

Report No.:

Test Time: 2025-11-27 16:13

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 52.03523 50D

Luminous Width (mm): -30

Voltage: 234.2 V

Power: 3.70 W

Luminous Length (mm): -30

Luminous Height (mm): -25

Current: 0.029 A

Power Factor: 0.534

Photometric Results

CIE Class: Direct

Measurement Flux: 174 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H44

Vertical Diffuse Angle(50%): V44

Luminaire Efficacy Rating (LER): 47.08

Max. Intensity: 276.5 cd

S/MH(C0/C180): 0.65

Total Rated Lamp Lumens: 174.0 lm

Efficiency: 100%

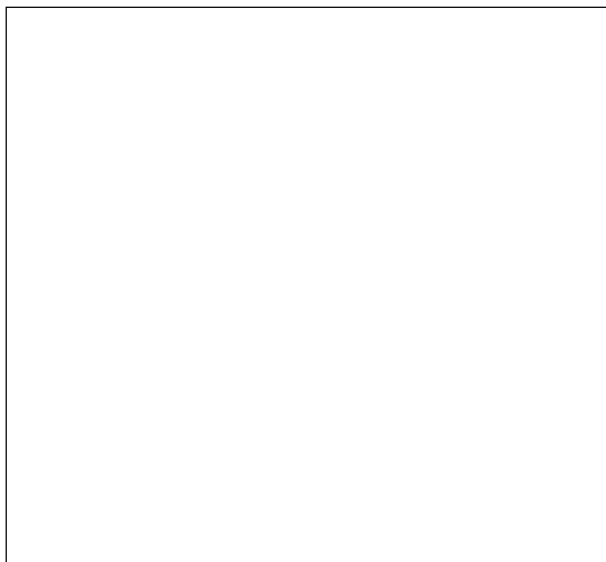
Upward Ratio: 0%

Central Intensity: 276.5 cd

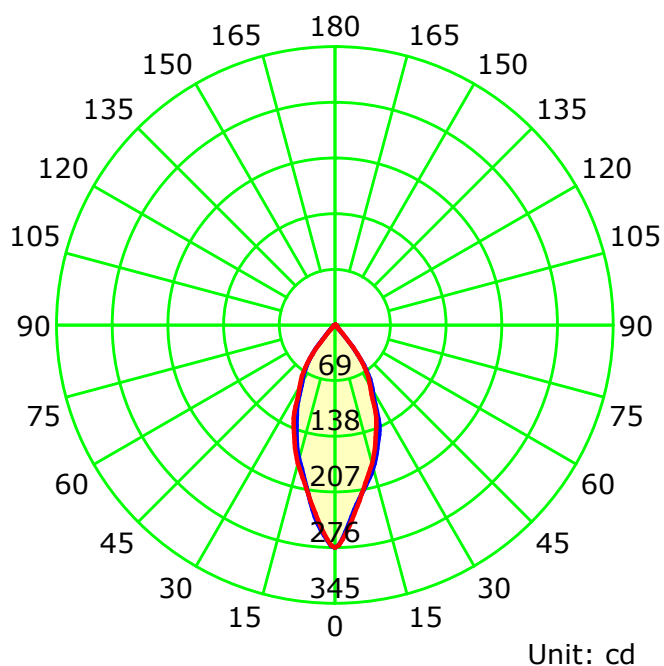
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.65

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

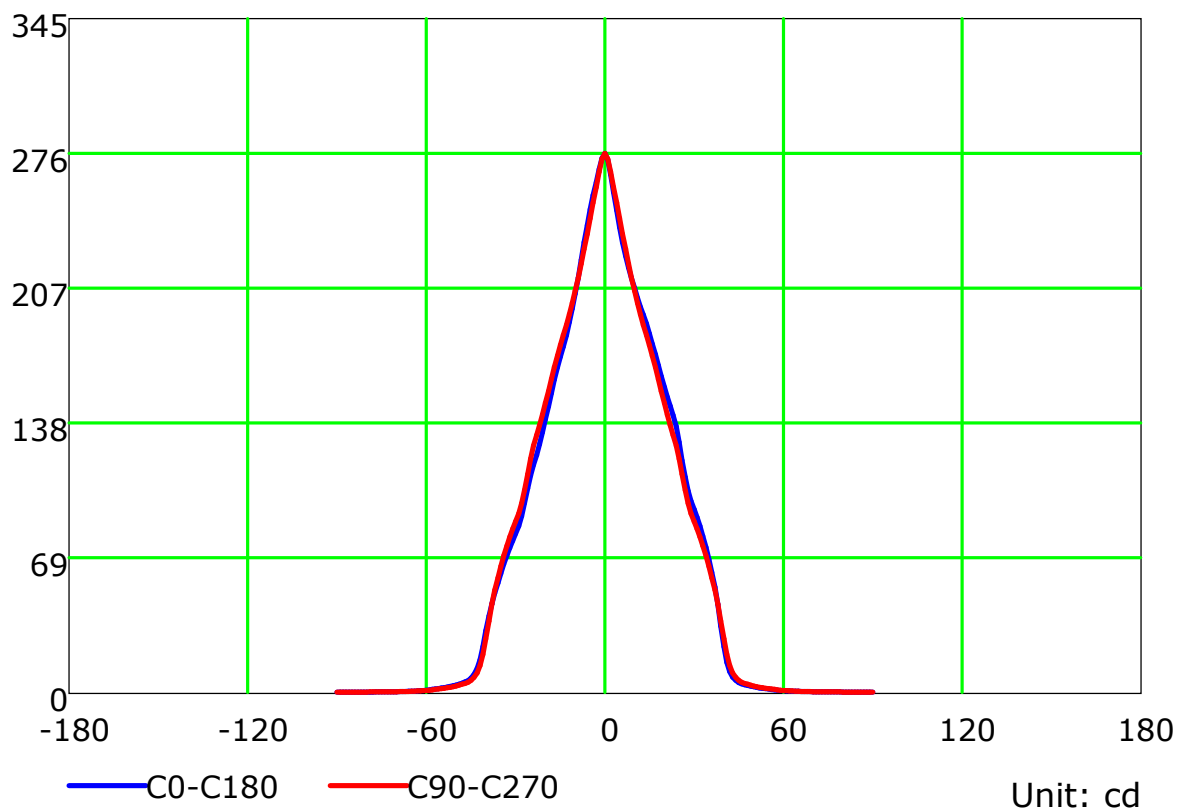
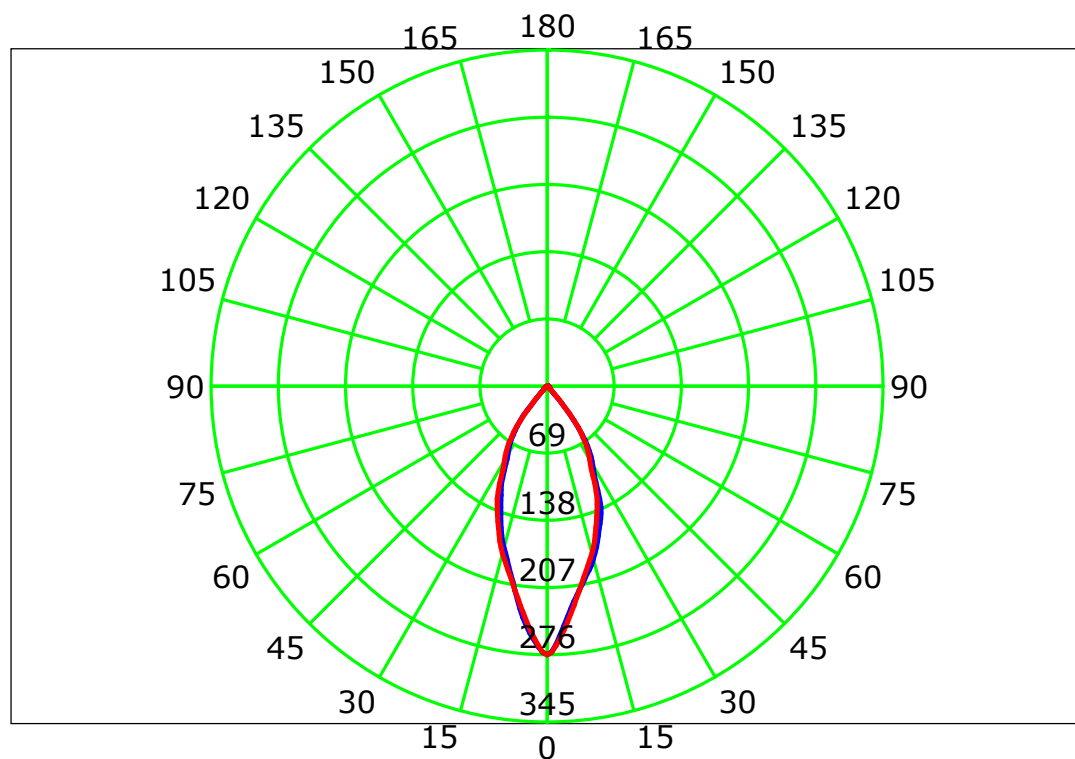
Test Device: CHL-6E

Distance: 3.030 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve

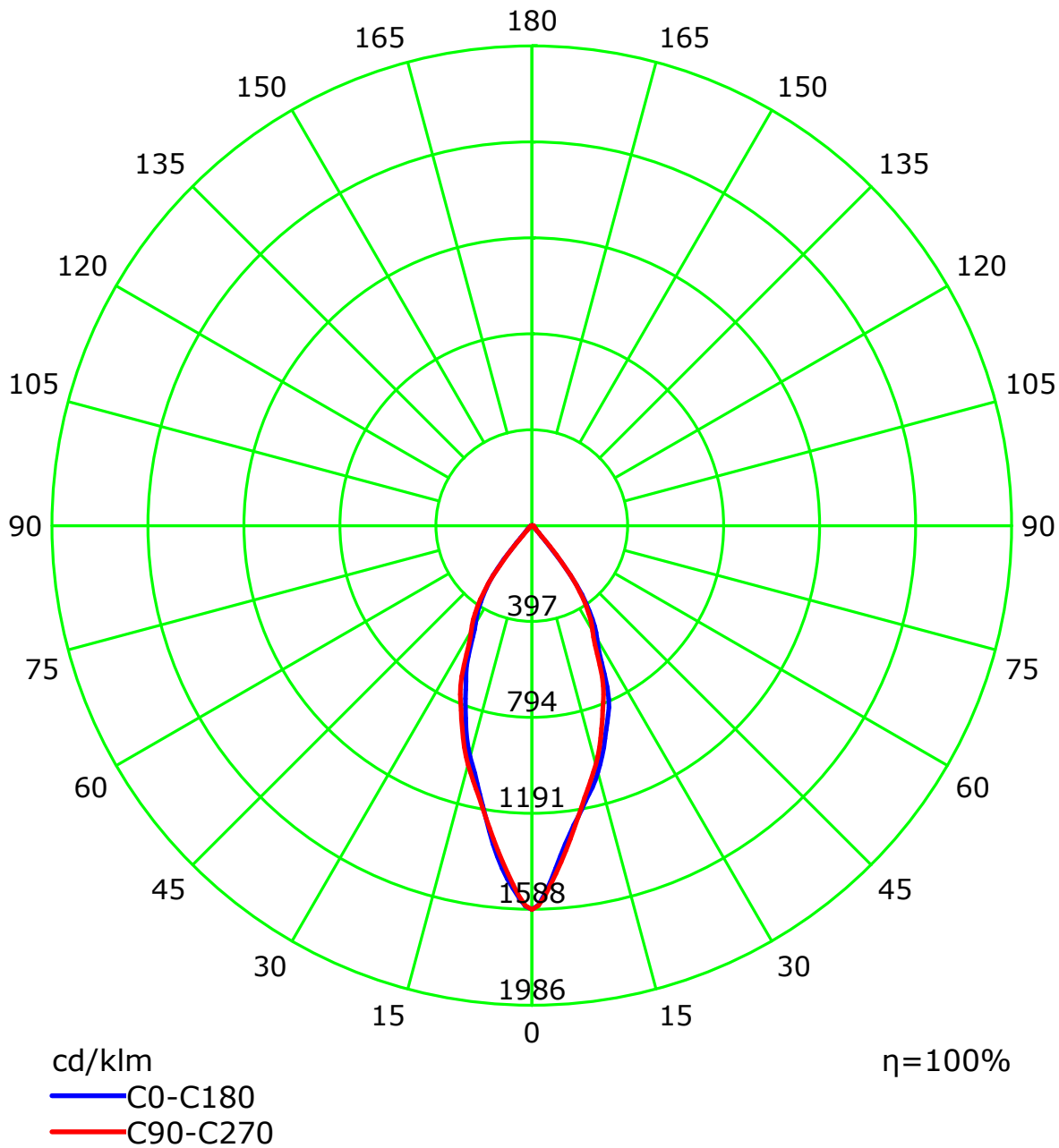


Unit: cd

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: 3.030 m
Humidity:
Inspector:

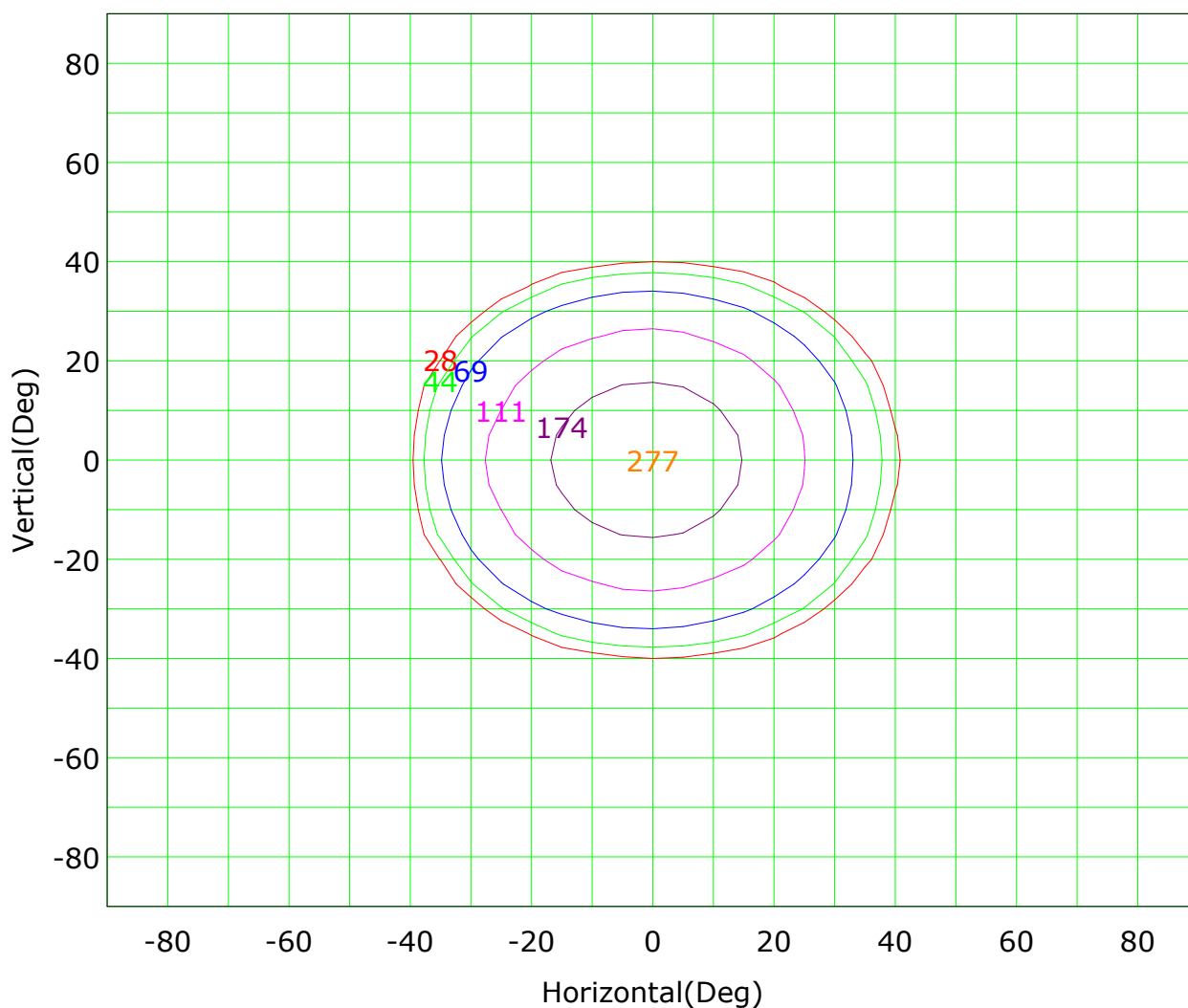
Luminous Intensity Distribution Curve(cd/klm)



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: 3.030 m
Humidity:
Inspector:

Isocandela (rectangle)



Imax (100%): 277 cd

(10%):	28 cd	(16%):	44 cd
(25%):	69 cd	(40%):	111 cd
(63%):	174 cd	(100%):	277 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

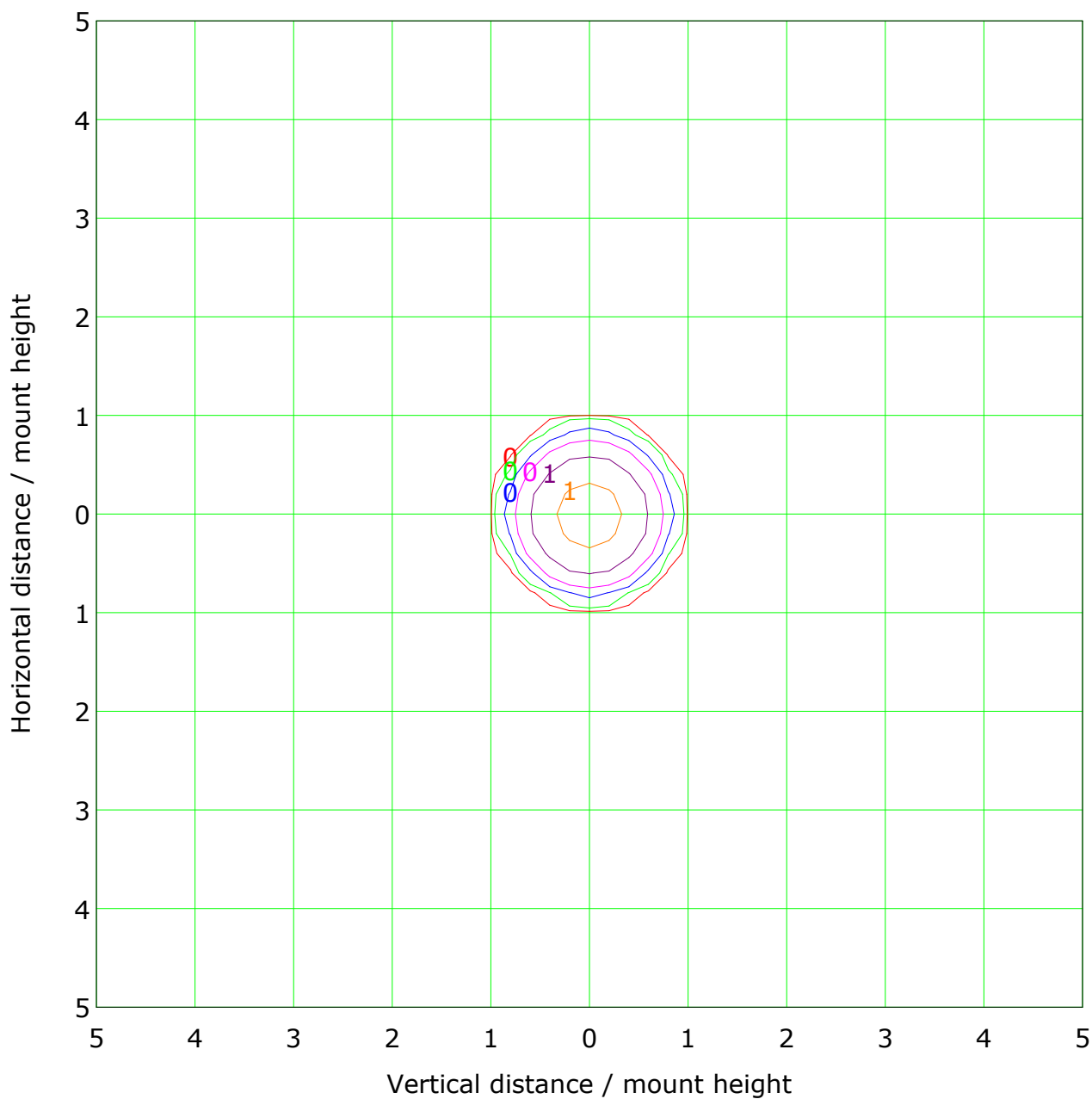
Test Device: CHL-6E

Distance: 3.030 m

Humidity:

Inspector:

IsoLux Plot



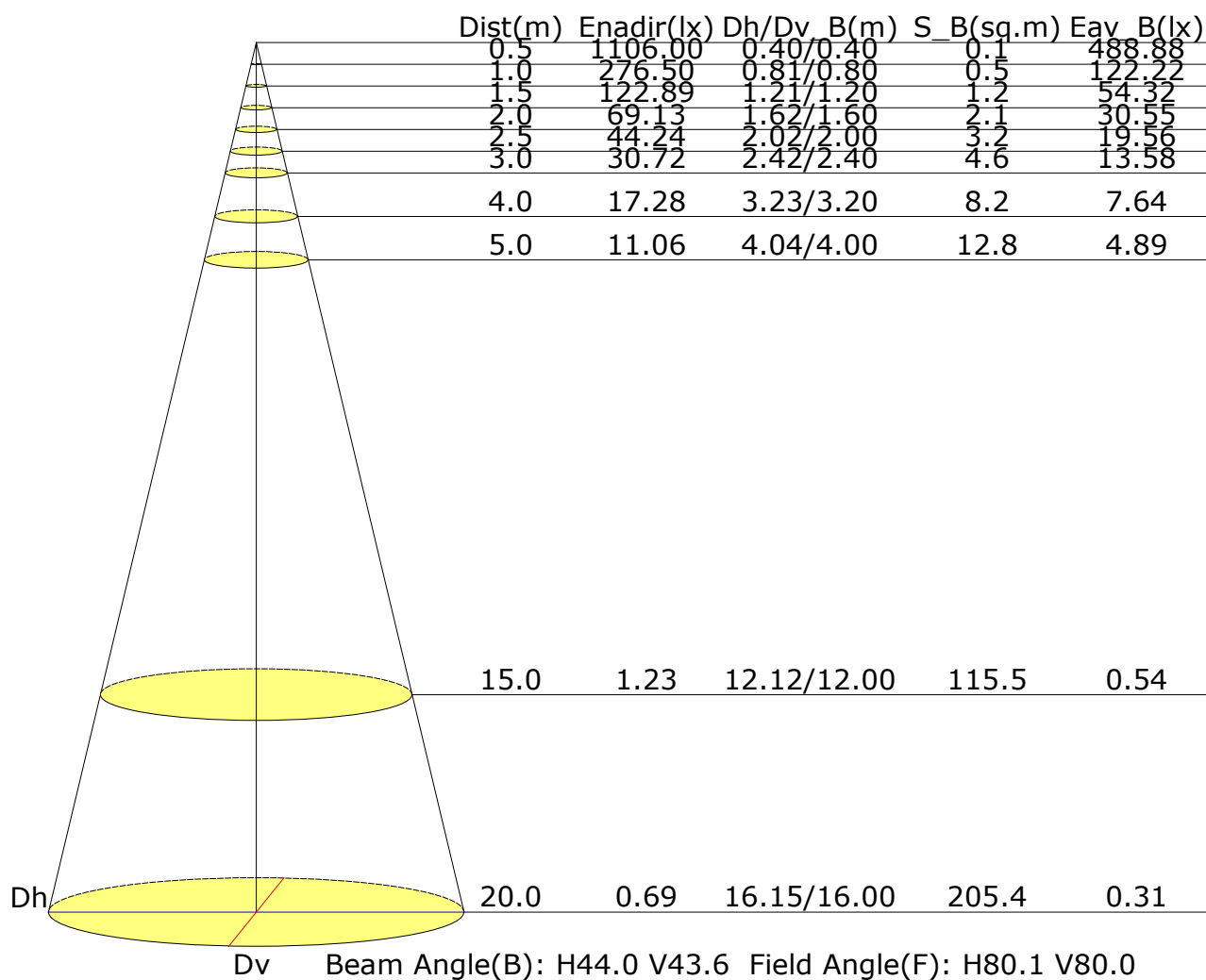
Mounting Height: 10.0m Max Lux(100%): 2.8 lx

— (1%): 0.0 lx	— (2%): 0.1 lx
— (5%): 0.1 lx	— (10%): 0.3 lx
— (20%): 0.6 lx	— (50%): 1.4 lx
— (100%): 2.8 lx	

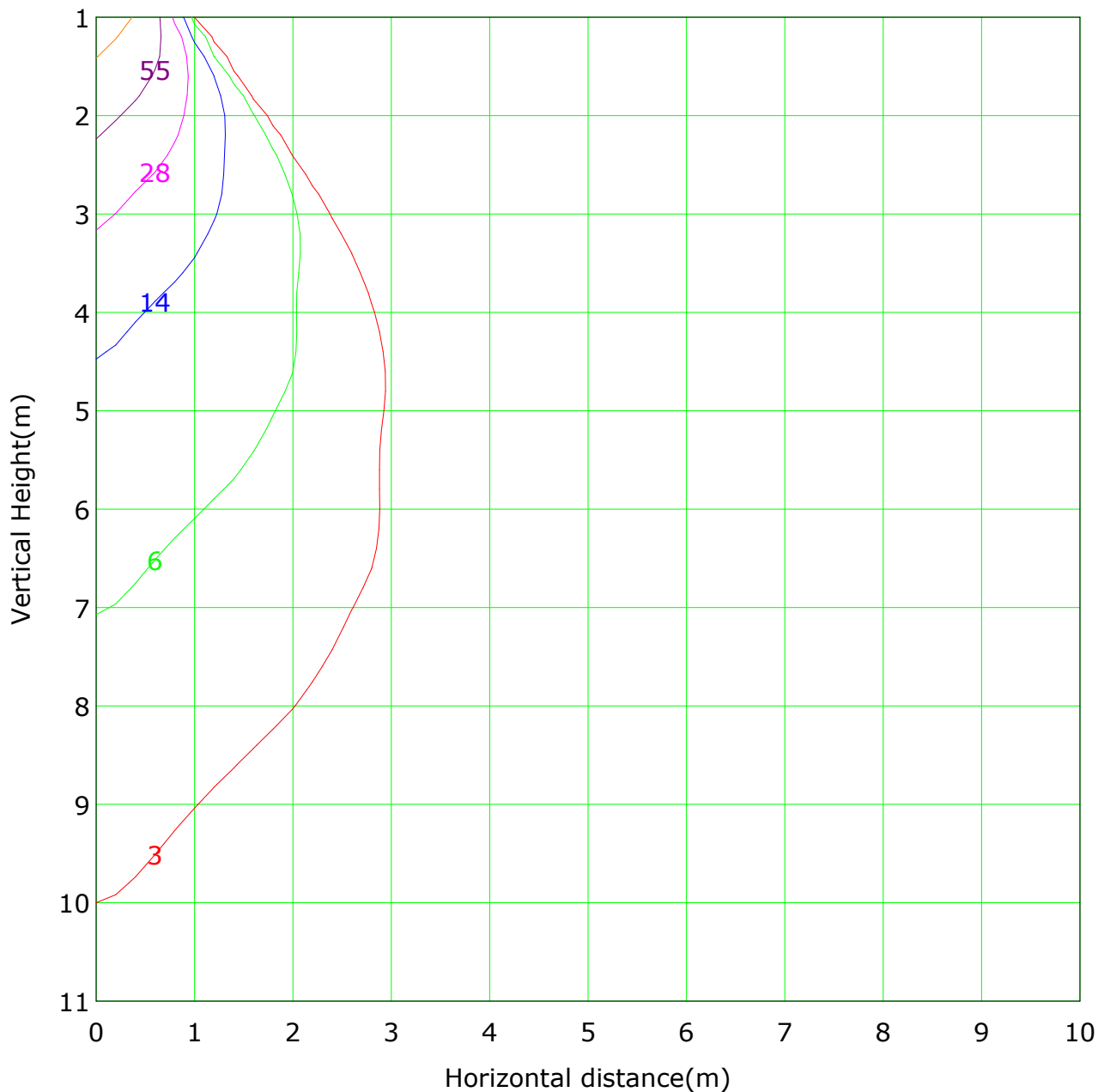
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 m
Humidity:
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 276.5 lx

(1%): 2.8 lx	(2%): 5.5 lx
(5%): 13.8 lx	(10%): 27.6 lx
(20%): 55.3 lx	(50%): 138.3 lx
(100%): 276.5 lx	

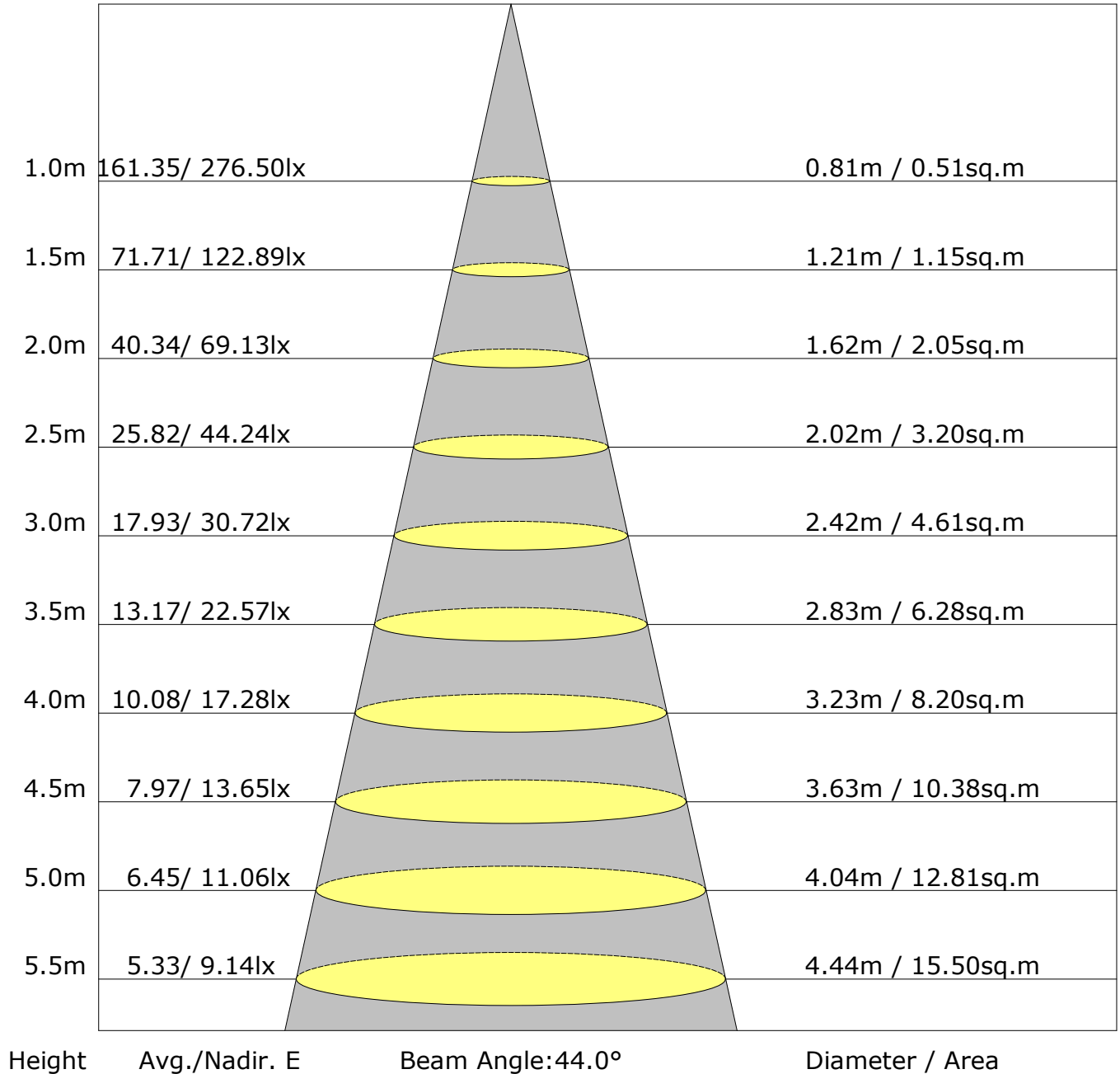
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 m
Humidity:
Inspector:

The Average Illuminance Effective Figure

Flux Out: 82.67lm



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: 3.030 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	17.3	18.2	17.6	18.4	18.6	17.2	18.0	17.4	18.2	18.4
3H	17.2	17.9	17.5	18.2	18.4	17.0	17.8	17.3	18.0	18.3
4H	17.1	17.8	17.4	18.1	18.4	17.0	17.7	17.3	17.9	18.2
6H	17.0	17.7	17.4	18.0	18.3	16.9	17.6	17.2	17.8	18.1
8H	17.0	17.6	17.3	17.9	18.2	16.9	17.5	17.2	17.8	18.1
12H	17.0	17.6	17.3	17.9	18.2	16.8	17.4	17.2	17.7	18.1
X=4H Y=2H	17.1	17.8	17.4	18.1	18.3	17.0	17.7	17.3	17.9	18.2
3H	17.0	17.6	17.3	17.9	18.2	16.8	17.4	17.2	17.7	18.1
4H	16.9	17.4	17.3	17.8	18.1	16.7	17.3	17.1	17.6	18.0
6H	16.8	17.3	17.2	17.7	18.1	16.7	17.1	17.1	17.5	17.9
8H	16.8	17.2	17.2	17.6	18.0	16.6	17.1	17.1	17.5	17.9
12H	16.7	17.1	17.2	17.5	18.0	16.6	17.0	17.0	17.4	17.8
X=8H Y=4H	16.8	17.2	17.2	17.6	18.0	16.6	17.1	17.0	17.4	17.9
6H	16.7	17.0	17.1	17.5	17.9	16.5	16.9	17.0	17.3	17.8
8H	16.7	17.0	17.1	17.4	17.9	16.5	16.8	17.0	17.3	17.7
12H	16.6	16.9	17.1	17.4	17.9	16.5	16.7	17.0	17.2	17.7
X=12H Y=4H	16.7	17.1	17.2	17.5	18.0	16.6	17.0	17.0	17.4	17.8
6H	16.6	17.0	17.1	17.4	17.9	16.5	16.8	17.0	17.3	17.7
8H	16.6	16.9	17.1	17.3	17.8	16.5	16.7	17.0	17.2	17.7
Variations with the observer position at spacings:										
S=1.0H	+5.4/-11.8					+5.2/-11.3				
S=1.5H	+8.2/-13.7					+8.0/-13.4				
S=2.0H	+10.2/-14.7					+10.0/-14.6				

Calculate in accordance with CIE Pub.117. The table is revised with 174Im ($8\log(F/F_0) = -6.1$).

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: 3.030 m
Humidity:
Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	88	50.7
	FL (0°-30°)	64	36.7
	FM (30°-60°)	24	13.6
	FH (60°-80°)	1	0.3
	FVH (80°-90°)	0	0.1
	BACK LIGHT	86	49.3
	BL (0°-30°)	61	35.3
	BM (30°-60°)	24	13.6
	BH (60°-80°)	1	0.3
	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: 3.030 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	275.1	0.3	0.3	0.15	0.15
1.0-2.0	270.4	0.8	1.0	0.45	0.60
2.0-3.0	263.1	1.3	2.3	0.72	1.32
3.0-4.0	255.2	1.7	4.0	0.98	2.30
4.0-5.0	247.2	2.1	6.1	1.22	3.52
5.0-6.0	239.2	2.5	8.6	1.44	4.97
6.0-7.0	231.4	2.9	11.5	1.65	6.62
7.0-8.0	223.7	3.2	14.7	1.84	8.46
8.0-9.0	216.3	3.5	18.2	2.01	10.48
9.0-10.0	209.3	3.8	22.0	2.18	12.65
10.0-11.0	202.8	4.1	26.1	2.33	14.98
11.0-12.0	196.8	4.3	30.4	2.47	17.45
12.0-13.0	191.2	4.5	34.9	2.61	20.06
13.0-14.0	185.9	4.8	39.7	2.74	22.80
14.0-15.0	180.8	5.0	44.6	2.85	25.65
15.0-16.0	175.5	5.1	49.8	2.96	28.61
16.0-17.0	169.9	5.3	55.1	3.04	31.65
17.0-18.0	163.9	5.4	60.5	3.11	34.75
18.0-19.0	157.7	5.5	66.0	3.15	37.91
19.0-20.0	151.5	5.5	71.5	3.19	41.09
20.0-21.0	145.5	5.6	77.1	3.21	44.30
21.0-22.0	139.9	5.6	82.7	3.23	47.54
22.0-23.0	134.6	5.7	88.4	3.25	50.78
23.0-24.0	129.4	5.7	94.0	3.25	54.03
24.0-25.0	123.3	5.6	99.6	3.22	57.26
25.0-26.0	116.0	5.5	105.1	3.15	60.40
26.0-27.0	108.0	5.3	110.4	3.04	63.44
27.0-28.0	100.5	5.1	115.5	2.92	66.36
28.0-29.0	94.5	4.9	120.4	2.84	69.20
29.0-30.0	89.8	4.8	125.3	2.79	71.99
30.0-31.0	85.8	4.8	130.1	2.75	74.74
31.0-32.0	81.9	4.7	134.7	2.70	77.43
32.0-33.0	77.6	4.6	139.3	2.63	80.06
33.0-34.0	72.8	4.4	143.7	2.53	82.59
34.0-35.0	67.5	4.2	147.9	2.41	85.00
35.0-36.0	61.9	3.9	151.9	2.26	87.27

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: 3.030 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	55.8	3.6	155.5	2.09	89.36
37.0-38.0	49.0	3.3	158.8	1.88	91.24
38.0-39.0	41.1	2.8	161.6	1.61	92.85
39.0-40.0	32.2	2.2	163.8	1.29	94.14
40.0-41.0	23.6	1.7	165.5	0.97	95.10
41.0-42.0	16.7	1.2	166.7	0.70	95.80
42.0-43.0	12.0	0.9	167.6	0.51	96.31
43.0-44.0	9.0	0.7	168.3	0.39	96.70
44.0-45.0	7.0	0.5	168.8	0.31	97.01
45.0-46.0	5.8	0.5	169.3	0.26	97.27
46.0-47.0	5.1	0.4	169.7	0.23	97.51
47.0-48.0	4.5	0.4	170.0	0.21	97.71
48.0-49.0	4.1	0.3	170.4	0.19	97.91
49.0-50.0	3.6	0.3	170.7	0.17	98.08
50.0-51.0	3.3	0.3	171.0	0.16	98.24
51.0-52.0	2.9	0.3	171.2	0.14	98.38
52.0-53.0	2.7	0.2	171.4	0.13	98.52
53.0-54.0	2.4	0.2	171.6	0.12	98.64
54.0-55.0	2.2	0.2	171.8	0.11	98.75
55.0-56.0	2.0	0.2	172.0	0.10	98.85
56.0-57.0	1.8	0.2	172.2	0.09	98.95
57.0-58.0	1.6	0.1	172.3	0.08	99.03
58.0-59.0	1.4	0.1	172.5	0.07	99.10
59.0-60.0	1.2	0.1	172.6	0.07	99.17
60.0-61.0	1.1	0.1	172.7	0.06	99.23
61.0-62.0	1.0	0.1	172.8	0.05	99.28
62.0-63.0	0.9	0.1	172.9	0.05	99.33
63.0-64.0	0.8	0.1	172.9	0.05	99.38
64.0-65.0	0.7	0.1	173.0	0.04	99.42
65.0-66.0	0.7	0.1	173.1	0.04	99.46
66.0-67.0	0.6	0.1	173.1	0.04	99.49
67.0-68.0	0.6	0.1	173.2	0.03	99.53
68.0-69.0	0.6	0.1	173.3	0.03	99.56
69.0-70.0	0.5	0.1	173.3	0.03	99.59
70.0-71.0	0.5	0.1	173.4	0.03	99.62
71.0-72.0	0.5	0.0	173.4	0.03	99.65

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 m
Humidity:
Inspector:

Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 m
Humidity:
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	276.5	276.5								
G1.0	273.3	274.2								
G2.0	265.8	268.3								
G3.0	256.7	261.7								
G4.0	247.4	255.1								
G5.0	238.6	247.8								
G6.0	230.9	239.6								
G7.0	223.9	231.0								
G8.0	217.9	221.9								
G9.0	212.5	212.9								
G10.0	207.5	204.5								
G11.0	202.4	197.0								
G12.0	197.8	190.0								
G13.0	193.8	183.3								
G14.0	189.3	177.4								
G15.0	184.1	172.3								
G16.0	178.8	166.9								
G17.0	173.4	160.5								
G18.0	167.9	153.7								
G19.0	162.3	146.9								
G20.0	156.7	140.2								
G21.0	151.6	133.6								
G22.0	147.0	127.4								
G23.0	142.2	121.9								
G24.0	136.4	116.9								
G25.0	128.4	111.4								
G26.0	119.2	104.9								
G27.0	110.5	97.3								
G28.0	103.6	90.6								
G29.0	98.2	85.5								
G30.0	94.0	81.5								
G31.0	89.9	77.9								
G32.0	85.4	74.3								
G33.0	80.3	70.4								
G34.0	74.5	66.0								
G35.0	68.3	61.2								
G36.0	61.6	56.3								

C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
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Gamma Plane (°):0.0-90.0:1.0
Test Device: CHL-6E
Distance: 3.030 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	54.1	51.2								
G38.0	45.2	45.6								
G39.0	34.1	39.3								
G40.0	23.6	31.7								
G41.0	15.6	23.6								
G42.0	10.7	16.9								
G43.0	8.0	12.3								
G44.0	6.3	9.3								
G45.0	5.2	7.4								
G46.0	4.6	6.2								
G47.0	4.1	5.4								
G48.0	3.7	4.9								
G49.0	3.3	4.4								
G50.0	3.0	3.9								
G51.0	2.6	3.5								
G52.0	2.4	3.2								
G53.0	2.2	2.8								
G54.0	2.0	2.5								
G55.0	1.8	2.3								
G56.0	1.6	2.1								
G57.0	1.4	1.9								
G58.0	1.2	1.7								
G59.0	1.1	1.5								
G60.0	1.0	1.3								
G61.0	0.9	1.1								
G62.0	0.9	1.0								
G63.0	0.8	0.9								
G64.0	0.7	0.8								
G65.0	0.7	0.8								
G66.0	0.6	0.7								
G67.0	0.6	0.6								
G68.0	0.6	0.6								
G69.0	0.5	0.6								
G70.0	0.5	0.5								
G71.0	0.5	0.5								
G72.0	0.4	0.4								
G73.0	0.4	0.4								

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: 3.030 m
Humidity:
Inspector:

Unit: cd

[illegible]

Inspector: