

Report No.:

Test Time: 2025-09-16 16:34

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 80D

Luminous Width (mm): -14

Current: 0.132 A

Power Factor: 0.962

Luminous Length (mm): -575

Voltage: 231.8 V

Power: 29.40 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 2133.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H69.3

Vertical Diffuse Angle(50%): V69.3

Luminaire Efficacy Rating (LER): 72.62

Max. Intensity: 1876.34 cd

S/MH(C0/C180): 1.15

Total Rated Lamp Lumens: 2133.5 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1804.32 cd

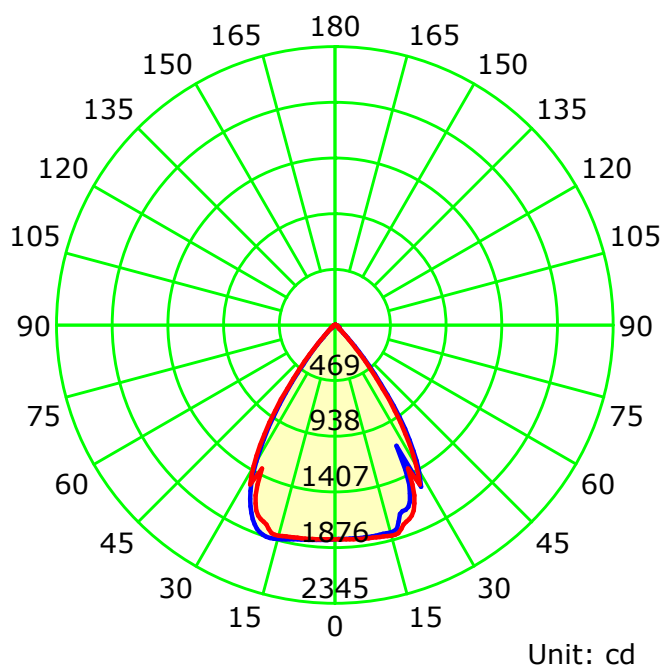
Pos of Max. Intensity: H180 V18

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

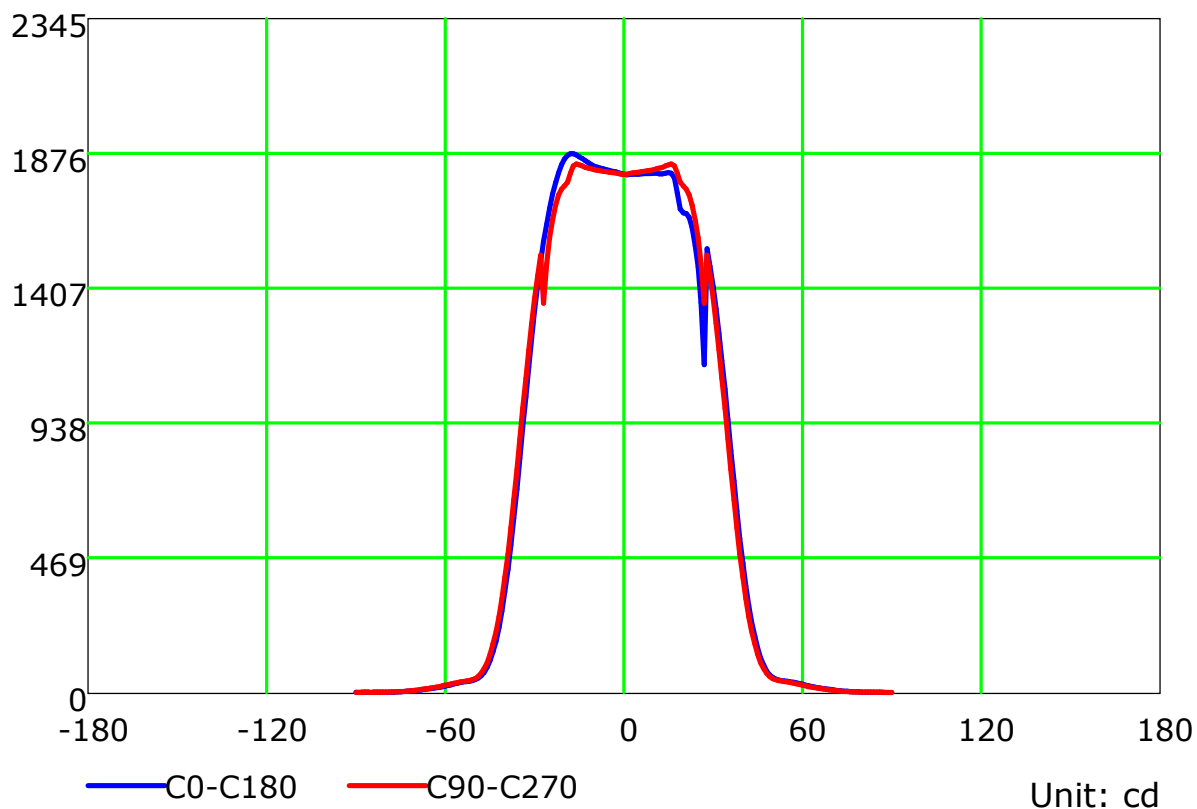
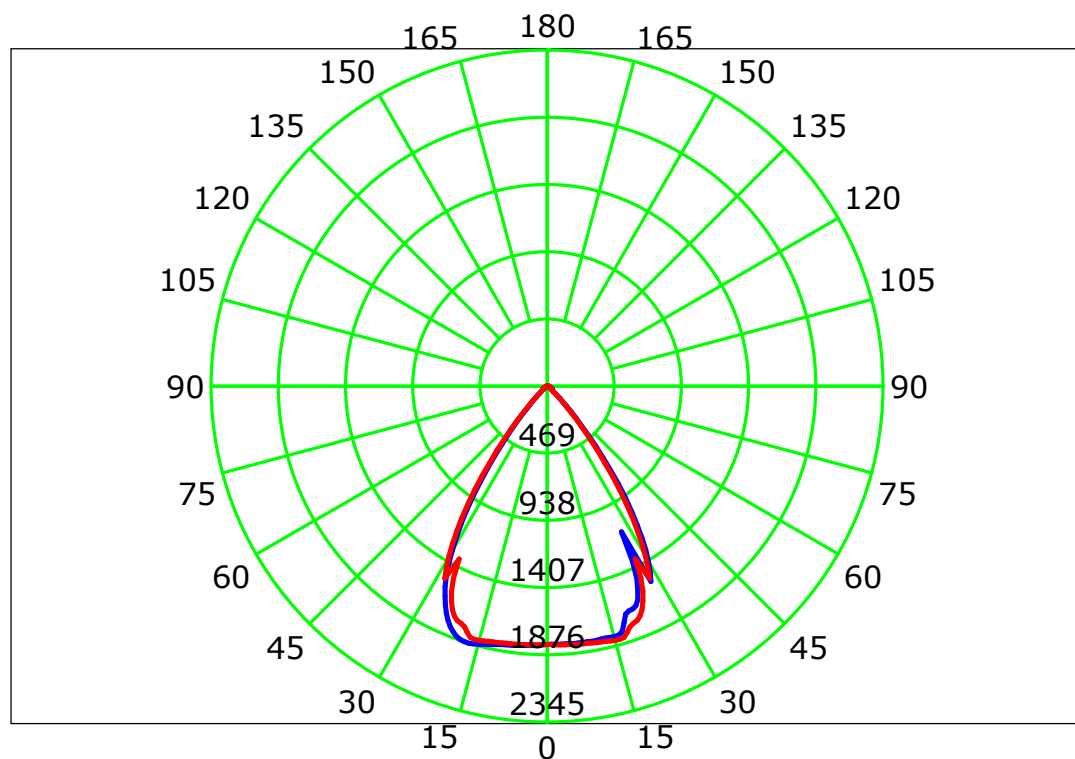
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

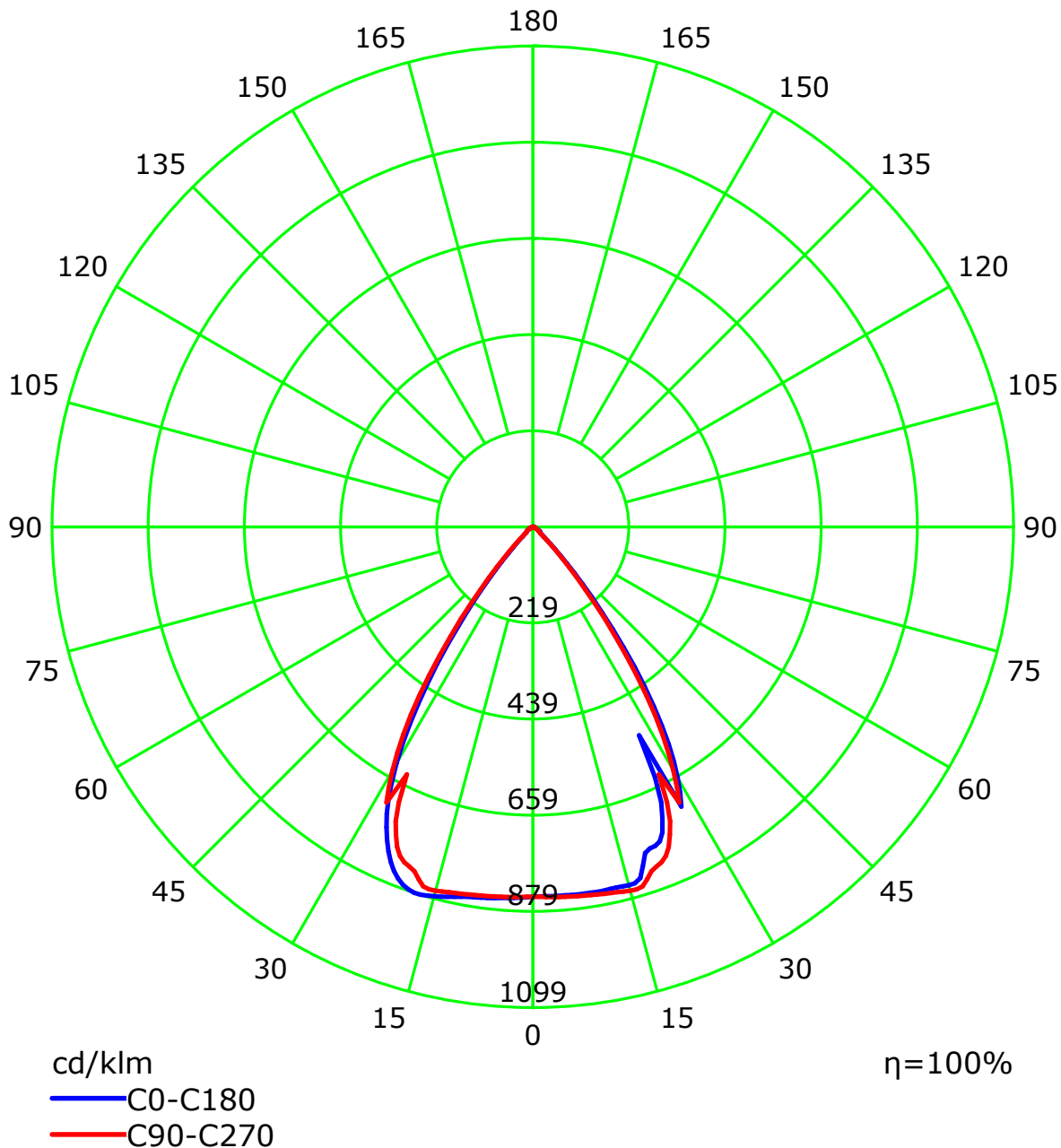
## Luminous Intensity Distribution Curve



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:

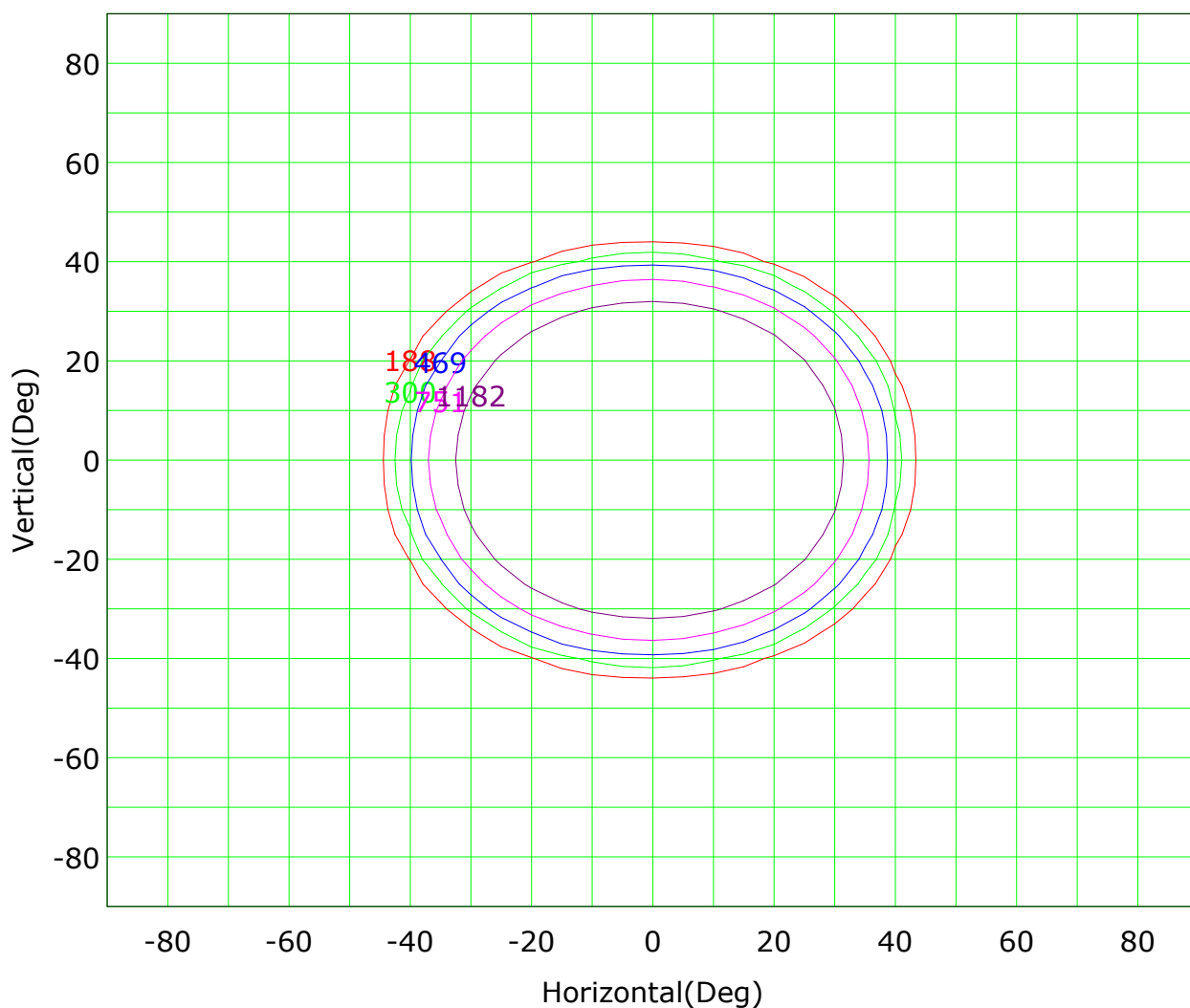
## Luminous Intensity Distribution Curve(cd/klm)



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%): 1876 cd

( 10%): 188 cd	( 16%): 300 cd
( 25%): 469 cd	( 40%): 751 cd
( 63%): 1182 cd	(100%): 1876 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

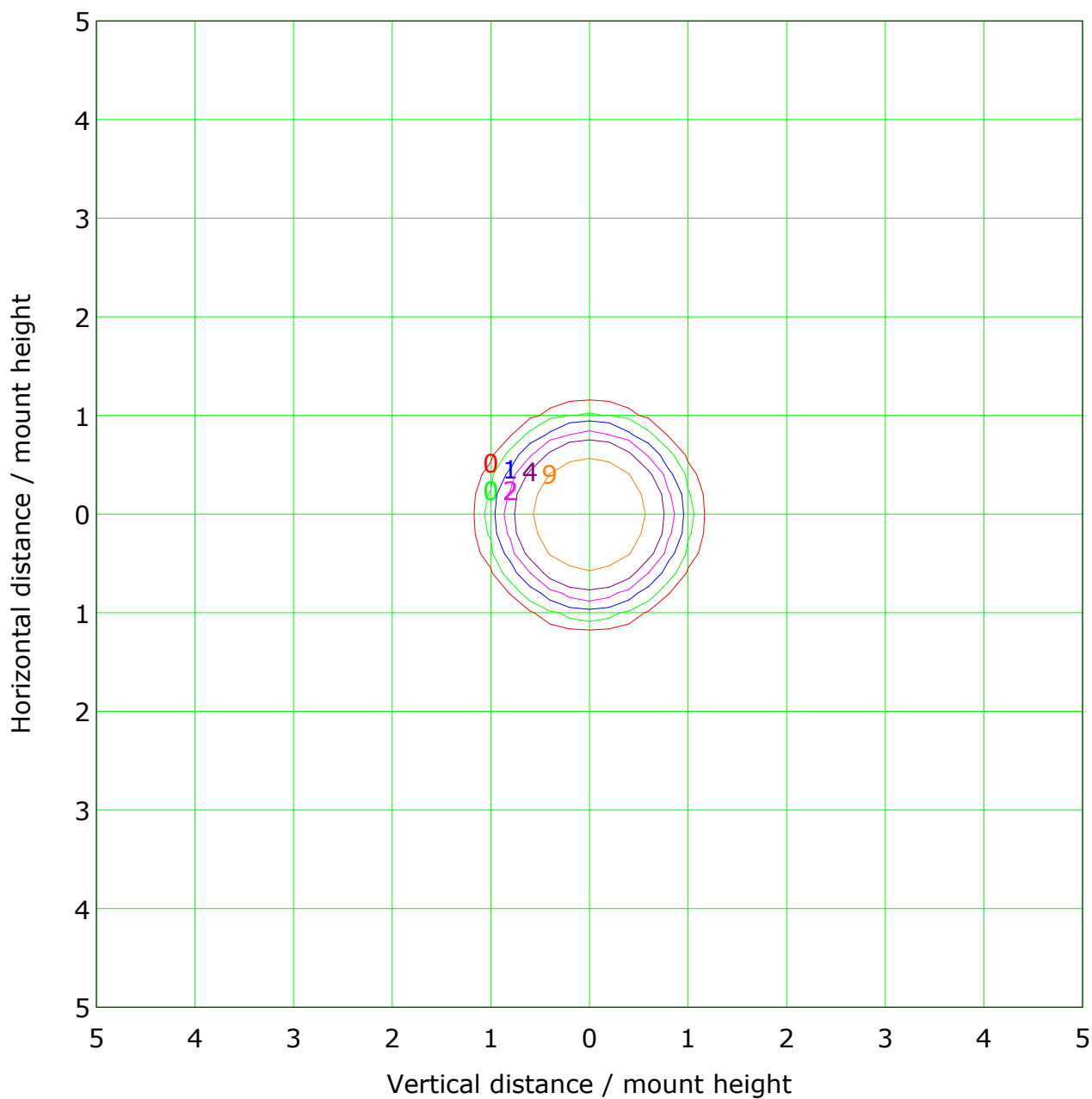
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## IsoLux Plot



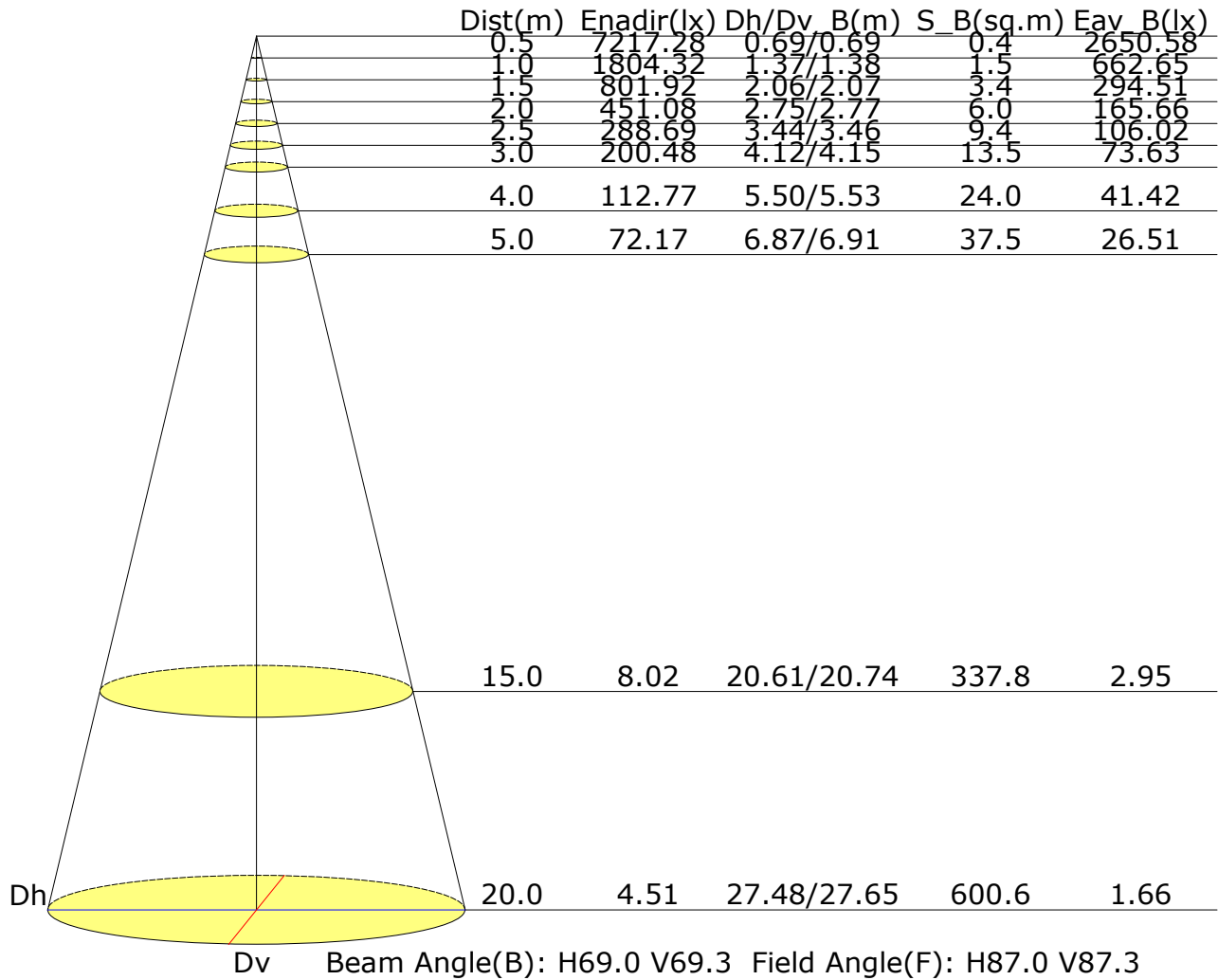
Mounting Height: 10.0m    Max Lux(100%): 18.1 lx

( 1%): 0.2 lx	( 2%): 0.4 lx
( 5%): 0.9 lx	( 10%): 1.8 lx
( 20%): 3.6 lx	( 50%): 9.0 lx
(100%): 18.1 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:

## 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

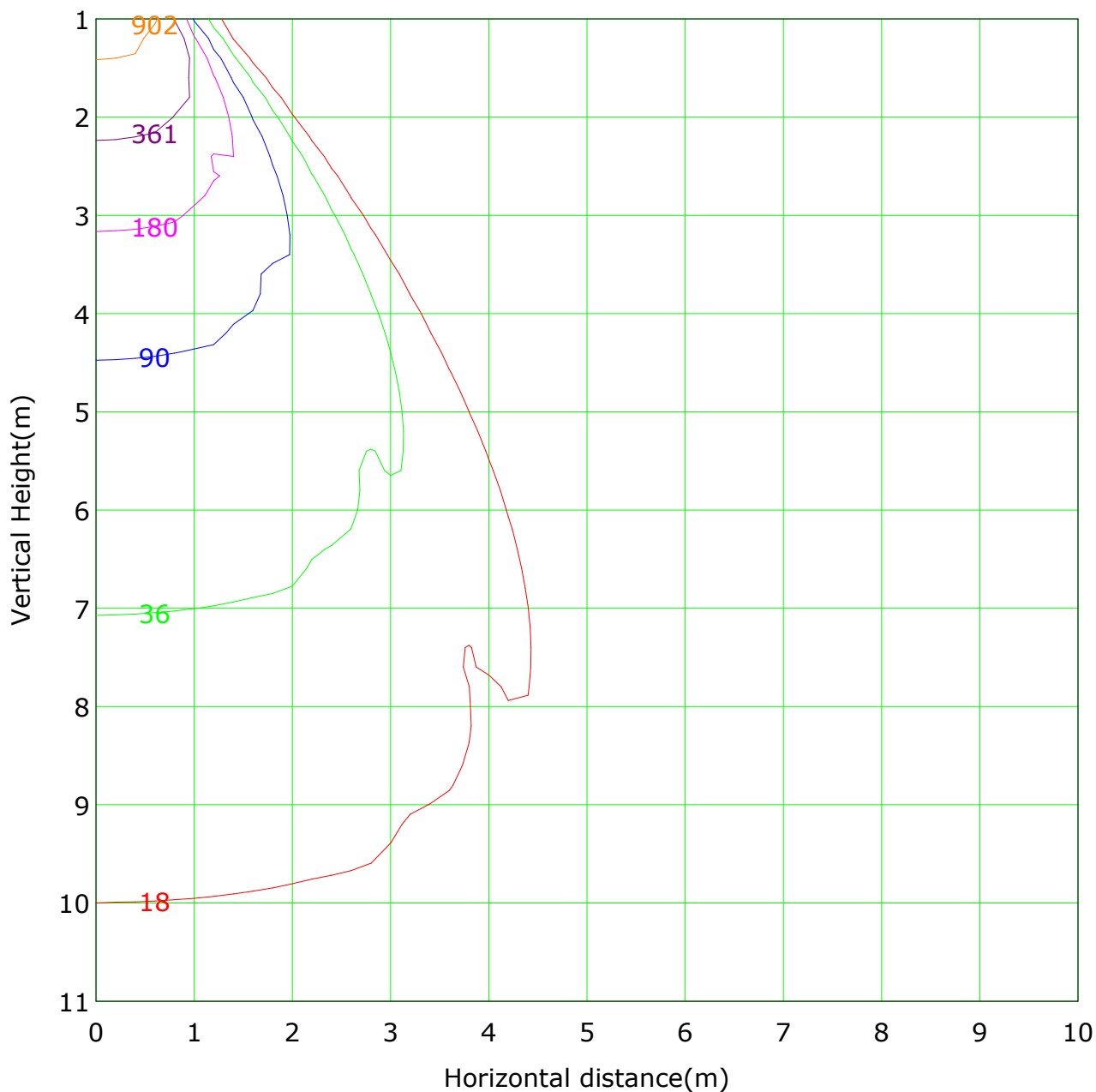
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 1804.3 lx

( 1%): 18.0 lx	( 2%): 36.1 lx
( 5%): 90.2 lx	( 10%): 180.4 lx
( 20%): 360.9 lx	( 50%): 902.2 lx
(100%):1804.3 lx	

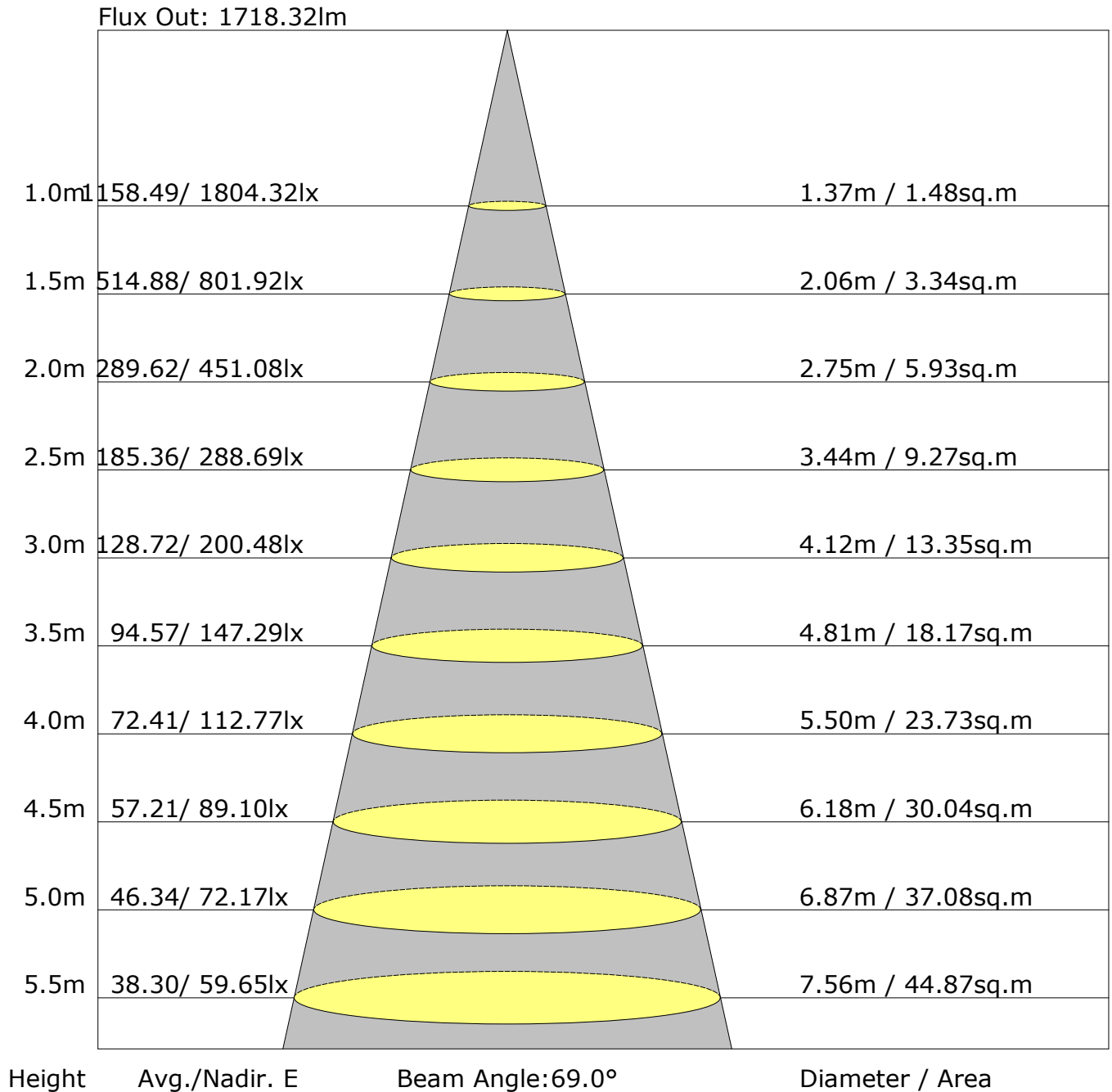
C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

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

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	22.2	23.2	22.5	23.4	23.6	22.0	22.9	22.2	23.1	23.3
3H	22.1	23.0	22.4	23.2	23.5	21.8	22.7	22.1	22.9	23.2
4H	22.1	22.8	22.4	23.1	23.4	21.8	22.5	22.1	22.8	23.1
6H	22.0	22.7	22.3	23.0	23.3	21.7	22.4	22.0	22.7	23.0
8H	22.0	22.7	22.3	23.0	23.3	21.7	22.4	22.0	22.7	23.0
12H	21.9	22.6	22.3	22.9	23.2	21.6	22.3	22.0	22.6	22.9
X=4H Y=2H	22.1	22.8	22.4	23.1	23.4	21.8	22.5	22.1	22.8	23.1
3H	22.0	22.6	22.3	22.9	23.3	21.7	22.3	22.0	22.6	23.0
4H	21.9	22.5	22.3	22.8	23.2	21.6	22.2	22.0	22.5	22.9
6H	21.8	22.3	22.2	22.7	23.1	21.5	22.0	21.9	22.4	22.8
8H	21.8	22.3	22.2	22.6	23.1	21.5	22.0	21.9	22.3	22.8
12H	21.8	22.2	22.2	22.6	23.0	21.5	21.9	21.9	22.3	22.7
X=8H Y=4H	21.8	22.3	22.2	22.6	23.1	21.5	22.0	21.9	22.3	22.8
6H	21.7	22.1	22.2	22.5	23.0	21.4	21.8	21.9	22.2	22.7
8H	21.7	22.0	22.2	22.5	22.9	21.4	21.7	21.9	22.2	22.6
12H	21.6	21.9	22.1	22.4	22.9	21.3	21.6	21.8	22.1	22.6
X=12H Y=4H	21.7	22.2	22.2	22.6	23.0	21.5	21.9	21.9	22.3	22.7
6H	21.7	22.0	22.1	22.4	22.9	21.4	21.7	21.9	22.1	22.6
8H	21.6	21.9	22.1	22.4	22.9	21.3	21.6	21.8	22.1	22.6
Variations with the observer position at spacings:										
S=1.0H	+4.8/-8.4					+4.8/-8.4				
S=1.5H	+7.5/-9.5					+7.6/-9.7				
S=2.0H	+9.5/-11.0					+9.5/-11.2				

Calculate in accordance with CIE Pub.117. The table is revised with  $2134\text{Im}$  ( $8\log(F/F_0) = 2.6$ ).

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	1070	50.2
	FL ( 0°-30°)	695	32.6
	FM (30°-60°)	363	17.0
	FH (60°-80°)	11	0.5
	FVH (80°-90°)	1	0.0
	BACK LIGHT	1063	49.8
	BL ( 0°-30°)	719	33.7
	BM (30°-60°)	335	15.7
	BH (60°-80°)	10	0.4
	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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1804.5	1.7	1.7	0.08	0.08
1.0-2.0	1805.6	5.2	6.9	0.24	0.32
2.0-3.0	1807.5	8.6	15.6	0.41	0.73
3.0-4.0	1809.0	12.1	27.7	0.57	1.30
4.0-5.0	1810.2	15.6	43.2	0.73	2.03
5.0-6.0	1812.0	19.0	62.3	0.89	2.92
6.0-7.0	1813.9	22.5	84.8	1.06	3.97
7.0-8.0	1815.5	26.0	110.8	1.22	5.19
8.0-9.0	1817.2	29.5	140.2	1.38	6.57
9.0-10.0	1819.1	32.9	173.2	1.54	8.12
10.0-11.0	1821.5	36.4	209.6	1.71	9.82
11.0-12.0	1824.3	39.9	249.5	1.87	11.69
12.0-13.0	1826.9	43.4	292.8	2.03	13.72
13.0-14.0	1830.8	46.9	339.7	2.20	15.92
14.0-15.0	1835.4	50.4	390.1	2.36	18.28
15.0-16.0	1838.5	53.9	444.0	2.53	20.81
16.0-17.0	1836.7	57.2	501.2	2.68	23.49
17.0-18.0	1820.7	60.0	561.2	2.81	26.30
18.0-19.0	1792.3	62.4	623.6	2.92	29.23
19.0-20.0	1770.1	64.8	688.4	3.04	32.26
20.0-21.0	1757.6	67.5	755.9	3.16	35.43
21.0-22.0	1741.8	70.0	825.9	3.28	38.71
22.0-23.0	1714.6	72.0	897.8	3.37	42.08
23.0-24.0	1670.8	73.1	970.9	3.42	45.51
24.0-25.0	1614.1	73.4	1044.3	3.44	48.95
25.0-26.0	1539.0	72.7	1116.9	3.41	52.35
26.0-27.0	1425.0	69.7	1186.7	3.27	55.62
27.0-28.0	1439.4	72.9	1259.5	3.42	59.04
28.0-29.0	1487.5	77.8	1337.4	3.65	62.68
29.0-30.0	1412.1	76.3	1413.6	3.57	66.26
30.0-31.0	1328.8	74.0	1487.6	3.47	69.72
31.0-32.0	1238.9	71.0	1558.6	3.33	73.05
32.0-33.0	1142.8	67.3	1625.9	3.16	76.21
33.0-34.0	1041.7	63.0	1689.0	2.96	79.16
34.0-35.0	936.8	58.2	1747.1	2.73	81.89
35.0-36.0	829.8	52.8	1800.0	2.48	84.37

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	724.0	47.2	1847.2	2.21	86.58
37.0-38.0	622.6	41.6	1888.8	1.95	88.53
38.0-39.0	527.8	36.0	1924.8	1.69	90.22
39.0-40.0	441.4	30.8	1955.6	1.44	91.66
40.0-41.0	363.9	25.9	1981.5	1.21	92.87
41.0-42.0	296.2	21.5	2003.0	1.01	93.88
42.0-43.0	239.0	17.7	2020.7	0.83	94.71
43.0-44.0	191.2	14.4	2035.2	0.68	95.39
44.0-45.0	151.2	11.6	2046.8	0.54	95.93
45.0-46.0	118.7	9.3	2056.1	0.44	96.37
46.0-47.0	93.6	7.4	2063.5	0.35	96.72
47.0-48.0	74.8	6.0	2069.6	0.28	97.00
48.0-49.0	61.5	5.1	2074.6	0.24	97.24
49.0-50.0	52.5	4.4	2079.0	0.21	97.44
50.0-51.0	46.8	4.0	2083.0	0.19	97.63
51.0-52.0	43.4	3.7	2086.7	0.17	97.80
52.0-53.0	41.1	3.6	2090.3	0.17	97.97
53.0-54.0	39.3	3.5	2093.7	0.16	98.13
54.0-55.0	37.7	3.4	2097.1	0.16	98.29
55.0-56.0	36.1	3.3	2100.4	0.15	98.44
56.0-57.0	34.3	3.1	2103.5	0.15	98.59
57.0-58.0	32.2	3.0	2106.5	0.14	98.73
58.0-59.0	29.8	2.8	2109.2	0.13	98.86
59.0-60.0	27.2	2.6	2111.8	0.12	98.98
60.0-61.0	24.8	2.4	2114.2	0.11	99.09
61.0-62.0	22.3	2.2	2116.3	0.10	99.19
62.0-63.0	20.1	2.0	2118.3	0.09	99.29
63.0-64.0	18.3	1.8	2120.1	0.08	99.37
64.0-65.0	16.6	1.6	2121.7	0.08	99.45
65.0-66.0	15.0	1.5	2123.2	0.07	99.52
66.0-67.0	13.5	1.4	2124.6	0.06	99.58
67.0-68.0	12.0	1.2	2125.8	0.06	99.64
68.0-69.0	10.6	1.1	2126.9	0.05	99.69
69.0-70.0	9.3	1.0	2127.8	0.04	99.73
70.0-71.0	8.0	0.8	2128.7	0.04	99.77
71.0-72.0	6.8	0.7	2129.4	0.03	99.80

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:

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	1804.3	1804.3								
G1.0	1802.5	1806.8								
G2.0	1802.9	1810.1								
G3.0	1804.0	1813.0								
G4.0	1804.3	1814.8								
G5.0	1804.5	1817.3								
G6.0	1805.8	1820.5								
G7.0	1806.4	1822.9								
G8.0	1807.0	1825.6								
G9.0	1807.0	1829.3								
G10.0	1808.1	1831.9								
G11.0	1807.7	1838.4								
G12.0	1806.1	1845.0								
G13.0	1805.3	1851.0								
G14.0	1808.1	1858.9								
G15.0	1809.5	1865.2								
G16.0	1808.1	1871.3								
G17.0	1791.6	1875.8								
G18.0	1739.0	1876.3								
G19.0	1683.3	1870.3								
G20.0	1669.5	1857.0								
G21.0	1667.0	1836.8								
G22.0	1654.3	1809.3								
G23.0	1619.0	1775.7								
G24.0	1554.6	1734.0								
G25.0	1482.8	1684.9								
G26.0	1357.9	1630.3								
G27.0	1141.9	1570.1								
G28.0	1544.8	1500.7								
G29.0	1483.6	1420.7								
G30.0	1413.6	1330.7								
G31.0	1336.3	1234.7								
G32.0	1250.2	1134.4								
G33.0	1156.0	1030.4								
G34.0	1056.4	924.0								
G35.0	951.1	815.6								
G36.0	844.0	708.3								

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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	736.7	606.8								
G38.0	633.7	513.2								
G39.0	536.2	428.2								
G40.0	449.3	351.7								
G41.0	370.9	283.6								
G42.0	303.9	226.3								
G43.0	245.7	180.0								
G44.0	196.6	142.5								
G45.0	154.0	111.6								
G46.0	121.3	88.1								
G47.0	95.1	70.1								
G48.0	75.7	58.3								
G49.0	61.8	50.3								
G50.0	52.9	45.0								
G51.0	47.7	41.8								
G52.0	44.5	39.7								
G53.0	42.1	38.2								
G54.0	40.3	36.8								
G55.0	39.0	34.8								
G56.0	37.8	32.7								
G57.0	36.2	30.4								
G58.0	34.4	27.8								
G59.0	32.0	24.9								
G60.0	29.2	22.7								
G61.0	26.4	20.7								
G62.0	23.5	18.7								
G63.0	21.3	17.1								
G64.0	19.6	15.4								
G65.0	17.6	14.0								
G66.0	15.8	12.6								
G67.0	14.3	11.2								
G68.0	12.4	9.9								
G69.0	11.2	8.7								
G70.0	10.1	7.4								
G71.0	8.4	6.2								
G72.0	7.4	5.3								
G73.0	6.3	4.5								

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Distance: 2.905 m  
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Inspector:



Unit: cd

Inspector: