

Report No.:

Test Time: 2025-09-25 18:22

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 50D

Luminous Width (mm): -55

Current: 0.099 A

Power Factor: 0.618

Luminous Length (mm): -55

Voltage: 230.7 V

Power: 14.10 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1632.1 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H52

Vertical Diffuse Angle(50%): V52

Luminaire Efficacy Rating (LER): 115.80

Max. Intensity: 2181.9 cd

S/MH(C0/C180): 0.83

Total Rated Lamp Lumens: 1632.1 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 2174.07 cd

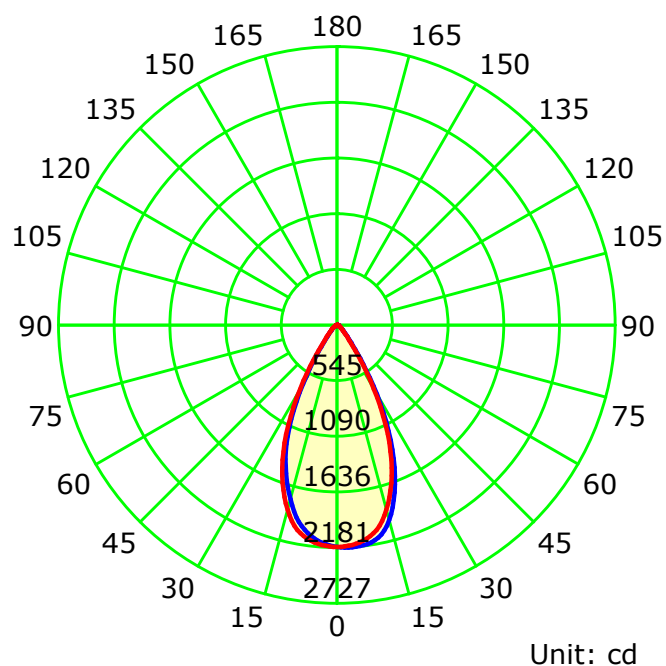
Pos of Max. Intensity: H0 V4

S/MH(C90/C270): 0.83

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

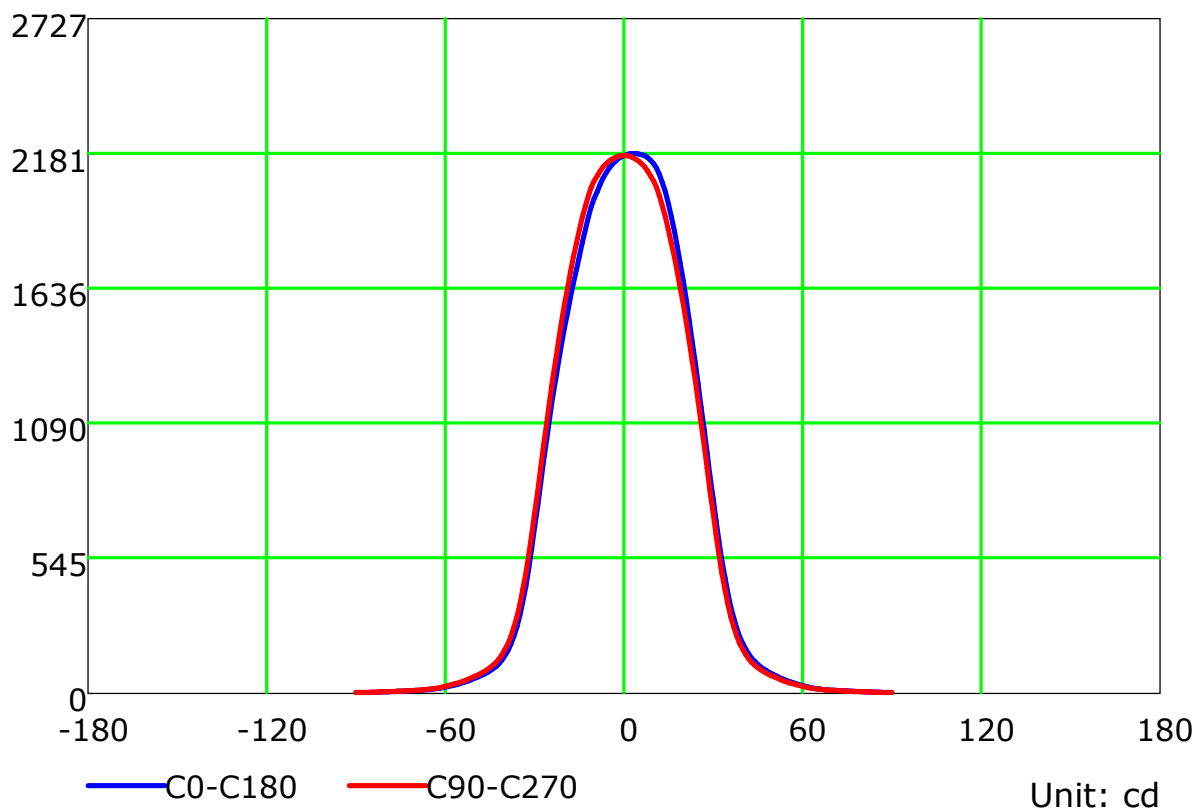
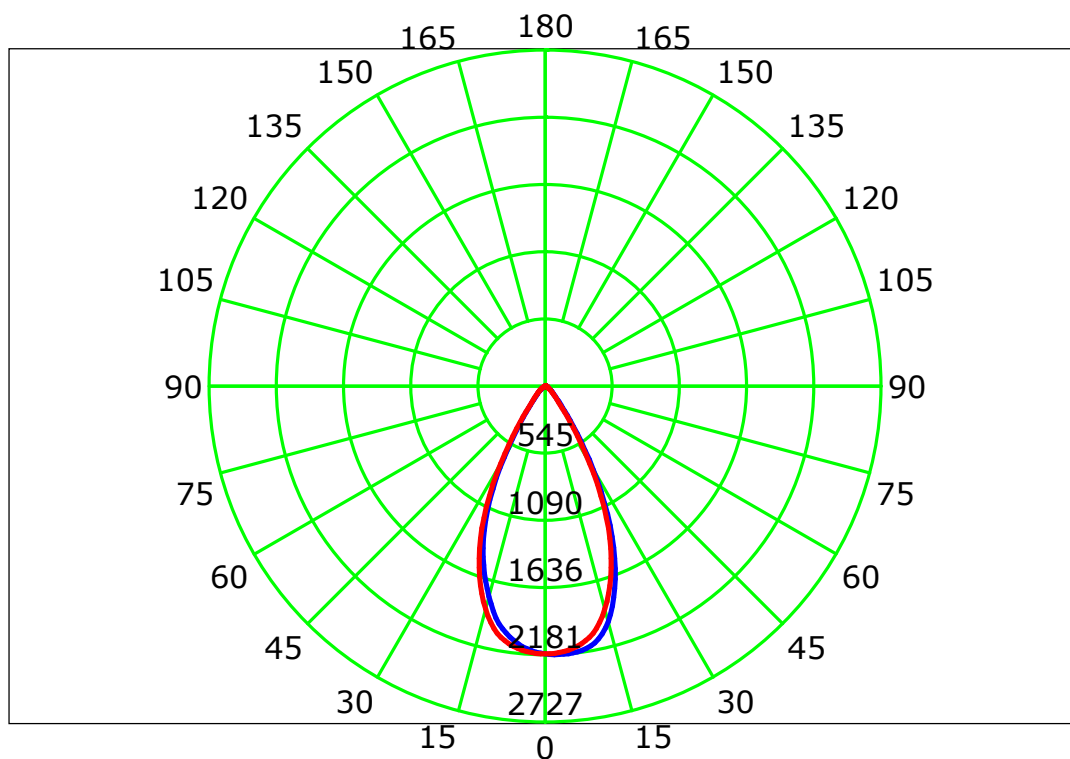
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

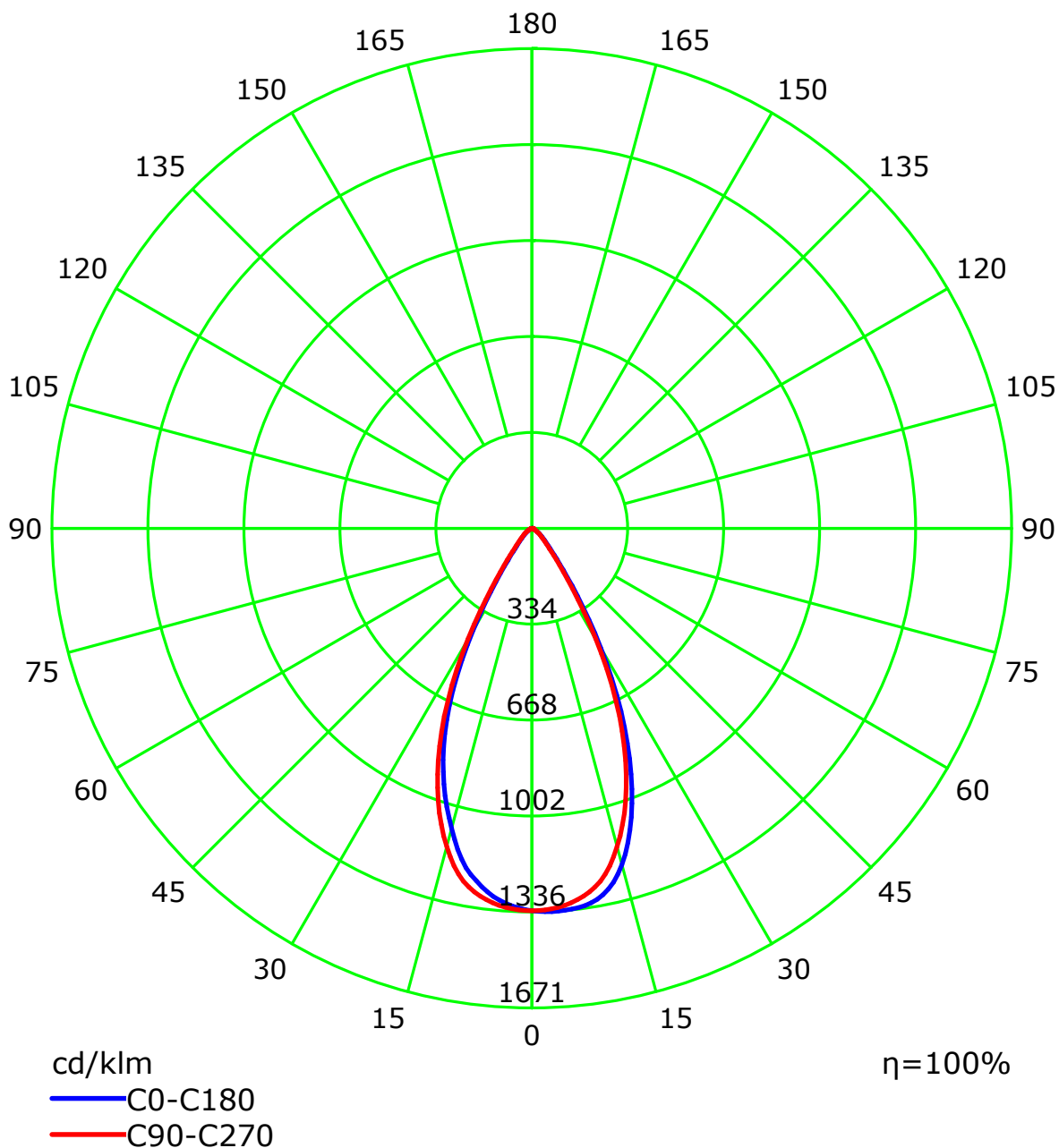
Luminous Intensity Distribution Curve



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:

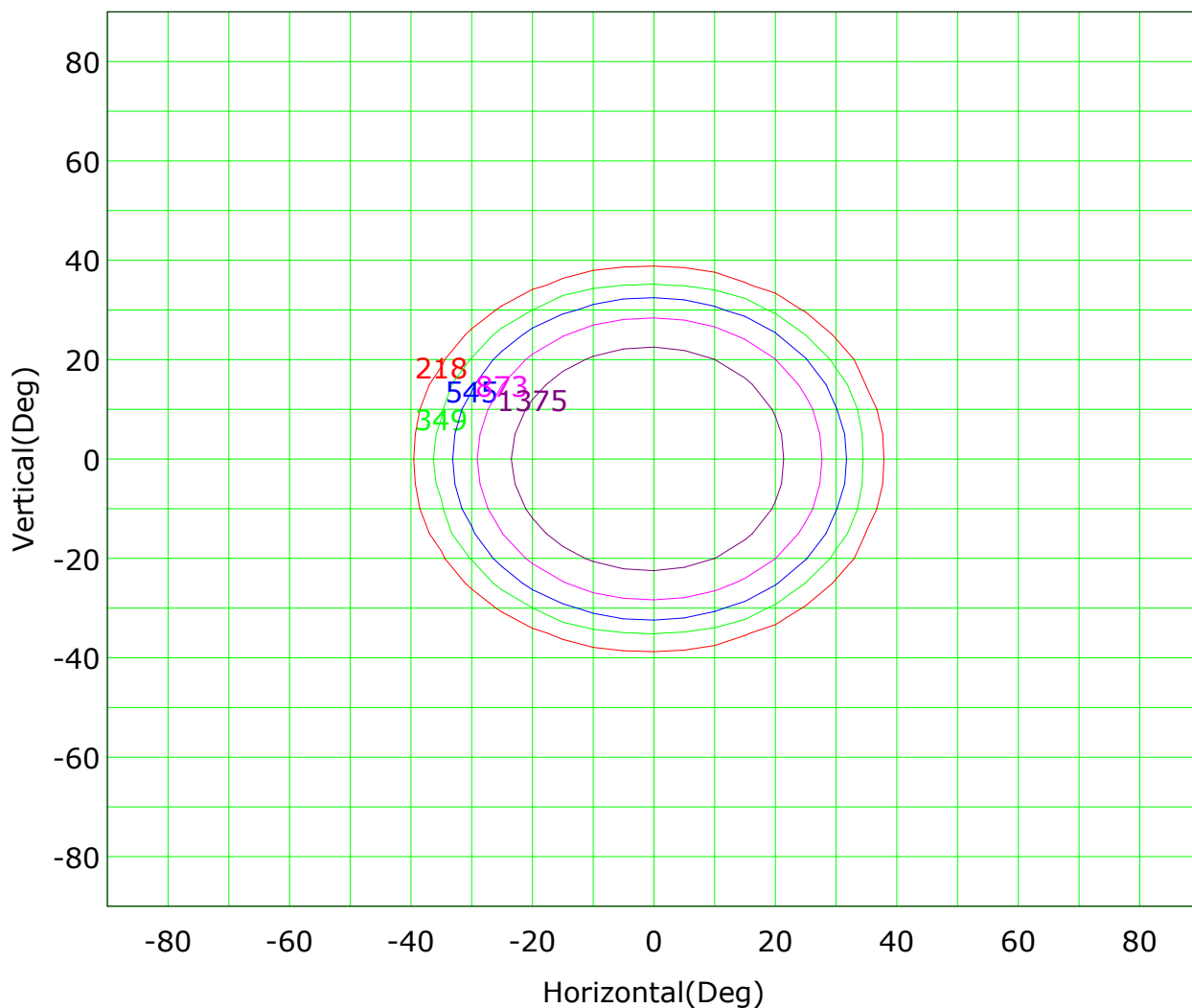
Luminous Intensity Distribution Curve(cd/klm)



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%): 2182 cd

— (10%): 218 cd
— (25%): 545 cd
— (63%): 1375 cd

— (16%): 349 cd
— (40%): 873 cd
— (100%): 2182 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

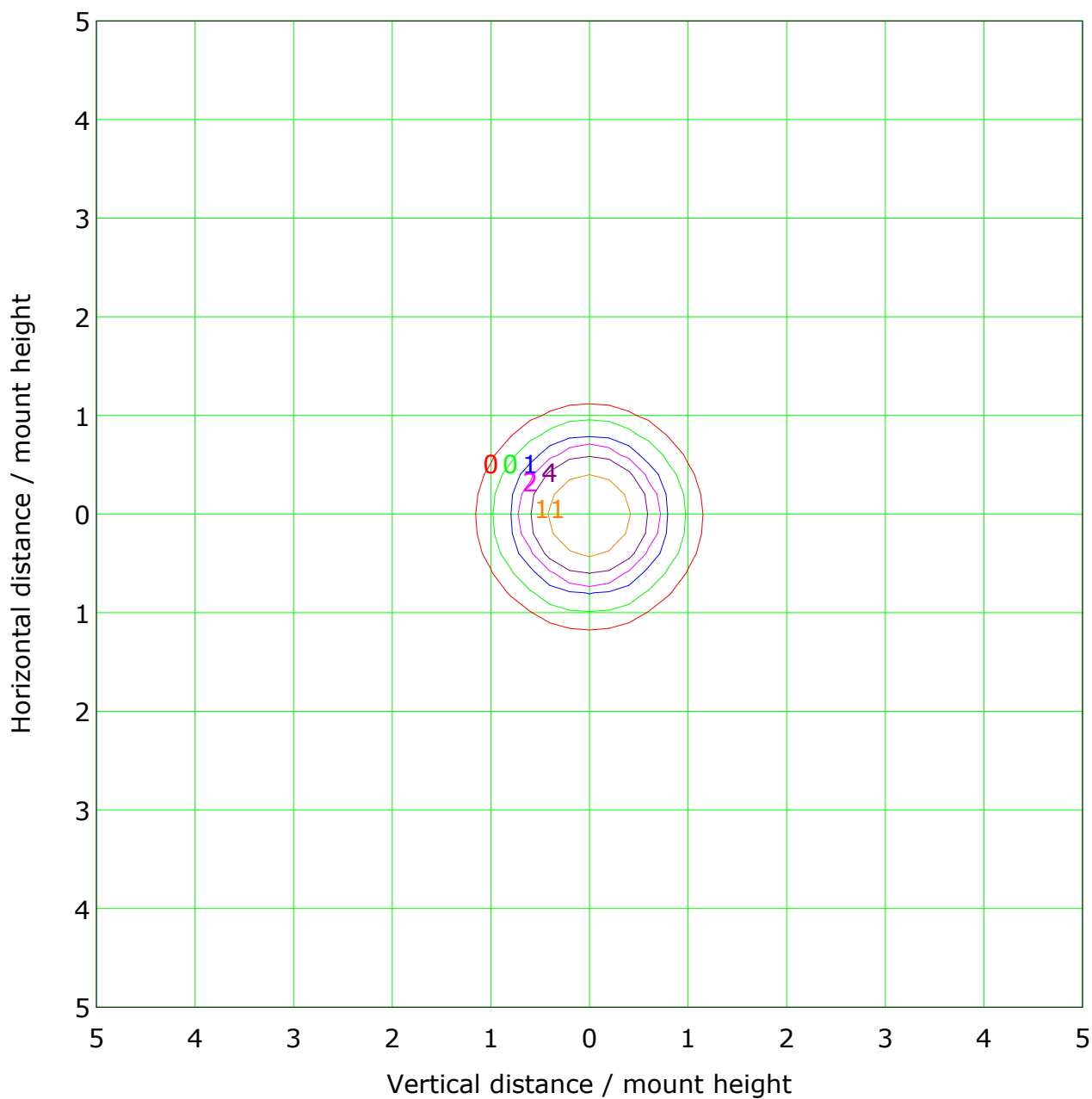
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

IsoLux Plot



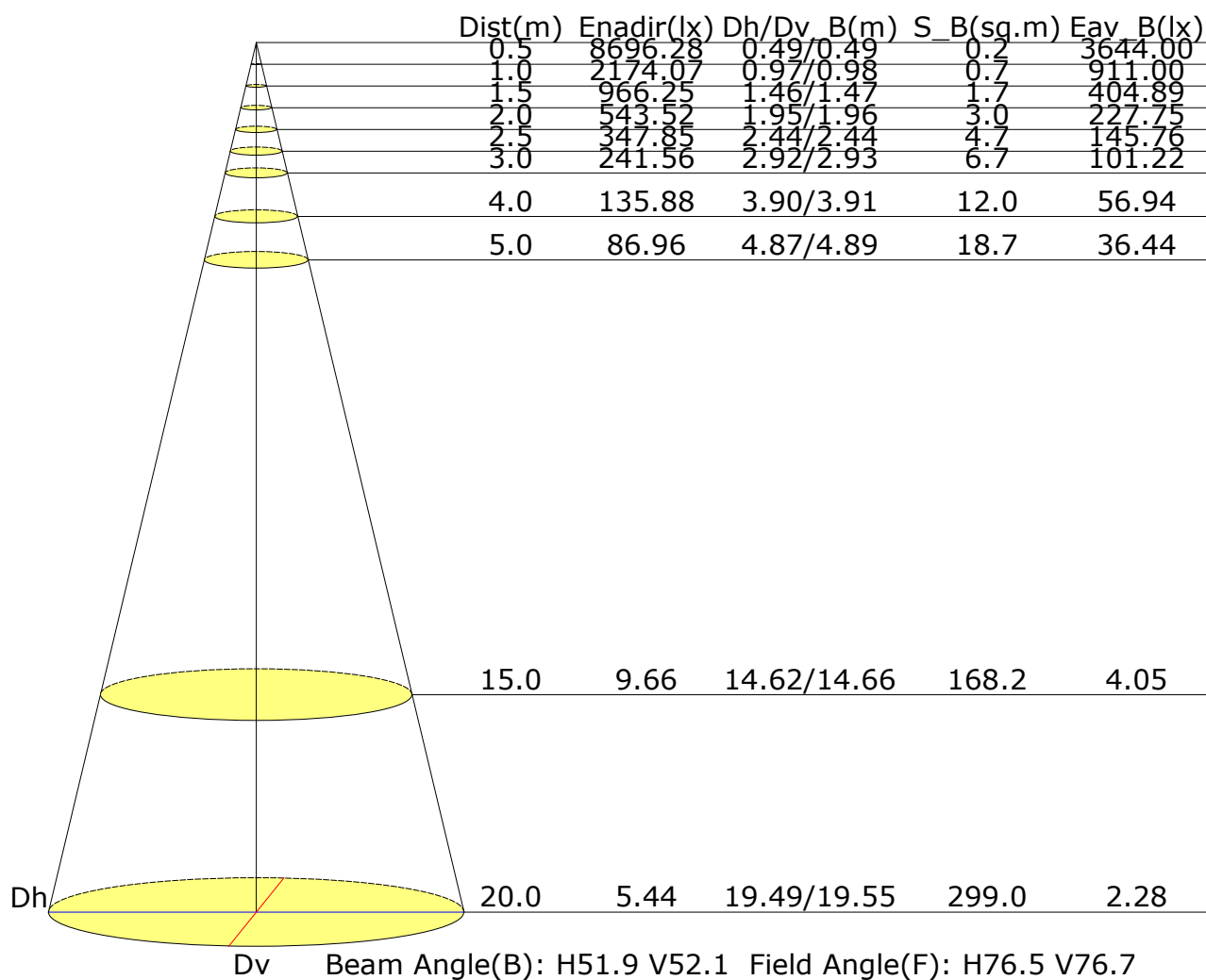
Mounting Height: 10.0m Max Lux(100%): 21.8 lx

(1%): 0.2 lx	(2%): 0.4 lx
(5%): 1.1 lx	(10%): 2.2 lx
(20%): 4.4 lx	(50%): 10.9 lx
(100%): 21.8 lx	

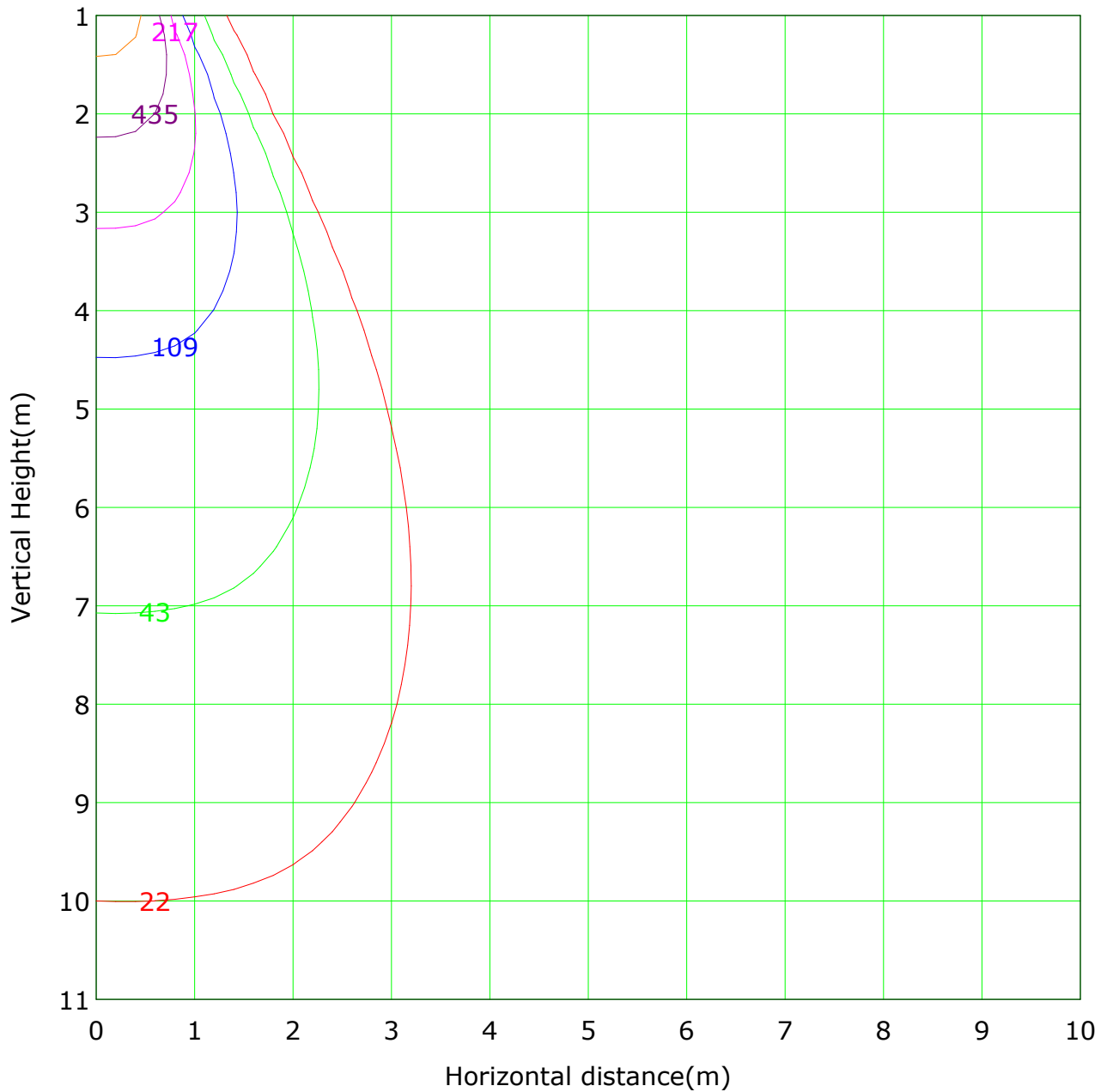
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Illuminance at a Distance



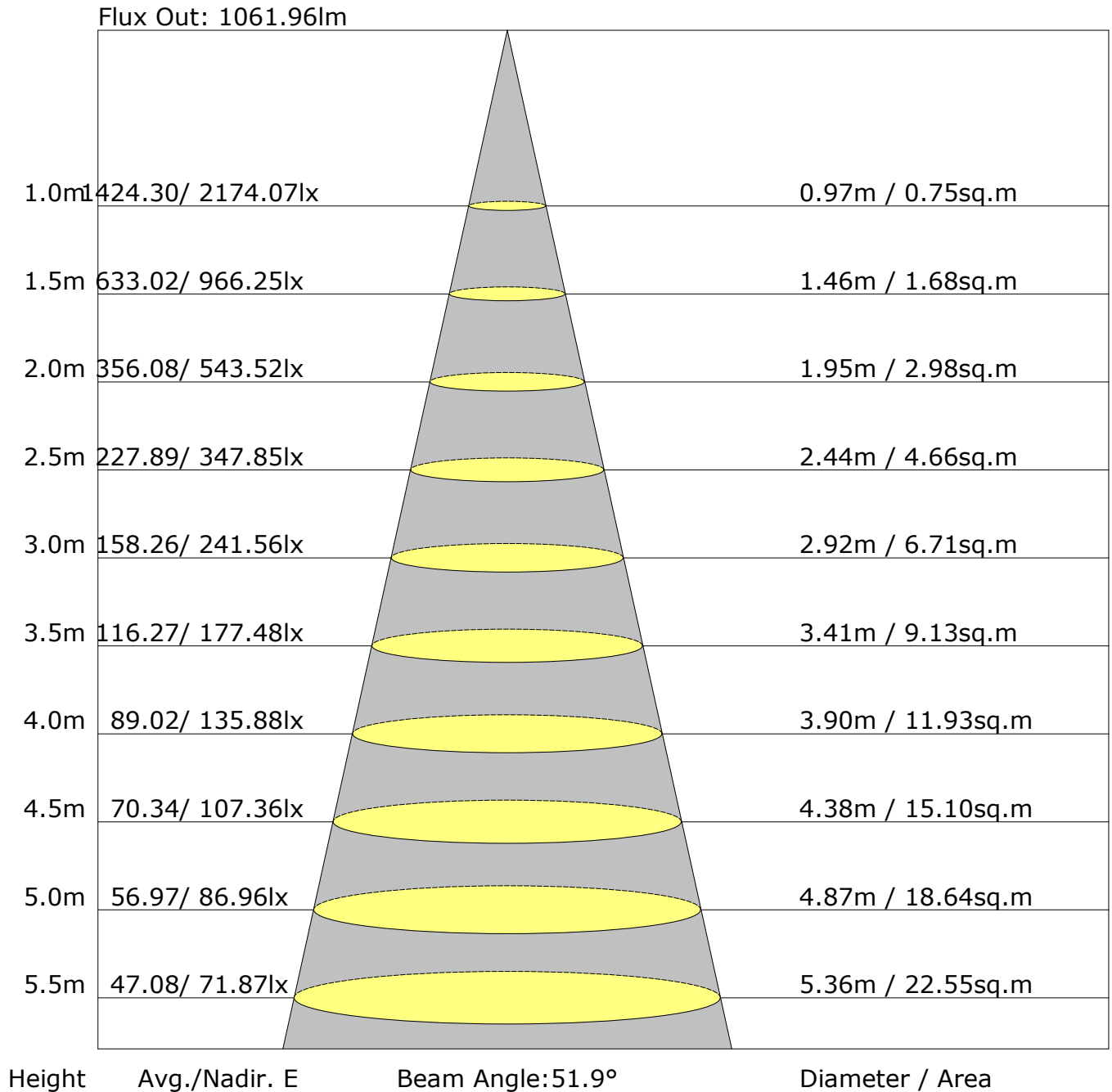
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 2174.1 lx
— (1%): 21.7 lx — (2%): 43.5 lx
— (5%): 108.7 lx — (10%): 217.4 lx
— (20%): 434.8 lx — (50%): 1087.0 lx
— (100%): 2174.1 lx

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 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: 2.905 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	22.3	23.1	22.5	23.3	23.5	21.8	22.7	22.1	22.9	23.1
3H	22.3	23.0	22.6	23.3	23.5	21.8	22.6	22.1	22.8	23.1
4H	22.3	23.0	22.6	23.2	23.5	21.8	22.5	22.1	22.8	23.0
6H	22.2	22.9	22.6	23.2	23.5	21.8	22.4	22.1	22.7	23.0
8H	22.2	22.9	22.6	23.2	23.5	21.8	22.4	22.1	22.7	23.0
12H	22.2	22.8	22.6	23.1	23.4	21.7	22.3	22.1	22.7	23.0
X=4H Y=2H	22.2	22.9	22.5	23.1	23.4	21.7	22.5	22.1	22.7	23.0
3H	22.2	22.8	22.6	23.1	23.5	21.8	22.4	22.1	22.7	23.0
4H	22.2	22.8	22.6	23.1	23.5	21.8	22.4	22.2	22.7	23.0
6H	22.3	22.7	22.7	23.1	23.5	21.8	22.3	22.2	22.7	23.1
8H	22.3	22.7	22.7	23.1	23.5	21.8	22.3	22.2	22.6	23.1
12H	22.2	22.6	22.7	23.0	23.5	21.8	22.2	22.2	22.6	23.0
X=8H Y=4H	22.2	22.6	22.6	23.0	23.4	21.7	22.2	22.2	22.6	23.0
6H	22.2	22.6	22.7	23.0	23.4	21.8	22.1	22.2	22.6	23.0
8H	22.2	22.5	22.7	23.0	23.5	21.8	22.1	22.3	22.6	23.0
12H	22.2	22.5	22.7	23.0	23.5	21.8	22.1	22.3	22.5	23.0
X=12H Y=4H	22.1	22.5	22.6	22.9	23.4	21.7	22.1	22.2	22.5	22.9
6H	22.2	22.5	22.7	22.9	23.4	21.8	22.1	22.2	22.5	23.0
8H	22.2	22.5	22.7	22.9	23.4	21.8	22.1	22.3	22.5	23.0
Variations with the observer position at spacings:										
S=1.0H	+3.8/-3.3					+3.7/-3.3				
S=1.5H	+6.3/-4.9					+6.2/-5.0				
S=2.0H	+8.2/-6.4					+8.1/-6.3				

Calculate in accordance with CIE Pub.117. The table is revised with 1632lm ($8\log(F/F_0) = 1.7$).

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	843	51.7
	FL (0°-30°)	641	39.3
	FM (30°-60°)	190	11.6
	FH (60°-80°)	12	0.7
	FVH (80°-90°)	1	0.1
	BACK LIGHT	789	48.3
	BL (0°-30°)	609	37.3
	BM (30°-60°)	169	10.3
	BH (60°-80°)	10	0.6
	BVH (80°-90°)	1	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)	B2 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	2173.7	2.1	2.1	0.13	0.13
1.0-2.0	2171.8	6.2	8.3	0.38	0.51
2.0-3.0	2168.1	10.4	18.7	0.64	1.14
3.0-4.0	2162.8	14.5	33.2	0.89	2.03
4.0-5.0	2155.5	18.5	51.7	1.14	3.17
5.0-6.0	2146.1	22.6	74.3	1.38	4.55
6.0-7.0	2134.3	26.5	100.8	1.62	6.17
7.0-8.0	2119.8	30.3	131.1	1.86	8.03
8.0-9.0	2102.1	34.1	165.2	2.09	10.12
9.0-10.0	2081.5	37.7	202.9	2.31	12.43
10.0-11.0	2057.7	41.1	244.0	2.52	14.95
11.0-12.0	2027.6	44.3	288.3	2.72	17.66
12.0-13.0	1990.2	47.2	335.5	2.89	20.56
13.0-14.0	1946.8	49.8	385.4	3.05	23.61
14.0-15.0	1898.5	52.1	437.5	3.19	26.81
15.0-16.0	1846.5	54.1	491.6	3.32	30.12
16.0-17.0	1791.0	55.8	547.4	3.42	33.54
17.0-18.0	1732.1	57.1	604.5	3.50	37.04
18.0-19.0	1669.6	58.1	662.6	3.56	40.60
19.0-20.0	1603.3	58.7	721.3	3.60	44.19
20.0-21.0	1534.1	58.9	780.2	3.61	47.80
21.0-22.0	1461.5	58.7	838.9	3.60	51.40
22.0-23.0	1385.1	58.1	897.1	3.56	54.96
23.0-24.0	1305.2	57.1	954.1	3.50	58.46
24.0-25.0	1222.1	55.6	1009.7	3.41	61.87
25.0-26.0	1135.6	53.6	1063.3	3.28	65.15
26.0-27.0	1046.2	51.2	1114.5	3.14	68.29
27.0-28.0	955.0	48.4	1162.9	2.96	71.25
28.0-29.0	862.6	45.1	1208.0	2.77	74.02
29.0-30.0	771.4	41.7	1249.7	2.55	76.57
30.0-31.0	683.2	38.0	1287.7	2.33	78.90
31.0-32.0	599.1	34.3	1322.0	2.10	81.00
32.0-33.0	521.0	30.7	1352.7	1.88	82.88
33.0-34.0	449.8	27.2	1379.9	1.67	84.55
34.0-35.0	386.5	24.0	1404.0	1.47	86.02
35.0-36.0	331.6	21.1	1425.1	1.29	87.32

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	284.7	18.6	1443.6	1.14	88.45
37.0-38.0	245.3	16.4	1460.0	1.00	89.46
38.0-39.0	212.6	14.5	1474.5	0.89	90.35
39.0-40.0	185.7	13.0	1487.5	0.79	91.14
40.0-41.0	163.5	11.6	1499.1	0.71	91.85
41.0-42.0	145.1	10.5	1509.7	0.65	92.50
42.0-43.0	129.9	9.6	1519.3	0.59	93.09
43.0-44.0	117.1	8.8	1528.1	0.54	93.63
44.0-45.0	106.3	8.2	1536.3	0.50	94.13
45.0-46.0	97.1	7.6	1543.9	0.47	94.60
46.0-47.0	89.1	7.1	1551.0	0.43	95.03
47.0-48.0	82.0	6.6	1557.6	0.41	95.44
48.0-49.0	75.5	6.2	1563.8	0.38	95.82
49.0-50.0	69.5	5.8	1569.6	0.36	96.17
50.0-51.0	63.9	5.4	1575.0	0.33	96.50
51.0-52.0	58.7	5.0	1580.1	0.31	96.81
52.0-53.0	53.7	4.7	1584.7	0.29	97.10
53.0-54.0	48.9	4.3	1589.0	0.26	97.36
54.0-55.0	44.4	4.0	1593.0	0.24	97.61
55.0-56.0	40.3	3.6	1596.6	0.22	97.83
56.0-57.0	36.7	3.4	1600.0	0.21	98.03
57.0-58.0	33.4	3.1	1603.1	0.19	98.22
58.0-59.0	30.3	2.8	1605.9	0.17	98.40
59.0-60.0	27.3	2.6	1608.5	0.16	98.56
60.0-61.0	24.4	2.3	1610.8	0.14	98.70
61.0-62.0	21.7	2.1	1612.9	0.13	98.83
62.0-63.0	19.3	1.9	1614.8	0.12	98.94
63.0-64.0	17.2	1.7	1616.5	0.10	99.04
64.0-65.0	15.3	1.5	1618.0	0.09	99.14
65.0-66.0	13.7	1.4	1619.4	0.08	99.22
66.0-67.0	12.4	1.2	1620.6	0.08	99.30
67.0-68.0	11.2	1.1	1621.8	0.07	99.37
68.0-69.0	10.3	1.1	1622.8	0.06	99.43
69.0-70.0	9.6	1.0	1623.8	0.06	99.49
70.0-71.0	8.8	0.9	1624.7	0.06	99.55
71.0-72.0	8.2	0.9	1625.6	0.05	99.60

C Plane (°):0.0-180.0: 180.0
Test Lab:
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Temperature:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 2.905 m
Humidity:
Inspector:

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	2174.1	2174.1								
G1.0	2177.9	2168.8								
G2.0	2180.6	2160.1								
G3.0	2181.8	2149.9								
G4.0	2181.9	2137.7								
G5.0	2179.9	2122.6								
G6.0	2177.4	2104.4								
G7.0	2172.9	2082.5								
G8.0	2166.1	2057.7								
G9.0	2155.8	2028.9								
G10.0	2141.6	1999.5								
G11.0	2122.6	1966.8								
G12.0	2096.9	1924.2								
G13.0	2064.9	1874.9								
G14.0	2025.8	1821.7								
G15.0	1979.4	1767.1								
G16.0	1927.7	1711.9								
G17.0	1868.2	1656.1								
G18.0	1804.3	1599.7								
G19.0	1736.3	1537.9								
G20.0	1664.3	1474.4								
G21.0	1588.0	1409.5								
G22.0	1507.6	1341.0								
G23.0	1423.2	1268.4								
G24.0	1336.9	1192.2								
G25.0	1248.3	1111.1								
G26.0	1157.0	1026.1								
G27.0	1064.1	937.7								
G28.0	970.8	847.2								
G29.0	875.7	756.7								
G30.0	784.1	668.9								
G31.0	696.3	583.3								
G32.0	612.7	504.3								
G33.0	535.1	432.0								
G34.0	464.6	367.7								
G35.0	401.1	312.7								
G36.0	346.3	266.3								

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	299.0	227.3								
G38.0	258.9	196.2								
G39.0	225.1	170.3								
G40.0	198.2	149.1								
G41.0	175.4	131.5								
G42.0	156.1	117.5								
G43.0	139.9	106.1								
G44.0	126.0	96.4								
G45.0	114.4	88.4								
G46.0	104.5	81.1								
G47.0	95.8	75.0								
G48.0	88.2	69.1								
G49.0	81.3	63.5								
G50.0	75.0	58.3								
G51.0	68.8	53.7								
G52.0	63.2	49.1								
G53.0	57.8	44.8								
G54.0	52.6	40.4								
G55.0	47.7	36.9								
G56.0	43.1	33.6								
G57.0	39.0	31.0								
G58.0	35.5	28.1								
G59.0	32.3	25.2								
G60.0	29.1	22.7								
G61.0	25.9	20.1								
G62.0	22.9	18.0								
G63.0	20.3	15.9								
G64.0	18.0	14.4								
G65.0	16.1	12.7								
G66.0	14.3	11.8								
G67.0	12.7	10.8								
G68.0	11.6	9.8								
G69.0	10.8	9.1								
G70.0	9.9	8.5								
G71.0	9.1	7.8								
G72.0	8.4	7.4								
G73.0	7.8	6.7								

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

[illegible]

Inspector: