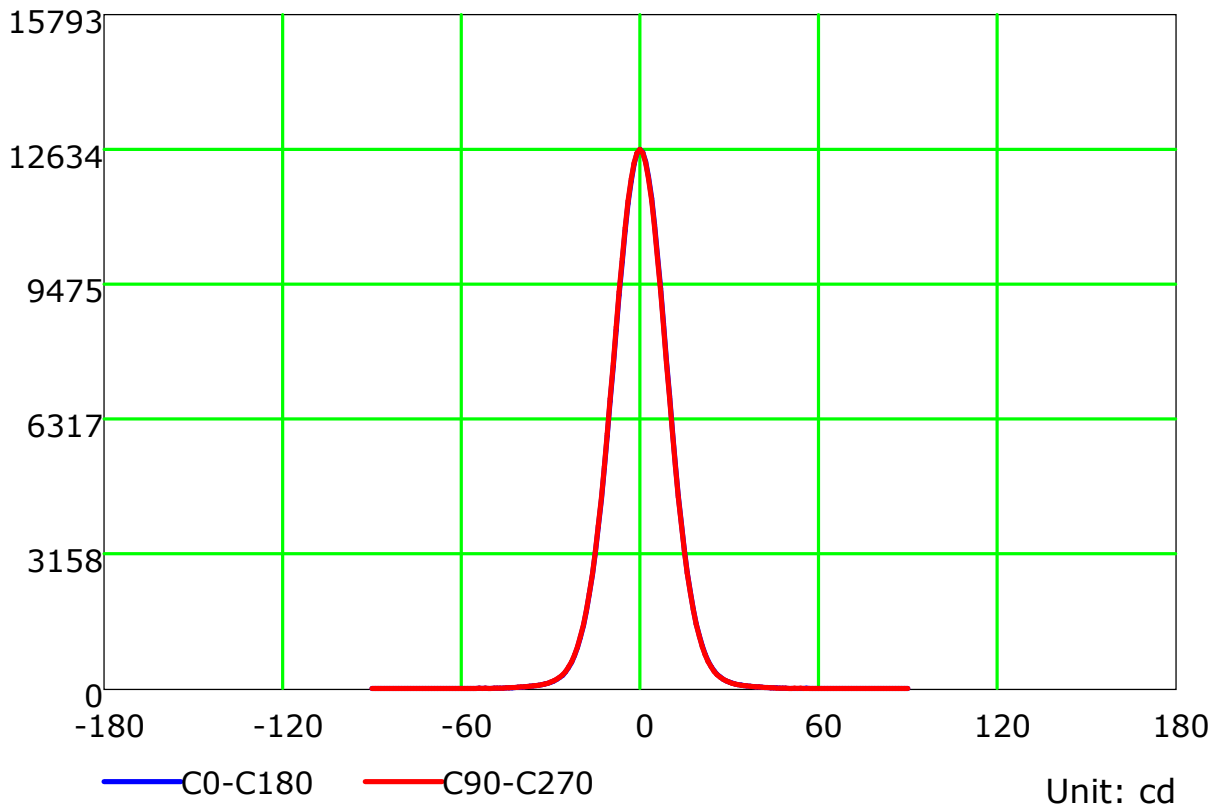
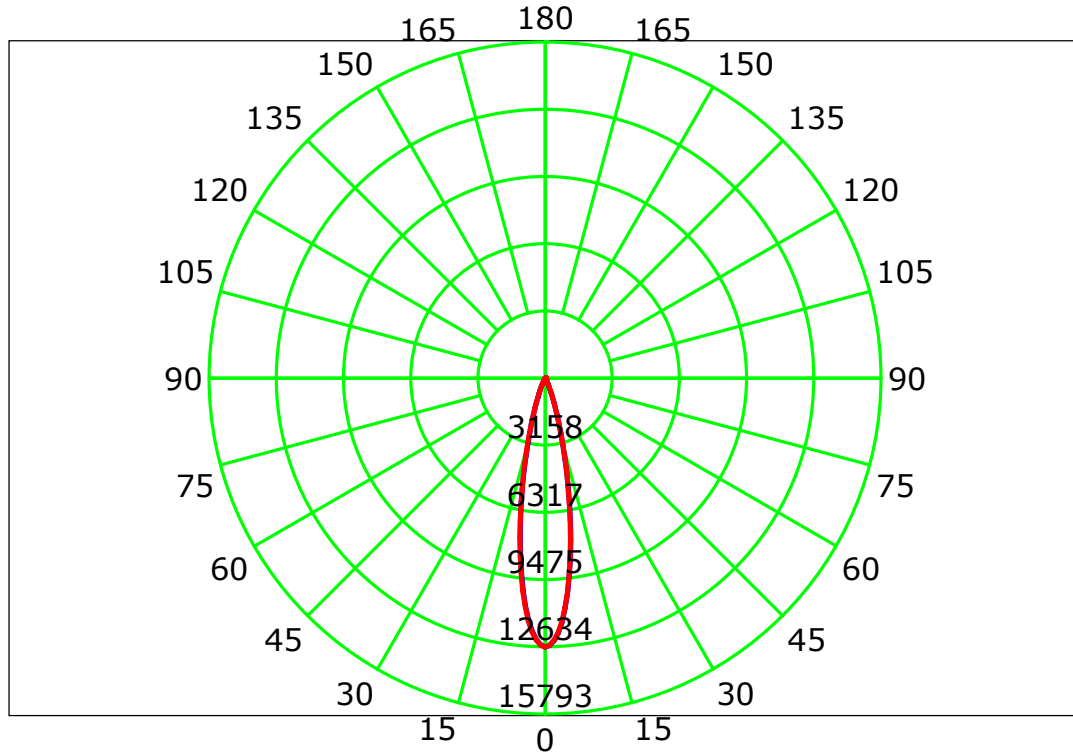
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

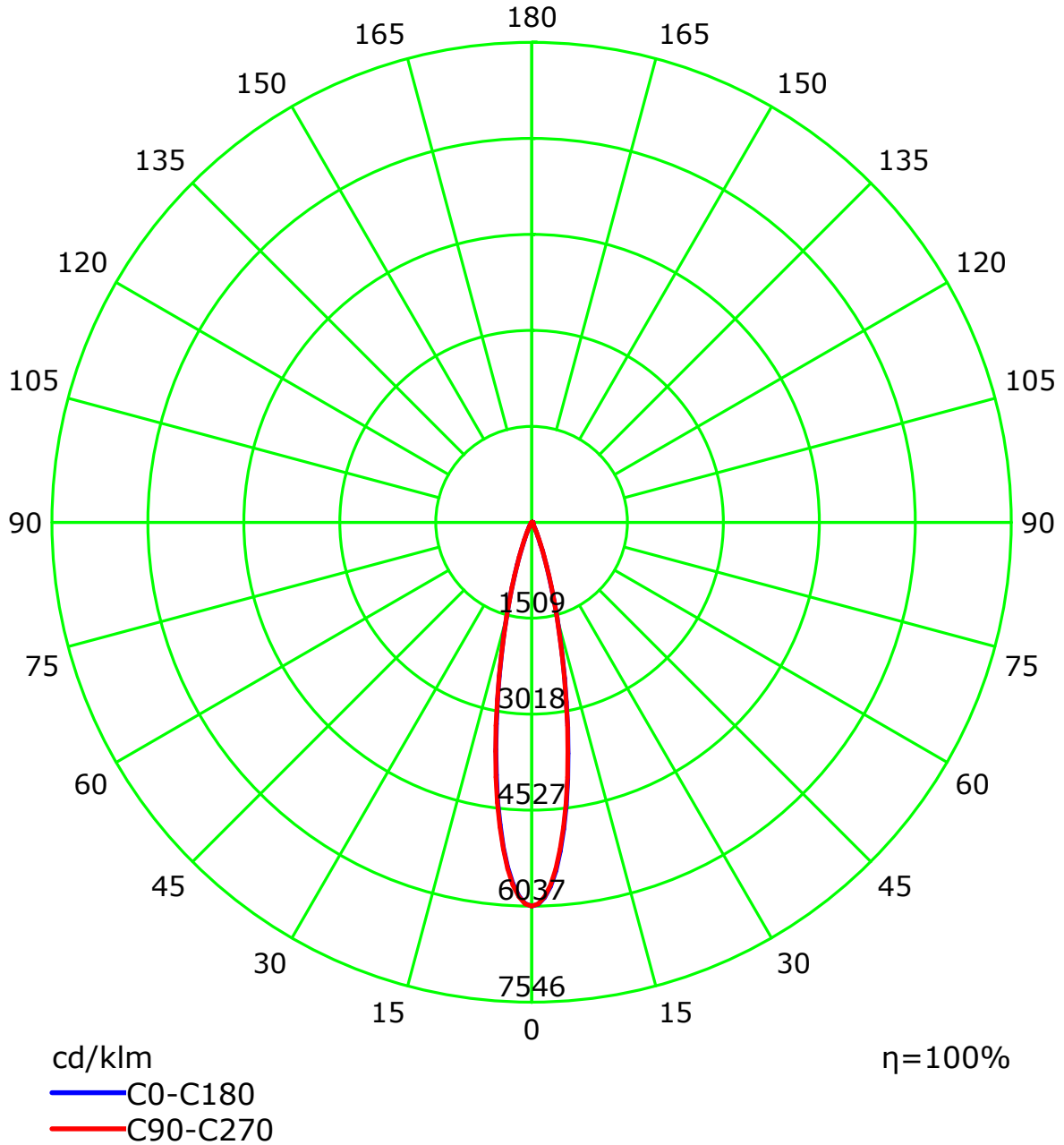
## Luminous Intensity Distribution Curve



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: 2.905 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

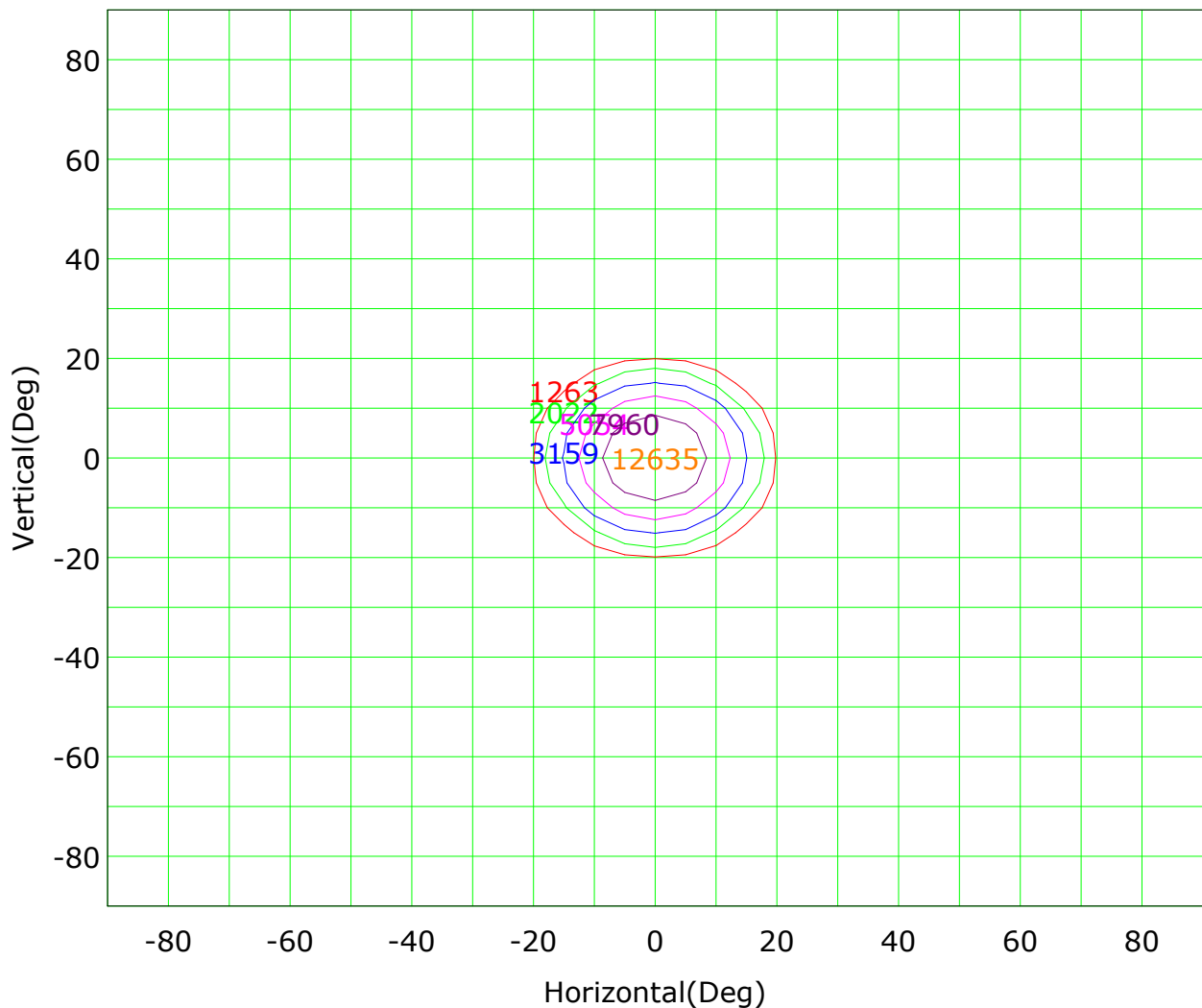
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## Isocandela (rectangle)



Imax (100%): 12635 cd

( 10%): 1263 cd	( 16%): 2022 cd
( 25%): 3159 cd	( 40%): 5054 cd
( 63%): 7960 cd	(100%): 12635 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

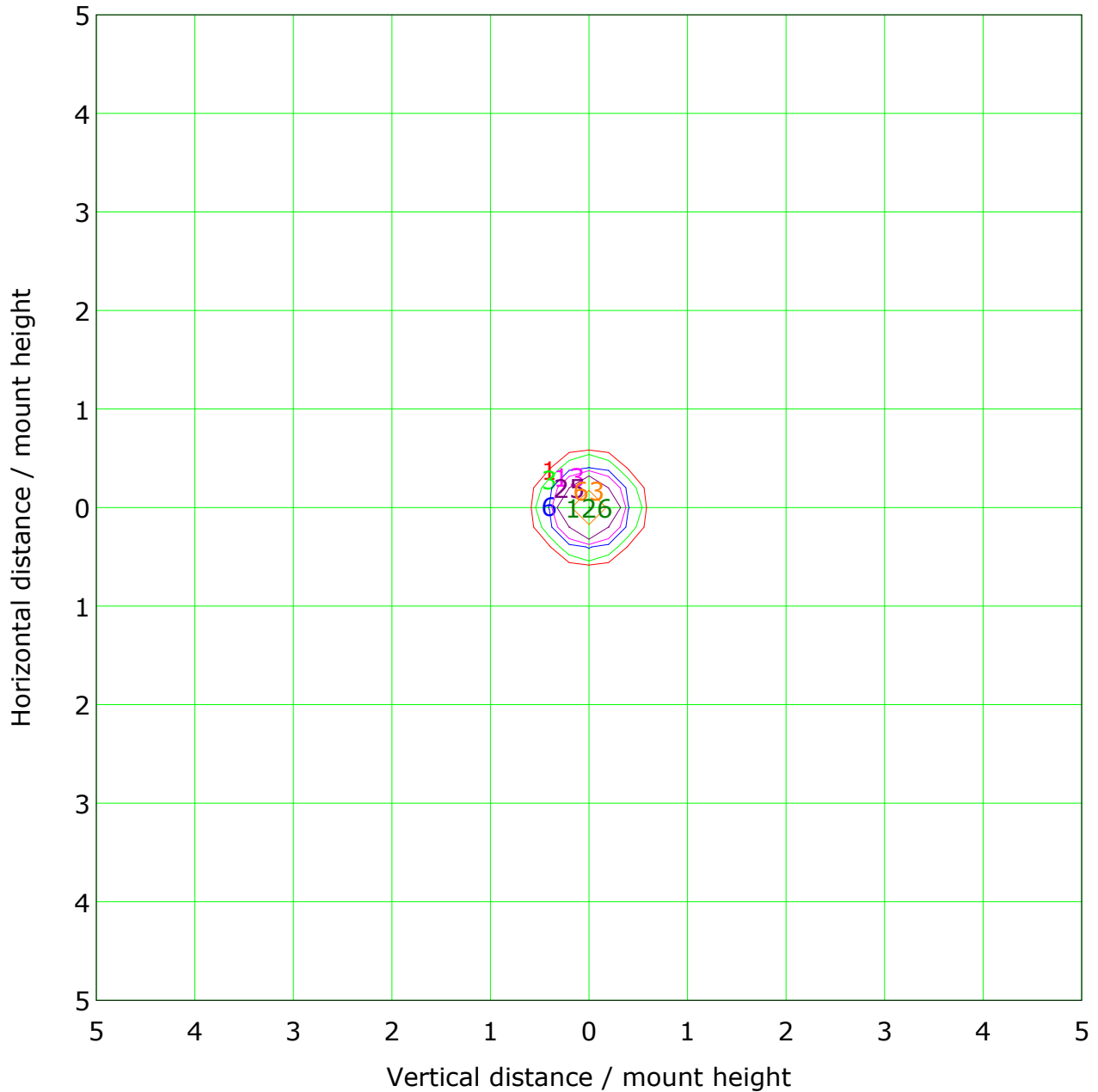
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## IsoLux Plot



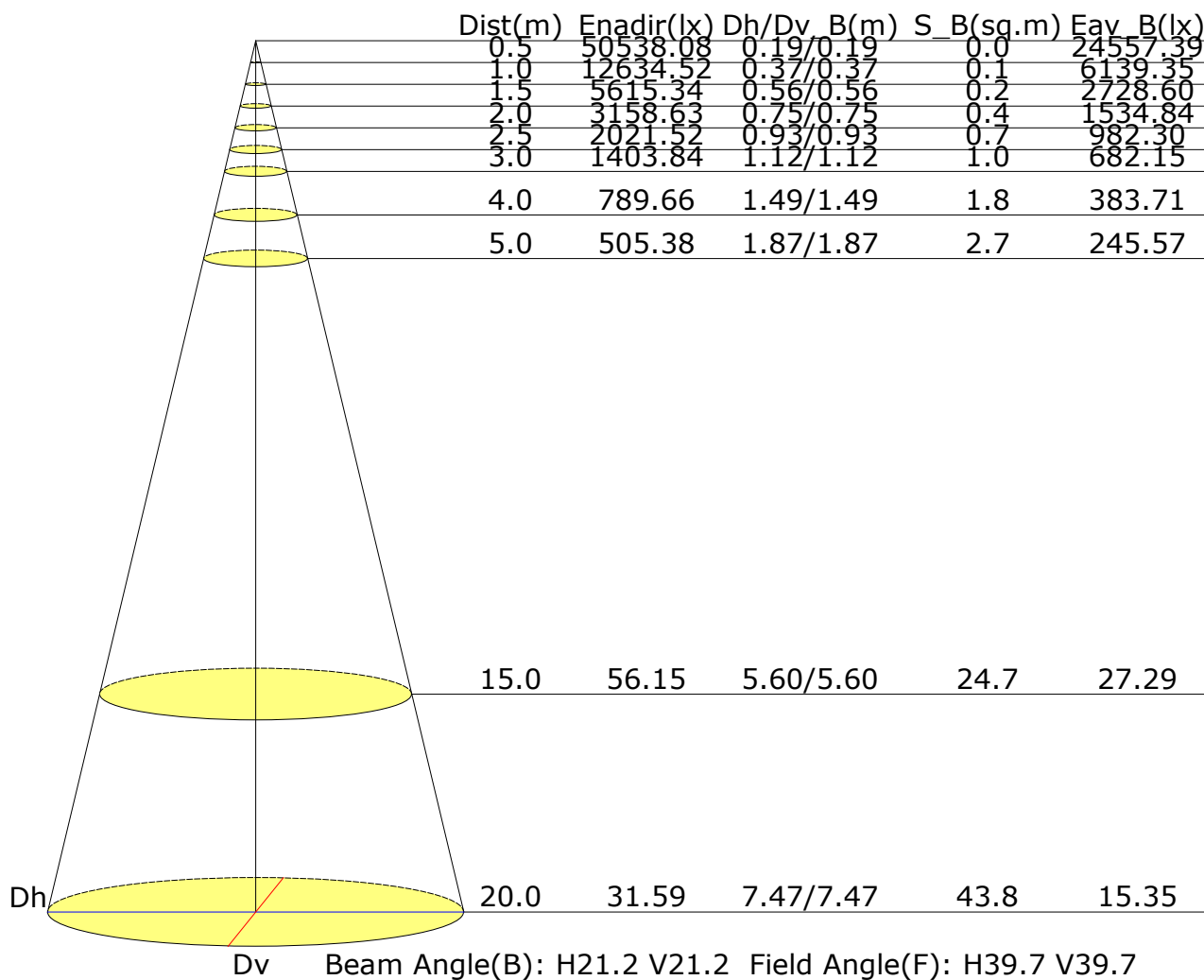
Mounting Height: 10.0m    Max Lux(100%): 126.3 lx

( 1%): 1.3 lx	( 2%): 2.5 lx
( 5%): 6.3 lx	( 10%): 12.6 lx
( 20%): 25.3 lx	( 50%): 63.2 lx
(100%): 126.3 lx	

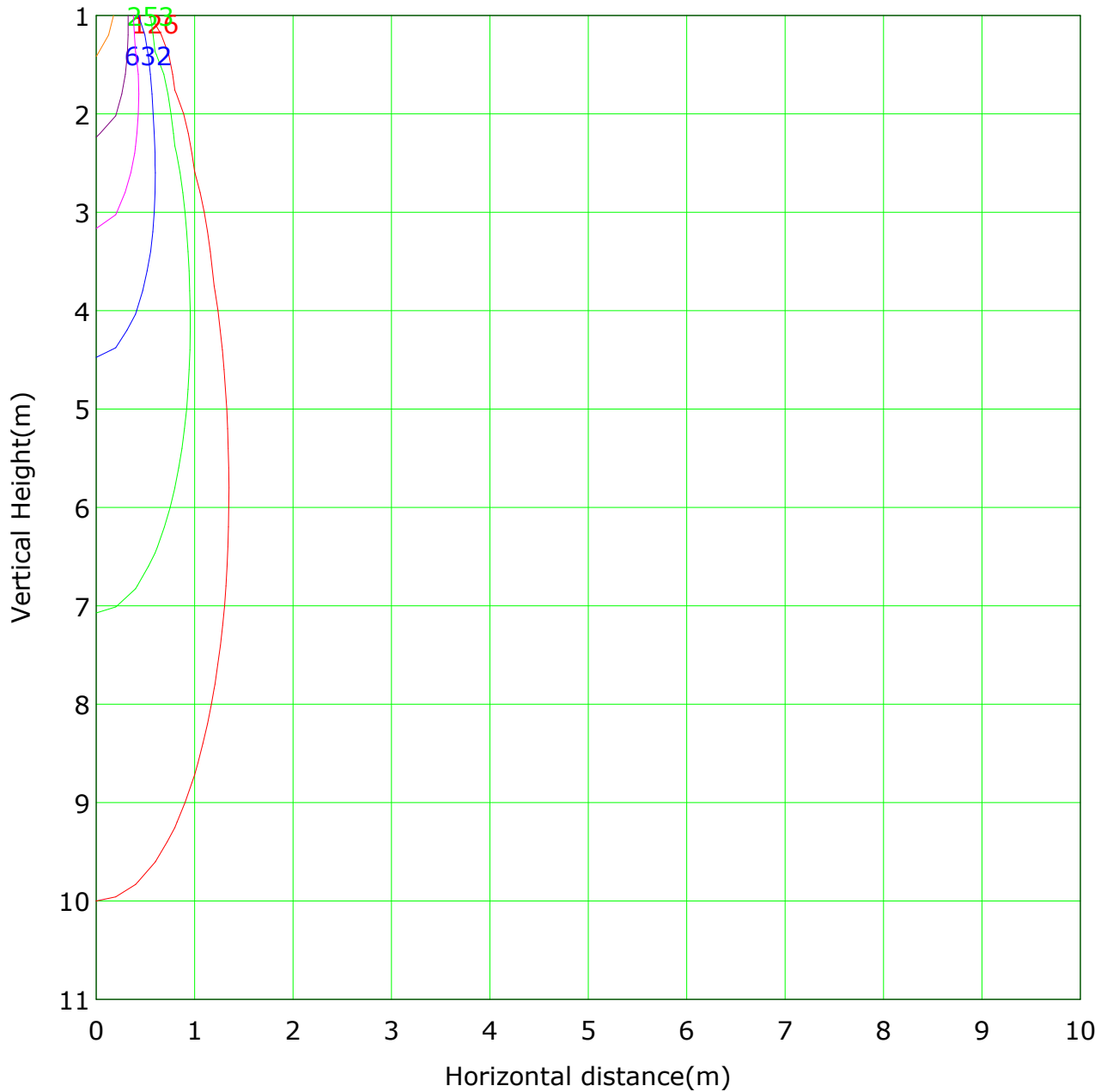
C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m   Highest(m): 11.0m   Max Lux: 12634.5 lx

( 1%): 126.3 lx	( 2%): 252.7 lx
( 5%): 631.7 lx	( 10%): 1263.5 lx
( 20%): 2526.9 lx	( 50%): 6317.3 lx
(100%): 12634.5 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: 2.905 m

Humidity:

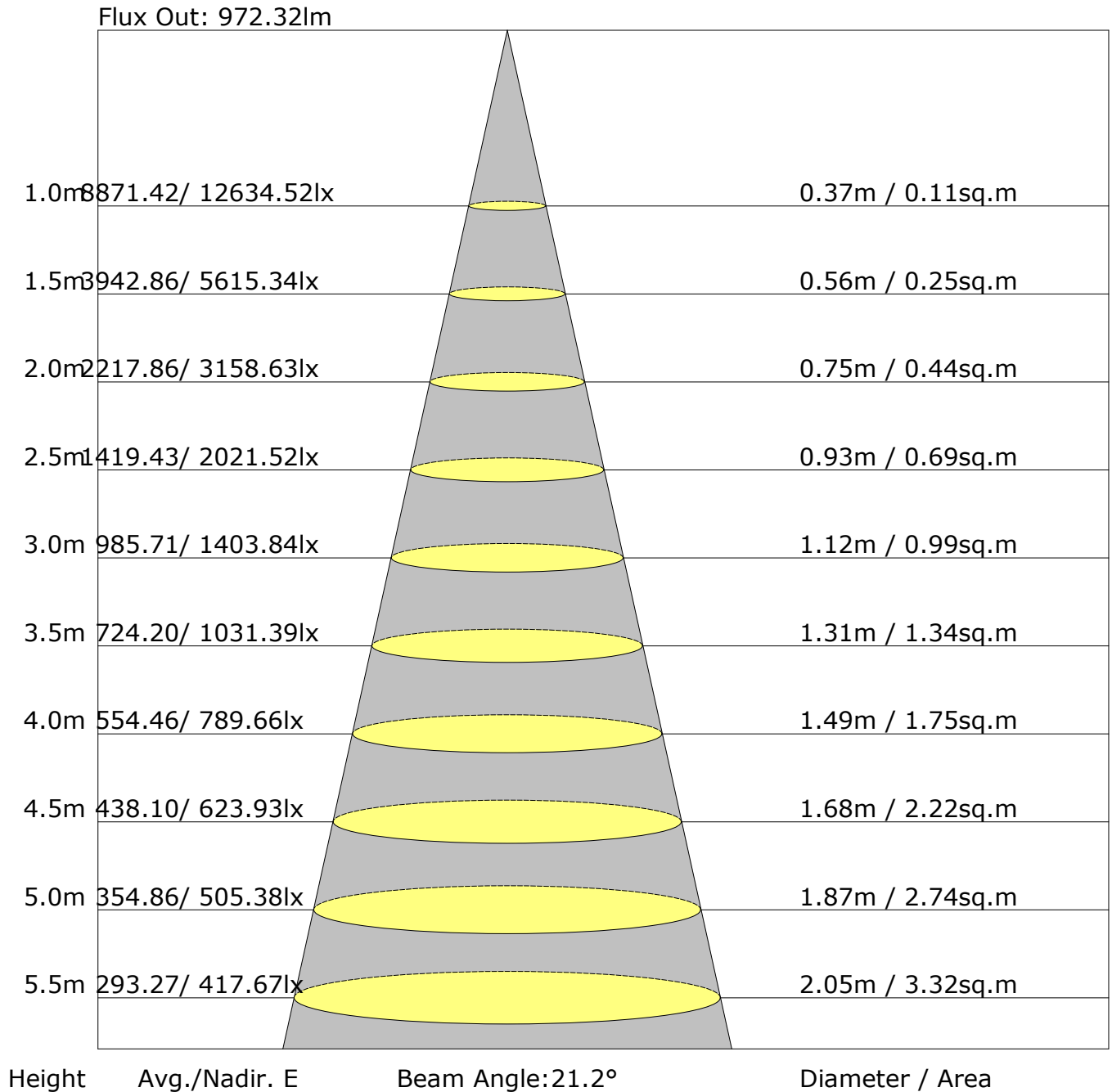
Inspector:

## Unit: lm

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:



## The Average Illuminance Effective Figure



## UGR Table

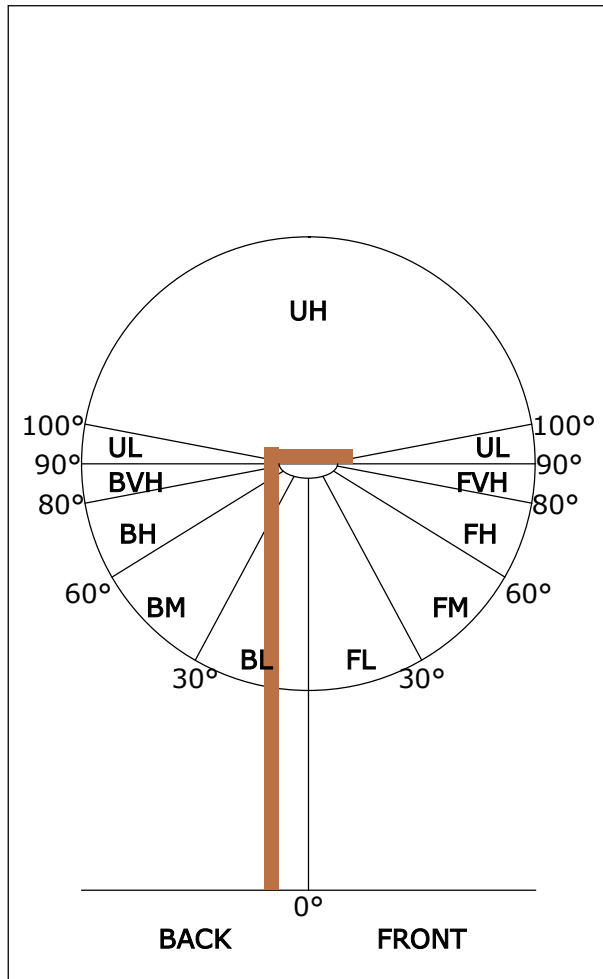
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	4.3	4.9	4.6	5.1	5.3	4.2	4.7	4.4	4.9	5.1
3H	4.6	5.1	4.9	5.4	5.6	4.4	4.9	4.7	5.1	5.4
4H	4.6	5.0	4.9	5.3	5.5	4.3	4.8	4.6	5.1	5.3
6H	4.5	4.9	4.8	5.2	5.5	4.3	4.7	4.6	5.0	5.3
8H	4.4	4.9	4.8	5.2	5.5	4.2	4.7	4.6	4.9	5.2
12H	4.4	4.8	4.7	5.1	5.4	4.2	4.6	4.5	4.9	5.2
X=4H Y=2H	4.3	4.8	4.6	5.0	5.3	4.1	4.6	4.4	4.9	5.1
3H	4.7	5.1	5.0	5.4	5.7	4.4	4.9	4.8	5.2	5.5
4H	4.6	5.0	5.0	5.3	5.6	4.4	4.8	4.8	5.1	5.4
6H	4.5	4.8	4.9	5.2	5.6	4.3	4.6	4.7	5.0	5.4
8H	4.5	4.8	4.9	5.1	5.5	4.2	4.5	4.7	4.9	5.3
12H	4.4	4.7	4.8	5.1	5.5	4.2	4.5	4.6	4.9	5.3
X=8H Y=4H	4.5	4.8	4.9	5.2	5.6	4.3	4.6	4.7	5.0	5.4
6H	4.4	4.6	4.8	5.0	5.5	4.2	4.4	4.6	4.8	5.3
8H	4.3	4.5	4.8	5.0	5.5	4.1	4.3	4.6	4.8	5.3
12H	4.3	4.5	4.8	4.9	5.4	4.1	4.3	4.5	4.7	5.2
X=12H Y=4H	4.4	4.7	4.9	5.1	5.5	4.2	4.5	4.7	4.9	5.3
6H	4.3	4.5	4.8	5.0	5.5	4.1	4.3	4.6	4.8	5.3
8H	4.3	4.5	4.8	4.9	5.4	4.1	4.3	4.5	4.7	5.2
Variations with the observer position at spacings:										
S=1.0H	+4.0/-3.7					+3.9/-3.7				
S=1.5H	+6.5/-5.6					+6.6/-5.8				
S=2.0H	+8.5/-5.8					+8.5/-6.2				

Calculate in accordance with CIE Pub.117. The table is revised with 2093lm ( $8\log(F/F_0) = 2.6$ ).

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: 2.905 m  
Humidity:  
Inspector:

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



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1052	50.3
FL ( 0°-30°)	1015	48.5
FM (30°-60°)	35	1.7
FH (60°-80°)	2	0.1
FVH (80°-90°)	0	0.0
BACK LIGHT	1041	49.7
BL ( 0°-30°)	1005	48.0
BM (30°-60°)	34	1.6
BH (60°-80°)	2	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: 2.905 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	12595.9	12.1	12.1	0.58	0.58
1.0-2.0	12441.1	35.7	47.8	1.71	2.28
2.0-3.0	12134.9	58.0	105.8	2.77	5.06
3.0-4.0	11687.7	78.2	184.1	3.74	8.80
4.0-5.0	11114.4	95.6	279.7	4.57	13.36
5.0-6.0	10439.2	109.7	389.4	5.24	18.61
6.0-7.0	9689.3	120.3	509.7	5.75	24.36
7.0-8.0	8885.7	127.2	636.9	6.08	30.43
8.0-9.0	8050.5	130.5	767.4	6.24	36.67
9.0-10.0	7210.0	130.5	897.9	6.24	42.90
10.0-11.0	6383.3	127.6	1025.4	6.10	49.00
11.0-12.0	5590.2	122.2	1147.6	5.84	54.84
12.0-13.0	4843.1	115.0	1262.6	5.49	60.33
13.0-14.0	4149.7	106.2	1368.8	5.08	65.41
14.0-15.0	3520.6	96.7	1465.5	4.62	70.03
15.0-16.0	2958.9	86.7	1552.2	4.14	74.17
16.0-17.0	2464.9	76.8	1629.0	3.67	77.84
17.0-18.0	2037.6	67.2	1696.2	3.21	81.05
18.0-19.0	1671.1	58.1	1754.3	2.78	83.83
19.0-20.0	1358.7	49.7	1804.0	2.38	86.21
20.0-21.0	1098.5	42.2	1846.2	2.02	88.22
21.0-22.0	885.1	35.6	1881.8	1.70	89.92
22.0-23.0	710.6	29.8	1911.6	1.42	91.35
23.0-24.0	568.0	24.8	1936.5	1.19	92.53
24.0-25.0	453.9	20.6	1957.1	0.99	93.52
25.0-26.0	364.1	17.2	1974.3	0.82	94.34
26.0-27.0	294.2	14.4	1988.7	0.69	95.03
27.0-28.0	240.8	12.2	2000.9	0.58	95.61
28.0-29.0	199.4	10.4	2011.3	0.50	96.11
29.0-30.0	165.7	8.9	2020.3	0.43	96.54
30.0-31.0	138.7	7.7	2028.0	0.37	96.91
31.0-32.0	118.7	6.8	2034.8	0.32	97.23
32.0-33.0	102.2	6.0	2040.8	0.29	97.52
33.0-34.0	87.8	5.3	2046.1	0.25	97.77
34.0-35.0	76.9	4.8	2050.9	0.23	98.00
35.0-36.0	67.8	4.3	2055.2	0.21	98.21

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: 2.905 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	60.0	3.9	2059.1	0.19	98.39
37.0-38.0	53.0	3.5	2062.7	0.17	98.56
38.0-39.0	46.3	3.2	2065.8	0.15	98.71
39.0-40.0	40.7	2.8	2068.7	0.14	98.85
40.0-41.0	35.5	2.5	2071.2	0.12	98.97
41.0-42.0	30.9	2.2	2073.4	0.11	99.08
42.0-43.0	26.3	2.0	2075.4	0.09	99.17
43.0-44.0	22.8	1.7	2077.1	0.08	99.25
44.0-45.0	19.3	1.5	2078.6	0.07	99.32
45.0-46.0	15.8	1.2	2079.8	0.06	99.38
46.0-47.0	13.0	1.0	2080.9	0.05	99.43
47.0-48.0	10.5	0.9	2081.7	0.04	99.47
48.0-49.0	9.5	0.8	2082.5	0.04	99.51
49.0-50.0	8.1	0.7	2083.2	0.03	99.54
50.0-51.0	7.0	0.6	2083.8	0.03	99.57
51.0-52.0	7.7	0.7	2084.4	0.03	99.60
52.0-53.0	7.7	0.7	2085.1	0.03	99.64
53.0-54.0	7.7	0.7	2085.8	0.03	99.67
54.0-55.0	7.7	0.7	2086.5	0.03	99.70
55.0-56.0	7.0	0.6	2087.1	0.03	99.73
56.0-57.0	6.3	0.6	2087.7	0.03	99.76
57.0-58.0	4.2	0.4	2088.1	0.02	99.78
58.0-59.0	3.2	0.3	2088.4	0.01	99.79
59.0-60.0	3.2	0.3	2088.7	0.01	99.81
60.0-61.0	2.8	0.3	2088.9	0.01	99.82
61.0-62.0	3.2	0.3	2089.2	0.01	99.83
62.0-63.0	3.2	0.3	2089.5	0.01	99.85
63.0-64.0	3.5	0.3	2089.9	0.02	99.86
64.0-65.0	4.2	0.4	2090.3	0.02	99.88
65.0-66.0	4.2	0.4	2090.7	0.02	99.90
66.0-67.0	3.5	0.4	2091.1	0.02	99.92
67.0-68.0	3.5	0.4	2091.4	0.02	99.94
68.0-69.0	3.5	0.4	2091.8	0.02	99.95
69.0-70.0	3.2	0.3	2092.1	0.02	99.97
70.0-71.0	2.5	0.3	2092.4	0.01	99.98
71.0-72.0	1.4	0.1	2092.5	0.01	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: 2.905 m  
Humidity:  
Inspector:



## Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	12634.5	12634.5								
G1.0	12568.5	12546.0								
G2.0	12355.1	12294.7								
G3.0	11994.2	11895.8								
G4.0	11491.4	11369.2								
G5.0	10865.1	10731.7								
G6.0	10153.1	10007.1								
G7.0	9372.3	9224.9								
G8.0	8548.0	8397.7								
G9.0	7695.6	7560.8								
G10.0	6853.0	6730.8								
G11.0	6024.5	5924.8								
G12.0	5247.9	5163.6								
G13.0	4520.5	4440.4								
G14.0	3853.4	3784.6								
G15.0	3251.0	3193.4								
G16.0	2720.1	2671.0								
G17.0	2253.9	2214.6								
G18.0	1859.3	1822.8								
G19.0	1520.9	1481.5								
G20.0	1235.8	1196.5								
G21.0	999.9	962.0								
G22.0	804.7	773.8								
G23.0	646.0	617.9								
G24.0	516.8	491.5								
G25.0	414.3	393.2								
G26.0	334.2	314.6								
G27.0	271.0	257.0								
G28.0	223.3	212.1								
G29.0	184.0	178.4								
G30.0	154.5	146.1								
G31.0	130.6	123.6								
G32.0	112.3	108.1								
G33.0	96.9	91.3								
G34.0	82.8	80.1								
G35.0	74.4	70.2								
G36.0	64.6	61.8								

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: 2.905 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	57.6	56.2								
G38.0	50.5	47.8								
G39.0	44.9	42.1								
G40.0	39.3	36.5								
G41.0	33.7	32.3								
G42.0	29.5	28.1								
G43.0	25.3	22.5								
G44.0	22.5	21.1								
G45.0	18.3	15.4								
G46.0	16.9	12.6								
G47.0	11.2	11.2								
G48.0	9.8	9.8								
G49.0	9.8	8.4								
G50.0	7.0	7.0								
G51.0	7.0	7.0								
G52.0	7.0	9.8								
G53.0	7.0	7.0								
G54.0	7.0	9.8								
G55.0	7.0	7.0								
G56.0	9.8	4.2								
G57.0	7.0	4.2								
G58.0	4.2	1.4								
G59.0	5.6	1.4								
G60.0	4.2	1.4								
G61.0	4.2	1.4								
G62.0	4.2	2.8								
G63.0	4.2	1.4								
G64.0	4.2	4.2								
G65.0	4.2	4.2								
G66.0	4.2	4.2								
G67.0	4.2	1.4								
G68.0	4.2	4.2								
G69.0	4.2	1.4								
G70.0	4.2	2.8								
G71.0	1.4	1.4								
G72.0	1.4	1.4								
G73.0	0.0	2.8								

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

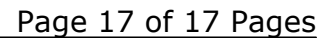
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:





## Unit: cd

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector: