

Report No.:

Test Time: 2026-09-22 18:26

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MODU-84 36D

Luminous Length (mm): -77

Voltage: 225.2 V

Power: 28.00 W

Lamp Description: BLX V13C F90 3000K

Luminous Width (mm): -77

Current: 0.127 A

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Measurement Flux: 3384.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H33

Vertical Diffuse Angle(50%): V33

Luminaire Efficacy Rating (LER): 120.92

Max. Intensity: 10306.33 cd

S/MH(C0/C180): 0.55

Total Rated Lamp Lumens: 3384.5 lm

Efficiency: 100%

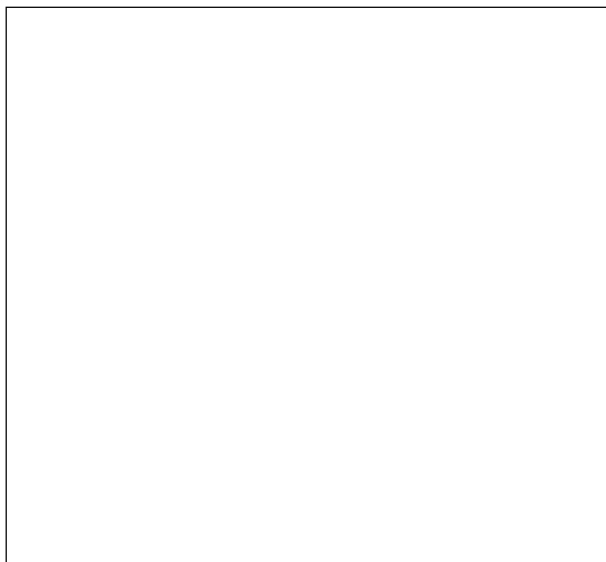
Upward Ratio: 0%

Central Intensity: 10286.72 cd

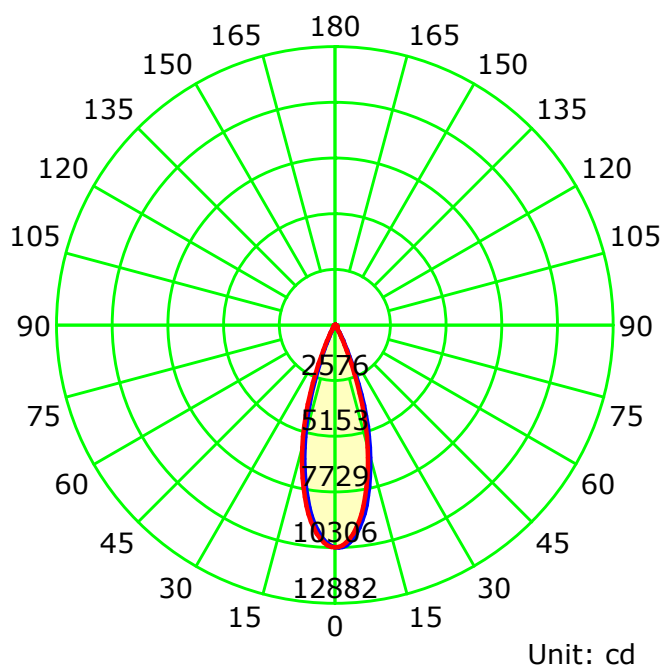
Pos of Max. Intensity: H0 V1

S/MH(C90/C270): 0.55

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

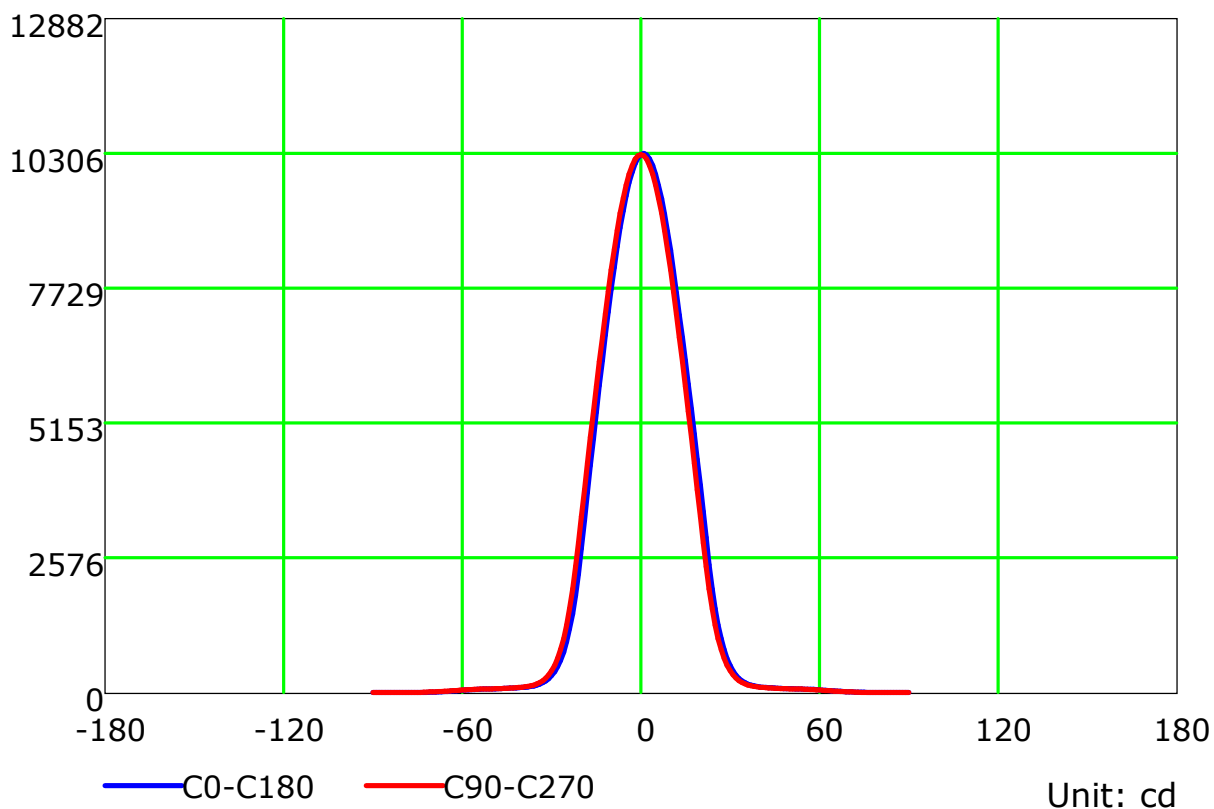
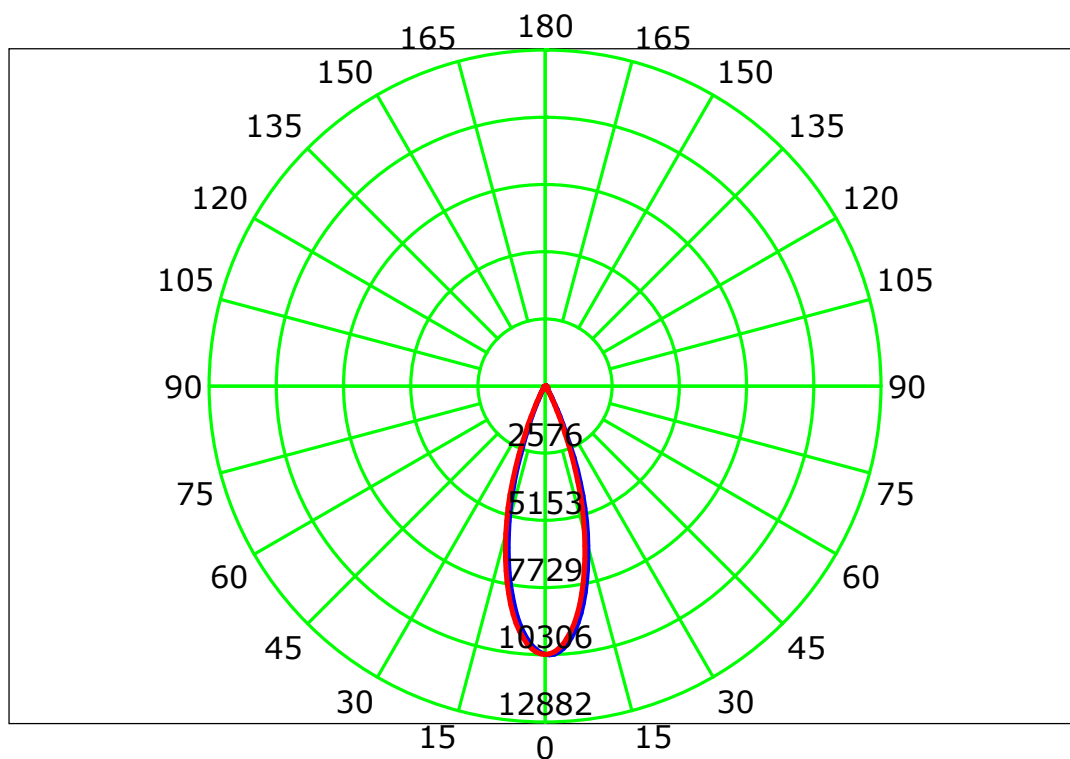
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

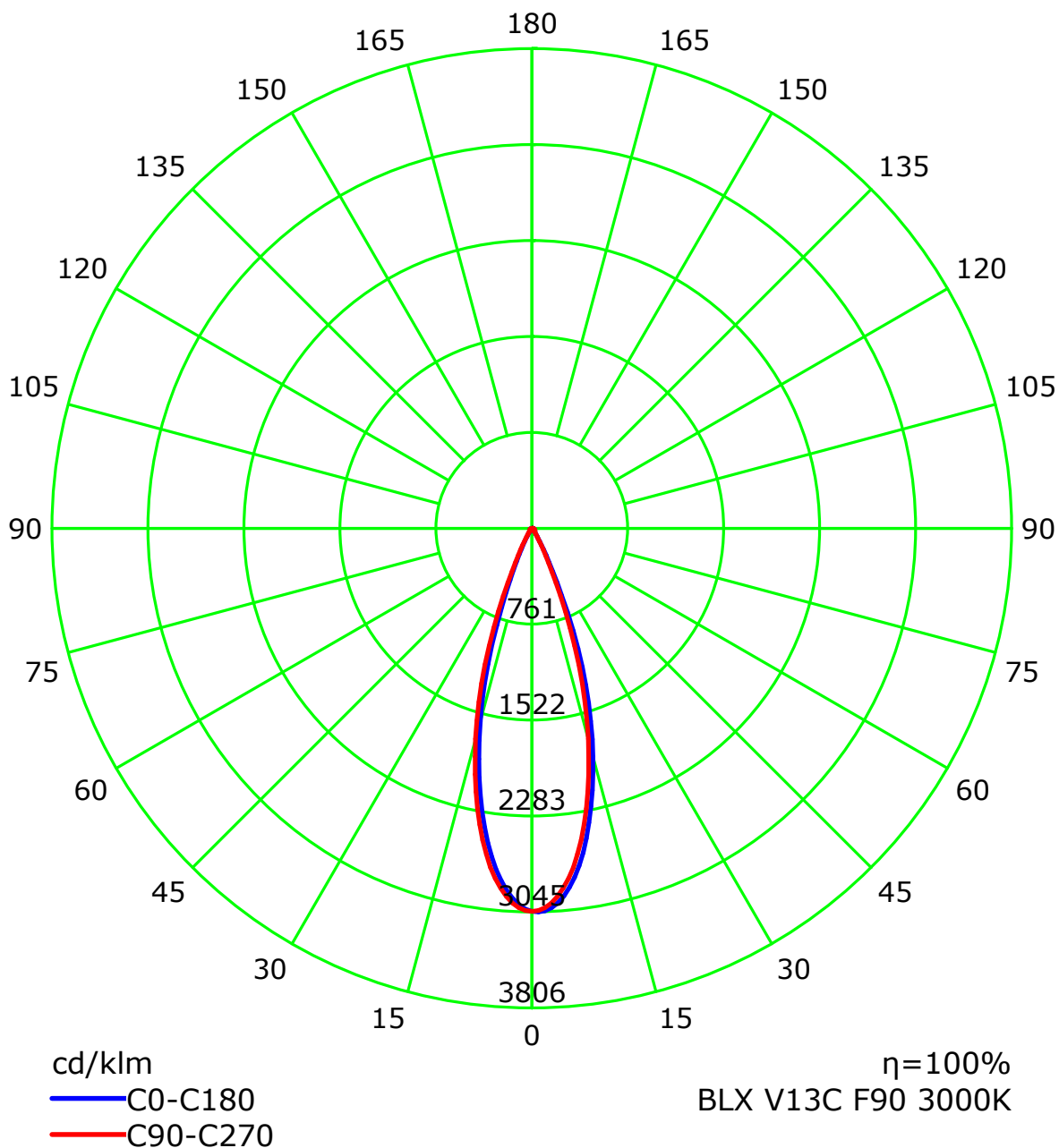
Luminous Intensity Distribution Curve



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:

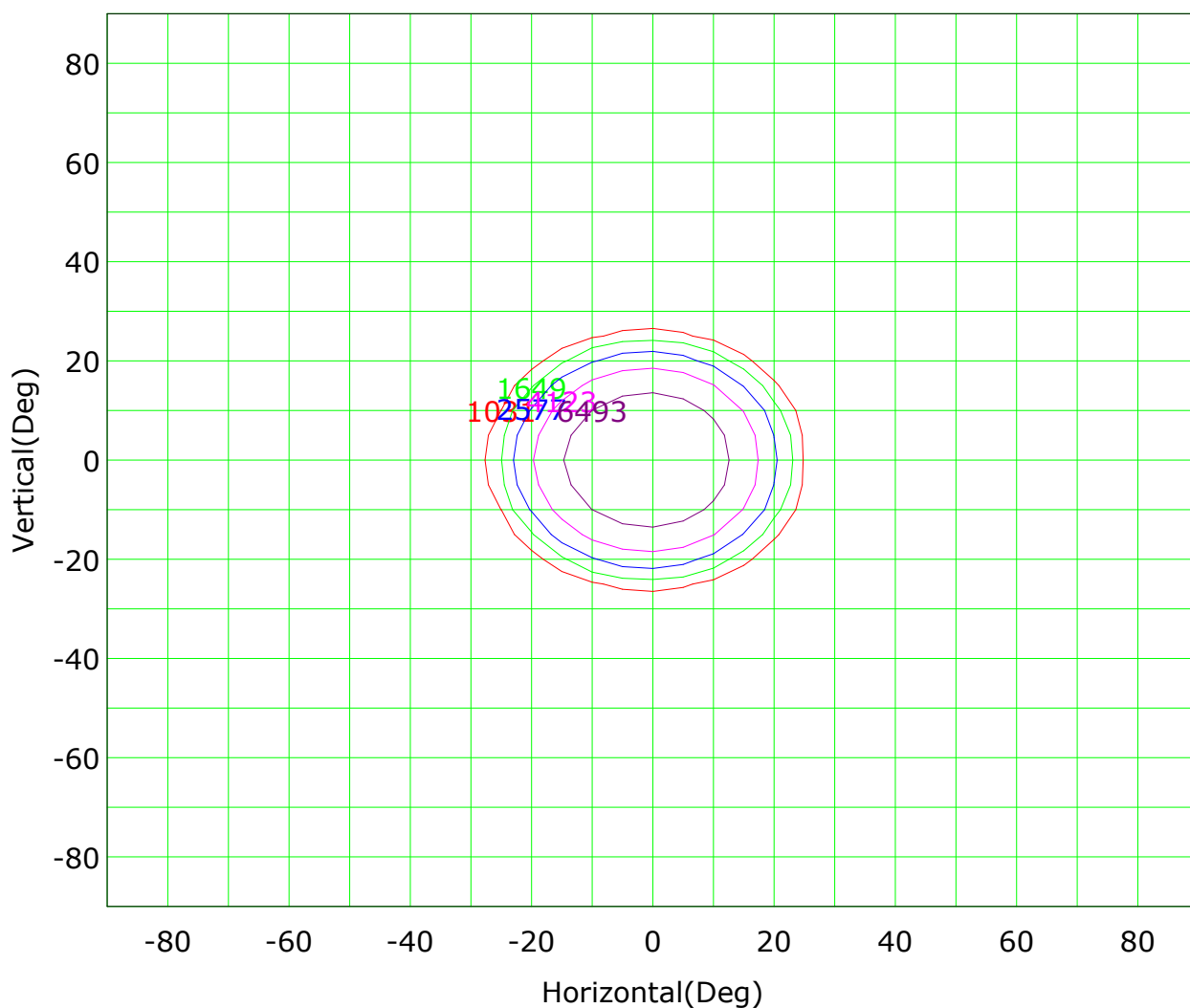
Luminous Intensity Distribution Curve(cd/klm)



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)



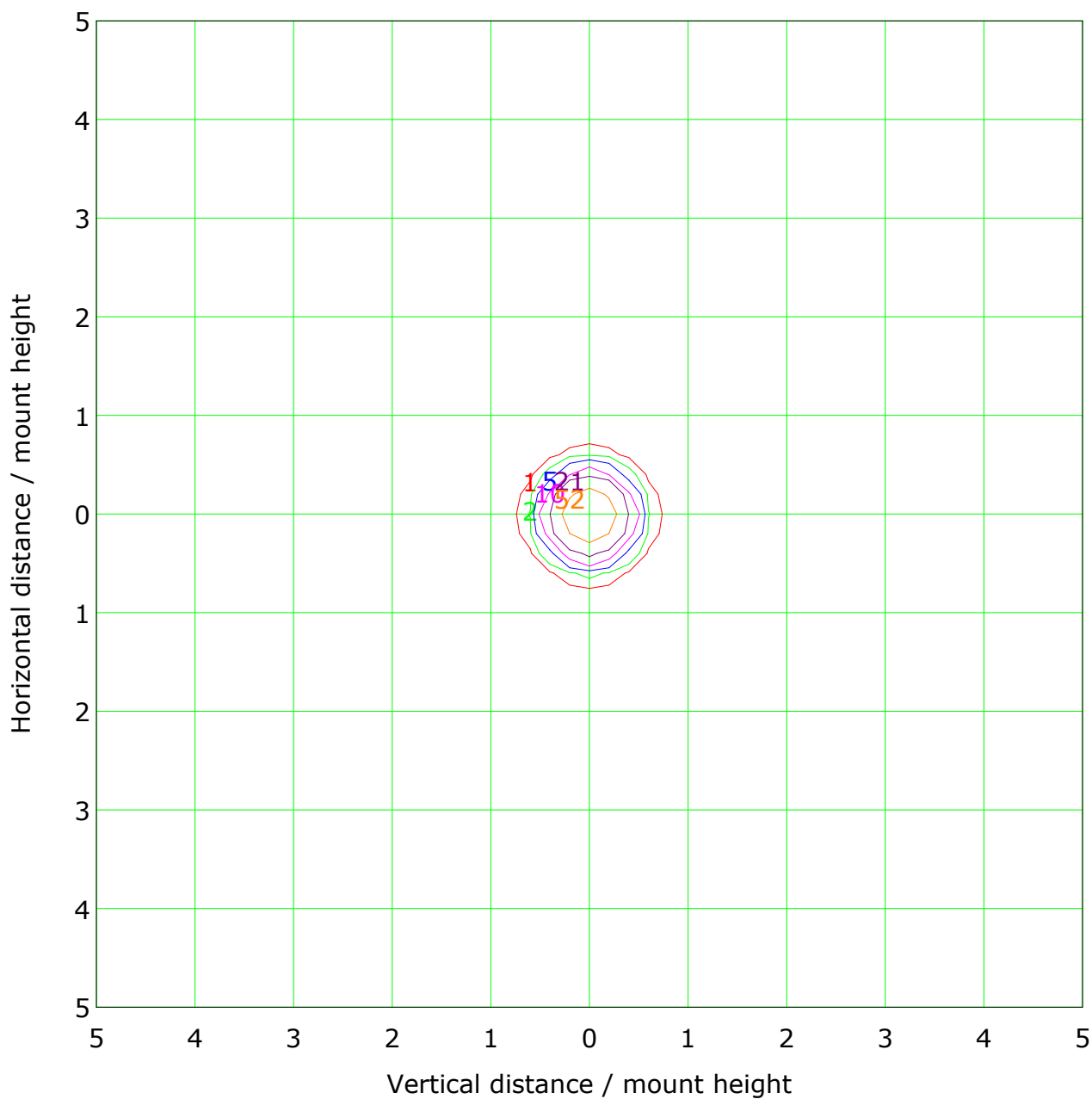
Imax (100%): 10306 cd

(10%): 1031 cd	(16%): 1649 cd
(25%): 2577 cd	(40%): 4123 cd
(63%): 6493 cd	(100%): 10306 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



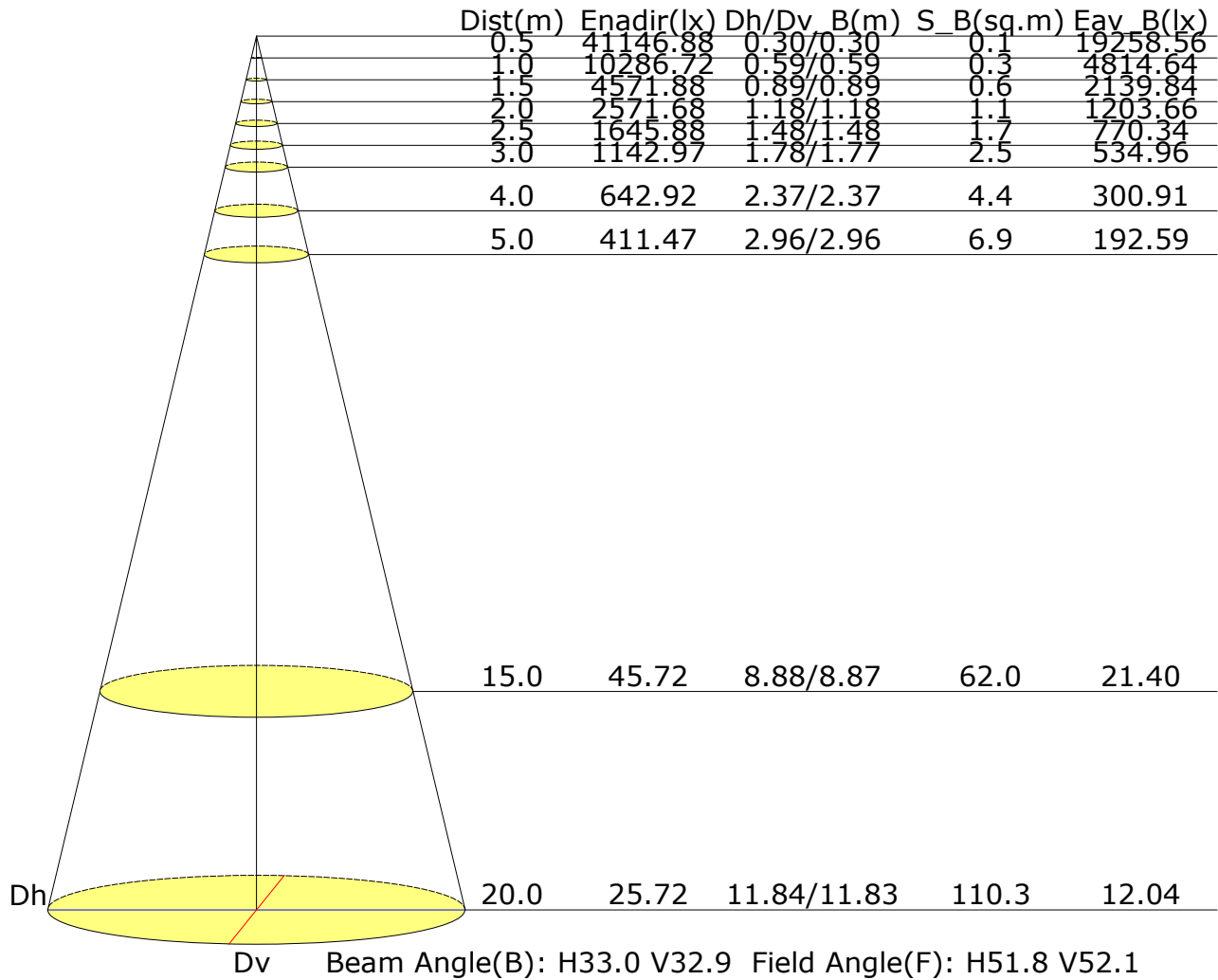
Mounting Height: 10.0m Max Lux(100%): 103.0 lx

(1%): 1.0 lx	(2%): 2.1 lx
(5%): 5.2 lx	(10%): 10.3 lx
(20%): 20.6 lx	(50%): 51.5 lx
(100%): 103.0 lx	

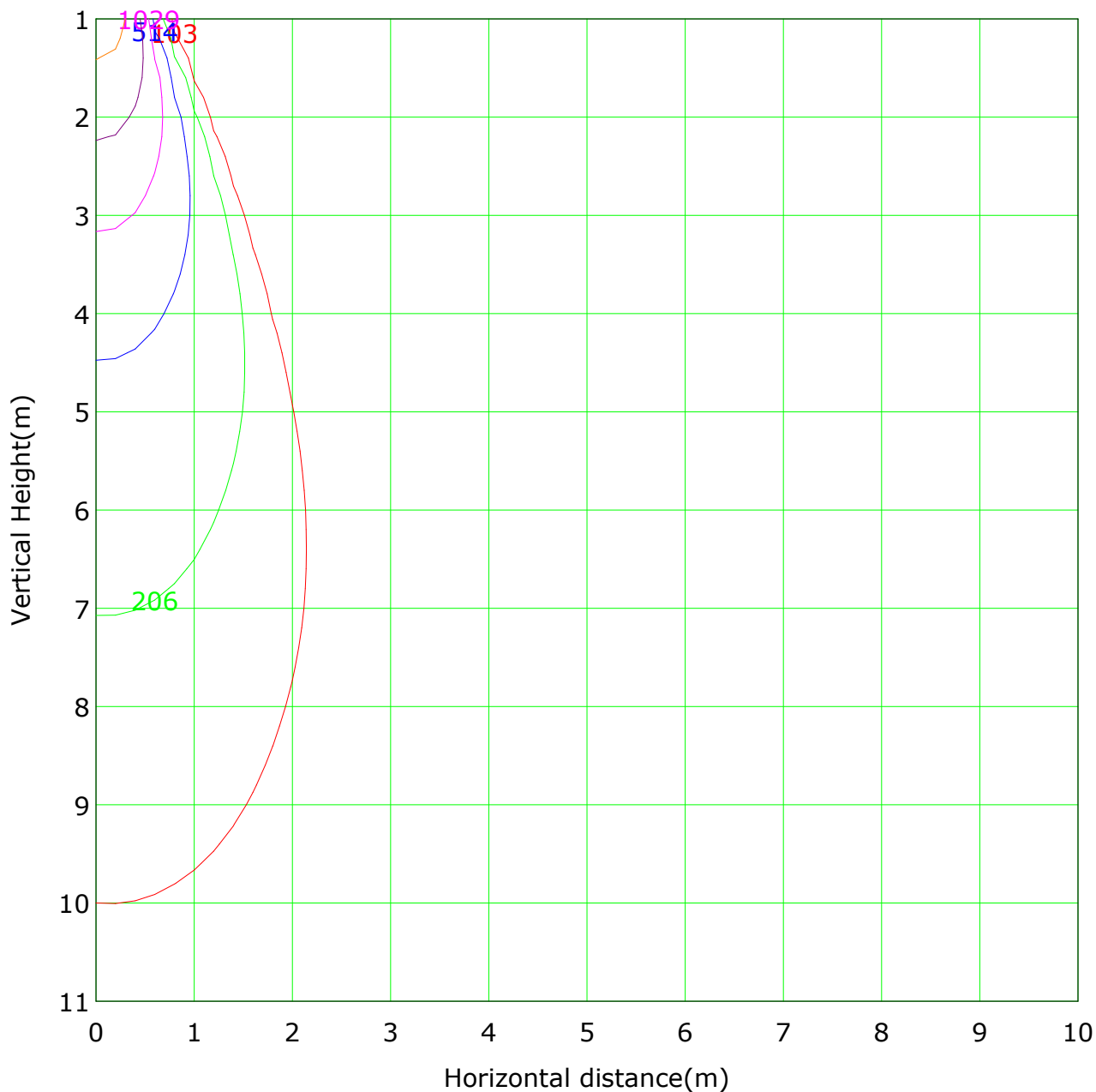
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Illuminance at a Distance



Vertical IsoLux Plot



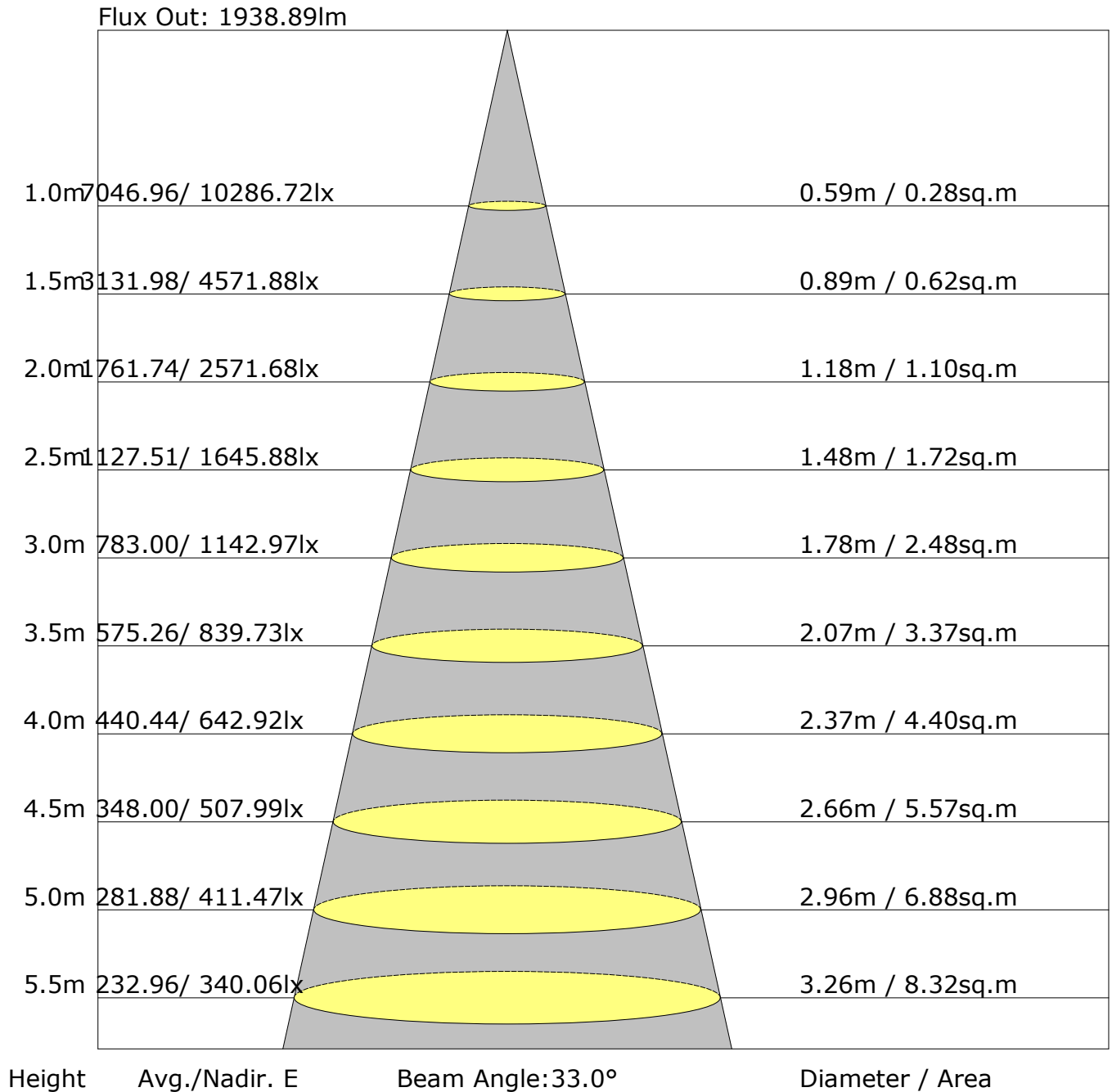
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 10286.7 lx
— (1%): 102.9 lx — (2%): 205.7 lx
— (5%): 514.3 lx — (10%): 1028.7 lx
— (20%): 2057.3 lx — (50%): 5143.4 lx
— (100%): 10286.7 lx

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



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	16.5	17.2	16.8	17.4	17.6	16.2	16.9	16.5	17.1	17.3
3H	17.0	17.6	17.3	17.9	18.1	16.6	17.2	16.9	17.5	17.7
4H	17.1	17.6	17.4	17.9	18.1	16.6	17.2	16.9	17.4	17.7
6H	17.0	17.5	17.3	17.8	18.1	16.5	17.1	16.9	17.4	17.6
8H	16.9	17.5	17.3	17.8	18.1	16.5	17.0	16.8	17.3	17.6
12H	16.9	17.4	17.3	17.7	18.0	16.5	17.0	16.8	17.3	17.6
X=4H Y=2H	16.9	17.5	17.2	17.7	18.0	16.6	17.2	16.9	17.4	17.7
3H	17.4	17.9	17.7	18.2	18.5	17.0	17.5	17.4	17.8	18.2
4H	17.4	17.9	17.8	18.2	18.6	17.0	17.5	17.4	17.8	18.2
6H	17.4	17.7	17.8	18.1	18.5	17.0	17.3	17.4	17.7	18.1
8H	17.3	17.7	17.7	18.1	18.5	16.9	17.3	17.3	17.7	18.1
12H	17.3	17.6	17.7	18.0	18.4	16.9	17.2	17.3	17.6	18.0
X=8H Y=4H	17.3	17.7	17.8	18.1	18.5	17.0	17.3	17.4	17.7	18.1
6H	17.3	17.5	17.7	18.0	18.4	16.9	17.2	17.3	17.6	18.0
8H	17.2	17.5	17.7	17.9	18.4	16.8	17.1	17.3	17.5	18.0
12H	17.2	17.4	17.6	17.8	18.3	16.8	17.0	17.3	17.5	18.0
X=12H Y=4H	17.3	17.6	17.7	18.0	18.5	16.9	17.2	17.3	17.6	18.1
6H	17.2	17.5	17.7	17.9	18.4	16.8	17.1	17.3	17.5	18.0
8H	17.2	17.4	17.6	17.8	18.3	16.8	17.0	17.3	17.5	18.0
Variations with the observer position at spacings:										
S=1.0H	+1.5/-0.7					+1.2/-0.6				
S=1.5H	+2.8/-1.2					+2.3/-1.5				
S=2.0H	+4.0/-4.2					+3.5/-4.3				

Calculate in accordance with CIE Pub.117. The table is revised with 3384lm ($8\log(F/F_0) = 4.2$).

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	1779	52.5
	FL (0°-30°)	1632	48.2
	FM (30°-60°)	128	3.8
	FH (60°-80°)	19	0.6
	FVH (80°-90°)	0	0.0
	BACK LIGHT	1606	47.5
	BL (0°-30°)	1474	43.5
	BM (30°-60°)	116	3.4
	BH (60°-80°)	16	0.5
	BVH (80°-90°)	0	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)	B3 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B3 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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	10276.2	9.8	9.8	0.29	0.29
1.0-2.0	10230.9	29.4	39.2	0.87	1.16
2.0-3.0	10137.8	48.5	87.7	1.43	2.59
3.0-4.0	9996.9	66.9	154.6	1.98	4.57
4.0-5.0	9808.8	84.4	239.0	2.49	7.06
5.0-6.0	9578.9	100.7	339.7	2.97	10.04
6.0-7.0	9310.9	115.6	455.3	3.42	13.45
7.0-8.0	9001.4	128.8	584.1	3.81	17.26
8.0-9.0	8654.3	140.3	724.4	4.14	21.40
9.0-10.0	8277.4	149.8	874.2	4.43	25.83
10.0-11.0	7874.5	157.4	1031.6	4.65	30.48
11.0-12.0	7452.7	162.9	1194.5	4.81	35.29
12.0-13.0	7012.9	166.4	1361.0	4.92	40.21
13.0-14.0	6556.4	167.8	1528.8	4.96	45.17
14.0-15.0	6090.9	167.2	1696.0	4.94	50.11
15.0-16.0	5616.0	164.6	1860.6	4.86	54.98
16.0-17.0	5128.3	159.7	2020.3	4.72	59.69
17.0-18.0	4633.4	152.8	2173.1	4.51	64.21
18.0-19.0	4130.6	143.7	2316.9	4.25	68.46
19.0-20.0	3618.0	132.4	2449.3	3.91	72.37
20.0-21.0	3112.2	119.5	2568.8	3.53	75.90
21.0-22.0	2636.5	106.0	2674.8	3.13	79.03
22.0-23.0	2193.3	92.0	2766.8	2.72	81.75
23.0-24.0	1788.8	78.2	2845.1	2.31	84.06
24.0-25.0	1445.5	65.7	2910.8	1.94	86.00
25.0-26.0	1162.4	54.9	2965.7	1.62	87.63
26.0-27.0	929.5	45.5	3011.1	1.34	88.97
27.0-28.0	741.4	37.5	3048.7	1.11	90.08
28.0-29.0	591.8	31.0	3079.6	0.91	90.99
29.0-30.0	473.4	25.6	3105.2	0.76	91.75
30.0-31.0	380.7	21.2	3126.4	0.63	92.37
31.0-32.0	309.4	17.7	3144.1	0.52	92.90
32.0-33.0	254.8	15.0	3159.1	0.44	93.34
33.0-34.0	212.2	12.8	3172.0	0.38	93.72
34.0-35.0	180.5	11.2	3183.2	0.33	94.05
35.0-36.0	156.4	10.0	3193.2	0.29	94.35

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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	139.1	9.1	3202.2	0.27	94.61
37.0-38.0	126.3	8.4	3210.7	0.25	94.86
38.0-39.0	115.7	7.9	3218.6	0.23	95.10
39.0-40.0	107.4	7.5	3226.1	0.22	95.32
40.0-41.0	101.0	7.2	3233.2	0.21	95.53
41.0-42.0	96.5	7.0	3240.3	0.21	95.74
42.0-43.0	92.7	6.9	3247.1	0.20	95.94
43.0-44.0	90.1	6.8	3253.9	0.20	96.14
44.0-45.0	87.1	6.7	3260.6	0.20	96.34
45.0-46.0	83.7	6.5	3267.2	0.19	96.53
46.0-47.0	80.3	6.4	3273.5	0.19	96.72
47.0-48.0	77.6	6.3	3279.8	0.19	96.91
48.0-49.0	75.8	6.2	3286.0	0.18	97.09
49.0-50.0	73.9	6.2	3292.2	0.18	97.27
50.0-51.0	72.7	6.2	3298.4	0.18	97.46
51.0-52.0	72.0	6.2	3304.5	0.18	97.64
52.0-53.0	71.2	6.2	3310.7	0.18	97.82
53.0-54.0	69.4	6.1	3316.9	0.18	98.00
54.0-55.0	66.3	5.9	3322.8	0.17	98.18
55.0-56.0	63.3	5.7	3328.5	0.17	98.35
56.0-57.0	61.4	5.6	3334.1	0.17	98.51
57.0-58.0	58.8	5.4	3339.6	0.16	98.67
58.0-59.0	55.0	5.1	3344.7	0.15	98.82
59.0-60.0	51.6	4.9	3349.6	0.14	98.97
60.0-61.0	47.5	4.5	3354.1	0.13	99.10
61.0-62.0	43.3	4.2	3358.3	0.12	99.23
62.0-63.0	39.2	3.8	3362.1	0.11	99.34
63.0-64.0	34.3	3.4	3365.5	0.10	99.44
64.0-65.0	30.9	3.1	3368.5	0.09	99.53
65.0-66.0	28.3	2.8	3371.3	0.08	99.61
66.0-67.0	24.1	2.4	3373.8	0.07	99.68
67.0-68.0	20.4	2.1	3375.8	0.06	99.74
68.0-69.0	16.6	1.7	3377.5	0.05	99.79
69.0-70.0	13.6	1.4	3378.9	0.04	99.84
70.0-71.0	12.8	1.3	3380.2	0.04	99.87
71.0-72.0	10.6	1.1	3381.3	0.03	99.91

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: 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	10286.7	10286.7								
G1.0	10306.3	10224.9								
G2.0	10279.2	10113.3								
G3.0	10202.3	9956.5								
G4.0	10077.2	9751.5								
G5.0	9906.8	9499.7								
G6.0	9692.7	9216.3								
G7.0	9442.4	8892.1								
G8.0	9145.4	8525.8								
G9.0	8818.3	8127.8								
G10.0	8453.4	7710.1								
G11.0	8052.4	7282.0								
G12.0	7639.3	6837.2								
G13.0	7217.1	6357.8								
G14.0	6781.4	5869.3								
G15.0	6347.2	5365.7								
G16.0	5894.9	4856.1								
G17.0	5417.0	4345.1								
G18.0	4940.6	3830.9								
G19.0	4456.6	3294.2								
G20.0	3962.1	2759.0								
G21.0	3463.1	2264.5								
G22.0	2962.5	1855.9								
G23.0	2445.4	1509.2								
G24.0	1982.6	1218.2								
G25.0	1607.2	973.9								
G26.0	1293.6	774.9								
G27.0	1032.7	616.6								
G28.0	820.2	496.0								
G29.0	651.3	399.5								
G30.0	517.1	325.6								
G31.0	411.6	268.4								
G32.0	333.2	224.6								
G33.0	271.4	190.0								
G34.0	224.6	162.8								
G35.0	191.5	143.2								
G36.0	162.8	128.1								

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: 3.010 m
Humidity:
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	146.2	119.1								
G38.0	131.2	108.6								
G39.0	119.1	104.0								
G40.0	108.6	98.0								
G41.0	104.0	93.5								
G42.0	98.0	90.5								
G43.0	95.0	87.4								
G44.0	92.0	85.9								
G45.0	85.9	84.4								
G46.0	84.4	79.9								
G47.0	81.4	75.4								
G48.0	78.4	75.4								
G49.0	76.9	72.4								
G50.0	73.9	72.4								
G51.0	73.9	70.9								
G52.0	70.9	72.4								
G53.0	72.4	69.3								
G54.0	69.3	66.3								
G55.0	66.3	63.3								
G56.0	63.3	60.3								
G57.0	64.8	57.3								
G58.0	61.8	51.3								
G59.0	57.3	49.8								
G60.0	54.3	45.2								
G61.0	48.2	42.2								
G62.0	46.7	36.2								
G63.0	42.2	31.7								
G64.0	36.2	27.1								
G65.0	36.2	24.1								
G66.0	30.1	22.6								
G67.0	25.6	18.1								
G68.0	22.6	15.1								
G69.0	16.6	12.1								
G70.0	15.1	10.6								
G71.0	15.1	10.6								
G72.0	12.1	4.5								
G73.0	10.6	4.5								

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: 3.010 m
Humidity:
Inspector:

Unit: cd

Inspector: