

Report No.:

Test Time: 2026-09-22 18:29

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MODU-84 60D

Luminous Length (mm): -77

Voltage: 225.3 V

Power: 27.90 W

Lamp Description: BLX V13C F90 3000K

Luminous Width (mm): -77

Current: 0.126 A

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 3327.7 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H56.7

Vertical Diffuse Angle(50%): V56.7

Luminaire Efficacy Rating (LER): 119.32

Max. Intensity: 3742.99 cd

S/MH(C0/C180): 0.93

Total Rated Lamp Lumens: 3327.7 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 3733.38 cd

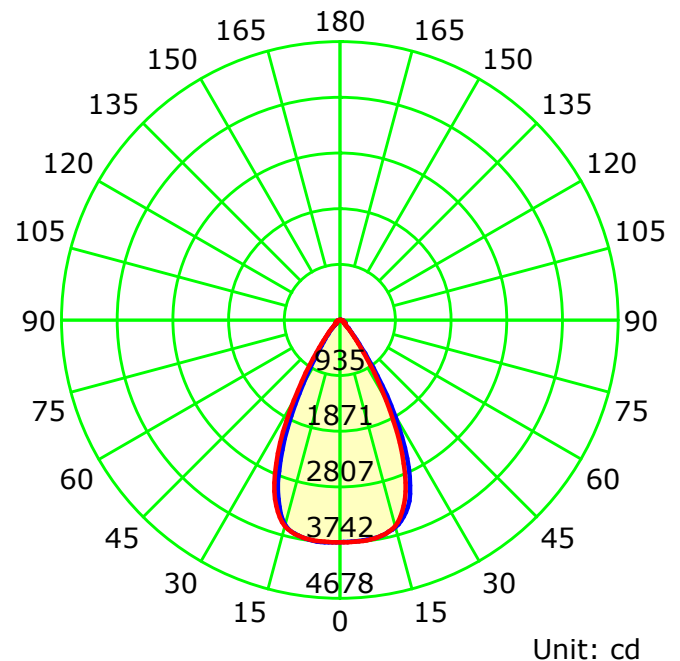
Pos of Max. Intensity: H180 V6

S/MH(C90/C270): 0.93

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

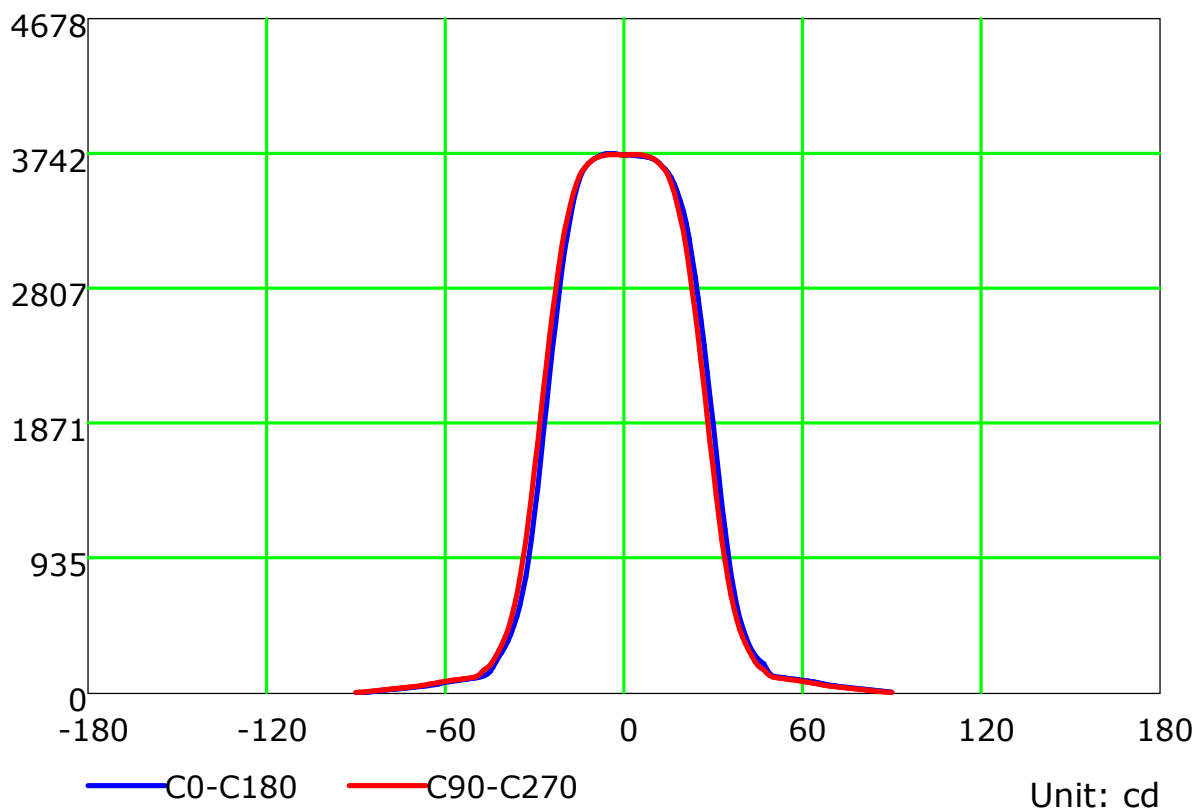
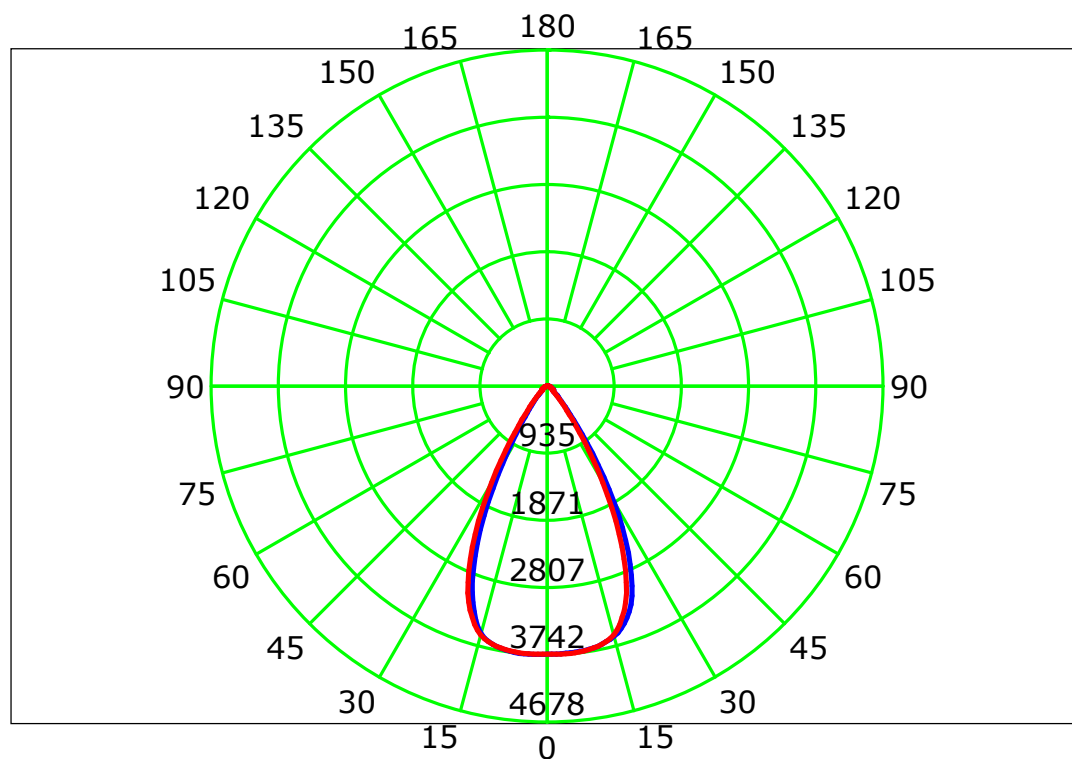
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

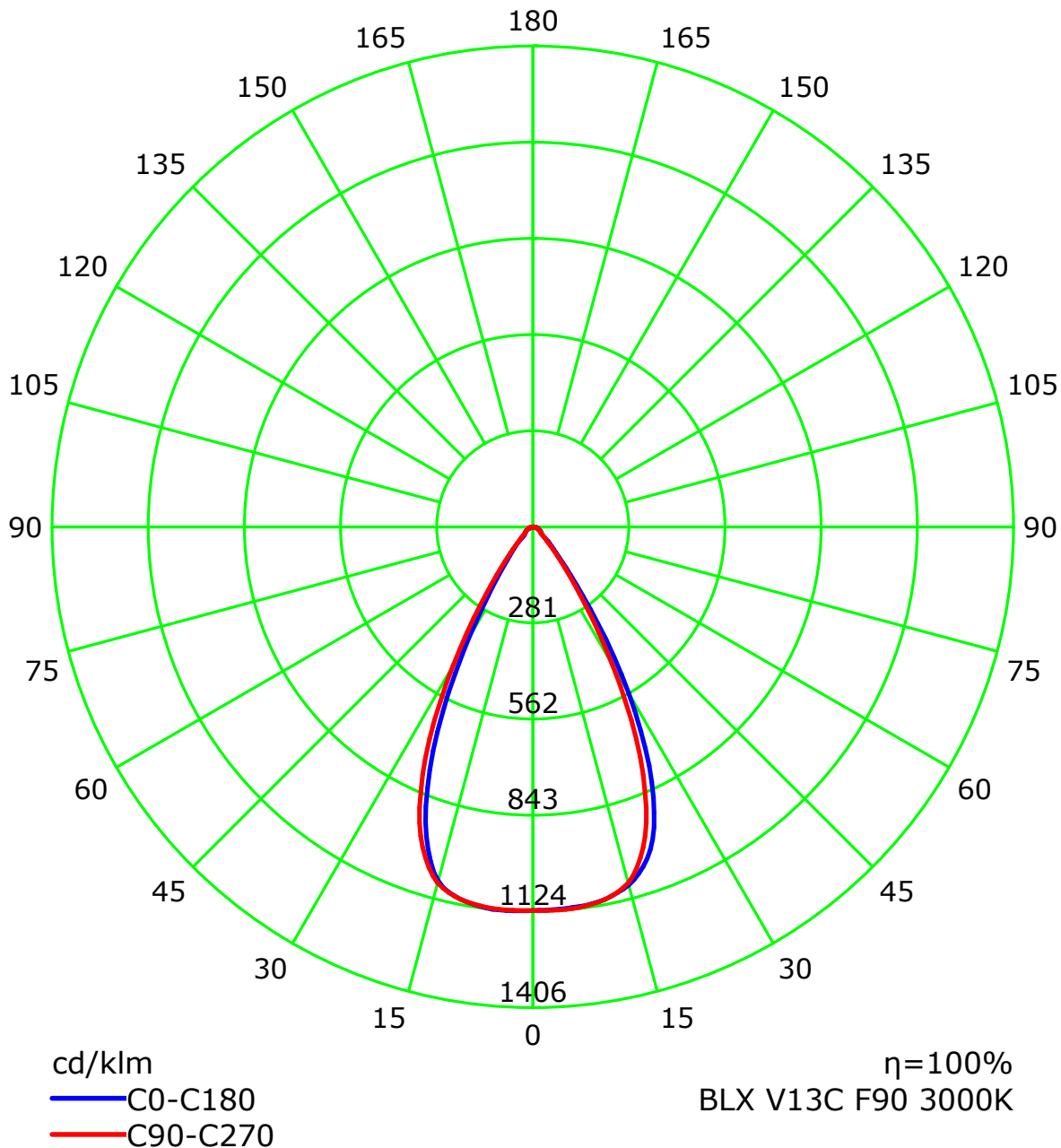
Luminous Intensity Distribution Curve



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:

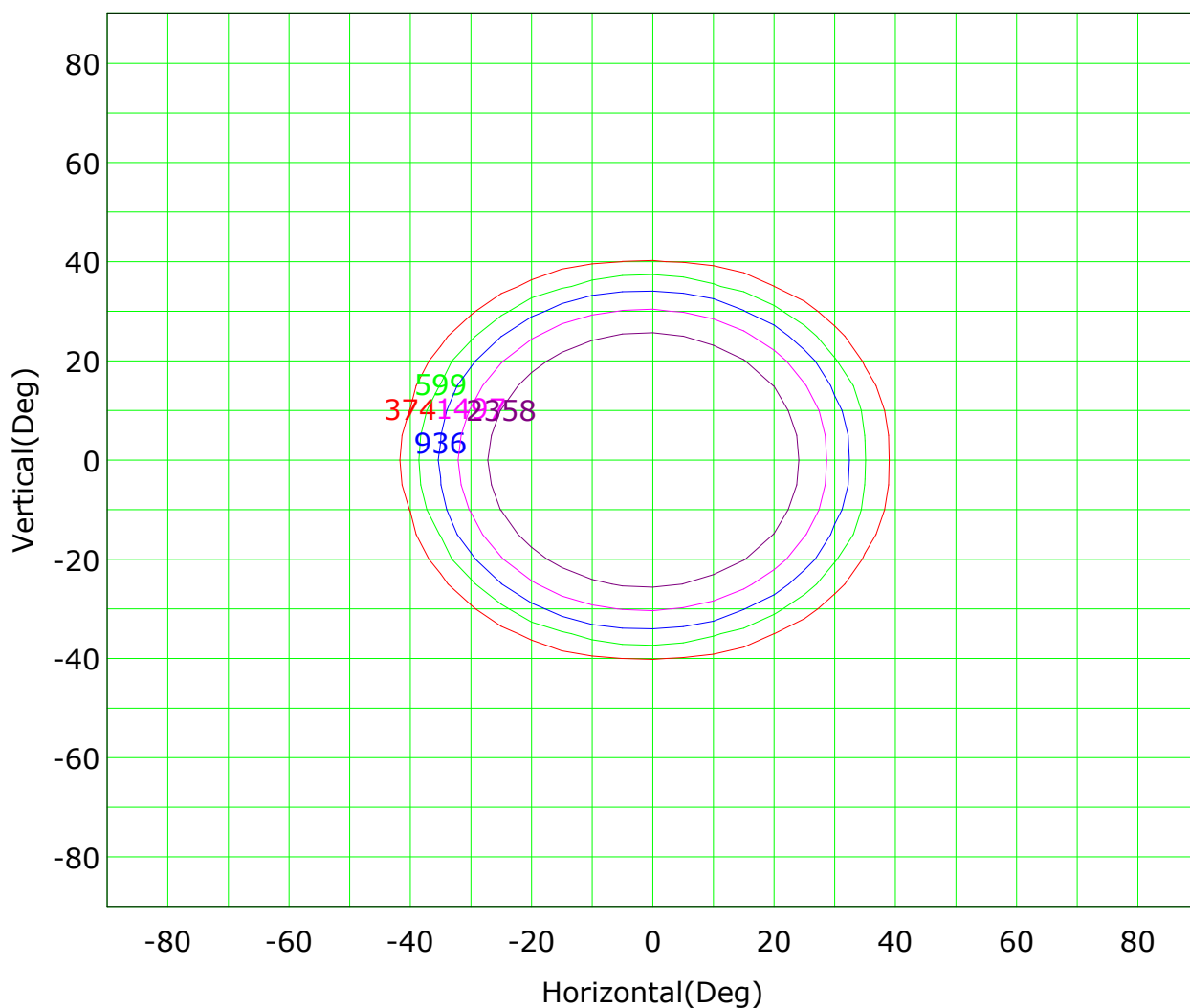
Luminous Intensity Distribution Curve(cd/klm)



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%): 3743 cd

(10%): 374 cd	(16%): 599 cd
(25%): 936 cd	(40%): 1497 cd
(63%): 2358 cd	(100%): 3743 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

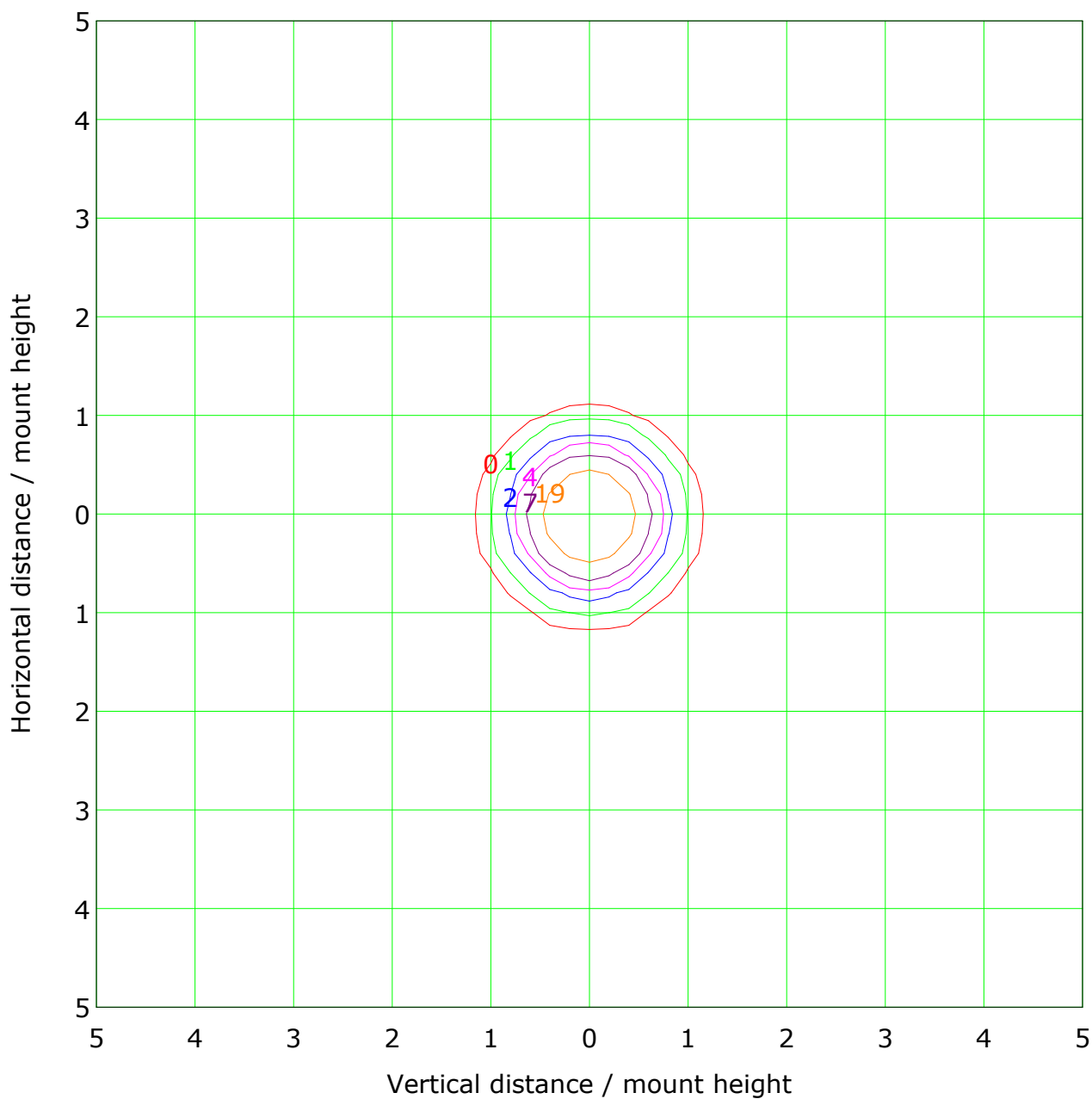
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



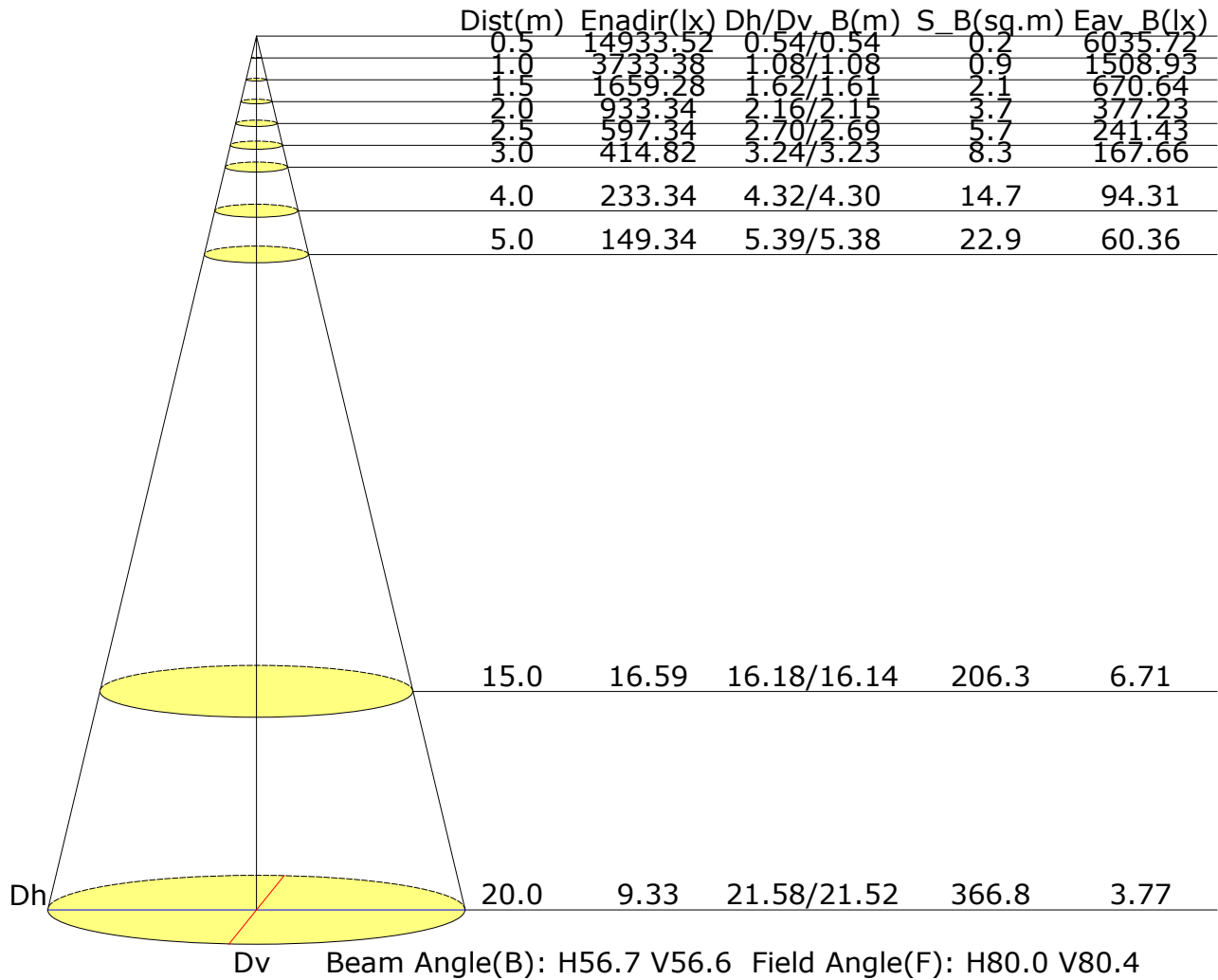
Mounting Height: 10.0m Max Lux(100%): 37.3 lx

(1%): 0.4 lx	(2%): 0.7 lx
(5%): 1.9 lx	(10%): 3.7 lx
(20%): 7.5 lx	(50%): 18.7 lx
(100%): 37.3 lx	

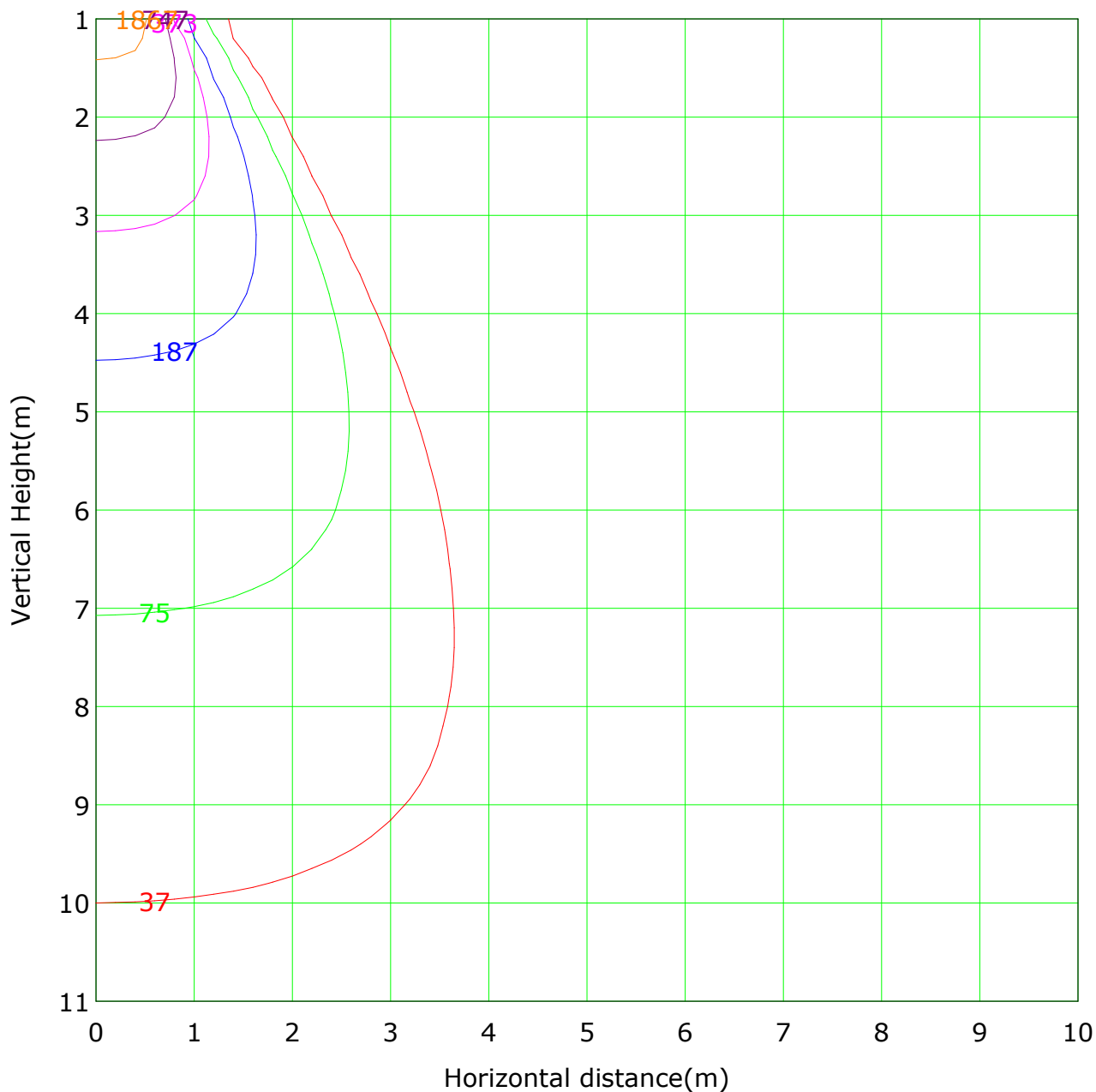
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 3733.4 lx

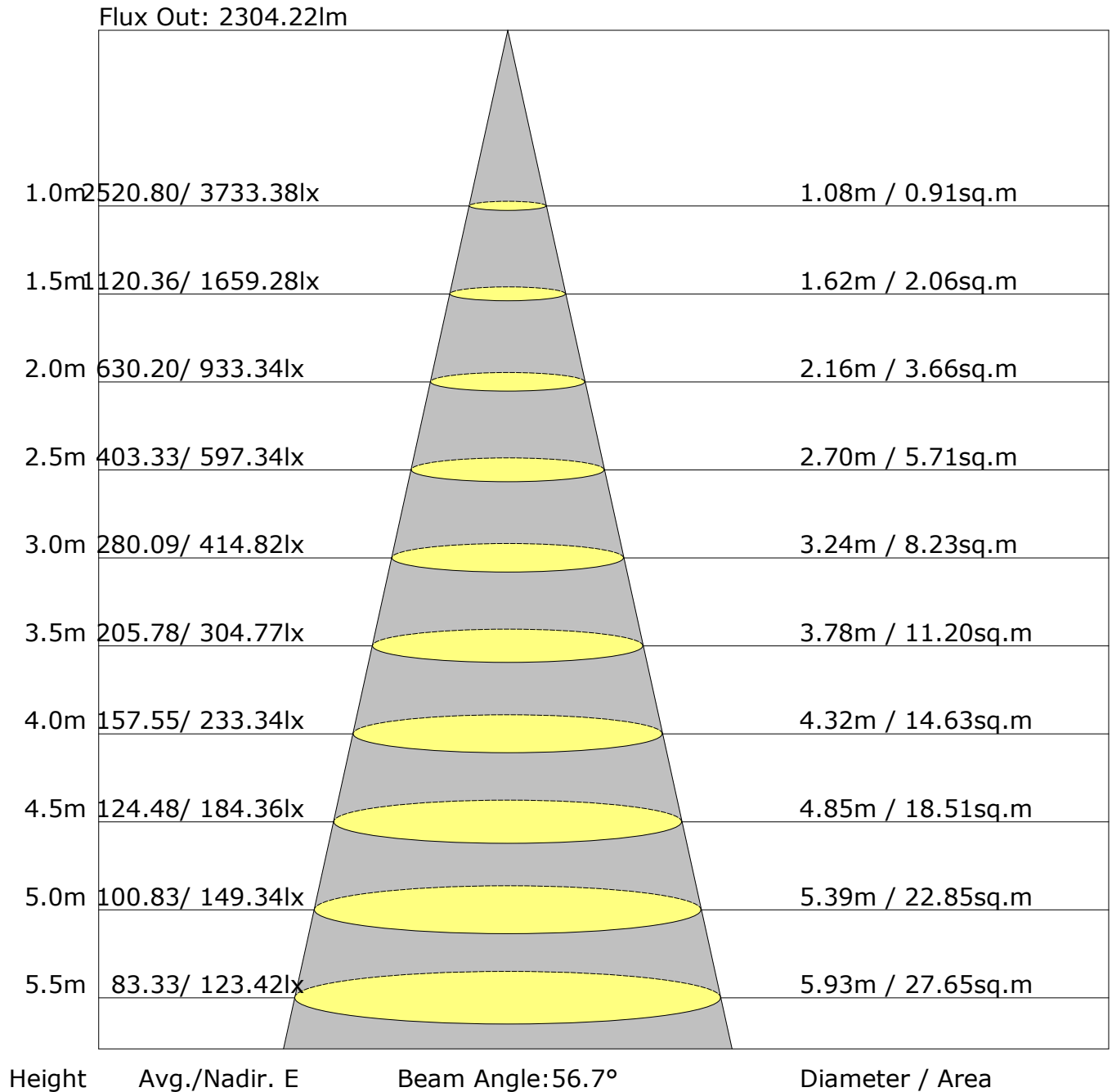
(1%): 37.3 lx	(2%): 74.7 lx
(5%): 186.7 lx	(10%): 373.3 lx
(20%): 746.7 lx	(50%): 1866.7 lx
(100%): 3733.4 lx	

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



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	23.3	24.2	23.6	24.4	24.6	22.6	23.5	22.9	23.7	23.9
3H	23.7	24.5	24.0	24.8	25.0	23.0	23.8	23.3	24.0	24.3
4H	23.9	24.7	24.2	24.9	25.2	23.2	24.0	23.5	24.2	24.5
6H	24.2	24.9	24.5	25.2	25.4	23.4	24.1	23.8	24.4	24.7
8H	24.3	25.0	24.6	25.3	25.6	23.5	24.2	23.9	24.5	24.8
12H	24.4	25.0	24.7	25.3	25.7	23.6	24.2	24.0	24.6	24.9
X=4H Y=2H	23.3	24.1	23.7	24.4	24.6	22.7	23.5	23.0	23.7	24.0
3H	23.9	24.6	24.3	24.9	25.2	23.3	23.9	23.7	24.3	24.6
4H	24.3	24.8	24.7	25.2	25.5	23.6	24.2	24.0	24.6	24.9
6H	24.6	25.1	25.1	25.5	25.9	24.0	24.5	24.4	24.9	25.3
8H	24.8	25.3	25.3	25.7	26.1	24.2	24.6	24.6	25.0	25.4
12H	25.0	25.4	25.5	25.8	26.3	24.3	24.7	24.7	25.1	25.5
X=8H Y=4H	24.4	24.8	24.8	25.2	25.6	23.8	24.2	24.2	24.6	25.0
6H	24.9	25.2	25.3	25.7	26.1	24.3	24.6	24.7	25.1	25.5
8H	25.2	25.5	25.6	25.9	26.4	24.5	24.8	25.0	25.3	25.8
12H	25.4	25.7	25.9	26.2	26.7	24.7	25.0	25.2	25.5	26.0
X=12H Y=4H	24.4	24.8	24.8	25.2	25.6	23.8	24.2	24.2	24.6	25.0
6H	24.9	25.2	25.4	25.7	26.2	24.3	24.6	24.8	25.1	25.6
8H	25.2	25.5	25.7	26.0	26.5	24.6	24.9	25.1	25.4	25.9
Variations with the observer position at spacings:										
S=1.0H	+3.0/-1.7					+2.7/-1.6				
S=1.5H	+5.2/-2.0					+4.8/-1.9				
S=2.0H	+6.9/-2.5					+6.5/-2.5				

Calculate in accordance with CIE Pub.117. The table is revised with 3328lm ($8\log(F/F_0) = 4.2$).

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	1739	52.3
	FL (0°-30°)	1261	37.9
	FM (30°-60°)	420	12.6
	FH (60°-80°)	50	1.5
	FVH (80°-90°)	7	0.2
	BACK LIGHT	1589	47.7
	BL (0°-30°)	1194	35.9
	BM (30°-60°)	346	10.4
	BH (60°-80°)	44	1.3
	BVH (80°-90°)	5	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)	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	3733.6	3.6	3.6	0.11	0.11
1.0-2.0	3734.5	10.7	14.3	0.32	0.43
2.0-3.0	3735.7	17.9	32.2	0.54	0.97
3.0-4.0	3736.0	25.0	57.2	0.75	1.72
4.0-5.0	3735.4	32.1	89.3	0.97	2.68
5.0-6.0	3734.3	39.2	128.6	1.18	3.86
6.0-7.0	3731.4	46.3	174.9	1.39	5.26
7.0-8.0	3726.3	53.3	228.2	1.60	6.86
8.0-9.0	3719.3	60.3	288.5	1.81	8.67
9.0-10.0	3710.3	67.2	355.7	2.02	10.69
10.0-11.0	3698.4	73.9	429.6	2.22	12.91
11.0-12.0	3682.5	80.5	510.1	2.42	15.33
12.0-13.0	3662.4	86.9	597.0	2.61	17.94
13.0-14.0	3637.9	93.1	690.1	2.80	20.74
14.0-15.0	3605.3	99.0	789.1	2.97	23.71
15.0-16.0	3560.7	104.3	893.5	3.14	26.85
16.0-17.0	3501.2	109.0	1002.5	3.28	30.13
17.0-18.0	3427.3	113.0	1115.5	3.40	33.52
18.0-19.0	3343.6	116.3	1231.9	3.50	37.02
19.0-20.0	3250.4	119.0	1350.9	3.58	40.60
20.0-21.0	3142.8	120.7	1471.6	3.63	44.22
21.0-22.0	3015.8	121.2	1592.8	3.64	47.86
22.0-23.0	2870.7	120.5	1713.2	3.62	51.48
23.0-24.0	2716.3	118.8	1832.0	3.57	55.05
24.0-25.0	2555.7	116.2	1948.2	3.49	58.55
25.0-26.0	2384.6	112.6	2060.8	3.38	61.93
26.0-27.0	2203.3	107.8	2168.6	3.24	65.17
27.0-28.0	2015.9	102.1	2270.7	3.07	68.24
28.0-29.0	1827.8	95.6	2366.3	2.87	71.11
29.0-30.0	1646.5	88.9	2455.2	2.67	73.78
30.0-31.0	1467.9	81.7	2536.9	2.46	76.24
31.0-32.0	1296.6	74.3	2611.2	2.23	78.47
32.0-33.0	1136.8	67.0	2678.2	2.01	80.48
33.0-34.0	987.1	59.7	2738.0	1.80	82.28
34.0-35.0	854.5	53.1	2791.0	1.60	83.87
35.0-36.0	736.5	46.9	2837.9	1.41	85.28

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	633.0	41.3	2879.2	1.24	86.52
37.0-38.0	545.1	36.4	2915.6	1.09	87.62
38.0-39.0	471.2	32.2	2947.8	0.97	88.58
39.0-40.0	409.7	28.6	2976.4	0.86	89.44
40.0-41.0	358.2	25.5	3001.9	0.77	90.21
41.0-42.0	314.5	22.9	3024.7	0.69	90.90
42.0-43.0	275.7	20.4	3045.2	0.61	91.51
43.0-44.0	238.4	18.0	3063.2	0.54	92.05
44.0-45.0	205.2	15.8	3078.9	0.47	92.53
45.0-46.0	181.0	14.2	3093.1	0.43	92.95
46.0-47.0	165.1	13.1	3106.2	0.39	93.35
47.0-48.0	147.5	11.9	3118.1	0.36	93.70
48.0-49.0	127.5	10.5	3128.6	0.31	94.02
49.0-50.0	113.7	9.5	3138.1	0.28	94.30
50.0-51.0	106.7	9.0	3147.1	0.27	94.58
51.0-52.0	103.4	8.9	3156.0	0.27	94.84
52.0-53.0	100.4	8.7	3164.7	0.26	95.10
53.0-54.0	97.6	8.6	3173.3	0.26	95.36
54.0-55.0	94.7	8.5	3181.8	0.25	95.62
55.0-56.0	91.9	8.3	3190.1	0.25	95.87
56.0-57.0	89.1	8.1	3198.2	0.24	96.11
57.0-58.0	86.2	8.0	3206.2	0.24	96.35
58.0-59.0	83.4	7.8	3214.0	0.23	96.59
59.0-60.0	80.5	7.6	3221.6	0.23	96.81
60.0-61.0	77.1	7.4	3229.0	0.22	97.04
61.0-62.0	73.3	7.1	3236.0	0.21	97.25
62.0-63.0	69.2	6.7	3242.8	0.20	97.45
63.0-64.0	65.6	6.4	3249.2	0.19	97.64
64.0-65.0	62.3	6.2	3255.4	0.19	97.83
65.0-66.0	58.6	5.8	3261.2	0.18	98.00
66.0-67.0	54.7	5.5	3266.7	0.17	98.17
67.0-68.0	51.2	5.2	3271.9	0.16	98.33
68.0-69.0	48.0	4.9	3276.8	0.15	98.47
69.0-70.0	45.2	4.6	3281.5	0.14	98.61
70.0-71.0	42.6	4.4	3285.9	0.13	98.74
71.0-72.0	40.0	4.2	3290.0	0.13	98.87

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:

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	3733.4	3733.4								
G1.0	3732.0	3735.8								
G2.0	3732.2	3738.0								
G3.0	3731.0	3741.6								
G4.0	3729.5	3742.1								
G5.0	3727.2	3742.8								
G6.0	3724.1	3743.0								
G7.0	3721.4	3737.1								
G8.0	3717.9	3728.7								
G9.0	3712.5	3718.2								
G10.0	3703.9	3706.6								
G11.0	3692.2	3690.9								
G12.0	3674.7	3672.3								
G13.0	3653.5	3649.1								
G14.0	3633.4	3615.4								
G15.0	3607.3	3565.1								
G16.0	3574.1	3496.3								
G17.0	3528.0	3406.5								
G18.0	3475.3	3299.3								
G19.0	3414.8	3184.9								
G20.0	3343.6	3058.4								
G21.0	3257.7	2911.4								
G22.0	3152.6	2741.4								
G23.0	3022.2	2566.6								
G24.0	2885.5	2390.7								
G25.0	2740.4	2206.2								
G26.0	2585.1	2006.8								
G27.0	2411.4	1809.9								
G28.0	2230.8	1611.4								
G29.0	2049.7	1419.3								
G30.0	1871.2	1246.0								
G31.0	1678.3	1076.1								
G32.0	1496.3	935.8								
G33.0	1308.9	806.3								
G34.0	1133.9	699.5								
G35.0	978.2	606.6								
G36.0	831.3	530.0								

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	706.7	463.9								
G38.0	602.1	407.8								
G39.0	515.9	359.1								
G40.0	446.2	317.7								
G41.0	387.4	281.7								
G42.0	337.5	251.3								
G43.0	296.2	217.6								
G44.0	262.0	177.8								
G45.0	235.7	145.3								
G46.0	216.4	126.7								
G47.0	201.5	115.9								
G48.0	162.9	109.6								
G49.0	132.1	105.6								
G50.0	115.0	102.1								
G51.0	110.8	98.9								
G52.0	108.1	95.8								
G53.0	105.3	92.6								
G54.0	102.6	89.8								
G55.0	99.8	86.8								
G56.0	96.8	84.1								
G57.0	94.1	81.2								
G58.0	91.4	78.1								
G59.0	88.9	75.4								
G60.0	85.7	71.9								
G61.0	83.0	67.6								
G62.0	80.5	62.0								
G63.0	77.3	57.0								
G64.0	74.2	54.0								
G65.0	69.8	51.2								
G66.0	65.2	48.2								
G67.0	60.2	45.2								
G68.0	56.5	42.8								
G69.0	52.5	40.2								
G70.0	49.7	38.3								
G71.0	46.8	35.7								
G72.0	44.0	33.5								
G73.0	41.3	31.2								

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

[illegible]

Test Device: CHL-6E
Distance: 3.010 m
Humidity:
Inspector: