

Report No.:

Test Time: 2026-04-09 17:43

## Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 51.03520-50D

Luminous Width (mm): -11

Current: 0.021 A

Power Factor: 0.610

Luminous Length (mm): -11

Voltage: 233.0 V

Power: 2.90 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 95.6 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H53.4

Vertical Diffuse Angle(50%): V53.4

Luminaire Efficacy Rating (LER): 33.03

Max. Intensity: 130.45 cd

S/MH(C0/C180): 0.91

Total Rated Lamp Lumens: 95.6 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 105.96 cd

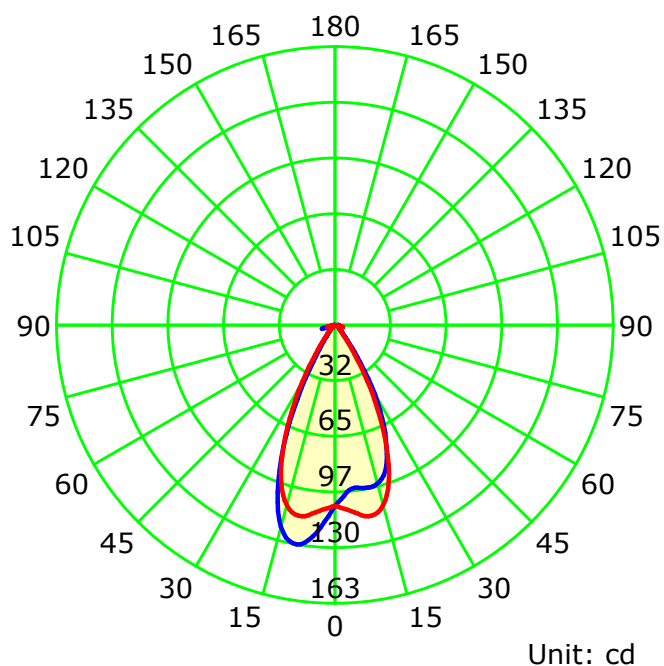
Pos of Max. Intensity: H180 V10

S/MH(C90/C270): 0.91

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

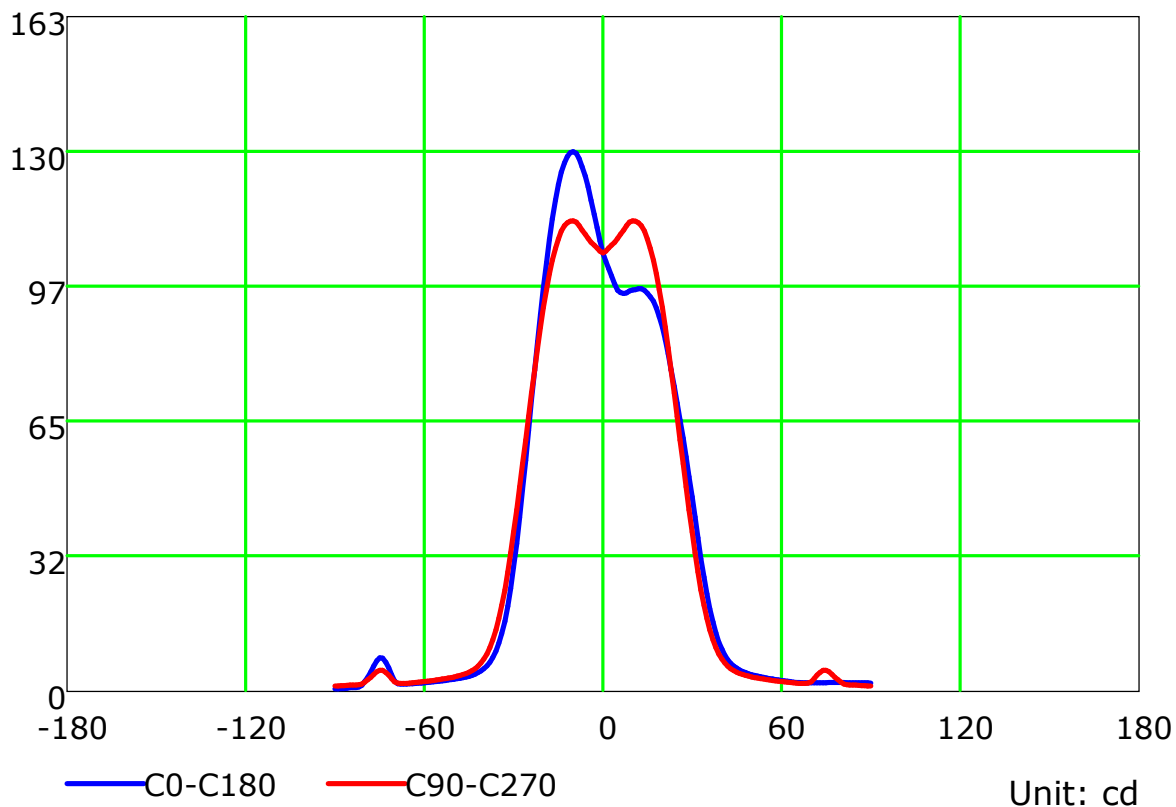
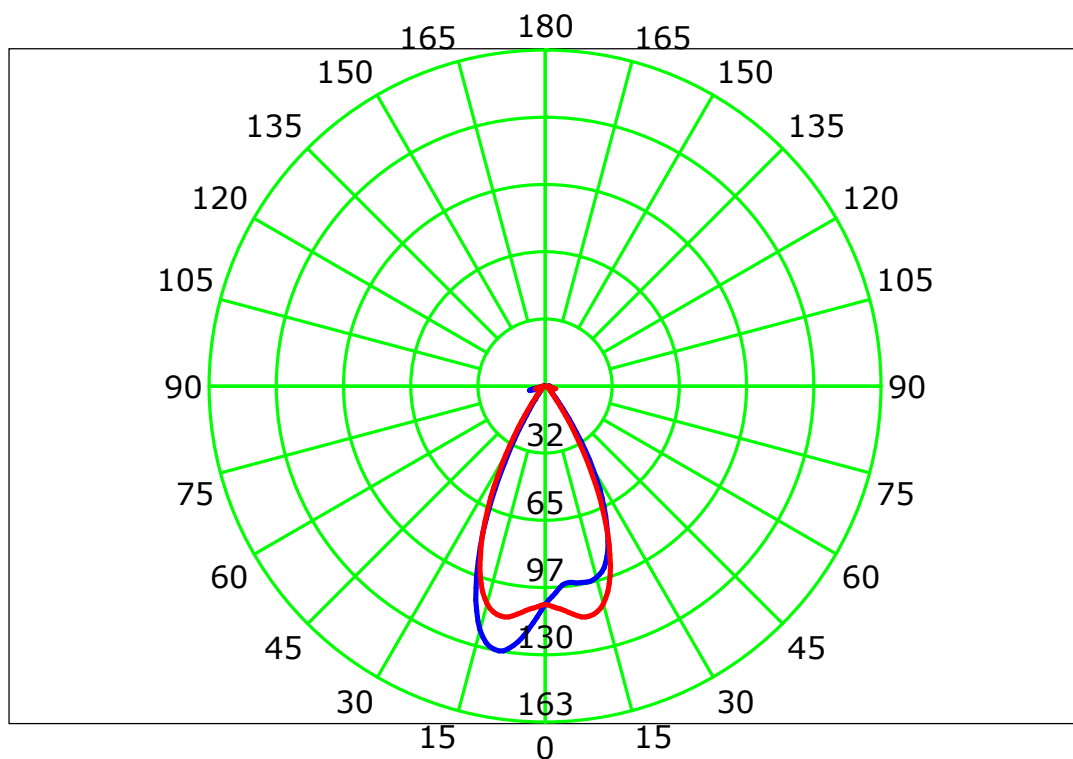
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

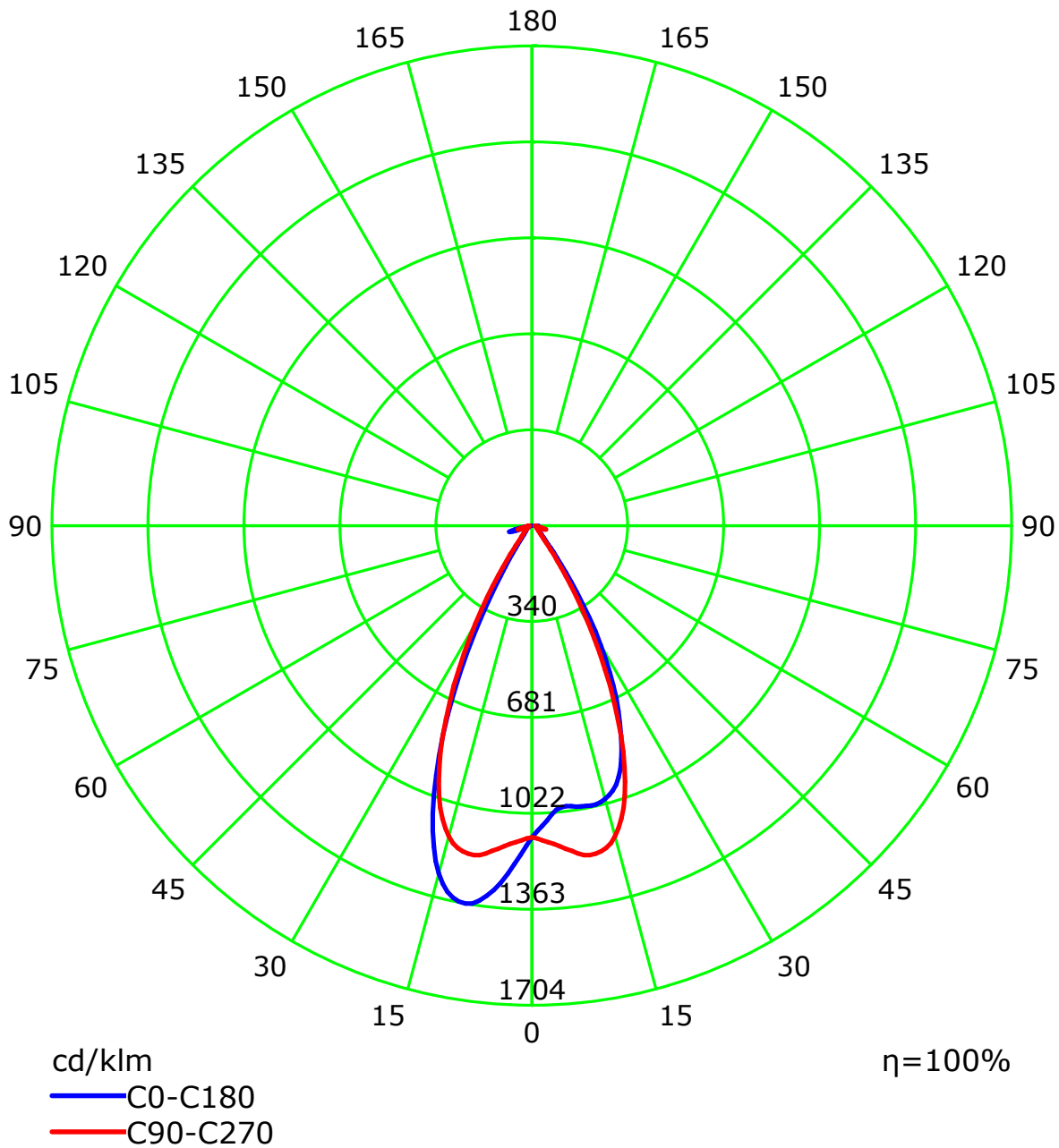
## Luminous Intensity Distribution Curve



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: 3.010 m  
Humidity:  
Inspector:

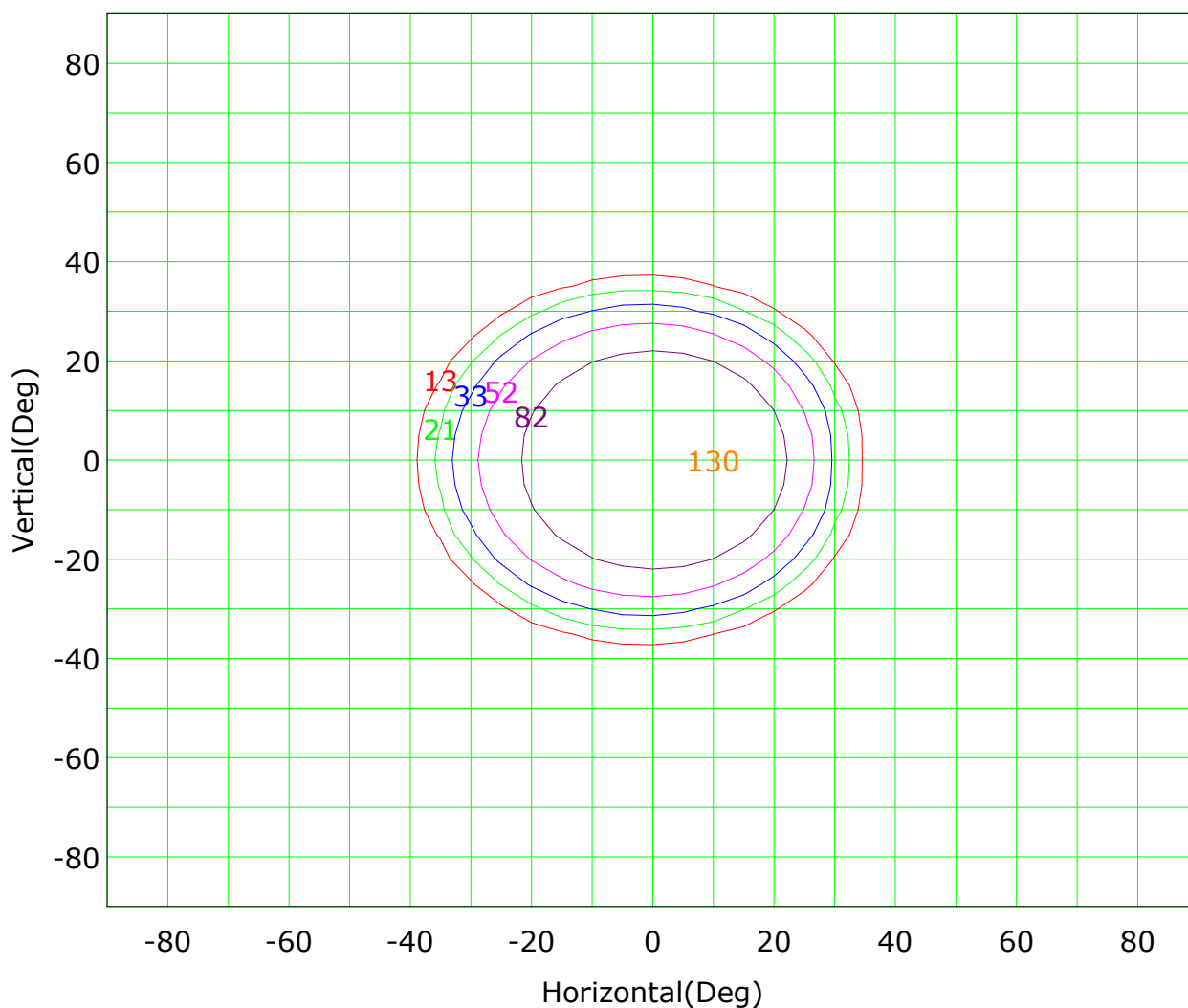
## Luminous Intensity Distribution Curve(cd/klm)



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: 3.010 m  
Humidity:  
Inspector:

## Isocandela (rectangle)



Imax (100%): 130 cd

( 10%):	13 cd	( 16%):	21 cd
( 25%):	33 cd	( 40%):	52 cd
( 63%):	82 cd	(100%):	130 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

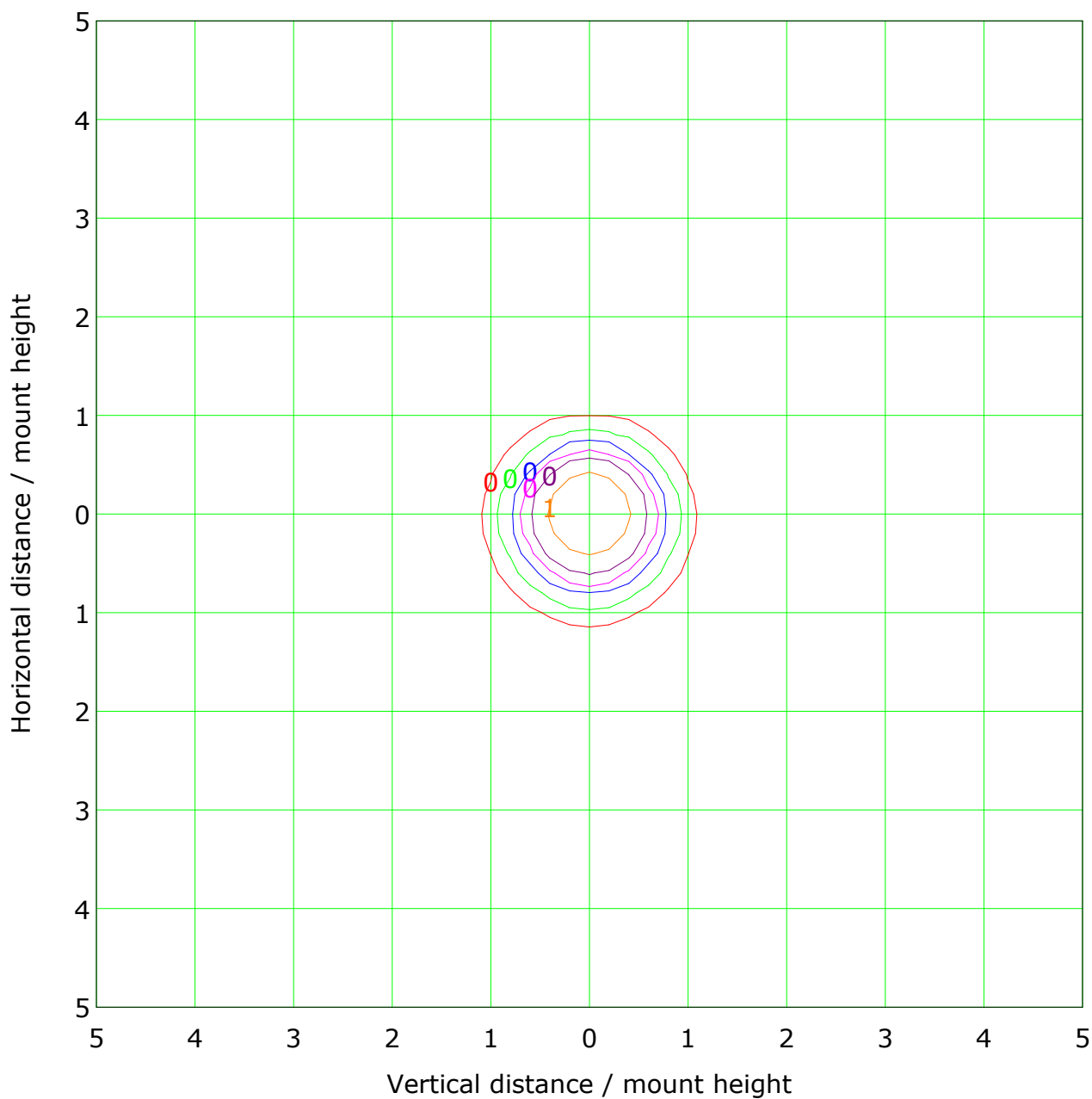
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

## IsoLux Plot



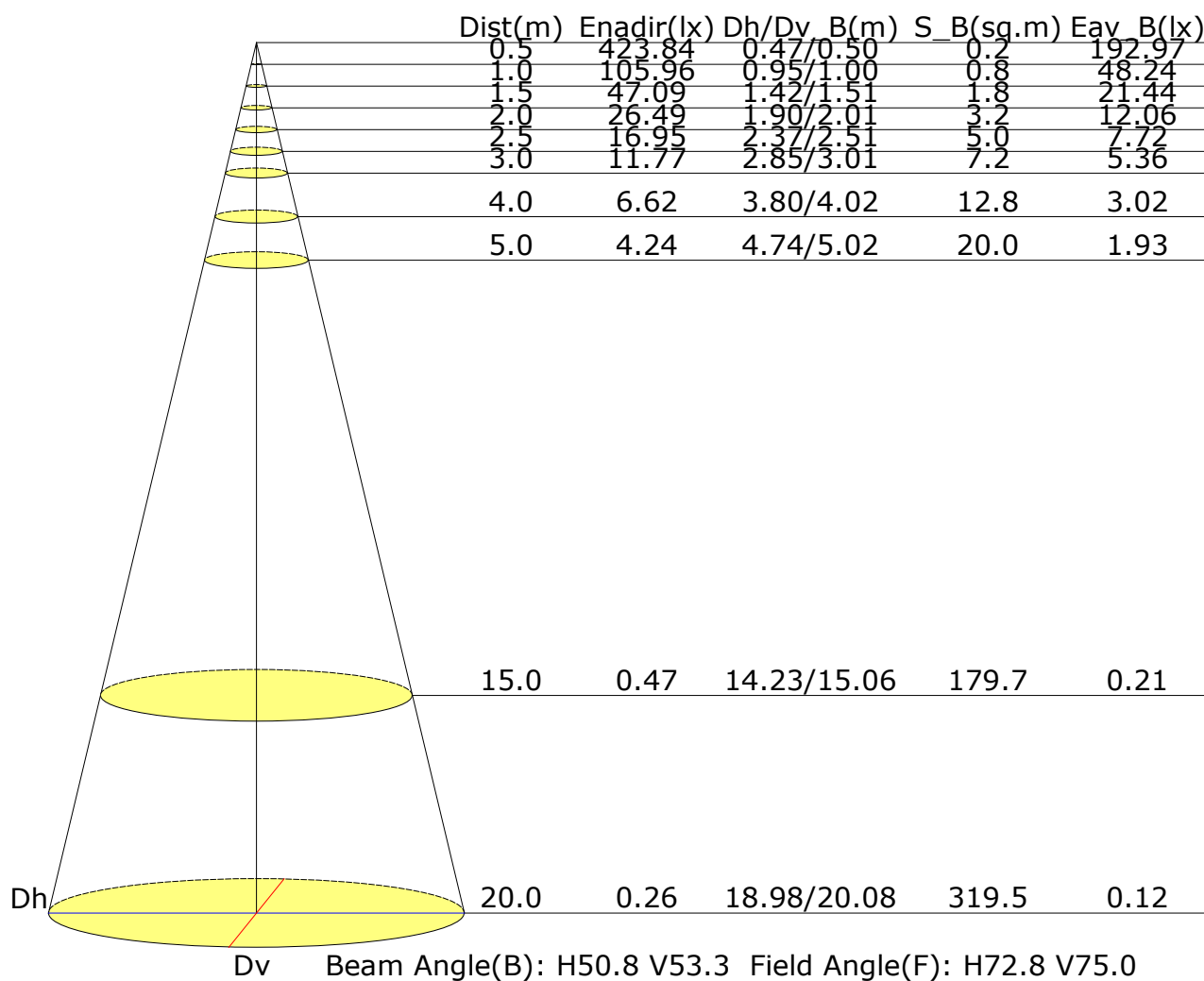
Mounting Height: 10.0m    Max Lux(100%): 1.3 lx

— ( 1%): 0.0 lx	— ( 2%): 0.0 lx
— ( 5%): 0.1 lx	— ( 10%): 0.1 lx
— ( 20%): 0.3 lx	— ( 50%): 0.6 lx
— (100%): 1.3 lx	

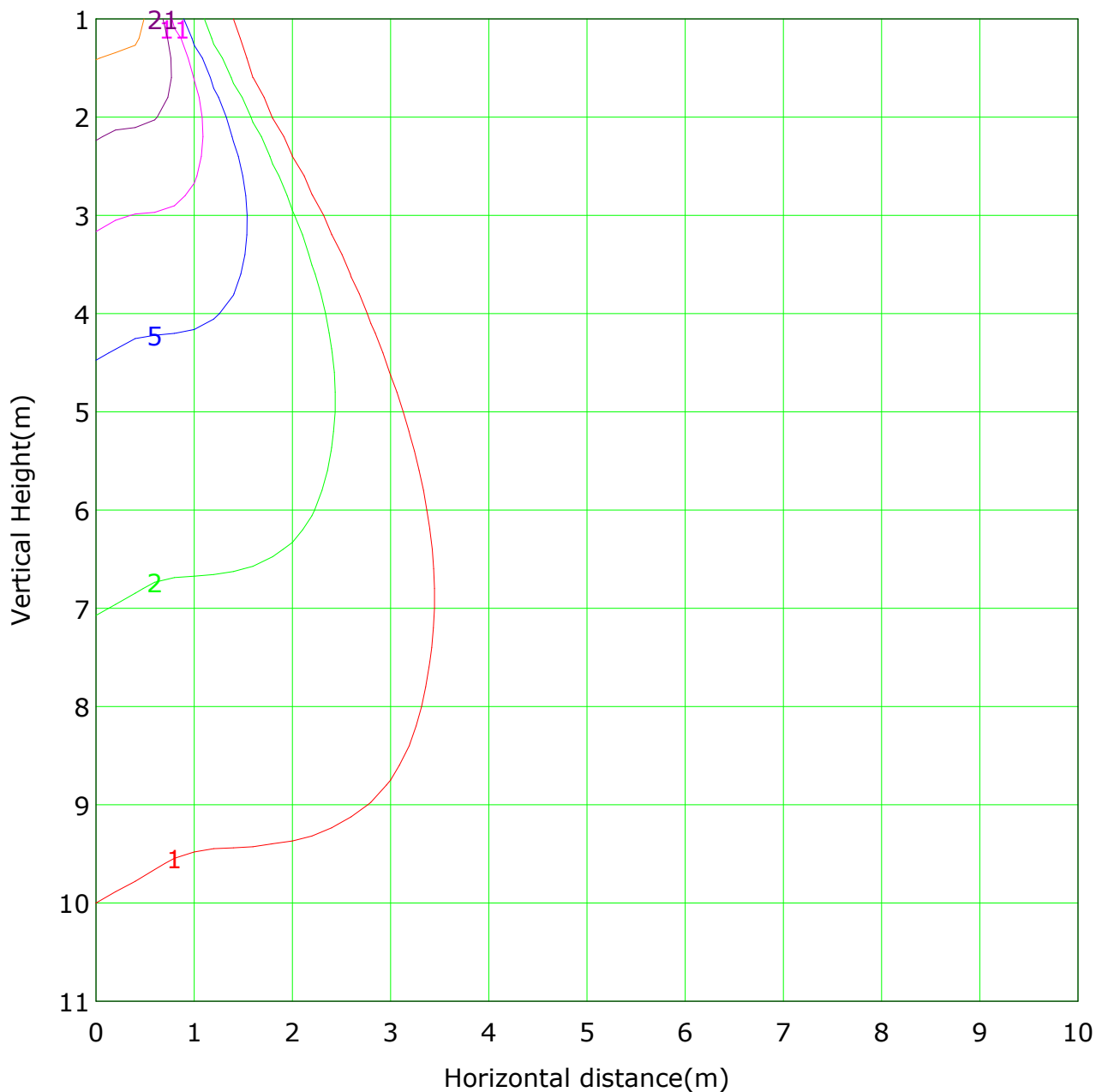
C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.010 m  
Humidity:  
Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 106.0 lx

( 1%): 1.1 lx	( 2%): 2.1 lx
( 5%): 5.3 lx	( 10%): 10.6 lx
( 20%): 21.2 lx	( 50%): 53.0 lx
(100%): 106.0 lx	

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

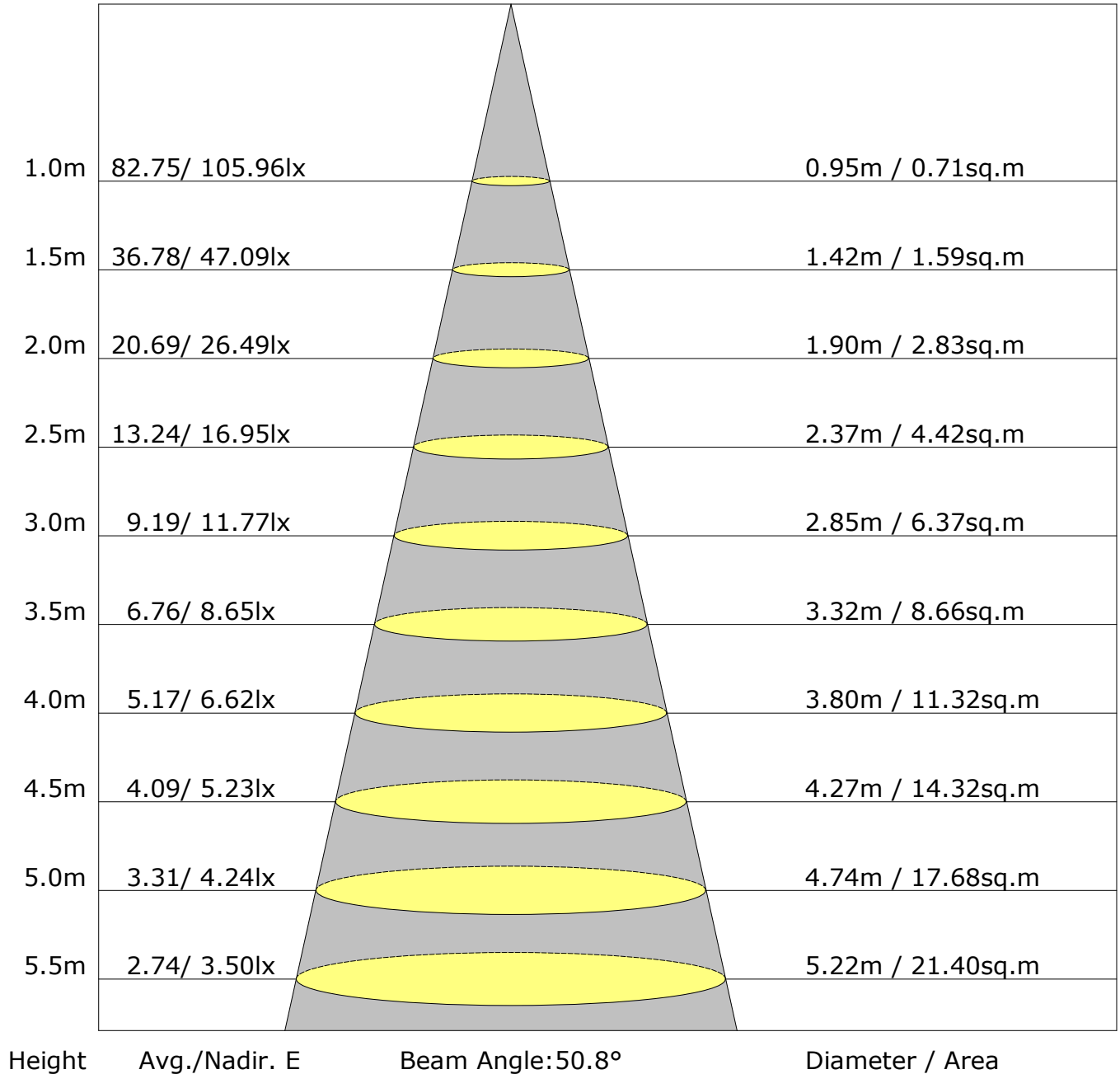
Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.010 m  
Humidity:  
Inspector:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.010 m  
Humidity:  
Inspector:



## The Average Illuminance Effective Figure

Flux Out: 58.53lm



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: 3.010 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	23.6	24.5	23.8	24.7	24.9	22.7	23.6	23.0	23.8	24.0
3H	24.5	25.3	24.8	25.6	25.8	24.1	25.0	24.4	25.2	25.5
4H	25.6	26.4	25.9	26.6	26.9	27.6	28.4	27.9	28.7	28.9
6H	26.9	27.6	27.2	27.9	28.2	29.1	29.9	29.5	30.1	30.4
8H	27.6	28.4	28.0	28.7	29.0	29.4	30.1	29.7	30.4	30.7
12H	28.6	29.3	29.0	29.6	30.0	29.7	30.4	30.0	30.7	31.0
X=4H Y=2H	23.7	24.5	24.1	24.8	25.1	23.0	23.8	23.3	24.0	24.3
3H	25.2	25.9	25.6	26.3	26.6	25.3	26.0	25.6	26.3	26.6
4H	26.8	27.5	27.2	27.8	28.2	28.9	29.5	29.3	29.9	30.3
6H	28.4	28.9	28.8	29.3	29.7	30.5	31.0	30.9	31.4	31.8
8H	29.3	29.8	29.7	30.2	30.6	30.8	31.3	31.2	31.7	32.1
12H	30.4	30.8	30.8	31.2	31.7	31.2	31.6	31.6	32.1	32.5
X=8H Y=4H	27.9	28.4	28.3	28.8	29.2	29.5	30.0	30.0	30.4	30.8
6H	29.5	30.0	30.0	30.4	30.8	31.2	31.6	31.6	32.0	32.5
8H	30.5	30.9	31.0	31.3	31.8	31.6	31.9	32.0	32.4	32.9
12H	31.8	32.1	32.2	32.6	33.1	32.1	32.5	32.6	32.9	33.4
X=12H Y=4H	28.0	28.5	28.5	28.9	29.4	29.6	30.1	30.0	30.5	30.9
6H	29.8	30.1	30.2	30.6	31.1	31.3	31.6	31.7	32.1	32.6
8H	30.8	31.1	31.3	31.6	32.1	31.8	32.1	32.3	32.6	33.1
Variations with the observer position at spacings:										
S=1.0H	+1.1/-0.6					+0.5/-0.3				
S=1.5H	+2.1/-0.8					+1.2/-0.4				
S=2.0H	+3.2/-1.4					+1.4/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 96lm ( $8\log(F/F_0) = -8.2$ ).

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: 3.010 m  
Humidity:  
Inspector:

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

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	48	50.2
	FL ( 0°-30°)	34	36.0
	FM (30°-60°)	10	10.6
	FH (60°-80°)	2	2.6
	FVH (80°-90°)	1	0.9
	BACK LIGHT	48	49.8
	BL ( 0°-30°)	36	37.6
	BM (30°-60°)	8	8.1
	BH (60°-80°)	3	3.5
	BVH (80°-90°)	1	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)	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: 3.010 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	106.2	0.1	0.1	0.11	0.11
1.0-2.0	106.7	0.3	0.4	0.32	0.43
2.0-3.0	107.4	0.5	0.9	0.54	0.96
3.0-4.0	108.1	0.7	1.6	0.76	1.72
4.0-5.0	108.9	0.9	2.6	0.98	2.70
5.0-6.0	109.9	1.2	3.7	1.21	3.91
6.0-7.0	110.9	1.4	5.1	1.44	5.35
7.0-8.0	112.0	1.6	6.7	1.68	7.02
8.0-9.0	112.9	1.8	8.5	1.91	8.94
9.0-10.0	113.5	2.1	10.6	2.15	11.09
10.0-11.0	113.6	2.3	12.9	2.37	13.46
11.0-12.0	113.4	2.5	15.4	2.59	16.05
12.0-13.0	112.9	2.7	18.0	2.80	18.86
13.0-14.0	111.8	2.9	20.9	2.99	21.85
14.0-15.0	110.2	3.0	23.9	3.16	25.01
15.0-16.0	108.1	3.2	27.1	3.31	28.33
16.0-17.0	105.6	3.3	30.4	3.44	31.77
17.0-18.0	102.5	3.4	33.8	3.54	35.30
18.0-19.0	98.9	3.4	37.2	3.60	38.90
19.0-20.0	94.8	3.5	40.7	3.63	42.53
20.0-21.0	90.3	3.5	44.1	3.63	46.16
21.0-22.0	85.4	3.4	47.6	3.59	49.75
22.0-23.0	80.3	3.4	50.9	3.52	53.27
23.0-24.0	74.8	3.3	54.2	3.42	56.69
24.0-25.0	69.2	3.1	57.4	3.29	59.98
25.0-26.0	63.5	3.0	60.4	3.13	63.11
26.0-27.0	57.7	2.8	63.2	2.95	66.07
27.0-28.0	52.1	2.6	65.8	2.76	68.82
28.0-29.0	46.5	2.4	68.3	2.54	71.37
29.0-30.0	41.0	2.2	70.5	2.32	73.69
30.0-31.0	35.9	2.0	72.5	2.09	75.77
31.0-32.0	31.0	1.8	74.2	1.86	77.63
32.0-33.0	26.5	1.6	75.8	1.63	79.27
33.0-34.0	22.5	1.4	77.2	1.42	80.69
34.0-35.0	19.0	1.2	78.4	1.24	81.93
35.0-36.0	16.1	1.0	79.4	1.07	83.00

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: 3.010 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	13.5	0.9	80.3	0.92	83.92
37.0-38.0	11.4	0.8	81.0	0.79	84.71
38.0-39.0	9.7	0.7	81.7	0.69	85.40
39.0-40.0	8.3	0.6	82.2	0.60	86.00
40.0-41.0	7.2	0.5	82.8	0.53	86.54
41.0-42.0	6.3	0.5	83.2	0.48	87.02
42.0-43.0	5.6	0.4	83.6	0.43	87.45
43.0-44.0	5.1	0.4	84.0	0.40	87.85
44.0-45.0	4.6	0.4	84.4	0.37	88.22
45.0-46.0	4.3	0.3	84.7	0.35	88.57
46.0-47.0	4.0	0.3	85.0	0.33	88.91
47.0-48.0	3.8	0.3	85.3	0.32	89.23
48.0-49.0	3.6	0.3	85.6	0.31	89.53
49.0-50.0	3.4	0.3	85.9	0.30	89.83
50.0-51.0	3.2	0.3	86.2	0.29	90.12
51.0-52.0	3.1	0.3	86.4	0.28	90.39
52.0-53.0	3.0	0.3	86.7	0.27	90.67
53.0-54.0	2.9	0.3	87.0	0.26	90.93
54.0-55.0	2.7	0.2	87.2	0.26	91.18
55.0-56.0	2.6	0.2	87.4	0.25	91.43
56.0-57.0	2.5	0.2	87.7	0.24	91.67
57.0-58.0	2.4	0.2	87.9	0.23	91.90
58.0-59.0	2.3	0.2	88.1	0.23	92.13
59.0-60.0	2.2	0.2	88.3	0.22	92.35
60.0-61.0	2.1	0.2	88.5	0.21	92.57
61.0-62.0	2.1	0.2	88.7	0.21	92.77
62.0-63.0	2.0	0.2	88.9	0.20	92.98
63.0-64.0	1.9	0.2	89.1	0.20	93.17
64.0-65.0	1.8	0.2	89.3	0.19	93.36
65.0-66.0	1.8	0.2	89.5	0.19	93.55
66.0-67.0	1.8	0.2	89.6	0.18	93.73
67.0-68.0	1.8	0.2	89.8	0.19	93.92
68.0-69.0	1.8	0.2	90.0	0.19	94.11
69.0-70.0	2.0	0.2	90.2	0.21	94.32
70.0-71.0	2.5	0.3	90.5	0.27	94.60
71.0-72.0	3.3	0.3	90.8	0.36	94.96

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: 3.010 m  
Humidity:  
Inspector:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 3.010 m  
Humidity:  
Inspector:

## Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	106.0	106.0								
G1.0	103.9	108.8								
G2.0	102.2	112.1								
G3.0	100.3	115.2								
G4.0	98.3	118.6								
G5.0	96.9	121.9								
G6.0	96.3	124.5								
G7.0	96.1	126.7								
G8.0	96.3	128.7								
G9.0	96.7	130.0								
G10.0	97.0	130.4								
G11.0	97.0	130.2								
G12.0	97.2	129.3								
G13.0	97.3	127.7								
G14.0	96.9	125.5								
G15.0	96.2	122.4								
G16.0	95.3	118.7								
G17.0	94.2	114.1								
G18.0	92.6	109.1								
G19.0	90.5	103.5								
G20.0	88.0	97.4								
G21.0	84.9	91.0								
G22.0	81.5	84.4								
G23.0	77.7	77.6								
G24.0	73.6	70.5								
G25.0	69.6	63.0								
G26.0	65.5	55.7								
G27.0	61.0	48.7								
G28.0	56.6	42.0								
G29.0	51.8	35.6								
G30.0	46.9	29.9								
G31.0	42.0	24.7								
G32.0	37.0	20.4								
G33.0	32.0	16.8								
G34.0	27.5	13.8								
G35.0	23.4	11.5								
G36.0	19.8	9.6								

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: 3.010 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	16.6	8.0								
G38.0	14.0	6.9								
G39.0	11.8	6.0								
G40.0	10.0	5.3								
G41.0	8.6	4.8								
G42.0	7.5	4.3								
G43.0	6.6	4.0								
G44.0	5.9	3.7								
G45.0	5.4	3.5								
G46.0	5.0	3.3								
G47.0	4.6	3.1								
G48.0	4.3	3.0								
G49.0	4.1	2.9								
G50.0	3.9	2.8								
G51.0	3.7	2.7								
G52.0	3.5	2.6								
G53.0	3.4	2.5								
G54.0	3.2	2.4								
G55.0	3.1	2.3								
G56.0	2.9	2.2								
G57.0	2.8	2.1								
G58.0	2.7	2.0								
G59.0	2.6	2.0								
G60.0	2.4	1.9								
G61.0	2.4	1.9								
G62.0	2.3	1.8								
G63.0	2.2	1.7								
G64.0	2.1	1.7								
G65.0	2.0	1.6								
G66.0	1.9	1.6								
G67.0	1.9	1.6								
G68.0	1.9	1.6								
G69.0	1.9	1.7								
G70.0	1.9	2.4								
G71.0	1.9	3.9								
G72.0	1.9	5.6								
G73.0	1.9	6.9								

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: 3.010 m  
Humidity:  
Inspector:



Unit: cd

Inspector: