

Report No.:

Test Time: 2025-08-07 18:38

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 52.04526 50D

Luminous Width (mm): -42

Current: 0.026 A

Power Factor: 0.550

Luminous Length (mm): -42

Voltage: 228.6 V

Power: 3.30 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 277.2 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H45.5

Vertical Diffuse Angle(50%): V45.5

Luminaire Efficacy Rating (LER): 84.06

Max. Intensity: 428.52 cd

S/MH(C0/C180): 0.72

Total Rated Lamp Lumens: 277.2 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 424.34 cd

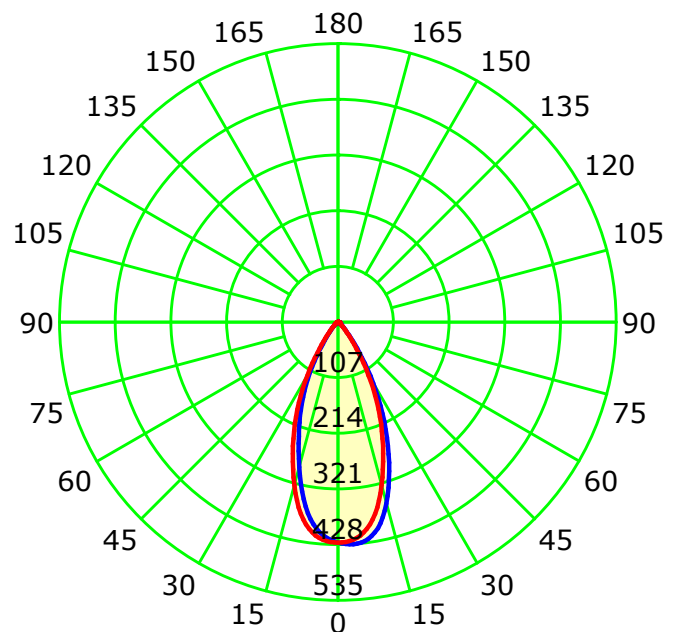
Pos of Max. Intensity: H0 V4

S/MH(C90/C270): 0.72

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

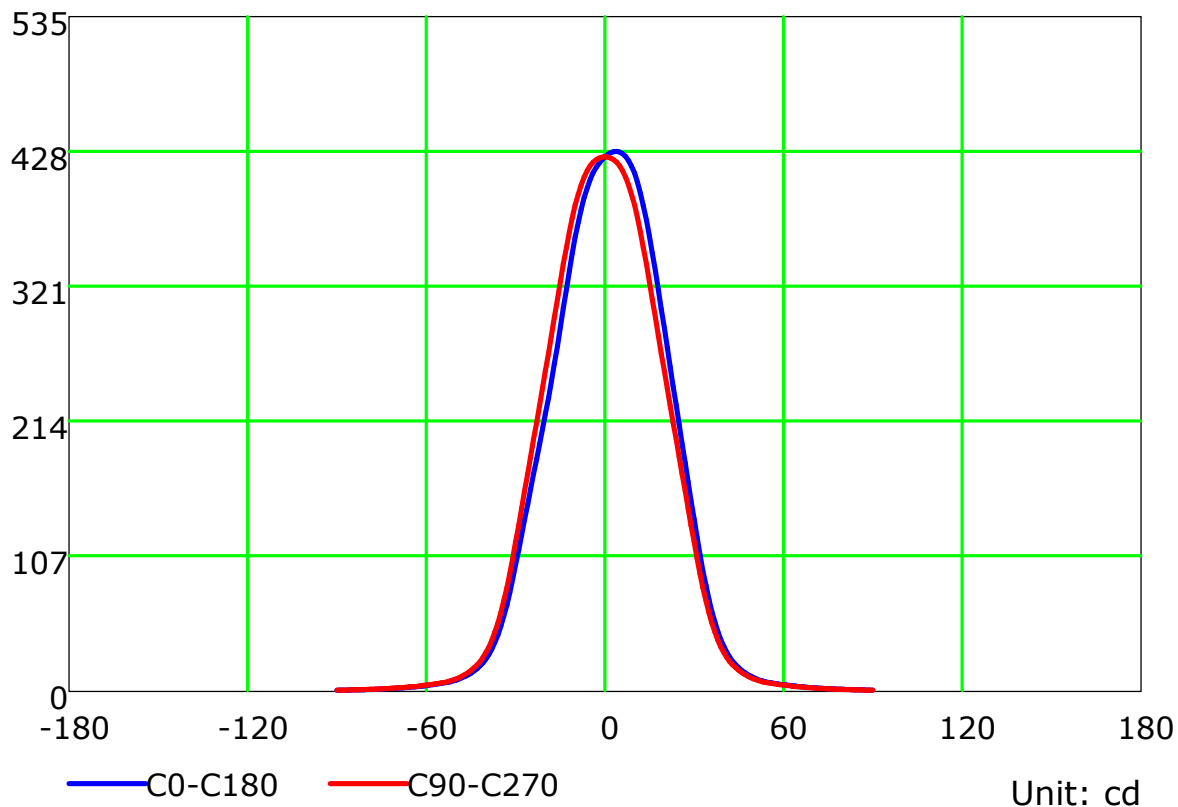
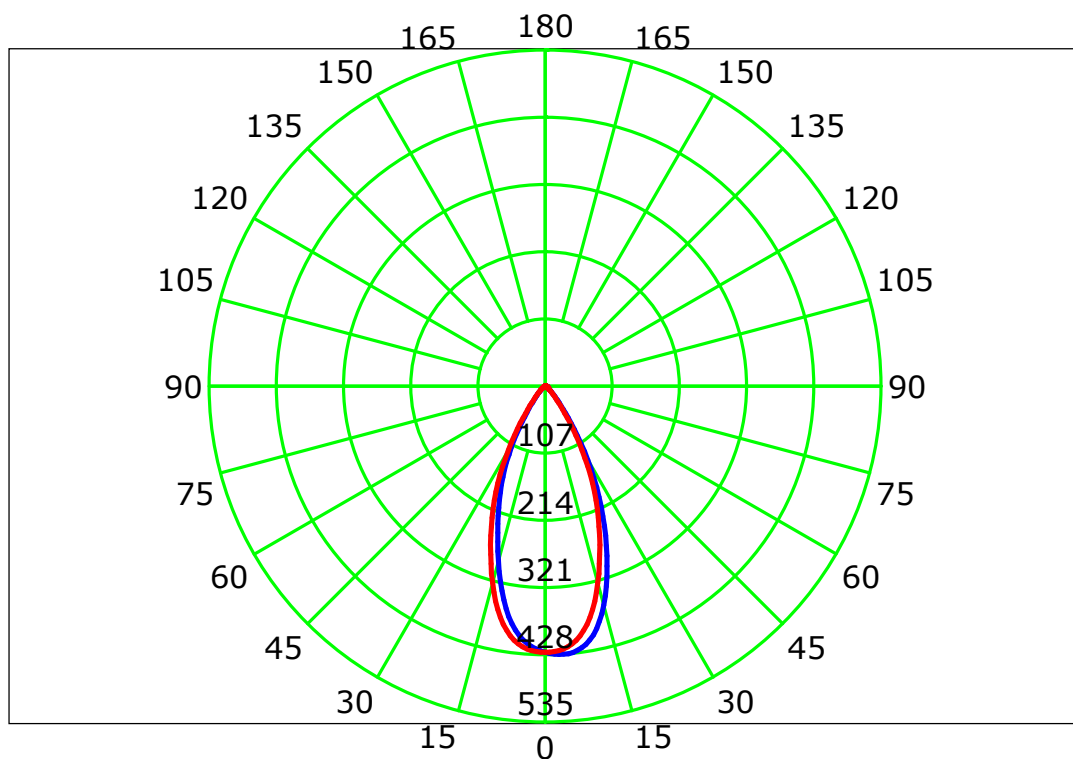
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

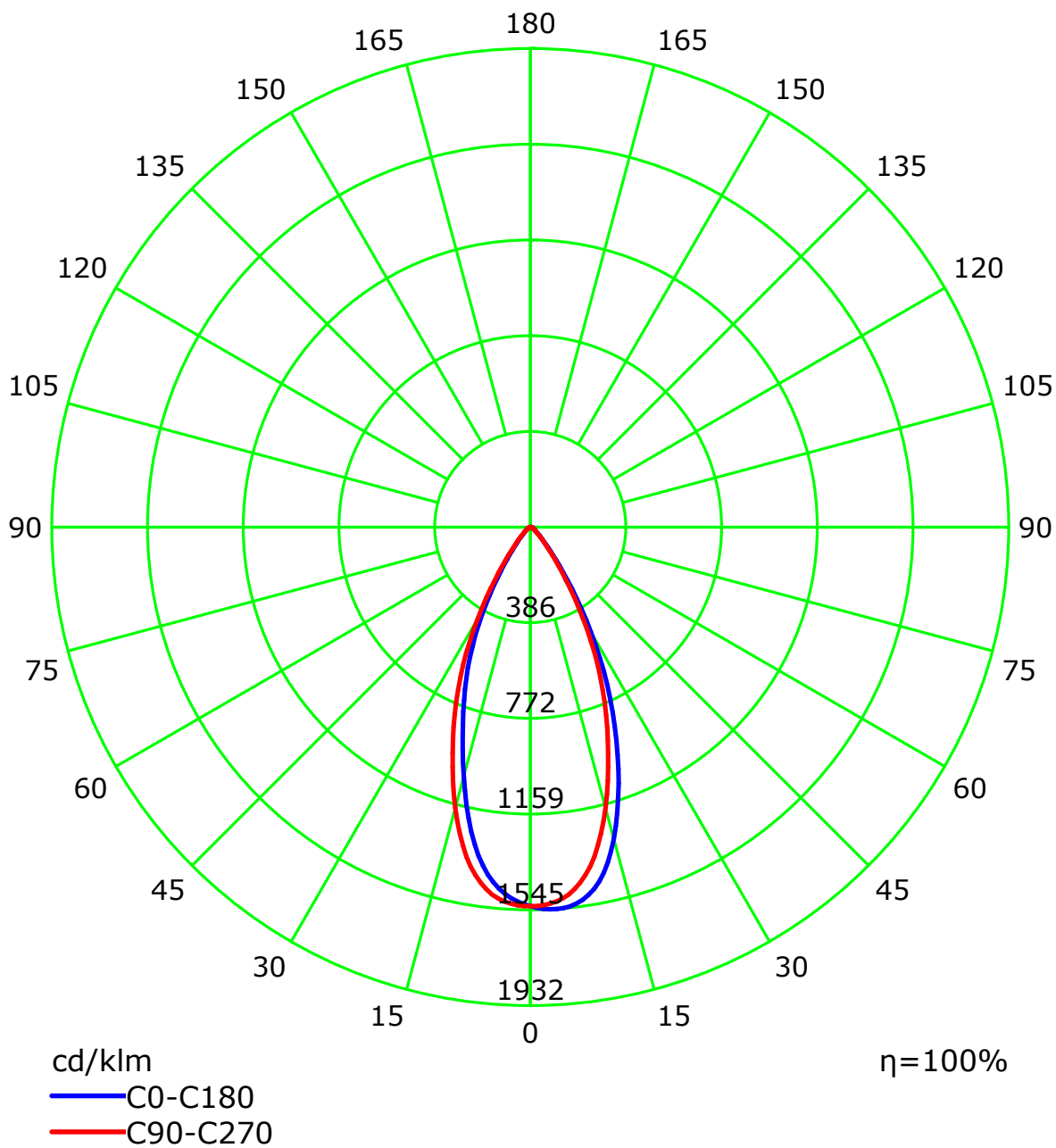
## Luminous Intensity Distribution Curve



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:

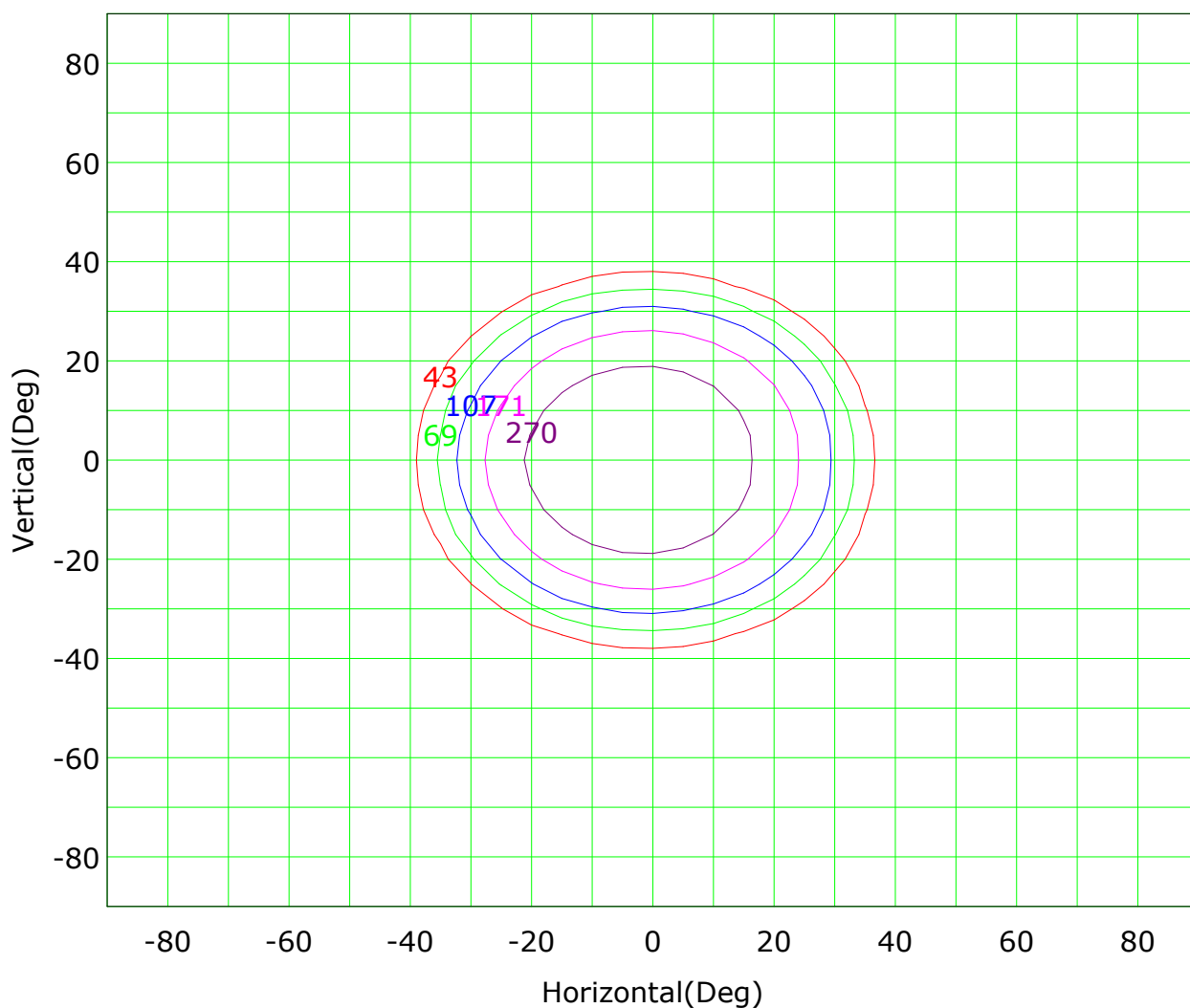
## Luminous Intensity Distribution Curve(cd/klm)



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%): 429 cd

( 10%):	43 cd	( 16%):	69 cd
( 25%):	107 cd	( 40%):	171 cd
( 63%):	270 cd	(100%):	429 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

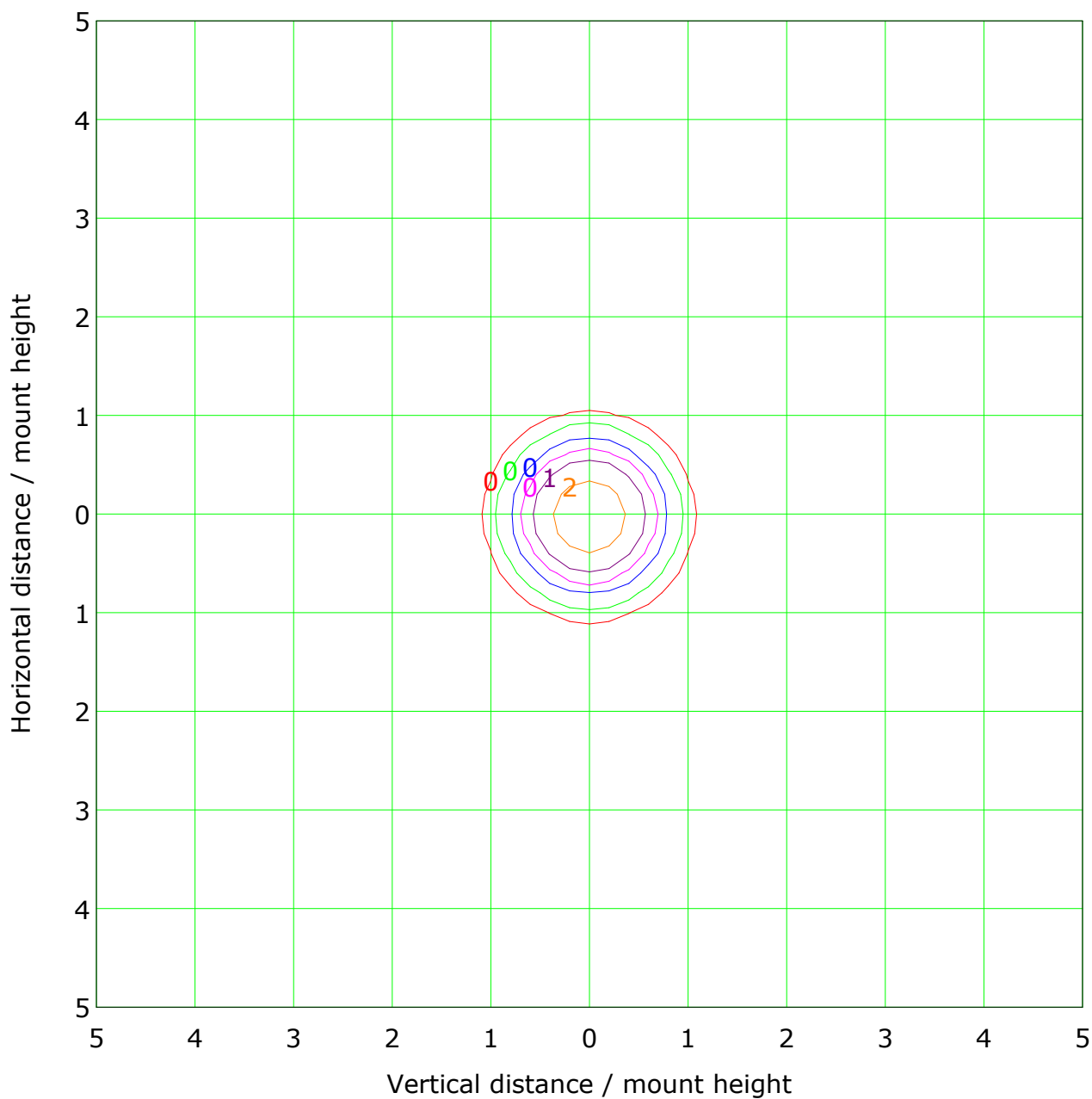
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## IsoLux Plot



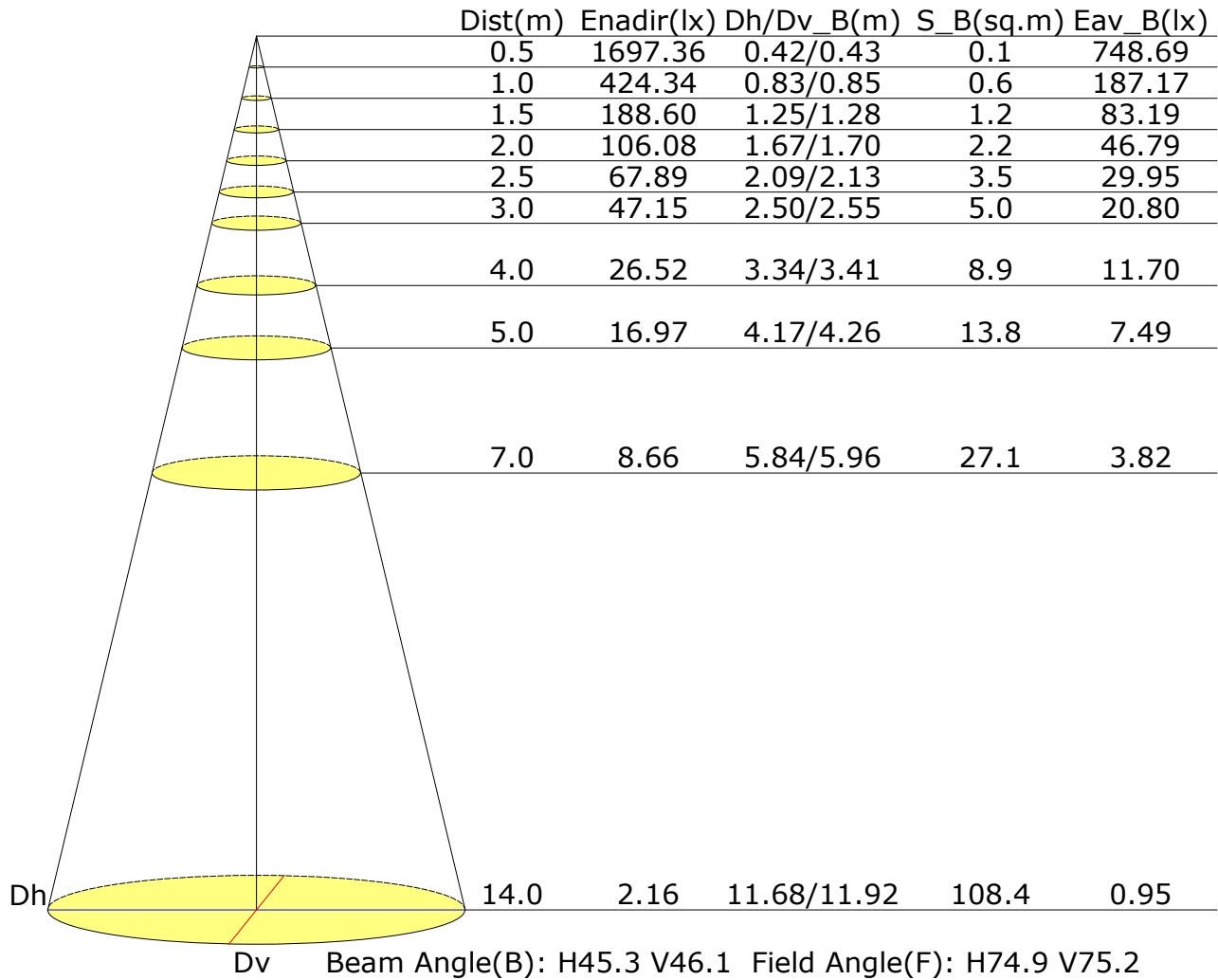
Mounting Height: 10.0m    Max Lux(100%): 4.3 lx

( 1%): 0.0 lx	( 2%): 0.1 lx
( 5%): 0.2 lx	( 10%): 0.4 lx
( 20%): 0.9 lx	( 50%): 2.1 lx
(100%): 4.3 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:

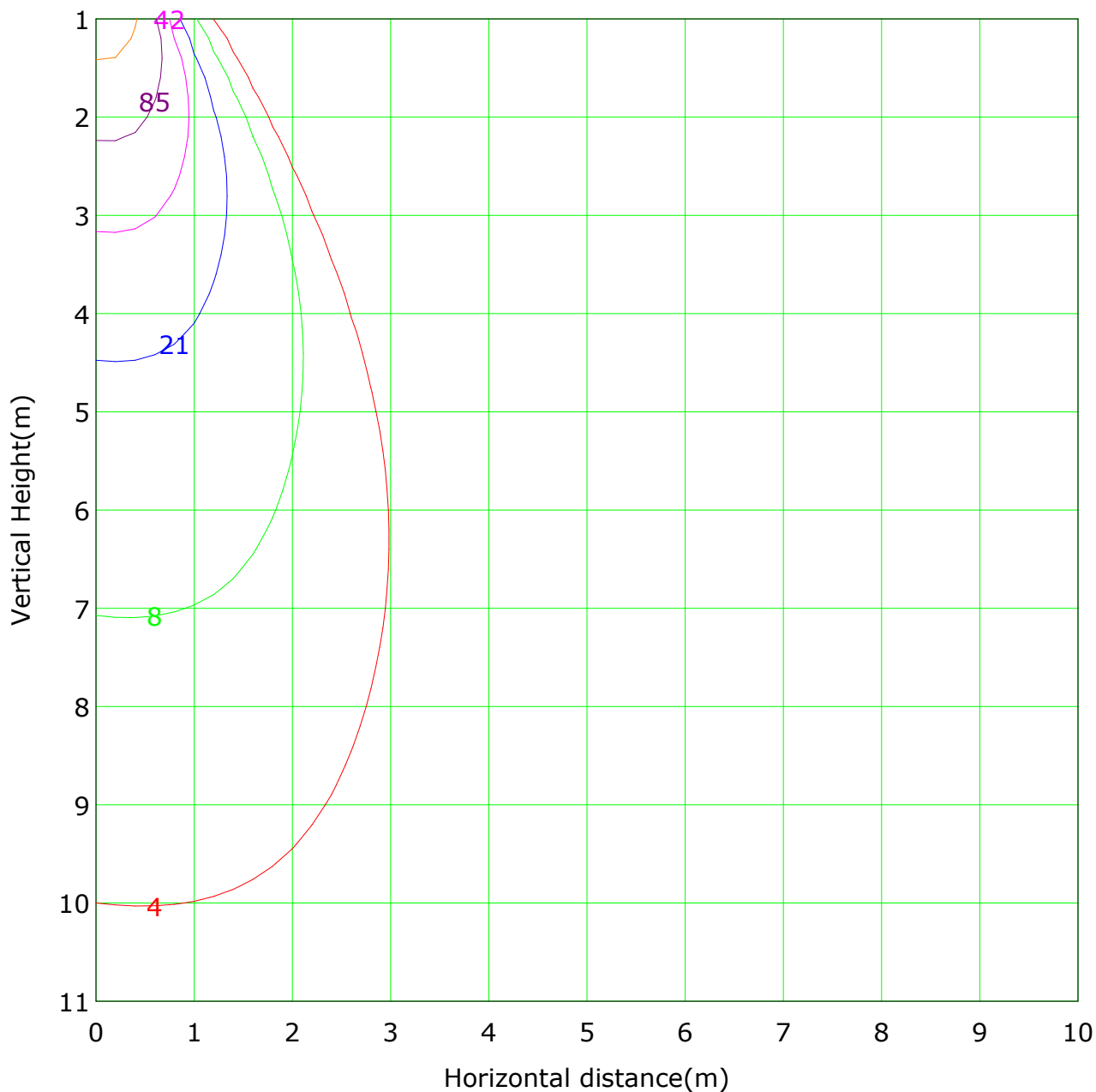
## Illuminance at a Distance



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: 424.3 lx  
— ( 1%): 4.2 lx                      — ( 2%): 8.5 lx  
— ( 5%): 21.2 lx                      — ( 10%): 42.4 lx  
— ( 20%): 84.9 lx                      — ( 50%): 212.2 lx  
— (100%): 424.3 lx

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

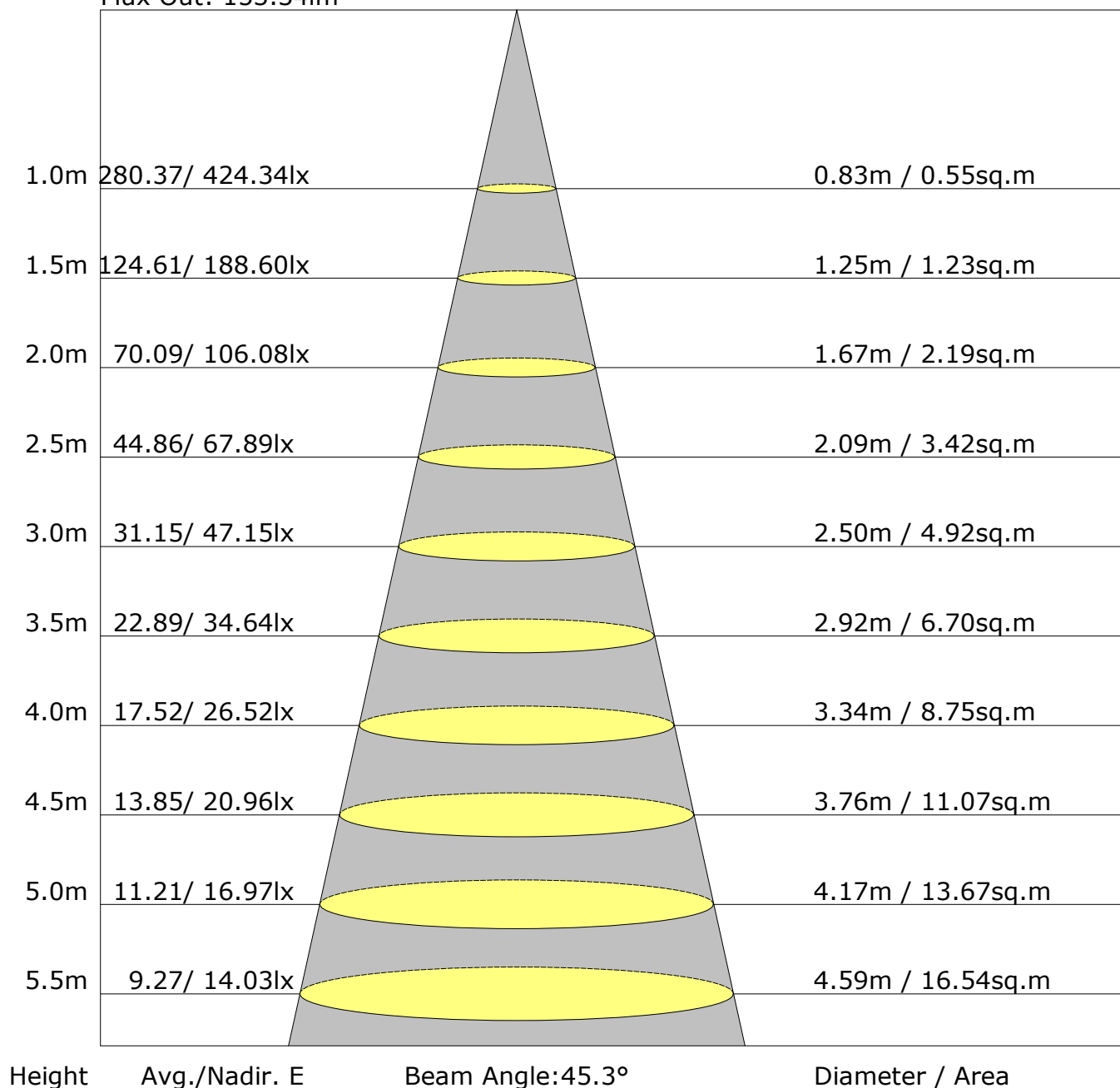
Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:

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



## The Average Illuminance Effective Figure

Flux Out: 153.34lm



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	17.9	18.7	18.2	18.9	19.2	17.4	18.2	17.6	18.4	18.6
3H	18.0	18.8	18.3	19.0	19.3	17.5	18.2	17.8	18.5	18.7
4H	18.1	18.8	18.4	19.0	19.3	17.5	18.2	17.8	18.5	18.8
6H	18.1	18.8	18.5	19.1	19.4	17.6	18.2	17.9	18.5	18.8
8H	18.1	18.8	18.5	19.1	19.4	17.6	18.2	17.9	18.5	18.8
12H	18.2	18.8	18.5	19.1	19.4	17.6	18.2	18.0	18.5	18.9
X=4H Y=2H	17.8	18.6	18.2	18.8	19.1	17.3	18.0	17.6	18.3	18.5
3H	18.0	18.6	18.4	18.9	19.3	17.5	18.1	17.9	18.4	18.8
4H	18.1	18.7	18.5	19.0	19.4	17.6	18.2	18.0	18.5	18.9
6H	18.3	18.7	18.7	19.1	19.5	17.7	18.2	18.2	18.6	19.0
8H	18.3	18.8	18.7	19.1	19.6	17.8	18.2	18.2	18.6	19.0
12H	18.4	18.8	18.8	19.2	19.6	17.9	18.3	18.3	18.7	19.1
X=8H Y=4H	18.1	18.6	18.5	18.9	19.4	17.6	18.1	18.1	18.5	18.9
6H	18.3	18.7	18.8	19.1	19.5	17.8	18.2	18.3	18.6	19.0
8H	18.4	18.7	18.9	19.2	19.6	17.9	18.2	18.4	18.7	19.1
12H	18.6	18.8	19.0	19.3	19.8	18.0	18.3	18.5	18.8	19.3
X=12H Y=4H	18.1	18.5	18.5	18.9	19.3	17.6	18.0	18.0	18.4	18.8
6H	18.3	18.6	18.8	19.1	19.5	17.8	18.1	18.3	18.6	19.0
8H	18.4	18.7	18.9	19.2	19.7	17.9	18.2	18.4	18.7	19.2
Variations with the observer position at spacings:										
S=1.0H	+3.7/-3.1					+3.5/-2.9				
S=1.5H	+6.2/-3.8					+5.9/-3.7				
S=2.0H	+8.1/-4.5					+7.8/-4.4				

Calculate in accordance with CIE Pub.117. The table is revised with  $277\text{lm}$  ( $8\log(F/F_0) = -4.5$ ).

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	147	52.9
	FL ( 0°-30°)	112	40.4
	FM (30°-60°)	32	11.5
	FH (60°-80°)	2	0.9
	FVH (80°-90°)	0	0.1
	BACK LIGHT	130	47.1
	BL ( 0°-30°)	101	36.3
	BM (30°-60°)	27	9.9
	BH (60°-80°)	2	0.8
	BVH (80°-90°)	0	0.1
	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)	B0 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B0 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	424.2	0.4	0.4	0.15	0.15
1.0-2.0	423.8	1.2	1.6	0.44	0.59
2.0-3.0	422.7	2.0	3.6	0.73	1.31
3.0-4.0	421.0	2.8	6.5	1.02	2.33
4.0-5.0	418.6	3.6	10.1	1.30	3.63
5.0-6.0	415.2	4.4	14.4	1.57	5.20
6.0-7.0	410.7	5.1	19.5	1.84	7.04
7.0-8.0	405.1	5.8	25.3	2.09	9.14
8.0-9.0	398.3	6.5	31.8	2.33	11.46
9.0-10.0	390.2	7.1	38.8	2.55	14.01
10.0-11.0	380.8	7.6	46.5	2.74	16.76
11.0-12.0	370.1	8.1	54.5	2.92	19.67
12.0-13.0	358.3	8.5	63.0	3.07	22.74
13.0-14.0	345.5	8.8	71.9	3.19	25.93
14.0-15.0	332.1	9.1	81.0	3.29	29.22
15.0-16.0	318.1	9.3	90.3	3.36	32.58
16.0-17.0	303.8	9.5	99.8	3.41	36.00
17.0-18.0	289.4	9.5	109.3	3.44	39.44
18.0-19.0	275.2	9.6	118.9	3.45	42.89
19.0-20.0	261.0	9.6	128.5	3.45	46.34
20.0-21.0	247.2	9.5	138.0	3.42	49.76
21.0-22.0	233.5	9.4	147.3	3.38	53.15
22.0-23.0	219.9	9.2	156.6	3.33	56.48
23.0-24.0	206.3	9.0	165.6	3.25	59.73
24.0-25.0	192.7	8.8	174.4	3.16	62.89
25.0-26.0	179.1	8.5	182.8	3.05	65.94
26.0-27.0	165.4	8.1	190.9	2.92	68.86
27.0-28.0	151.8	7.7	198.6	2.77	71.64
28.0-29.0	138.2	7.2	205.8	2.61	74.24
29.0-30.0	124.8	6.7	212.6	2.43	76.68
30.0-31.0	111.7	6.2	218.8	2.24	78.92
31.0-32.0	99.2	5.7	224.5	2.05	80.97
32.0-33.0	87.4	5.2	229.6	1.86	82.83
33.0-34.0	76.5	4.6	234.2	1.67	84.50
34.0-35.0	66.7	4.1	238.4	1.49	85.99
35.0-36.0	57.9	3.7	242.1	1.33	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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	50.0	3.3	245.3	1.18	88.50
37.0-38.0	43.2	2.9	248.2	1.04	89.54
38.0-39.0	37.4	2.6	250.8	0.92	90.46
39.0-40.0	32.4	2.3	253.0	0.81	91.27
40.0-41.0	28.2	2.0	255.0	0.72	92.00
41.0-42.0	24.7	1.8	256.8	0.65	92.64
42.0-43.0	21.7	1.6	258.4	0.58	93.22
43.0-44.0	19.2	1.5	259.9	0.52	93.75
44.0-45.0	17.1	1.3	261.2	0.47	94.22
45.0-46.0	15.2	1.2	262.4	0.43	94.65
46.0-47.0	13.6	1.1	263.5	0.39	95.04
47.0-48.0	12.2	1.0	264.5	0.36	95.40
48.0-49.0	11.0	0.9	265.4	0.32	95.72
49.0-50.0	9.9	0.8	266.2	0.30	96.02
50.0-51.0	8.9	0.8	266.9	0.27	96.29
51.0-52.0	8.1	0.7	267.6	0.25	96.54
52.0-53.0	7.4	0.6	268.3	0.23	96.78
53.0-54.0	6.9	0.6	268.9	0.22	96.99
54.0-55.0	6.4	0.6	269.5	0.21	97.20
55.0-56.0	6.0	0.5	270.0	0.19	97.39
56.0-57.0	5.6	0.5	270.5	0.18	97.58
57.0-58.0	5.2	0.5	271.0	0.17	97.75
58.0-59.0	4.9	0.5	271.4	0.16	97.92
59.0-60.0	4.5	0.4	271.9	0.15	98.07
60.0-61.0	4.2	0.4	272.3	0.15	98.22
61.0-62.0	4.0	0.4	272.7	0.14	98.35
62.0-63.0	3.7	0.4	273.0	0.13	98.48
63.0-64.0	3.4	0.3	273.4	0.12	98.61
64.0-65.0	3.2	0.3	273.7	0.11	98.72
65.0-66.0	2.9	0.3	274.0	0.11	98.82
66.0-67.0	2.7	0.3	274.2	0.10	98.92
67.0-68.0	2.6	0.3	274.5	0.09	99.02
68.0-69.0	2.4	0.2	274.7	0.09	99.11
69.0-70.0	2.2	0.2	275.0	0.08	99.19
70.0-71.0	2.1	0.2	275.2	0.08	99.27
71.0-72.0	1.9	0.2	275.4	0.07	99.34

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:

## Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	424.3	424.3								
G1.0	426.1	422.1								
G2.0	427.5	419.3								
G3.0	428.3	415.8								
G4.0	428.5	411.5								
G5.0	428.1	406.1								
G6.0	426.9	399.6								
G7.0	424.5	391.8								
G8.0	421.3	382.7								
G9.0	416.9	372.2								
G10.0	411.2	360.4								
G11.0	404.0	347.4								
G12.0	395.3	333.6								
G13.0	385.3	318.9								
G14.0	374.0	304.0								
G15.0	361.5	288.9								
G16.0	348.0	274.0								
G17.0	333.5	259.6								
G18.0	318.7	245.9								
G19.0	303.6	232.5								
G20.0	288.2	219.9								
G21.0	272.8	207.7								
G22.0	257.5	195.9								
G23.0	242.0	184.1								
G24.0	226.9	172.2								
G25.0	211.7	160.1								
G26.0	196.6	148.1								
G27.0	181.1	136.0								
G28.0	166.1	123.8								
G29.0	150.9	111.8								
G30.0	136.2	100.1								
G31.0	121.9	88.6								
G32.0	108.3	77.9								
G33.0	95.3	68.1								
G34.0	83.5	59.2								
G35.0	72.7	51.3								
G36.0	63.0	44.4								

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	54.4	38.3								
G38.0	47.0	33.1								
G39.0	40.5	28.8								
G40.0	35.0	25.2								
G41.0	30.4	22.1								
G42.0	26.5	19.6								
G43.0	23.3	17.4								
G44.0	20.6	15.6								
G45.0	18.2	14.0								
G46.0	16.2	12.5								
G47.0	14.5	11.3								
G48.0	12.9	10.2								
G49.0	11.6	9.2								
G50.0	10.4	8.3								
G51.0	9.3	7.7								
G52.0	8.4	7.1								
G53.0	7.6	6.6								
G54.0	7.1	6.2								
G55.0	6.6	5.8								
G56.0	6.2	5.4								
G57.0	5.8	5.0								
G58.0	5.4	4.7								
G59.0	5.1	4.3								
G60.0	4.7	4.0								
G61.0	4.4	3.8								
G62.0	4.1	3.5								
G63.0	3.8	3.3								
G64.0	3.6	3.0								
G65.0	3.3	2.8								
G66.0	3.1	2.6								
G67.0	2.8	2.5								
G68.0	2.6	2.3								
G69.0	2.5	2.1								
G70.0	2.3	2.0								
G71.0	2.2	1.8								
G72.0	2.0	1.7								
G73.0	1.9	1.6								

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



Unit: cd

[illegible]

Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector: