

Report No.:AX-MG-FL-DL-20W-436

Test Time: 2025-09-23 16:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 中

Luminous Width (mm): -20

Current: 0.090 A

Power Factor: 0.941

Luminous Length (mm): -430

Voltage: 231.5 V

Power: 19.70 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1831.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H84.5

Vertical Diffuse Angle(50%): V84.5

Luminaire Efficacy Rating (LER): 93.02

Max. Intensity: 996.42 cd

S/MH(C0/C180): 1.15

Total Rated Lamp Lumens: 1831.5 lm

Efficiency: 100%

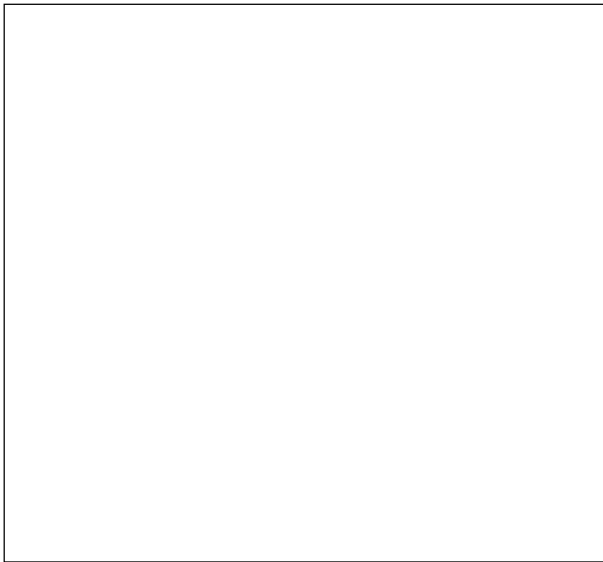
Upward Ratio: 0%

Central Intensity: 996.14 cd

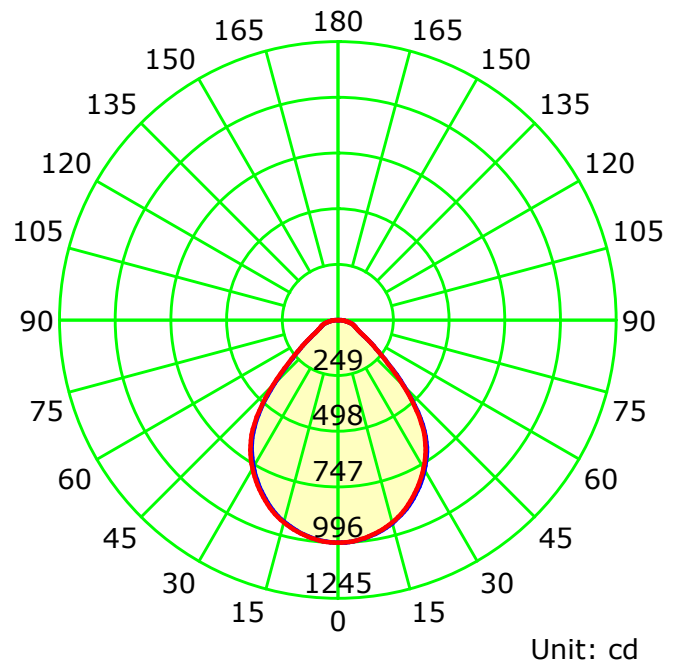
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 1.15

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

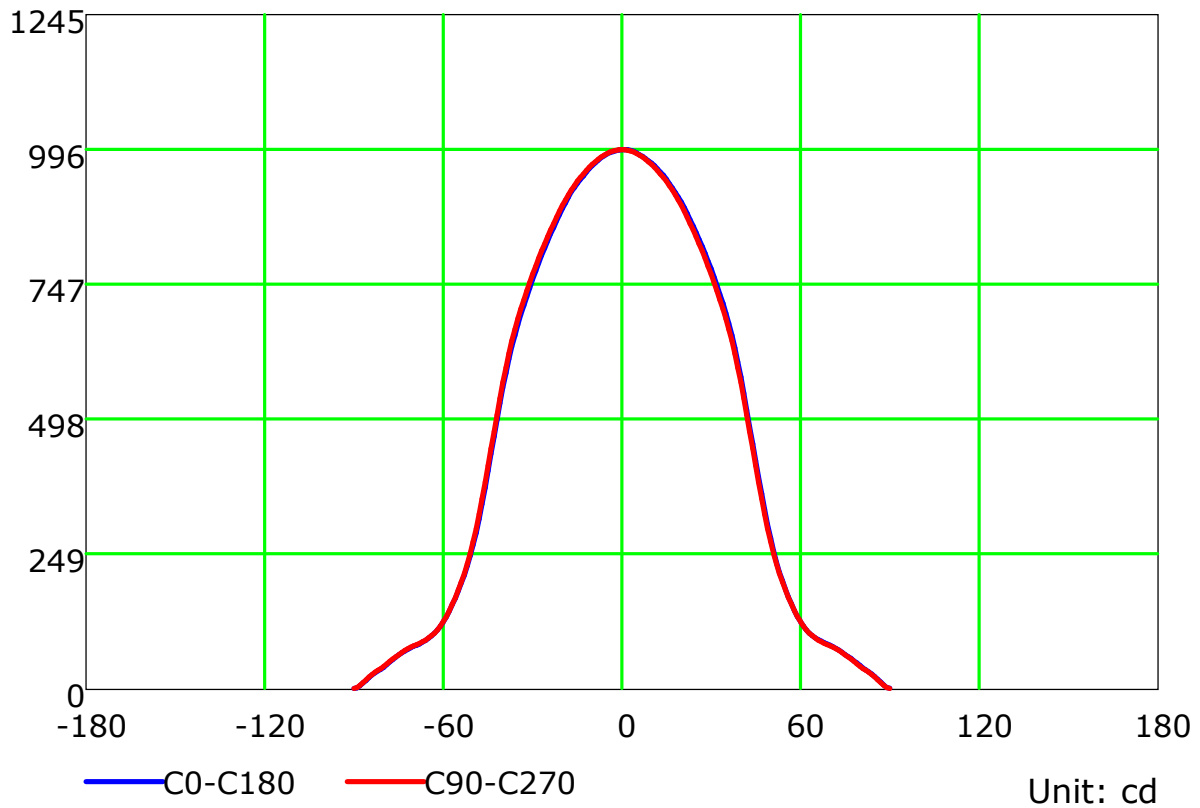
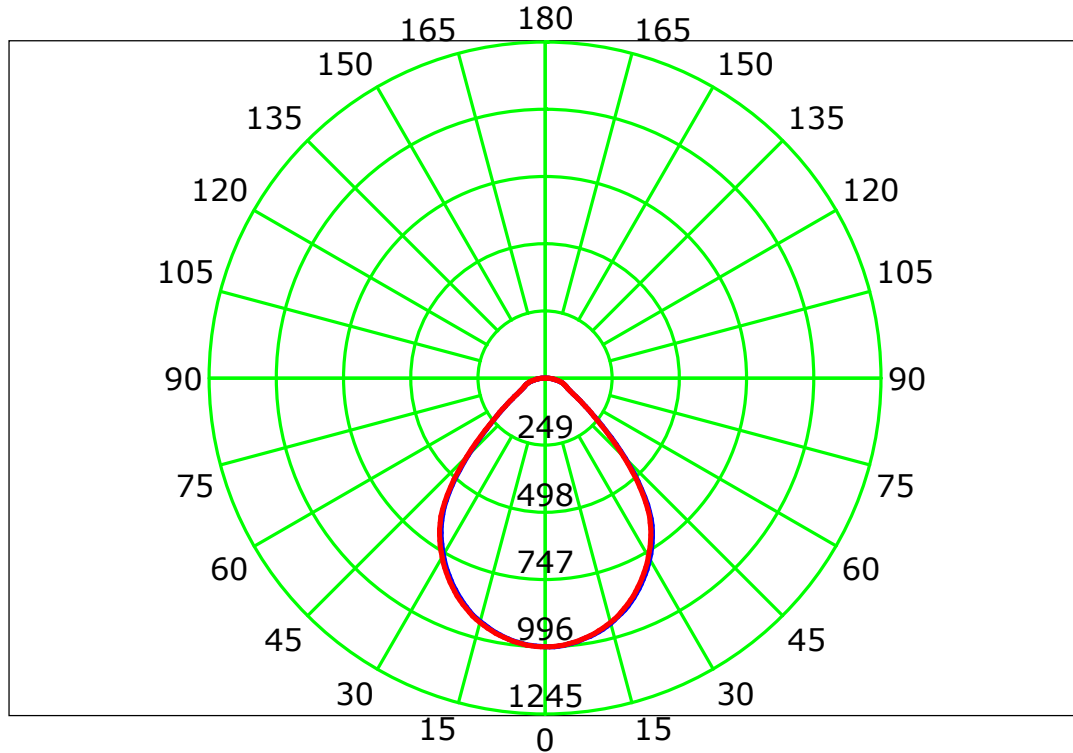
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

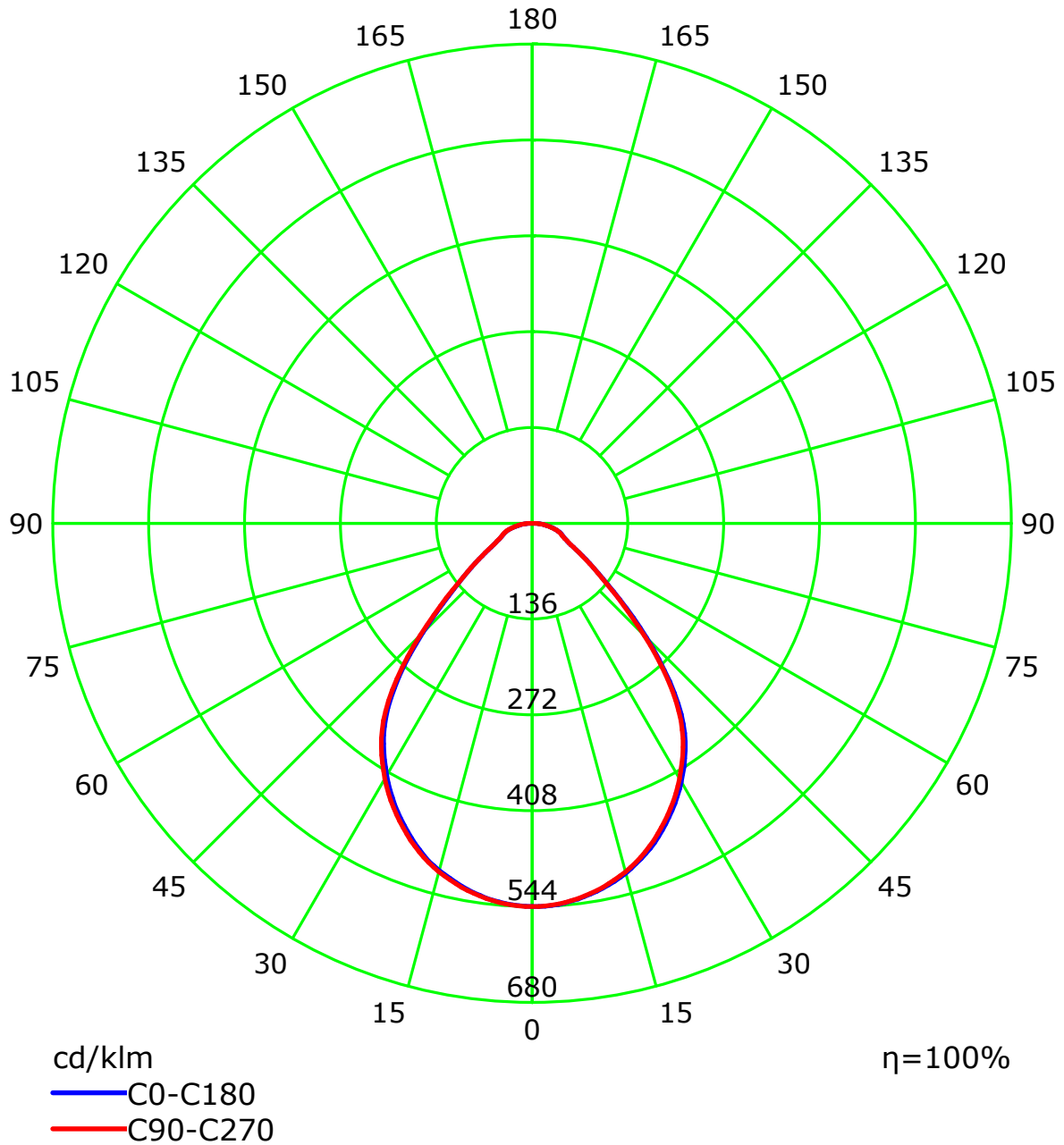
Luminous Intensity Distribution Curve



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:

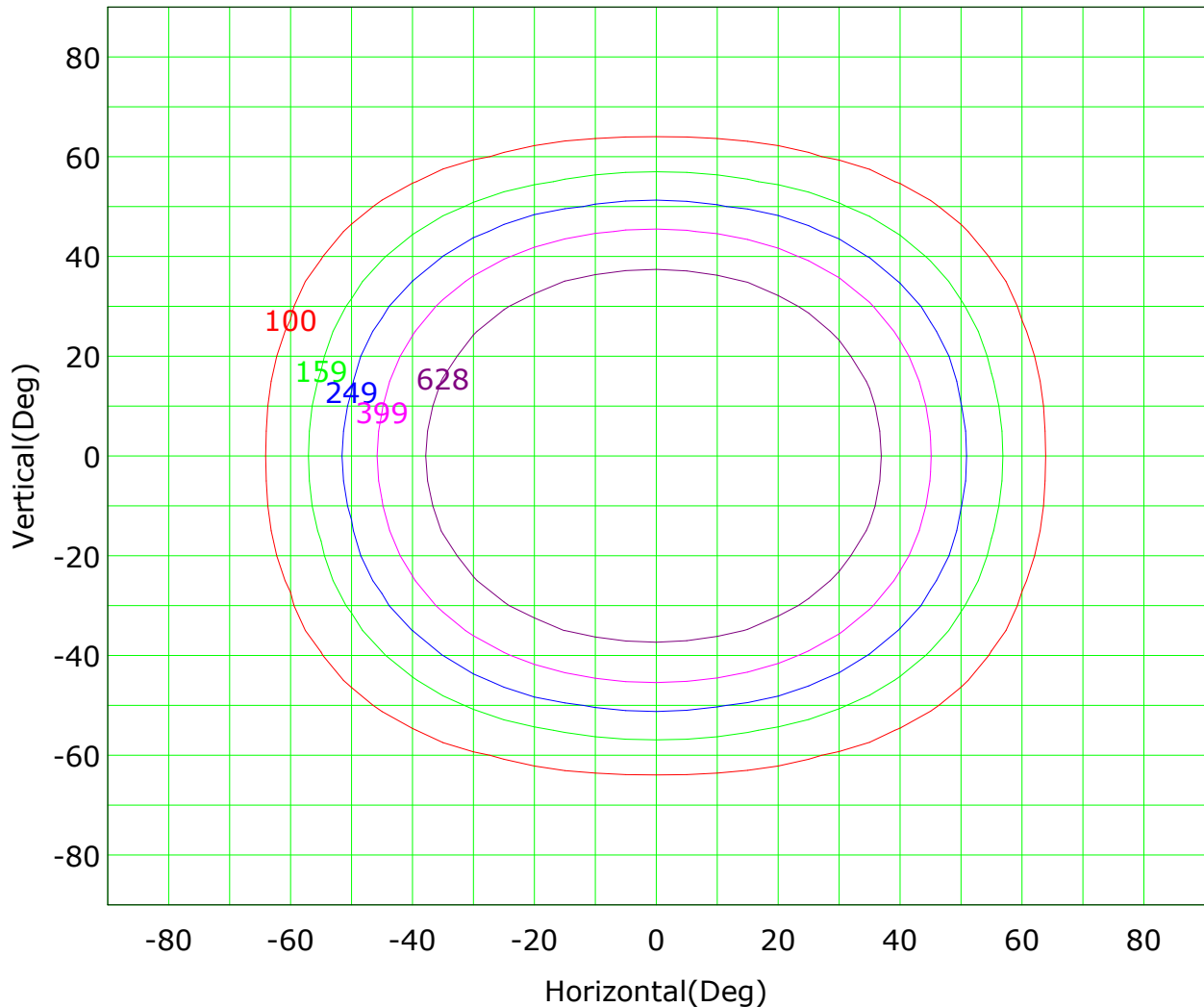
Luminous Intensity Distribution Curve(cd/klm)



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%): 996 cd

(10%): 100 cd	(16%): 159 cd
(25%): 249 cd	(40%): 399 cd
(63%): 628 cd	(100%): 996 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

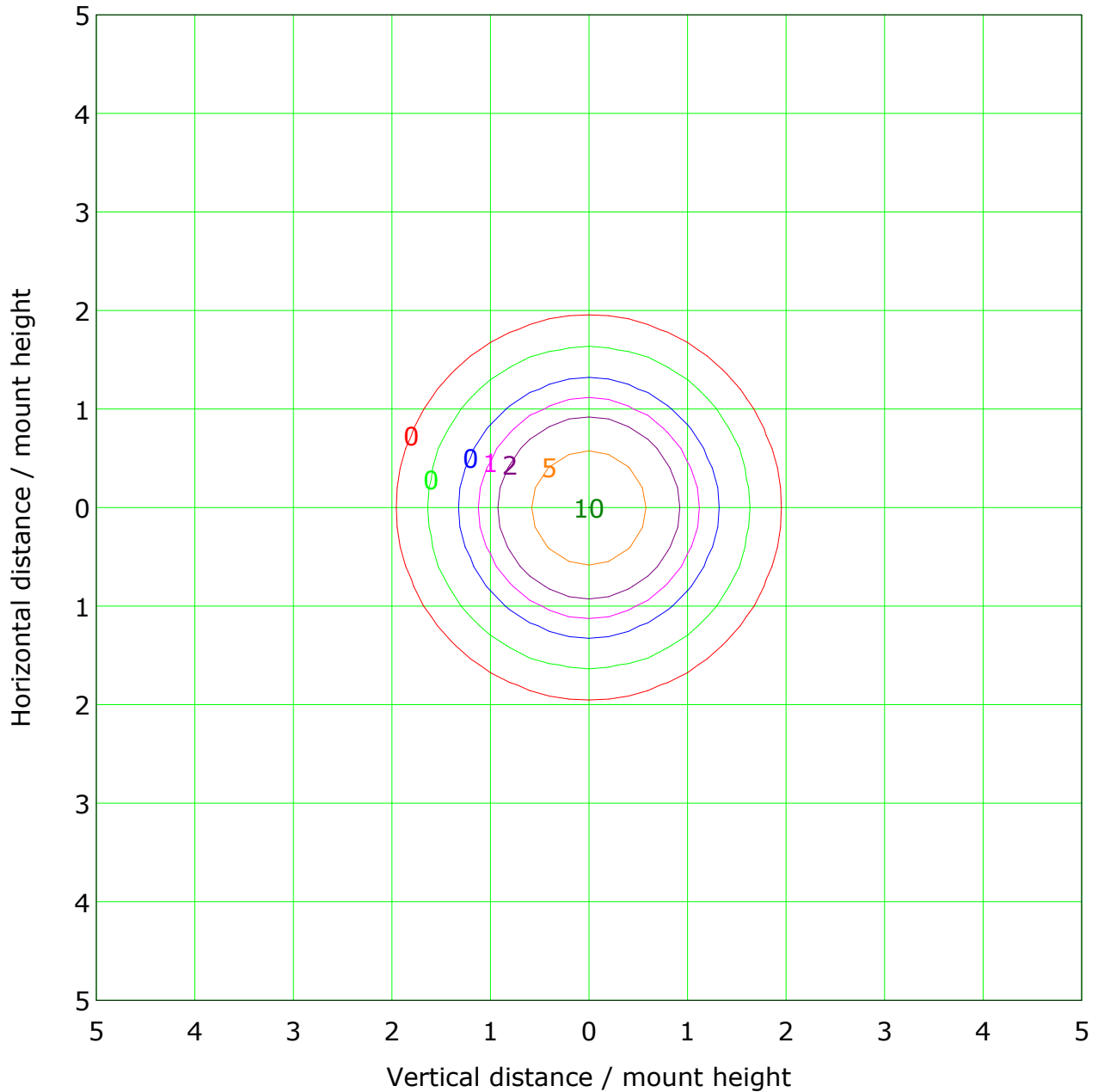
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



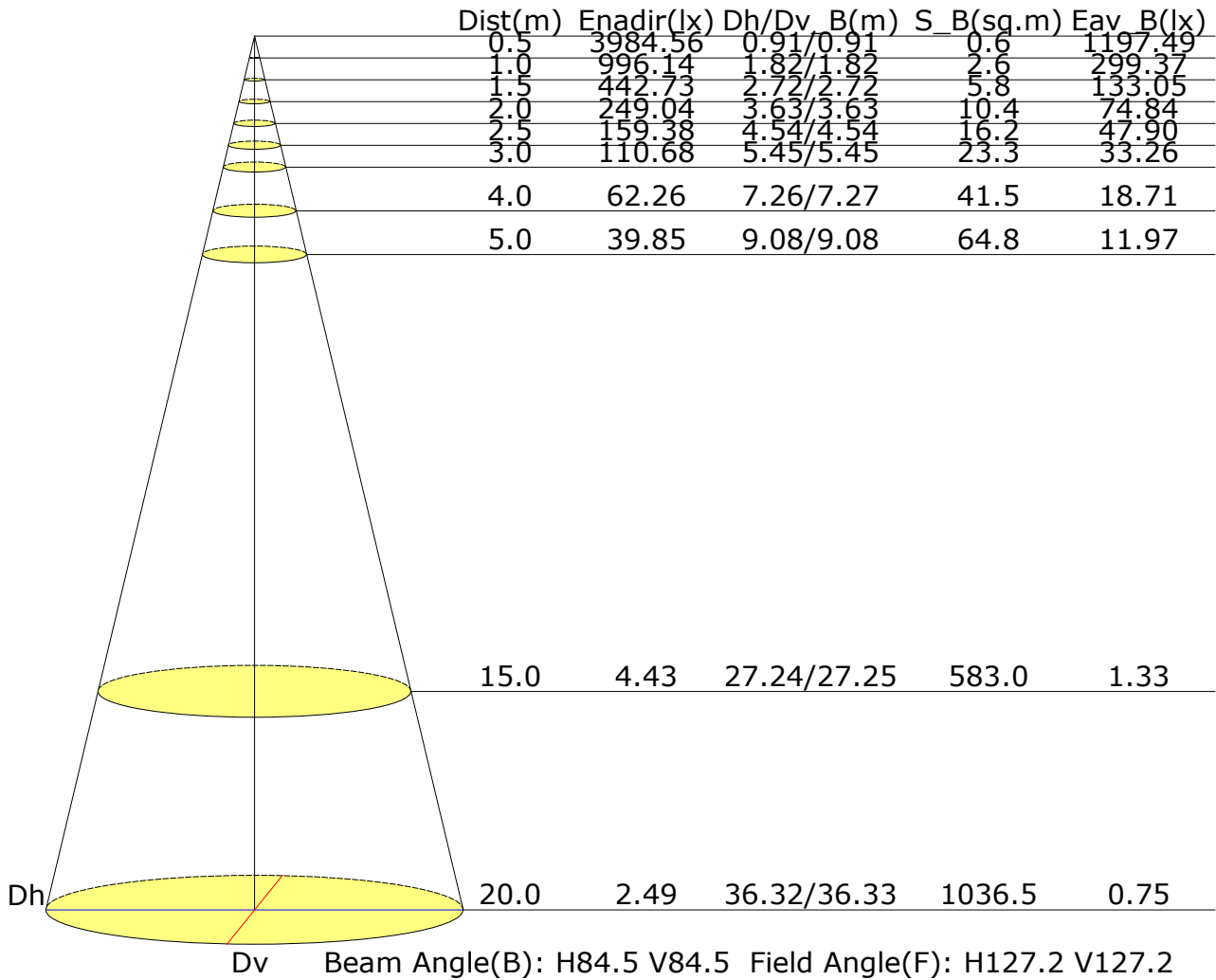
Mounting Height: 10.0m Max Lux(100%): 10.0 lx

(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.5 lx	(10%): 1.0 lx
(20%): 2.0 lx	(50%): 5.0 lx
(100%): 10.0 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: 2.905 m
Humidity:
Inspector:

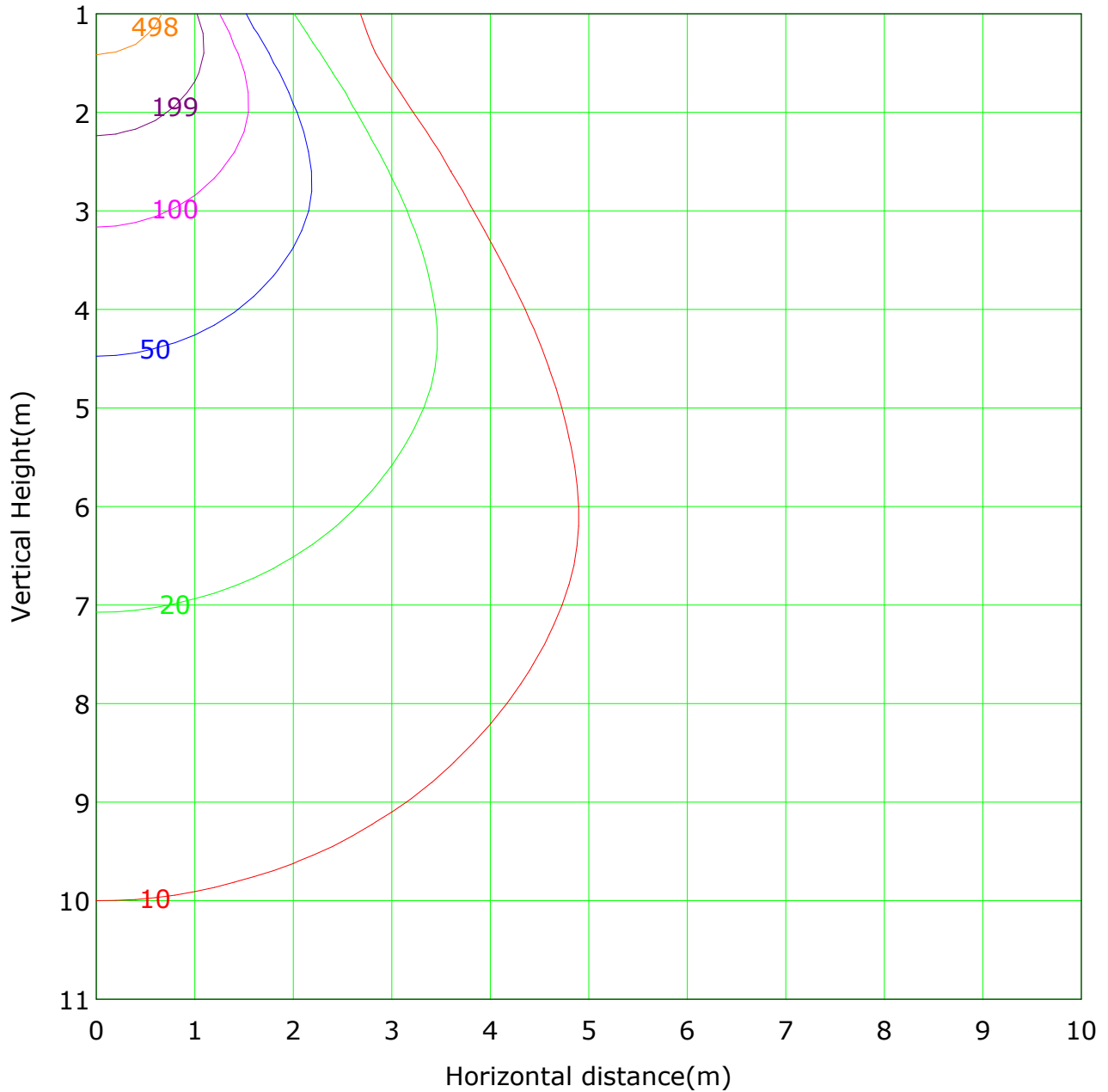
Illuminance at a Distance



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:

Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 996.1 lx
(1%): 10.0 lx	(2%): 19.9 lx	
(5%): 49.8 lx	(10%): 99.6 lx	
(20%): 199.2 lx	(50%): 498.1 lx	
(100%): 996.1 lx		

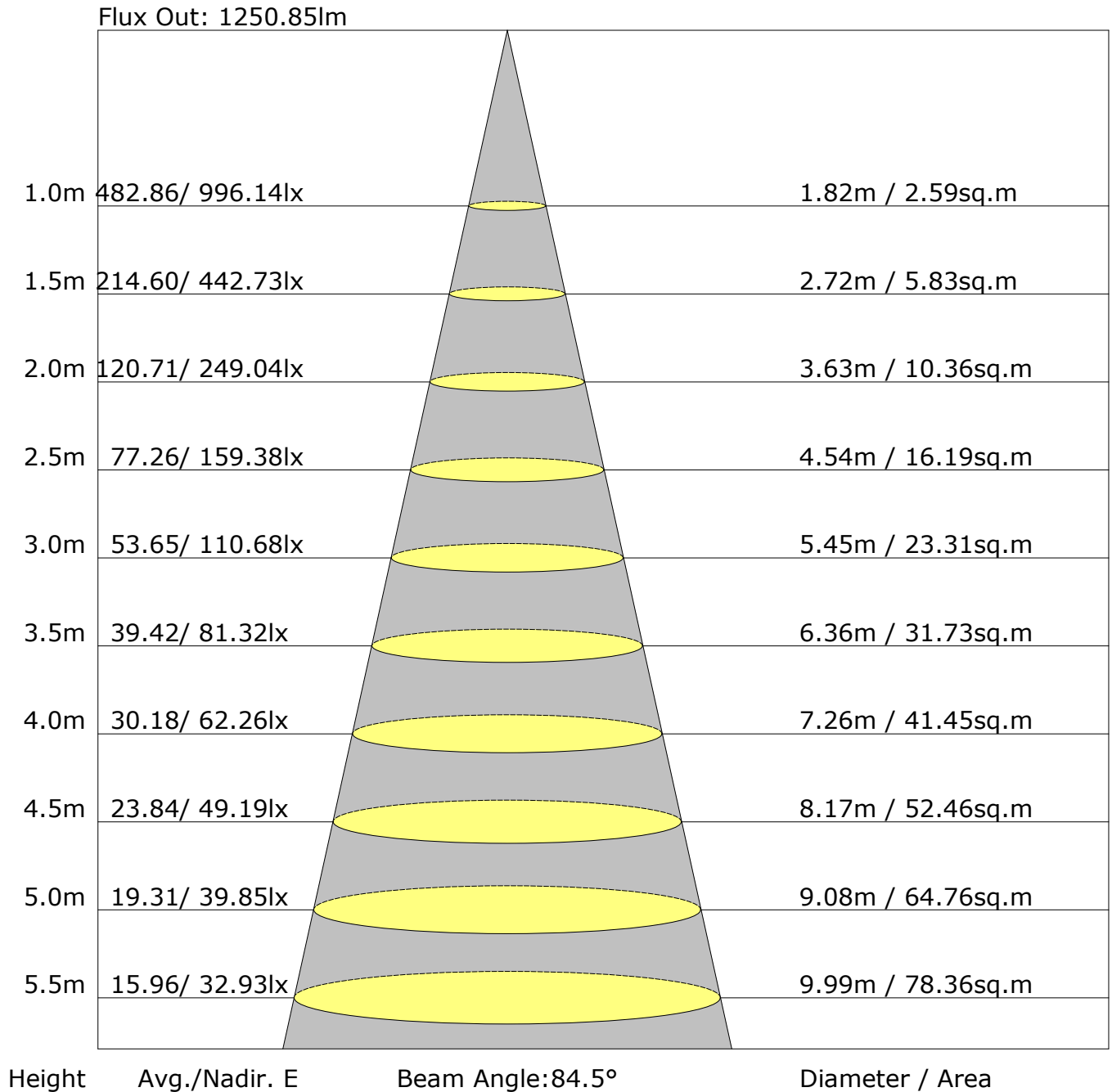
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

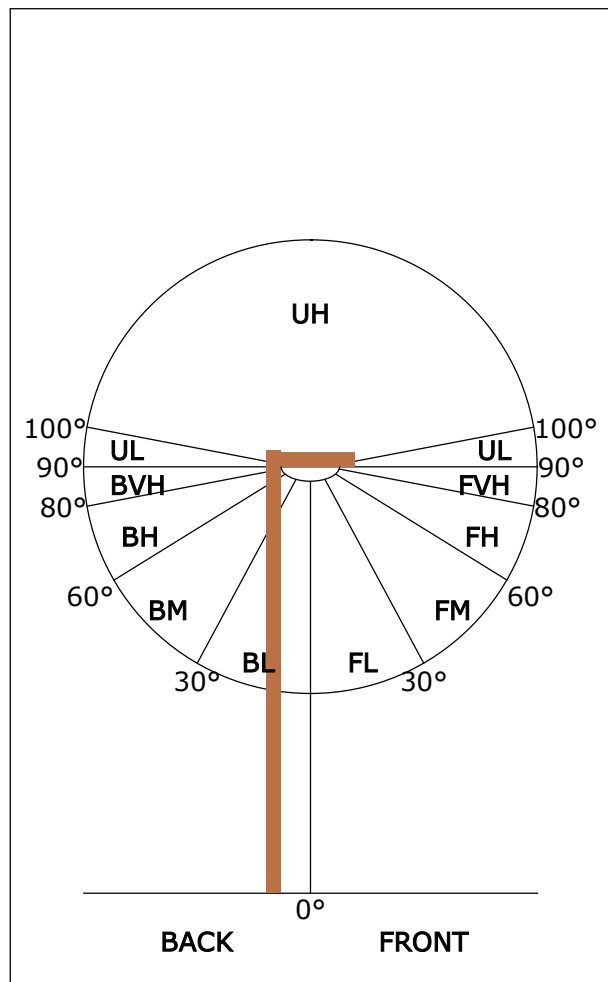
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	25.4	26.5	25.6	26.8	27.0	25.3	26.5	25.6	26.7	26.9
3H	26.0	27.1	26.4	27.4	27.6	26.0	27.1	26.3	27.3	27.6
4H	26.5	27.5	26.8	27.8	28.1	26.5	27.5	26.8	27.7	28.0
6H	26.9	27.9	27.3	28.2	28.5	26.9	27.8	27.2	28.1	28.4
8H	27.1	28.0	27.5	28.3	28.6	27.0	27.9	27.4	28.2	28.6
12H	27.3	28.1	27.6	28.4	28.8	27.2	28.0	27.5	28.4	28.7
X=4H Y=2H	25.5	26.6	25.9	26.8	27.1	25.5	26.5	25.8	26.8	27.1
3H	26.5	27.4	26.9	27.7	28.0	26.5	27.3	26.8	27.7	28.0
4H	27.1	27.9	27.5	28.3	28.6	27.1	27.9	27.5	28.2	28.6
6H	27.8	28.4	28.2	28.8	29.2	27.7	28.4	28.1	28.8	29.1
8H	28.0	28.6	28.4	29.0	29.4	27.9	28.6	28.4	29.0	29.4
12H	28.2	28.8	28.7	29.2	29.6	28.2	28.7	28.6	29.1	29.6
X=8H Y=4H	27.4	28.0	27.8	28.4	28.8	27.4	28.0	27.8	28.4	28.8
6H	28.2	28.7	28.6	29.1	29.6	28.1	28.6	28.6	29.1	29.5
8H	28.5	29.0	29.0	29.4	29.9	28.5	28.9	29.0	29.4	29.8
12H	28.9	29.2	29.4	29.7	30.2	28.8	29.2	29.3	29.6	30.1
X=12H Y=4H	27.4	28.0	27.9	28.4	28.8	27.4	27.9	27.8	28.4	28.8
6H	28.3	28.7	28.7	29.1	29.6	28.2	28.6	28.7	29.1	29.6
8H	28.7	29.1	29.2	29.5	30.0	28.6	29.0	29.1	29.5	30.0
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.7					+0.5/-0.7				
S=1.5H	+1.1/-1.3					+1.1/-1.3				
S=2.0H	+2.1/-1.7					+2.1/-1.7				

Calculate in accordance with CIE Pub.117. The table is revised with 1831lm ($8\log(F/F_0) = 2.1$).

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	921	50.3
FL (0°-30°)	372	20.3
FM (30°-60°)	457	25.0
FH (60°-80°)	81	4.4
FVH (80°-90°)	11	0.6
BACK LIGHT	910	49.7
BL (0°-30°)	370	20.2
BM (30°-60°)	450	24.6
BH (60°-80°)	80	4.4
BVH (80°-90°)	11	0.6
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)	B1 U1 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U1 G1

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	996.0	1.0	1.0	0.05	0.05
1.0-2.0	995.5	2.9	3.8	0.16	0.21
2.0-3.0	994.4	4.8	8.6	0.26	0.47
3.0-4.0	992.7	6.6	15.2	0.36	0.83
4.0-5.0	990.5	8.5	23.7	0.47	1.30
5.0-6.0	987.6	10.4	34.1	0.57	1.86
6.0-7.0	984.3	12.2	46.3	0.67	2.53
7.0-8.0	980.4	14.0	60.4	0.77	3.30
8.0-9.0	975.9	15.8	76.2	0.86	4.16
9.0-10.0	971.3	17.6	93.8	0.96	5.12
10.0-11.0	966.3	19.3	113.1	1.05	6.17
11.0-12.0	960.6	21.0	134.1	1.15	7.32
12.0-13.0	954.5	22.7	156.7	1.24	8.56
13.0-14.0	948.1	24.3	181.0	1.33	9.88
14.0-15.0	941.4	25.8	206.8	1.41	11.29
15.0-16.0	934.0	27.4	234.2	1.49	12.79
16.0-17.0	925.9	28.8	263.1	1.57	14.36
17.0-18.0	917.2	30.2	293.3	1.65	16.01
18.0-19.0	908.0	31.6	324.9	1.73	17.74
19.0-20.0	898.2	32.9	357.8	1.80	19.53
20.0-21.0	887.9	34.1	391.9	1.86	21.40
21.0-22.0	876.9	35.2	427.1	1.92	23.32
22.0-23.0	865.4	36.3	463.4	1.98	25.30
23.0-24.0	853.6	37.3	500.8	2.04	27.34
24.0-25.0	841.5	38.3	539.0	2.09	29.43
25.0-26.0	828.8	39.1	578.2	2.14	31.57
26.0-27.0	815.8	39.9	618.1	2.18	33.75
27.0-28.0	802.4	40.6	658.7	2.22	35.97
28.0-29.0	788.3	41.2	700.0	2.25	38.22
29.0-30.0	773.6	41.8	741.7	2.28	40.50
30.0-31.0	758.5	42.2	783.9	2.30	42.80
31.0-32.0	742.9	42.6	826.5	2.32	45.13
32.0-33.0	726.9	42.8	869.3	2.34	47.47
33.0-34.0	710.1	43.0	912.3	2.35	49.81
34.0-35.0	692.6	43.0	955.3	2.35	52.16
35.0-36.0	673.7	42.9	998.2	2.34	54.50

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	653.3	42.6	1040.9	2.33	56.83
37.0-38.0	631.0	42.1	1083.0	2.30	59.13
38.0-39.0	606.4	41.4	1124.4	2.26	61.39
39.0-40.0	579.7	40.4	1164.8	2.21	63.60
40.0-41.0	551.3	39.3	1204.1	2.14	65.74
41.0-42.0	521.1	37.9	1241.9	2.07	67.81
42.0-43.0	490.2	36.3	1278.2	1.98	69.79
43.0-44.0	458.9	34.6	1312.9	1.89	71.69
44.0-45.0	427.6	32.9	1345.8	1.79	73.48
45.0-46.0	396.5	31.0	1376.8	1.69	75.17
46.0-47.0	365.9	29.1	1405.9	1.59	76.76
47.0-48.0	336.4	27.2	1433.1	1.49	78.25
48.0-49.0	308.9	25.4	1458.4	1.39	79.63
49.0-50.0	283.5	23.6	1482.1	1.29	80.92
50.0-51.0	260.5	22.0	1504.1	1.20	82.13
51.0-52.0	239.9	20.6	1524.7	1.12	83.25
52.0-53.0	221.4	19.3	1544.0	1.05	84.30
53.0-54.0	204.8	18.1	1562.0	0.99	85.29
54.0-55.0	189.6	16.9	1579.0	0.92	86.21
55.0-56.0	175.4	15.9	1594.8	0.87	87.08
56.0-57.0	162.2	14.8	1609.6	0.81	87.89
57.0-58.0	149.8	13.9	1623.5	0.76	88.64
58.0-59.0	138.6	13.0	1636.4	0.71	89.35
59.0-60.0	128.5	12.1	1648.6	0.66	90.01
60.0-61.0	119.6	11.4	1660.0	0.62	90.64
61.0-62.0	111.9	10.8	1670.8	0.59	91.23
62.0-63.0	105.6	10.3	1681.1	0.56	91.79
63.0-64.0	100.2	9.8	1690.9	0.54	92.32
64.0-65.0	95.6	9.5	1700.4	0.52	92.84
65.0-66.0	91.7	9.2	1709.5	0.50	93.34
66.0-67.0	88.4	8.9	1718.4	0.49	93.83
67.0-68.0	85.4	8.7	1727.1	0.47	94.30
68.0-69.0	82.8	8.4	1735.5	0.46	94.76
69.0-70.0	80.4	8.3	1743.8	0.45	95.21
70.0-71.0	77.8	8.0	1751.8	0.44	95.65
71.0-72.0	75.0	7.8	1759.6	0.43	96.08

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	996.1	996.1								
G1.0	996.4	995.3								
G2.0	995.9	994.5								
G3.0	994.7	992.6								
G4.0	992.9	990.7								
G5.0	990.1	988.2								
G6.0	986.9	985.1								
G7.0	983.8	981.5								
G8.0	979.3	976.8								
G9.0	975.2	972.1								
G10.0	971.1	966.8								
G11.0	966.3	961.0								
G12.0	960.8	954.5								
G13.0	954.9	947.8								
G14.0	948.6	941.0								
G15.0	941.7	934.2								
G16.0	933.6	926.5								
G17.0	925.0	918.4								
G18.0	916.8	908.7								
G19.0	908.3	898.0								
G20.0	899.1	887.5								
G21.0	889.0	876.2								
G22.0	878.1	864.5								
G23.0	866.6	852.4								
G24.0	854.8	840.8								
G25.0	842.7	827.8								
G26.0	830.6	814.3								
G27.0	817.5	800.9								
G28.0	804.3	786.9								
G29.0	790.1	771.7								
G30.0	775.7	756.7								
G31.0	760.8	740.6								
G32.0	745.4	724.8								
G33.0	728.8	708.5								
G34.0	712.1	691.3								
G35.0	694.1	673.0								
G36.0	674.6	653.2								

C Plane (°):0.0-180.0: 180.0
Test Lab:
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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	653.2	632.0								
G38.0	629.7	608.9								
G39.0	603.6	583.3								
G40.0	575.8	556.3								
G41.0	545.8	527.2								
G42.0	514.5	496.9								
G43.0	483.6	465.7								
G44.0	452.3	434.2								
G45.0	421.1	402.6								
G46.0	390.6	371.6								
G47.0	360.3	341.2								
G48.0	330.9	313.4								
G49.0	303.3	288.0								
G50.0	277.6	265.1								
G51.0	254.1	245.0								
G52.0	233.6	226.8								
G53.0	215.1	210.1								
G54.0	199.0	194.9								
G55.0	183.8	180.8								
G56.0	169.8	167.4								
G57.0	156.5	155.1								
G58.0	144.3	143.3								
G59.0	133.6	133.0								
G60.0	123.9	123.6								
G61.0	115.5	115.4								
G62.0	108.5	108.4								
G63.0	102.7	102.8								
G64.0	98.0	97.3								
G65.0	94.0	93.0								
G66.0	90.6	89.2								
G67.0	87.7	86.0								
G68.0	85.2	82.8								
G69.0	82.8	80.4								
G70.0	80.3	78.2								
G71.0	77.2	75.7								
G72.0	74.4	72.6								
G73.0	71.3	69.6								

C Plane (°):0.0-180.0: 180.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

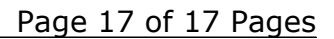
Gamma Plane (°):0.0-90.0:1.0

Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:



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