

Report No.:

Test Time: 2026-09-30 11:31

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: MOVA50-300MA-24D Lamp Description: Blx V4HD F90 3000K

Luminous Length (mm): -21

Luminous Width (mm): -21

Voltage: 226.5 V

Current: 0.126 A

Power: 15.10 W

Power Factor: 0.526

Photometric Results

CIE Class: Direct

Measurement Flux: 451.5 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H23.6

Vertical Diffuse Angle(50%): V23.6

Luminaire Efficacy Rating (LER): 29.95

Max. Intensity: 1306.82 cd

S/MH(C0/C180): 0.42

Total Rated Lamp Lumens: 451.5 lm

Efficiency: 100%

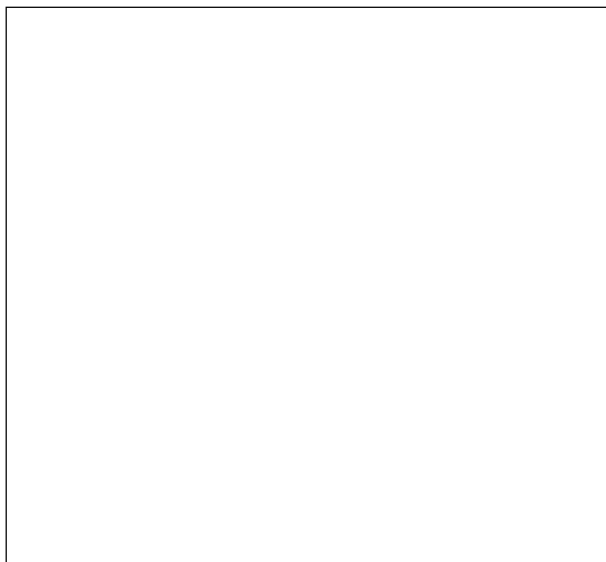
Upward Ratio: 0%

Central Intensity: 1185.5 cd

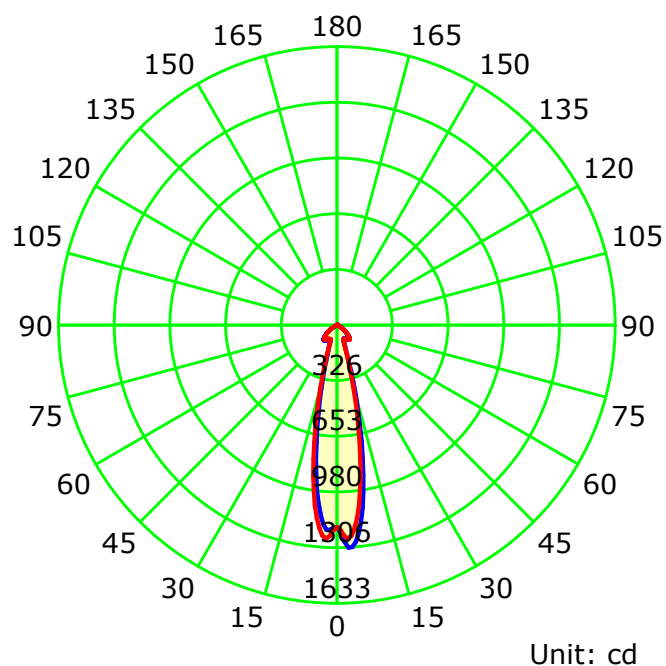
Pos of Max. Intensity: H0 V3

S/MH(C90/C270): 0.42

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

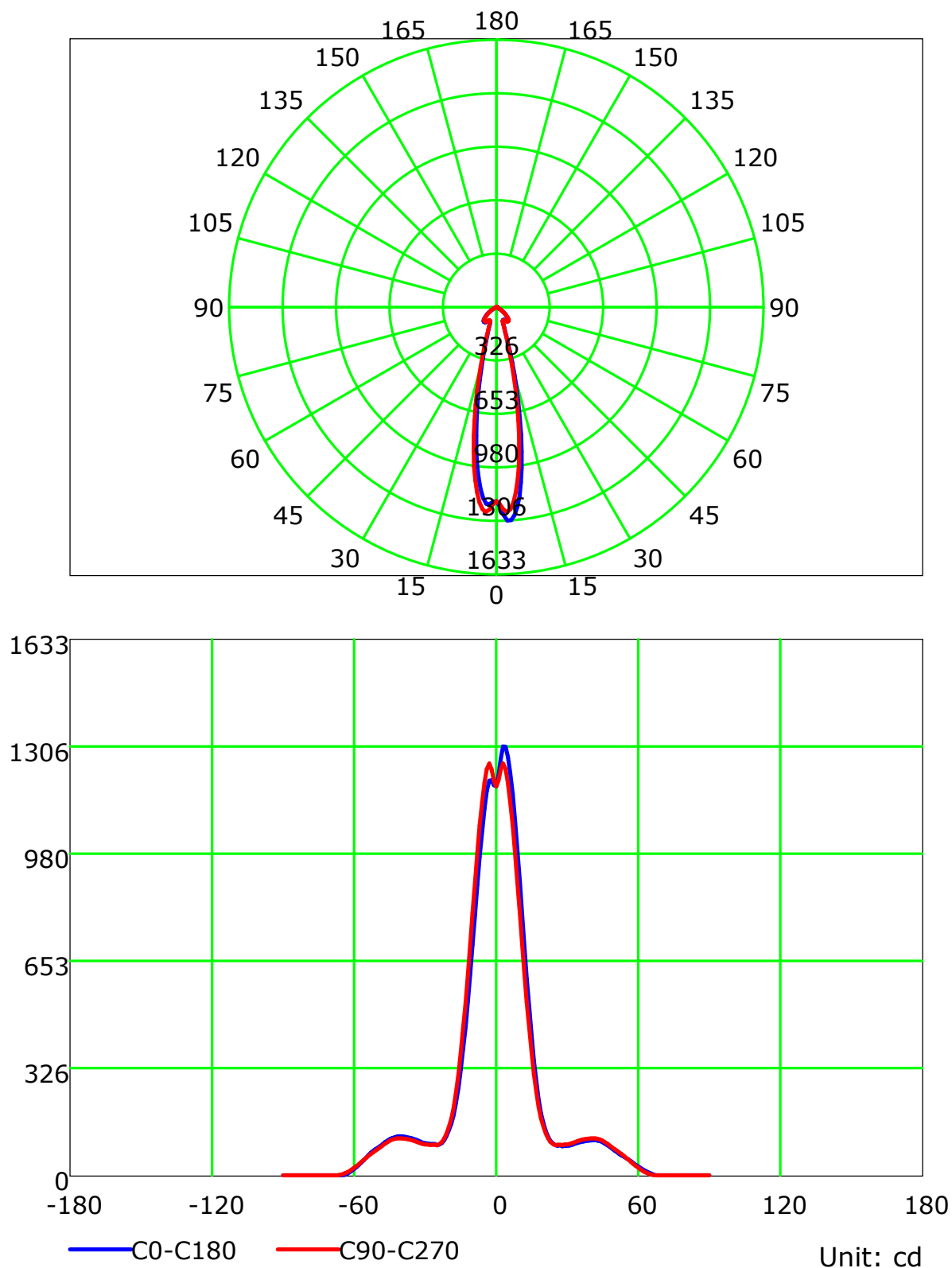
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

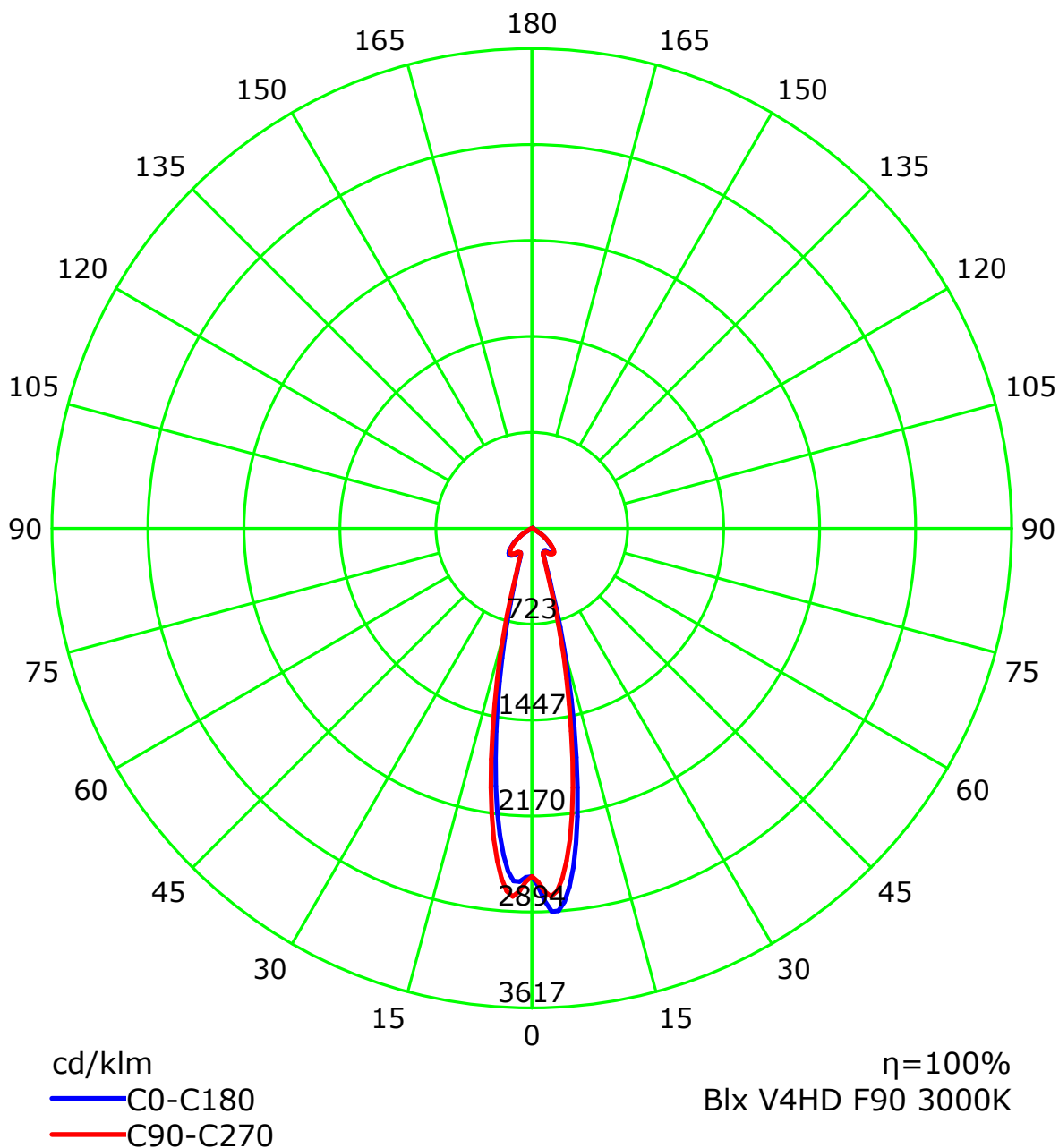
Luminous Intensity Distribution Curve



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:

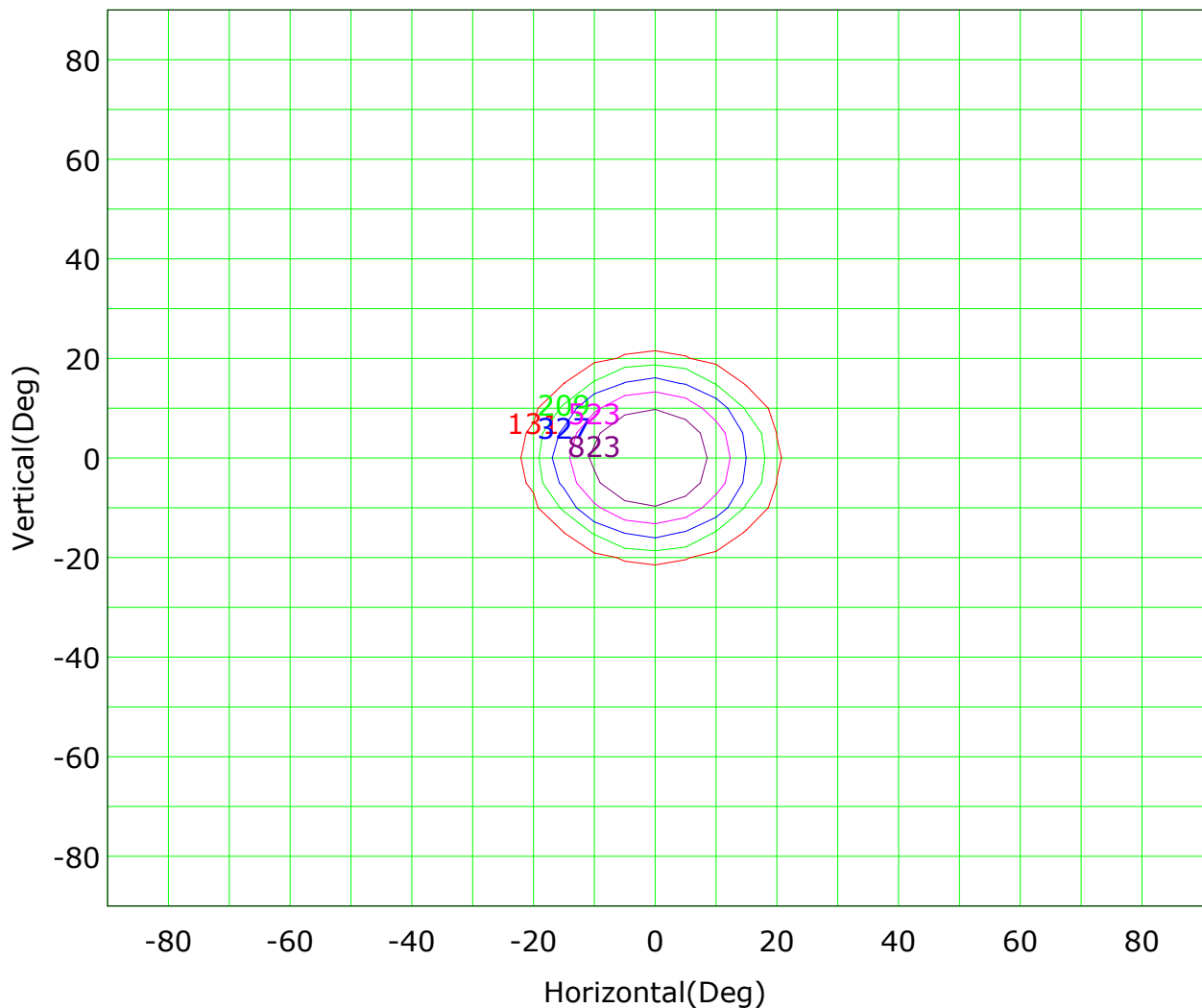
Luminous Intensity Distribution Curve(cd/klm)



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%): 1307 cd

(10%): 131 cd	(16%): 209 cd
(25%): 327 cd	(40%): 523 cd
(63%): 823 cd	(100%): 1307 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

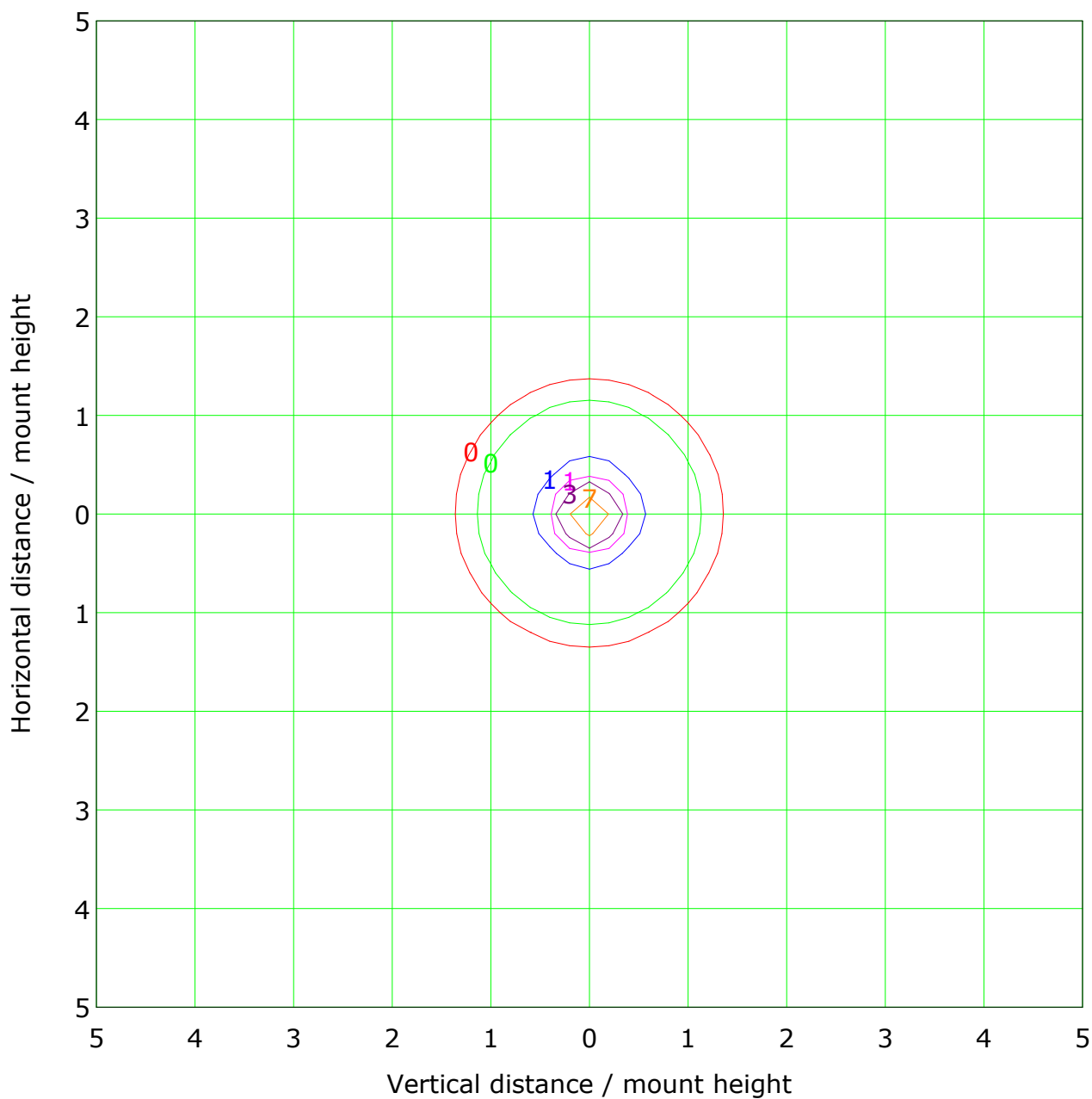
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 13.0 lx

(1%): 0.1 lx	(2%): 0.3 lx
(5%): 0.7 lx	(10%): 1.3 lx
(20%): 2.6 lx	(50%): 6.5 lx
(100%): 13.0 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

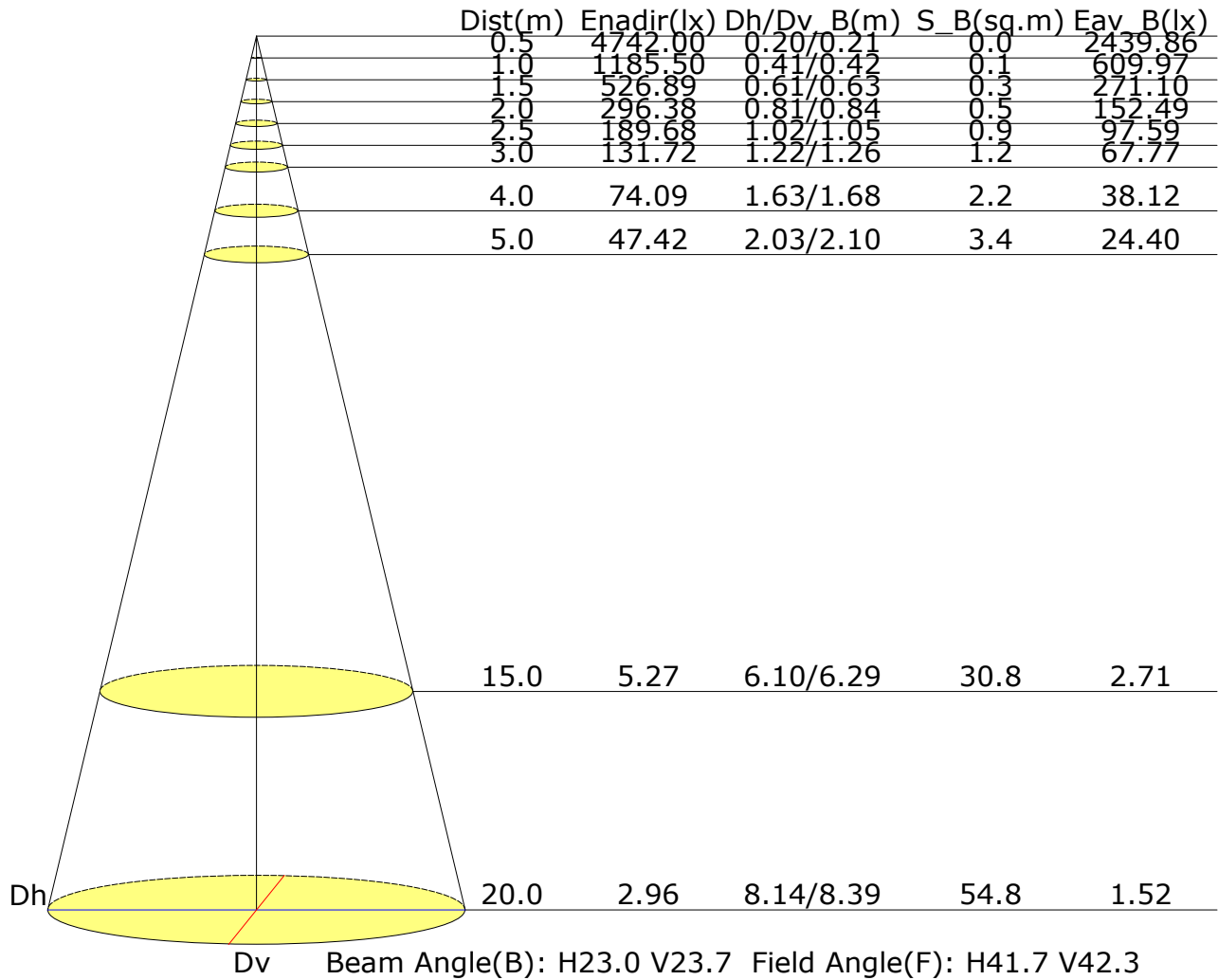
Test Device: CHL-6E

Distance: 3.010 m

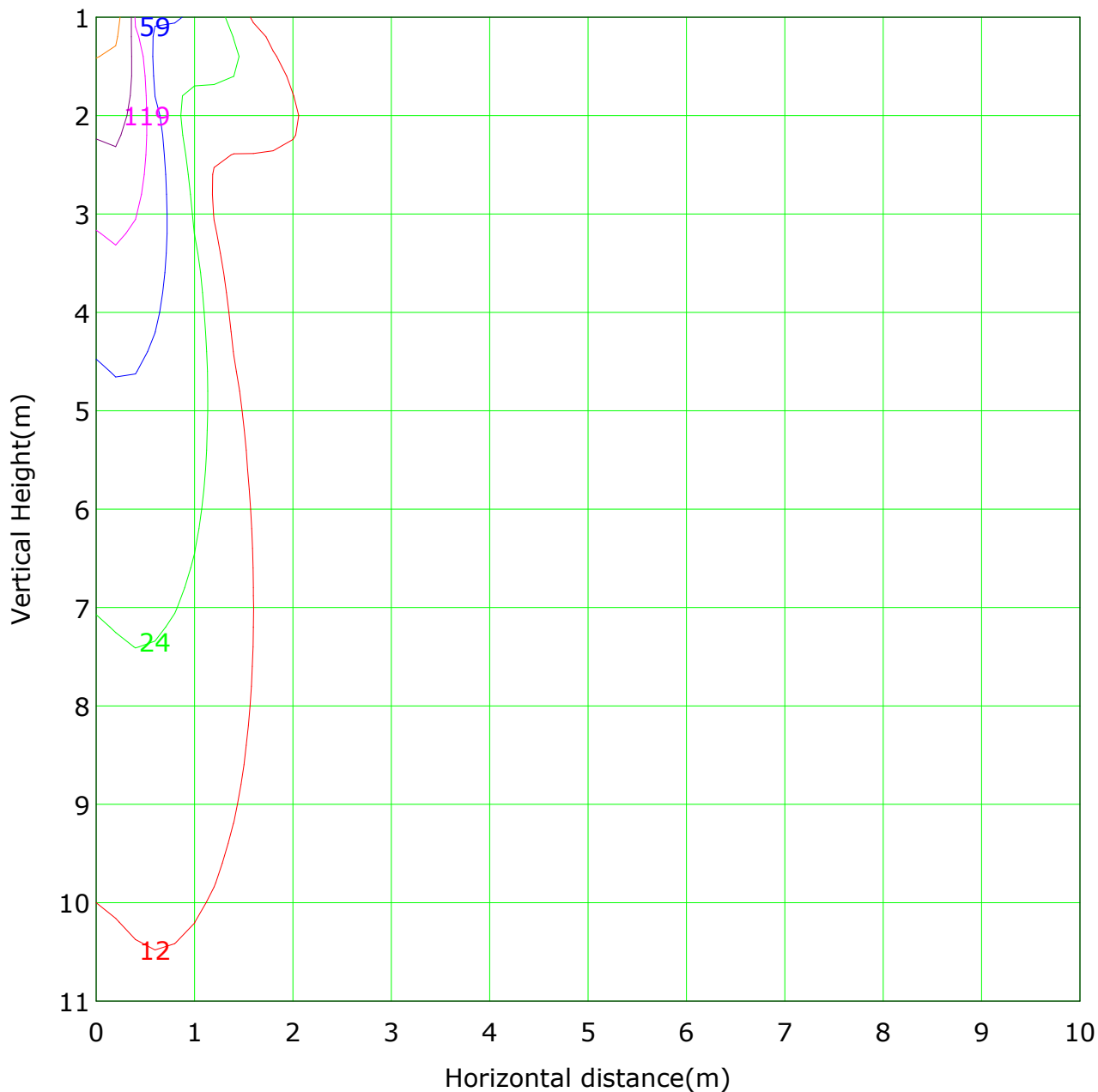
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



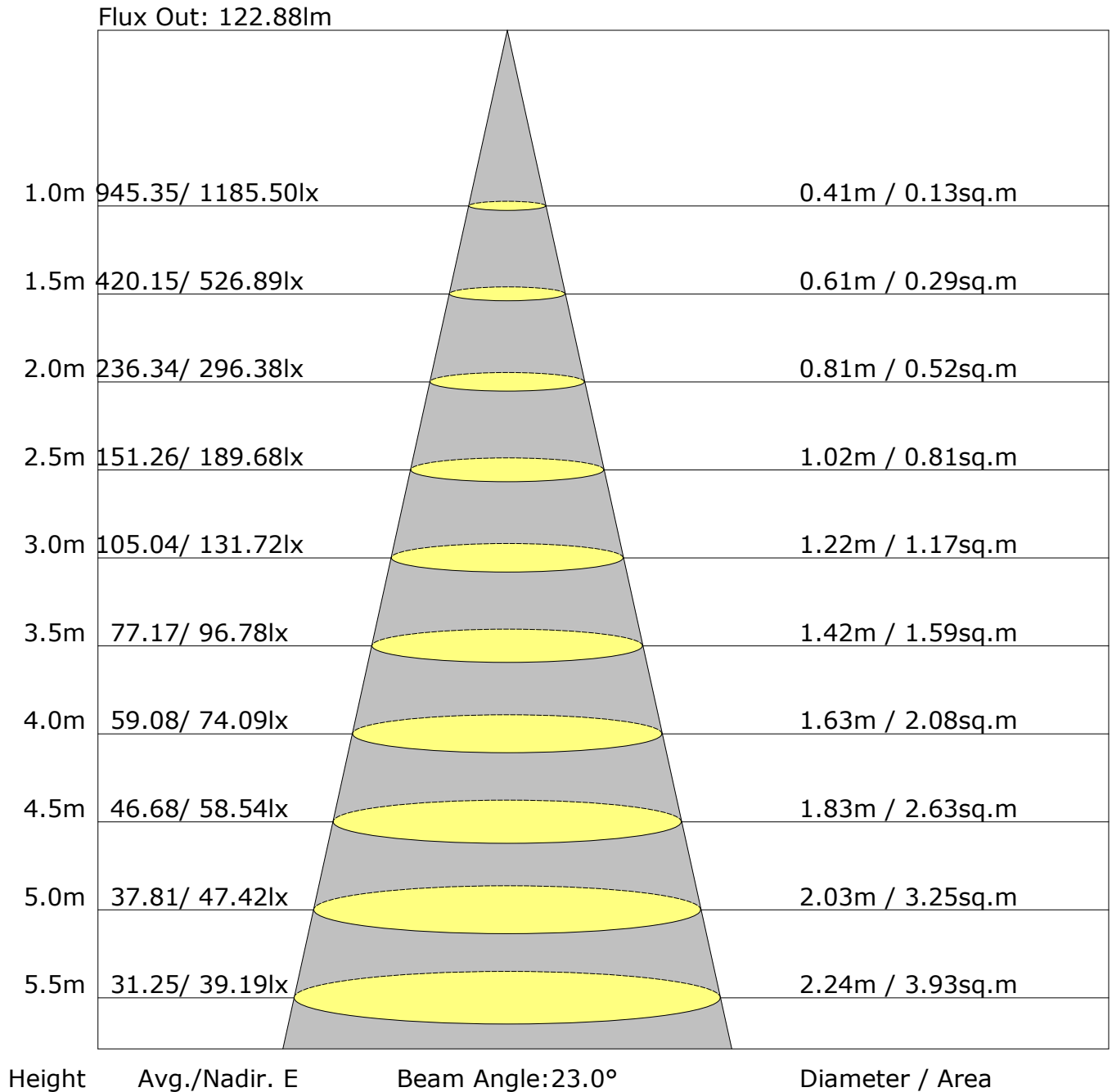
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1185.5 lx
— (1%): 11.9 lx — (2%): 23.7 lx
— (5%): 59.3 lx — (10%): 118.6 lx
— (20%): 237.1 lx — (50%): 592.8 lx
— (100%):1185.5 lx

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: 3.010 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	30.4	31.4	30.7	31.6	31.8	30.5	31.4	30.7	31.6	31.8
3H	30.3	31.1	30.6	31.4	31.6	30.3	31.2	30.6	31.4	31.7
4H	30.2	31.0	30.5	31.3	31.5	30.2	31.0	30.6	31.3	31.6
6H	30.1	30.9	30.5	31.2	31.5	30.2	30.9	30.5	31.2	31.5
8H	30.1	30.8	30.4	31.1	31.4	30.1	30.8	30.5	31.1	31.4
12H	30.1	30.7	30.4	31.0	31.4	30.1	30.8	30.4	31.1	31.4
X=4H Y=2H	30.4	31.2	30.7	31.5	31.7	30.4	31.2	30.8	31.5	31.8
3H	30.3	31.0	30.6	31.3	31.6	30.3	31.0	30.7	31.3	31.6
4H	30.2	30.8	30.6	31.1	31.5	30.2	30.8	30.6	31.2	31.5
6H	30.1	30.6	30.5	31.0	31.4	30.1	30.7	30.6	31.0	31.4
8H	30.1	30.6	30.5	31.0	31.4	30.1	30.6	30.5	31.0	31.4
12H	30.0	30.5	30.5	30.9	31.3	30.1	30.5	30.5	30.9	31.3
X=8H Y=4H	30.1	30.6	30.5	31.0	31.4	30.1	30.6	30.5	31.0	31.4
6H	30.0	30.4	30.5	30.8	31.3	30.0	30.4	30.5	30.8	31.3
8H	30.0	30.3	30.4	30.7	31.2	30.0	30.3	30.5	30.8	31.2
12H	29.9	30.2	30.4	30.7	31.2	29.9	30.2	30.4	30.7	31.2
X=12H Y=4H	30.0	30.5	30.5	30.9	31.3	30.1	30.5	30.5	30.9	31.3
6H	30.0	30.3	30.4	30.7	31.2	30.0	30.3	30.5	30.8	31.2
8H	29.9	30.2	30.4	30.7	31.2	29.9	30.2	30.4	30.7	31.2
Variations with the observer position at spacings:										
S=1.0H	+1.0/-1.1					+0.9/-1.0				
S=1.5H	+2.0/-6.9					+2.1/-8.6				
S=2.0H	+3.7/-27.6					+4.0/-29.9				

Calculate in accordance with CIE Pub.117. The table is revised with 452lm ($8\log(F/F_0) = -2.8$).

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	230	50.9
	FL (0°-30°)	132	29.2
	FM (30°-60°)	94	20.8
	FH (60°-80°)	4	0.9
	FVH (80°-90°)	0	0.0
	BACK LIGHT	222	49.1
	BL (0°-30°)	121	26.8
	BM (30°-60°)	98	21.7
	BH (60°-80°)	3	0.6
	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)	B1 U0 G0
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 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	1194.4	1.1	1.1	0.25	0.25
1.0-2.0	1220.1	3.5	4.6	0.78	1.03
2.0-3.0	1246.0	6.0	10.6	1.32	2.35
3.0-4.0	1246.6	8.3	19.0	1.85	4.20
4.0-5.0	1217.4	10.5	29.4	2.32	6.52
5.0-6.0	1167.3	12.3	41.7	2.72	9.23
6.0-7.0	1102.3	13.7	55.4	3.03	12.27
7.0-8.0	1025.2	14.7	70.1	3.25	15.52
8.0-9.0	939.2	15.2	85.3	3.37	18.89
9.0-10.0	846.8	15.3	100.6	3.39	22.28
10.0-11.0	751.6	15.0	115.6	3.33	25.61
11.0-12.0	659.0	14.4	130.0	3.19	28.80
12.0-13.0	570.1	13.5	143.6	3.00	31.80
13.0-14.0	487.2	12.5	156.0	2.76	34.56
14.0-15.0	412.0	11.3	167.3	2.51	37.06
15.0-16.0	342.4	10.0	177.4	2.22	39.29
16.0-17.0	280.8	8.7	186.1	1.94	41.22
17.0-18.0	229.9	7.6	193.7	1.68	42.90
18.0-19.0	190.3	6.6	200.3	1.47	44.37
19.0-20.0	160.5	5.9	206.2	1.30	45.67
20.0-21.0	137.8	5.3	211.5	1.17	46.84
21.0-22.0	120.3	4.8	216.3	1.07	47.91
22.0-23.0	107.4	4.5	220.8	1.00	48.91
23.0-24.0	99.0	4.3	225.2	0.96	49.87
24.0-25.0	94.1	4.3	229.4	0.95	50.82
25.0-26.0	92.8	4.4	233.8	0.97	51.79
26.0-27.0	93.5	4.6	238.4	1.01	52.80
27.0-28.0	93.2	4.7	243.1	1.05	53.85
28.0-29.0	93.3	4.9	248.0	1.08	54.93
29.0-30.0	94.2	5.1	253.1	1.13	56.05
30.0-31.0	95.0	5.3	258.4	1.17	57.23
31.0-32.0	96.7	5.5	263.9	1.23	58.45
32.0-33.0	99.3	5.8	269.8	1.30	59.75
33.0-34.0	102.2	6.2	276.0	1.37	61.12
34.0-35.0	104.9	6.5	282.5	1.44	62.56
35.0-36.0	107.0	6.8	289.3	1.51	64.07

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	108.8	7.1	296.4	1.57	65.64
37.0-38.0	110.3	7.4	303.7	1.63	67.27
38.0-39.0	111.6	7.6	311.4	1.69	68.96
39.0-40.0	112.6	7.9	319.2	1.74	70.70
40.0-41.0	113.1	8.1	327.3	1.78	72.49
41.0-42.0	113.0	8.2	335.5	1.82	74.30
42.0-43.0	111.9	8.3	343.8	1.84	76.14
43.0-44.0	110.0	8.3	352.1	1.84	77.98
44.0-45.0	107.2	8.2	360.3	1.83	79.81
45.0-46.0	103.5	8.1	368.4	1.79	81.60
46.0-47.0	99.0	7.9	376.3	1.74	83.34
47.0-48.0	93.8	7.6	383.9	1.68	85.02
48.0-49.0	88.4	7.3	391.1	1.61	86.63
49.0-50.0	83.0	6.9	398.1	1.53	88.16
50.0-51.0	77.8	6.6	404.6	1.46	89.62
51.0-52.0	73.0	6.3	410.9	1.39	91.01
52.0-53.0	67.9	5.9	416.8	1.31	92.32
53.0-54.0	62.2	5.5	422.3	1.22	93.53
54.0-55.0	56.2	5.0	427.3	1.11	94.64
55.0-56.0	50.4	4.6	431.9	1.01	95.65
56.0-57.0	44.3	4.1	435.9	0.90	96.55
57.0-58.0	38.0	3.5	439.4	0.78	97.33
58.0-59.0	32.0	3.0	442.4	0.66	97.99
59.0-60.0	26.5	2.5	444.9	0.55	98.54
60.0-61.0	21.2	2.0	447.0	0.45	98.99
61.0-62.0	16.3	1.6	448.5	0.35	99.34
62.0-63.0	11.8	1.1	449.7	0.25	99.60
63.0-64.0	8.0	0.8	450.5	0.17	99.77
64.0-65.0	5.0	0.5	451.0	0.11	99.88
65.0-66.0	2.8	0.3	451.2	0.06	99.94
66.0-67.0	1.3	0.1	451.4	0.03	99.97
67.0-68.0	0.5	0.0	451.4	0.01	99.98
68.0-69.0	0.2	0.0	451.4	0.01	99.98
69.0-70.0	0.2	0.0	451.5	0.00	99.99
70.0-71.0	0.2	0.0	451.5	0.00	99.99
71.0-72.0	0.1	0.0	451.5	0.00	99.99

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	1185.5	1185.5								
G1.0	1217.6	1189.0								
G2.0	1270.3	1203.7								
G3.0	1306.8	1203.1								
G4.0	1305.3	1171.1								
G5.0	1276.3	1116.7								
G6.0	1227.1	1049.0								
G7.0	1161.9	971.1								
G8.0	1082.2	885.7								
G9.0	993.5	795.4								
G10.0	895.7	702.3								
G11.0	794.4	614.1								
G12.0	695.8	531.8								
G13.0	599.7	453.1								
G14.0	510.6	385.6								
G15.0	428.4	323.4								
G16.0	350.6	267.4								
G17.0	284.4	220.7								
G18.0	230.2	184.2								
G19.0	188.7	157.9								
G20.0	157.6	137.8								
G21.0	134.8	121.0								
G22.0	117.7	107.8								
G23.0	104.9	99.2								
G24.0	97.6	94.1								
G25.0	92.5	92.2								
G26.0	90.2	96.1								
G27.0	91.7	95.9								
G28.0	89.2	96.1								
G29.0	90.7	97.3								
G30.0	90.4	98.3								
G31.0	91.1	100.0								
G32.0	92.8	102.8								
G33.0	95.5	106.0								
G34.0	98.2	109.3								
G35.0	100.6	111.6								
G36.0	102.4	113.7								

C Plane (°):0.0-180.0: 180.0

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Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	103.9	115.3								
G38.0	105.3	116.8								
G39.0	106.3	118.0								
G40.0	106.9	119.1								
G41.0	107.2	119.4								
G42.0	107.3	118.0								
G43.0	106.3	116.1								
G44.0	104.1	113.7								
G45.0	101.0	110.2								
G46.0	96.8	106.0								
G47.0	92.2	100.9								
G48.0	87.1	95.2								
G49.0	81.5	89.8								
G50.0	76.0	84.5								
G51.0	70.9	80.0								
G52.0	65.9	75.1								
G53.0	61.1	69.4								
G54.0	56.9	61.6								
G55.0	52.7	53.8								
G56.0	48.7	46.5								
G57.0	43.1	39.0								
G58.0	37.5	32.3								
G59.0	32.4	25.8								
G60.0	27.6	20.0								
G61.0	22.8	14.4								
G62.0	18.3	9.6								
G63.0	14.3	5.1								
G64.0	10.7	2.0								
G65.0	7.2	0.0								
G66.0	3.9	0.0								
G67.0	1.4	0.0								
G68.0	0.4	0.0								
G69.0	0.4	0.0								
G70.0	0.3	0.0								
G71.0	0.3	0.0								
G72.0	0.2	0.0								
G73.0	0.2	0.0								

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:

Unit: cd

Inspector: