

Report No.:

Test Time: 2026-04-09 17:51

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: 51.03520-36D

Luminous Width (mm): -11

Current: 0.021 A

Power Factor: 0.569

Luminous Length (mm): -11

Voltage: 234.4 V

Power: 2.90 W

Photometric Results

CIE Class: Direct

Measurement Flux: 106.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H29

Vertical Diffuse Angle(50%): V29

Luminaire Efficacy Rating (LER): 36.73

Max. Intensity: 329.8 cd

S/MH(C0/C180): 0.48

Total Rated Lamp Lumens: 106.4 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 325.19 cd

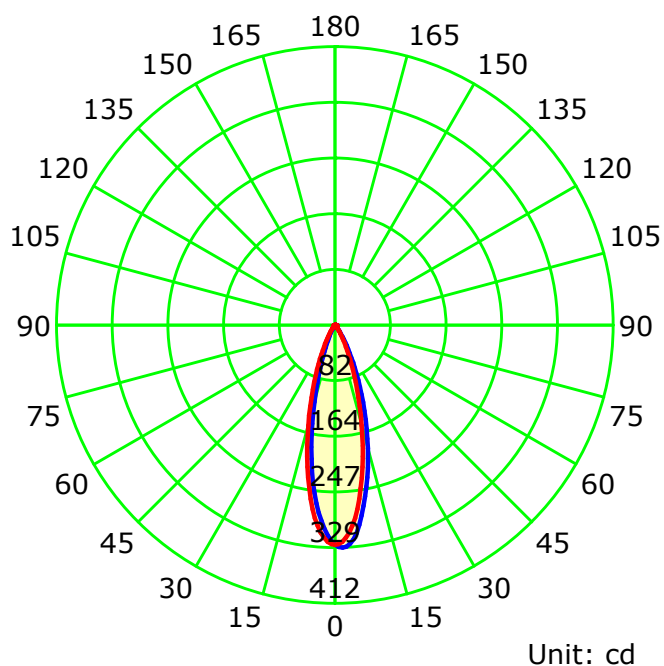
Pos of Max. Intensity: H0 V2

S/MH(C90/C270): 0.48

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

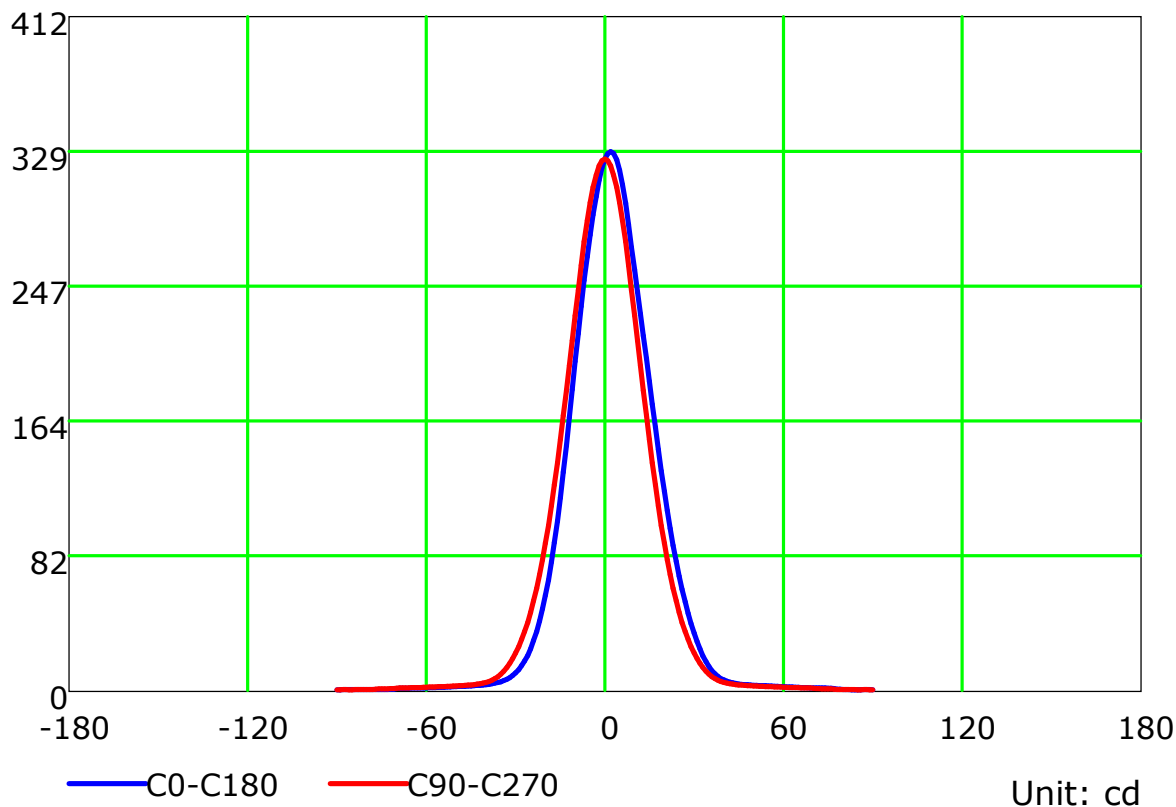
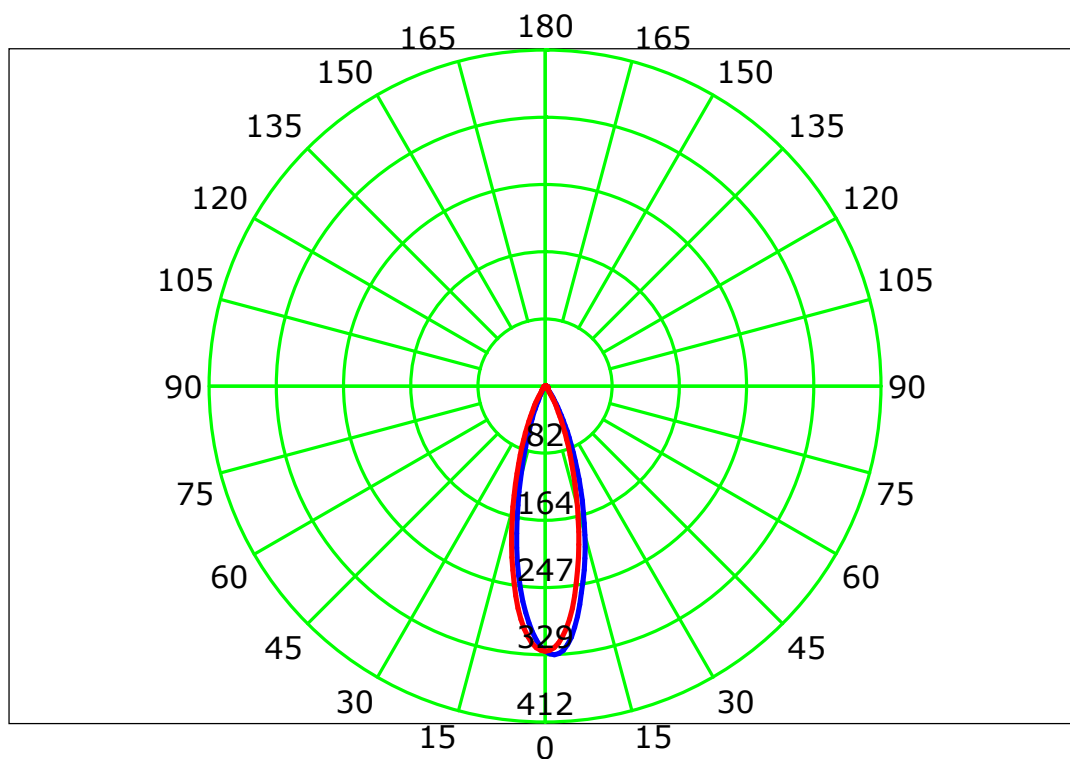
Test Device: CHL-6E

Distance: 3.010 m

Humidity:

Inspector:

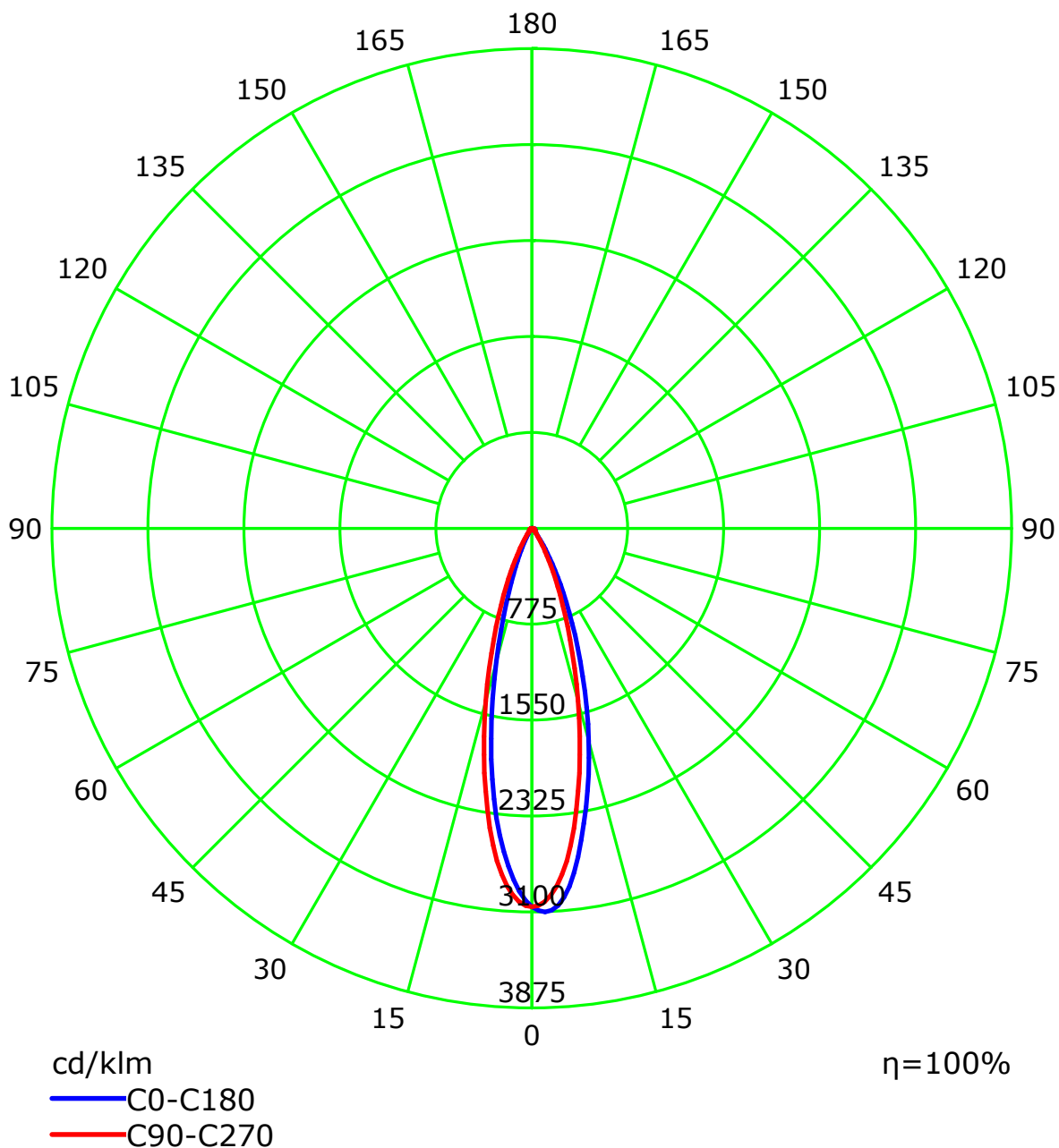
Luminous Intensity Distribution Curve



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:

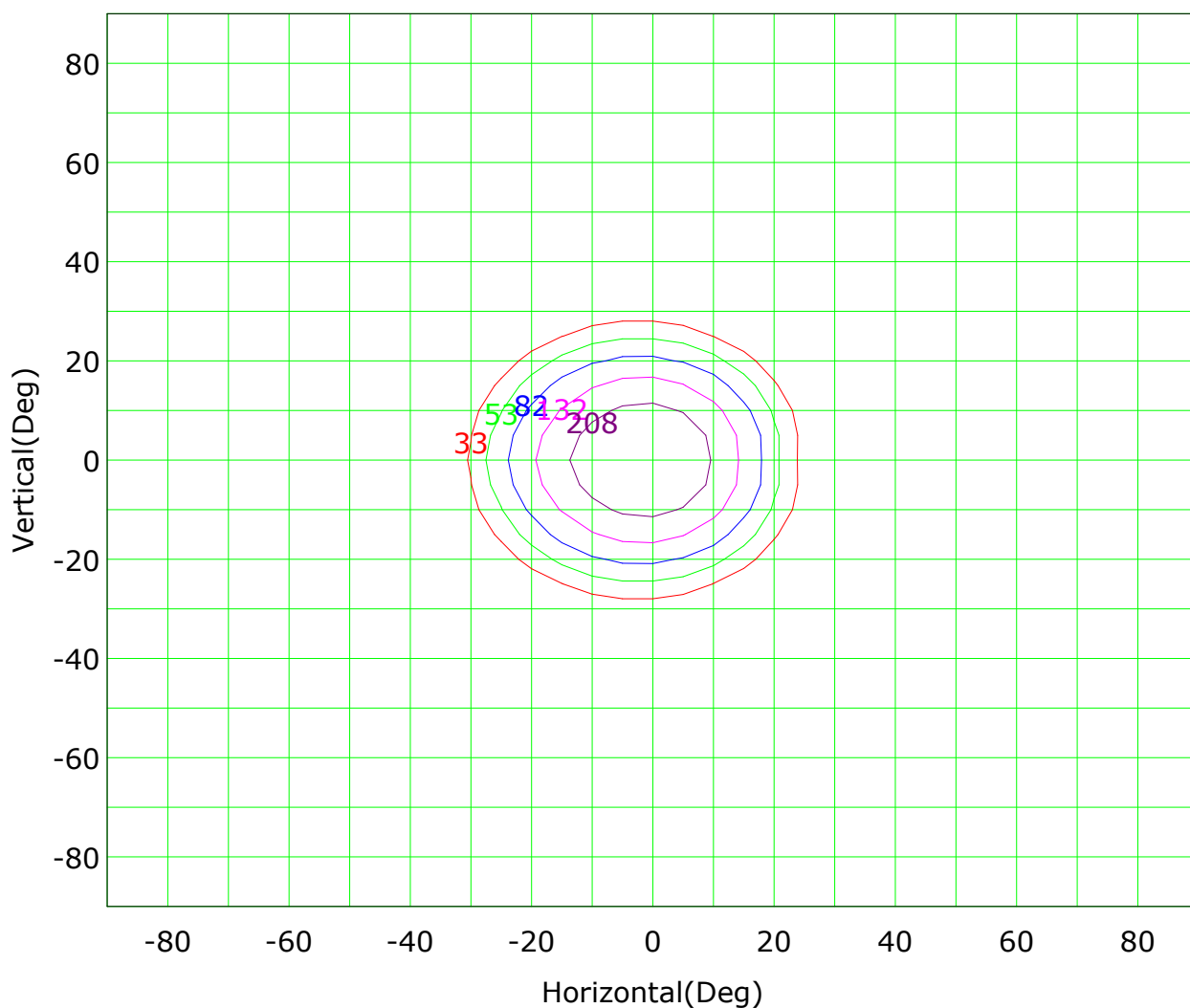
Luminous Intensity Distribution Curve(cd/klm)



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)



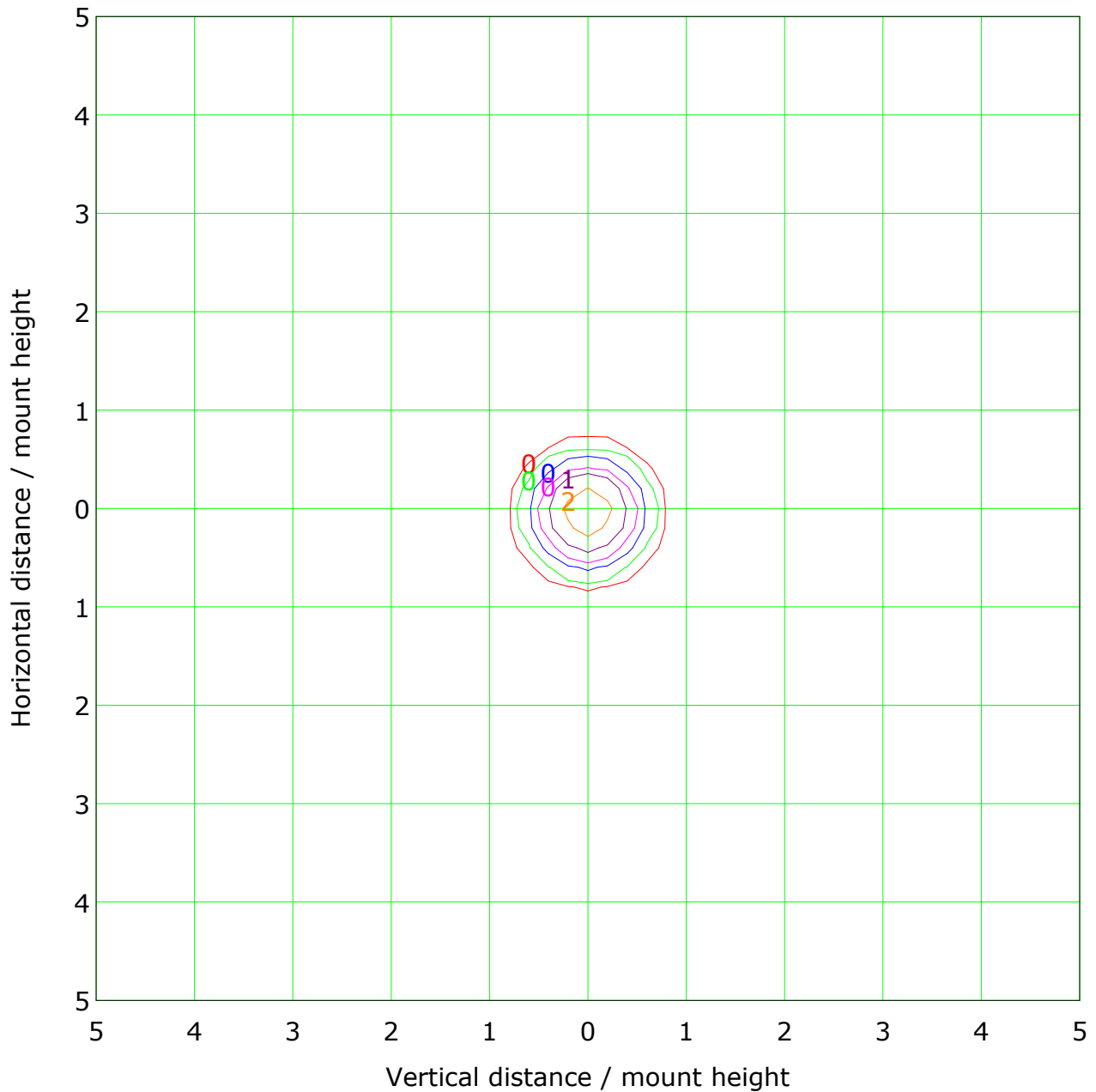
Imax (100%): 330 cd

(10%):	33 cd	(16%):	53 cd
(25%):	82 cd	(40%):	132 cd
(63%):	208 cd	(100%):	330 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



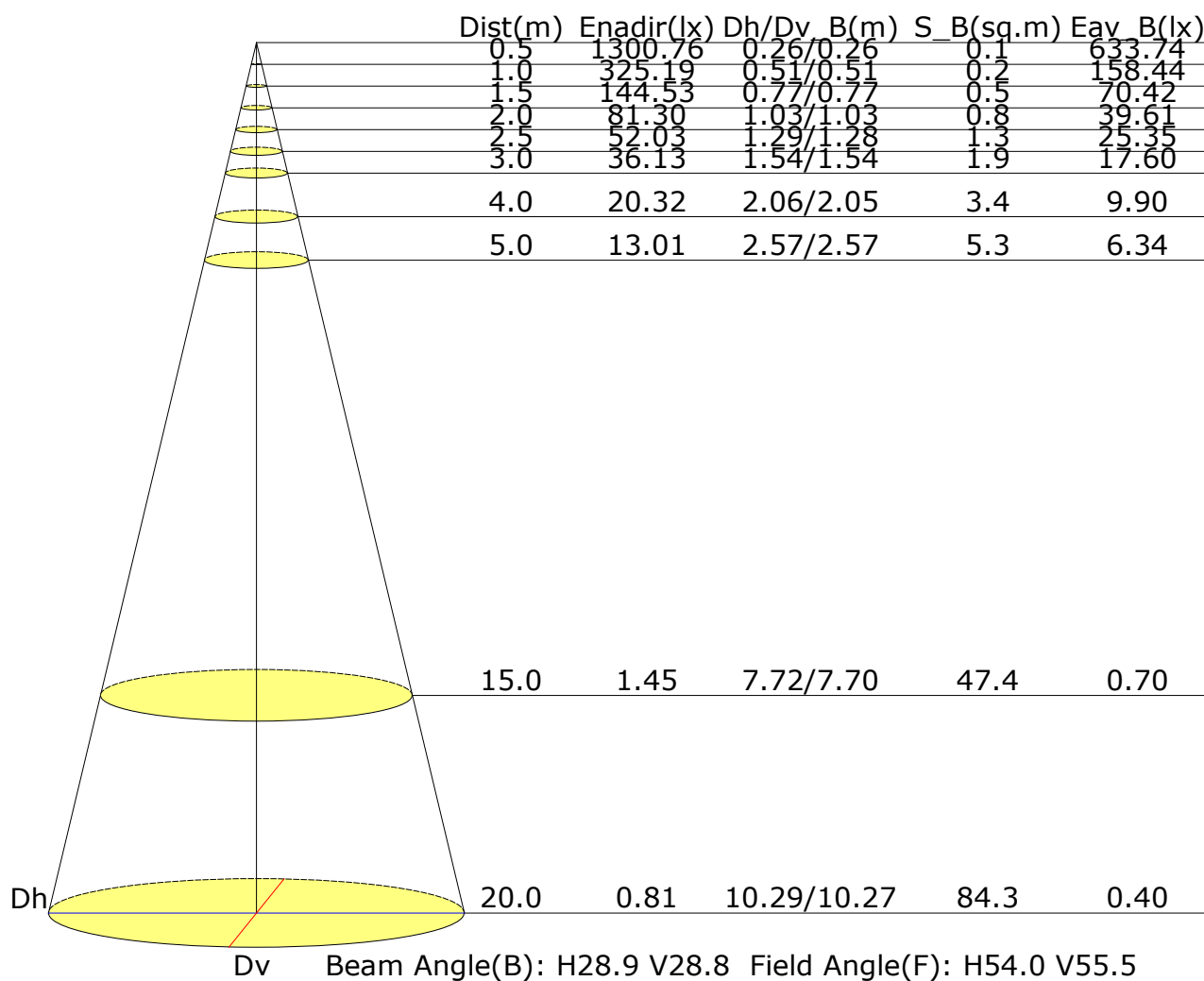
Mounting Height: 10.0m Max Lux(100%): 3.3 lx

(1%): 0.0 lx	(2%): 0.1 lx
(5%): 0.2 lx	(10%): 0.3 lx
(20%): 0.7 lx	(50%): 1.6 lx
(100%): 3.3 lx	

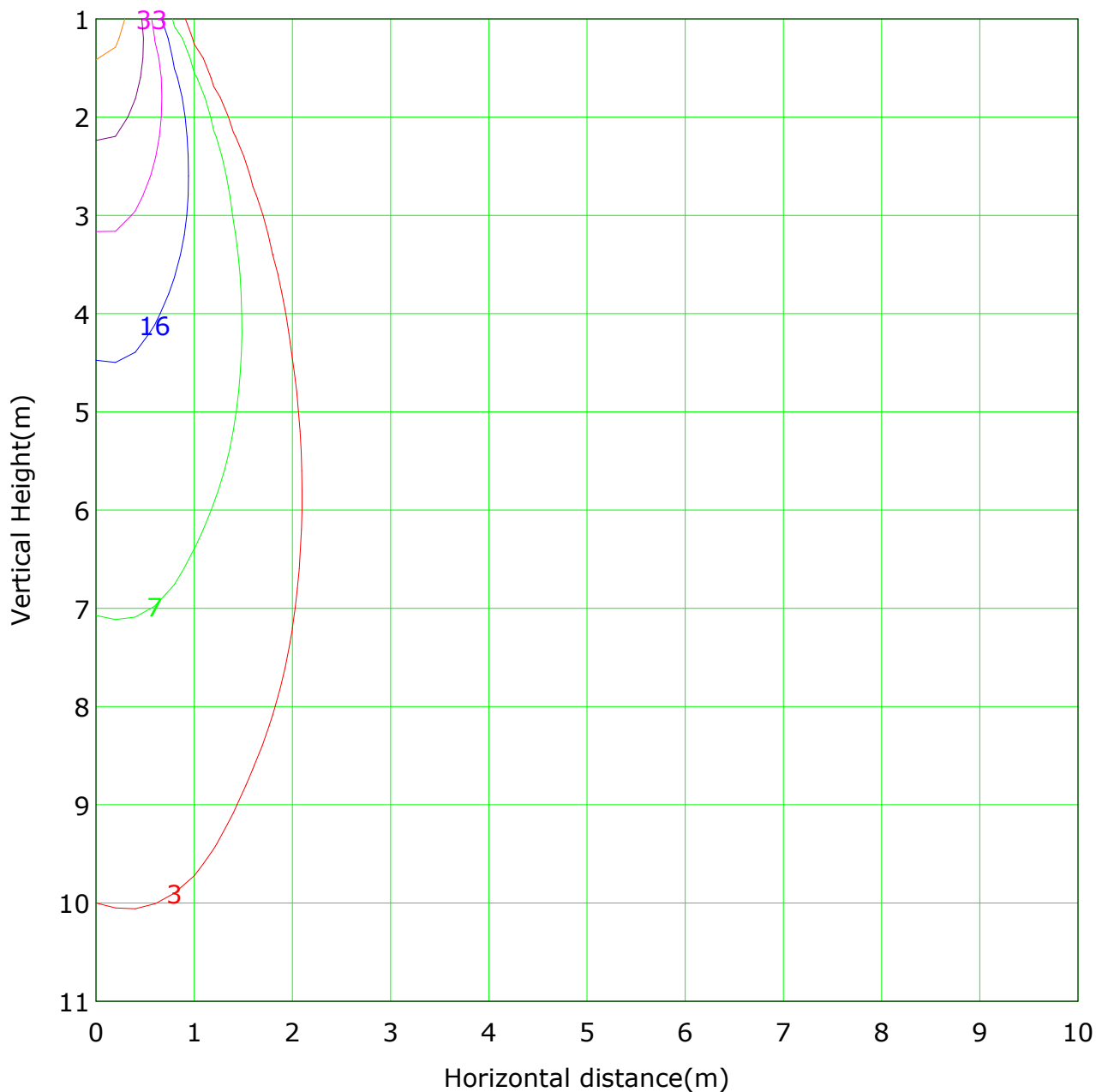
C Plane (°):0.0-180.0: 180.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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: 325.2 lx

(1%): 3.3 lx	(2%): 6.5 lx
(5%): 16.3 lx	(10%): 32.5 lx
(20%): 65.0 lx	(50%): 162.6 lx
(100%): 325.2 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:

Area Flux Table

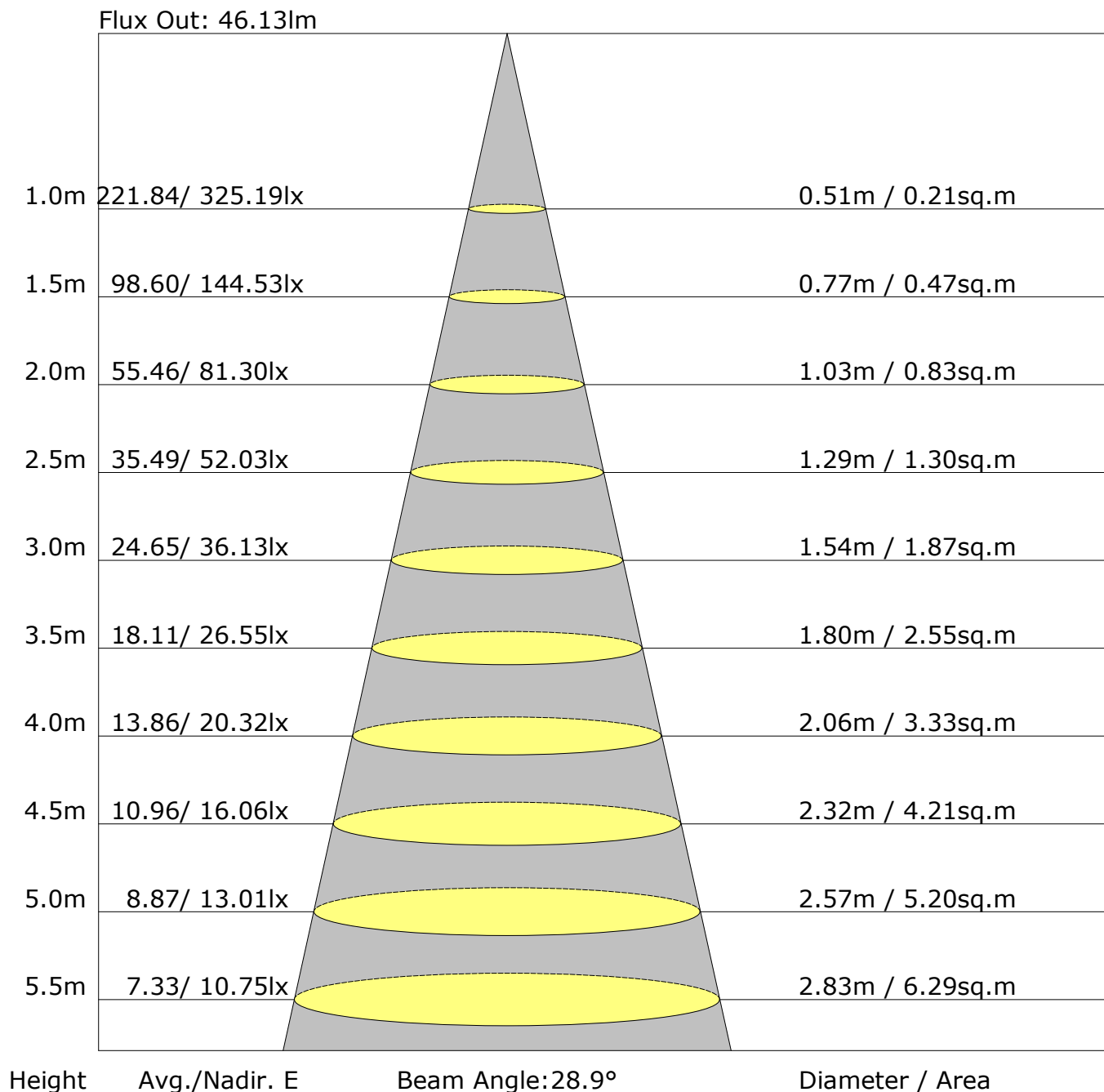
Unit: lm

Vertical plane														Orbit, min													
-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)/Flux(E)	Flux(E)							
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0							
-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0							
-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0							
-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0							
-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0							
-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0							
-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	3.3							
-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	14.2							
-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	26.4							
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	26.4							
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	14.2							
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	3.3							
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0							
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0							
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0							
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0							
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0							
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0							
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106								
Flux(T)	0.0	0.1	0.2	0.4	0.7	1.2	3.8	12.9	27.1	29.8	18.6	7.3	2.1	0.9	0.6	0.3	0.1	0.0									
Flux(E)	0.0	0.0	0.0	0.0	0.0	0.0	1.1	11.0	25.4	28.1	16.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0		88							
-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)/Flux(E)	Flux(E)							

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:

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	21.5	22.2	21.7	22.4	22.6	20.5	21.2	20.7	21.4	21.6
3H	22.7	23.4	23.0	23.6	23.9	21.8	22.5	22.1	22.7	23.0
4H	23.5	24.2	23.8	24.4	24.7	22.4	23.1	22.7	23.3	23.6
6H	24.0	24.6	24.3	24.9	25.2	22.9	23.5	23.2	23.8	24.1
8H	24.2	24.8	24.5	25.1	25.4	23.2	23.7	23.5	24.0	24.3
12H	24.4	25.0	24.8	25.3	25.6	23.5	24.0	23.8	24.3	24.7
X=4H Y=2H	21.9	22.5	22.2	22.8	23.0	21.0	21.7	21.3	21.9	22.2
3H	23.4	23.9	23.7	24.2	24.5	22.6	23.2	23.0	23.5	23.8
4H	24.4	24.9	24.8	25.2	25.6	23.4	23.9	23.8	24.3	24.6
6H	25.0	25.4	25.4	25.8	26.2	24.0	24.5	24.4	24.8	25.2
8H	25.2	25.6	25.6	26.0	26.4	24.3	24.7	24.8	25.1	25.5
12H	25.5	25.9	25.9	26.3	26.7	24.8	25.1	25.2	25.5	26.0
X=8H Y=4H	24.6	25.0	25.1	25.4	25.8	23.8	24.2	24.2	24.6	25.0
6H	25.4	25.7	25.8	26.1	26.6	24.5	24.9	25.0	25.3	25.8
8H	25.7	26.0	26.2	26.4	26.9	25.0	25.3	25.5	25.7	26.2
12H	26.2	26.4	26.6	26.9	27.4	25.6	25.8	26.1	26.3	26.8
X=12H Y=4H	24.6	25.0	25.1	25.4	25.9	23.8	24.2	24.3	24.6	25.0
6H	25.4	25.7	25.9	26.2	26.6	24.6	24.9	25.1	25.4	25.9
8H	25.8	26.1	26.3	26.5	27.0	25.1	25.4	25.6	25.9	26.4
Variations with the observer position at spacings:										
S=1.0H	+1.4/-0.5					+1.0/-0.5				
S=1.5H	+2.8/-0.8					+2.0/-0.8				
S=2.0H	+4.0/-1.3					+3.0/-1.1				

Calculate in accordance with CIE Pub.117. The table is revised with 106lm ($8\log(F/F_0) = -7.8$).

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	60	56.2
	FL (0°-30°)	51	47.8
	FM (30°-60°)	7	6.6
	FH (60°-80°)	2	1.5
	FVH (80°-90°)	0	0.3
	BACK LIGHT	47	43.8
	BL (0°-30°)	40	37.6
	BM (30°-60°)	5	4.7
	BH (60°-80°)	1	1.2
	BVH (80°-90°)	0	0.3
	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 _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	324.7	0.3	0.3	0.29	0.29
1.0-2.0	322.6	0.9	1.2	0.87	1.16
2.0-3.0	318.2	1.5	2.8	1.43	2.59
3.0-4.0	311.7	2.1	4.8	1.96	4.55
4.0-5.0	303.3	2.6	7.5	2.45	7.01
5.0-6.0	293.1	3.1	10.5	2.90	9.90
6.0-7.0	281.0	3.5	14.0	3.28	13.18
7.0-8.0	267.3	3.8	17.9	3.60	16.78
8.0-9.0	252.5	4.1	21.9	3.85	20.63
9.0-10.0	237.2	4.3	26.2	4.04	24.66
10.0-11.0	221.8	4.4	30.7	4.17	28.83
11.0-12.0	206.5	4.5	35.2	4.24	33.07
12.0-13.0	191.2	4.5	39.7	4.27	37.34
13.0-14.0	176.0	4.5	44.2	4.23	41.57
14.0-15.0	161.0	4.4	48.6	4.16	45.73
15.0-16.0	146.5	4.3	52.9	4.04	49.76
16.0-17.0	132.6	4.1	57.1	3.88	53.65
17.0-18.0	119.4	3.9	61.0	3.70	57.35
18.0-19.0	107.1	3.7	64.7	3.50	60.85
19.0-20.0	95.6	3.5	68.2	3.29	64.14
20.0-21.0	85.1	3.3	71.5	3.07	67.21
21.0-22.0	75.5	3.0	74.5	2.85	70.06
22.0-23.0	66.7	2.8	77.3	2.63	72.69
23.0-24.0	58.7	2.6	79.9	2.41	75.11
24.0-25.0	51.4	2.3	82.2	2.20	77.30
25.0-26.0	44.8	2.1	84.3	1.99	79.29
26.0-27.0	38.9	1.9	86.3	1.79	81.08
27.0-28.0	33.8	1.7	88.0	1.61	82.69
28.0-29.0	29.1	1.5	89.5	1.43	84.12
29.0-30.0	25.0	1.3	90.8	1.27	85.39
30.0-31.0	21.3	1.2	92.0	1.12	86.50
31.0-32.0	18.2	1.0	93.1	0.98	87.48
32.0-33.0	15.4	0.9	94.0	0.85	88.33
33.0-34.0	13.0	0.8	94.8	0.74	89.08
34.0-35.0	11.0	0.7	95.4	0.64	89.72
35.0-36.0	9.3	0.6	96.0	0.56	90.28

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	8.0	0.5	96.6	0.49	90.77
37.0-38.0	6.9	0.5	97.0	0.43	91.20
38.0-39.0	6.0	0.4	97.4	0.39	91.59
39.0-40.0	5.4	0.4	97.8	0.35	91.94
40.0-41.0	4.8	0.3	98.2	0.32	92.26
41.0-42.0	4.4	0.3	98.5	0.30	92.56
42.0-43.0	4.1	0.3	98.8	0.29	92.85
43.0-44.0	3.8	0.3	99.1	0.27	93.12
44.0-45.0	3.6	0.3	99.3	0.26	93.38
45.0-46.0	3.4	0.3	99.6	0.25	93.63
46.0-47.0	3.3	0.3	99.9	0.24	93.88
47.0-48.0	3.1	0.3	100.1	0.24	94.12
48.0-49.0	3.0	0.2	100.4	0.23	94.35
49.0-50.0	2.9	0.2	100.6	0.23	94.58
50.0-51.0	2.8	0.2	100.9	0.23	94.81
51.0-52.0	2.7	0.2	101.1	0.22	95.03
52.0-53.0	2.7	0.2	101.3	0.22	95.25
53.0-54.0	2.6	0.2	101.6	0.21	95.46
54.0-55.0	2.5	0.2	101.8	0.21	95.67
55.0-56.0	2.4	0.2	102.0	0.21	95.88
56.0-57.0	2.3	0.2	102.2	0.20	96.08
57.0-58.0	2.3	0.2	102.4	0.20	96.28
58.0-59.0	2.2	0.2	102.6	0.19	96.47
59.0-60.0	2.1	0.2	102.8	0.19	96.66
60.0-61.0	2.1	0.2	103.0	0.18	96.84
61.0-62.0	2.0	0.2	103.2	0.18	97.02
62.0-63.0	1.9	0.2	103.4	0.18	97.20
63.0-64.0	1.9	0.2	103.6	0.17	97.37
64.0-65.0	1.8	0.2	103.8	0.17	97.54
65.0-66.0	1.8	0.2	103.9	0.17	97.70
66.0-67.0	1.7	0.2	104.1	0.16	97.87
67.0-68.0	1.7	0.2	104.3	0.16	98.03
68.0-69.0	1.6	0.2	104.5	0.16	98.19
69.0-70.0	1.6	0.2	104.6	0.15	98.34
70.0-71.0	1.4	0.1	104.8	0.14	98.47
71.0-72.0	1.2	0.1	104.9	0.12	98.60

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	325.2	325.2								
G1.0	328.4	320.0								
G2.0	329.8	312.2								
G3.0	328.6	302.2								
G4.0	324.8	291.0								
G5.0	318.4	278.8								
G6.0	309.5	265.5								
G7.0	298.2	250.9								
G8.0	285.1	235.0								
G9.0	271.2	218.5								
G10.0	257.5	201.5								
G11.0	244.0	184.3								
G12.0	230.6	167.1								
G13.0	217.1	150.0								
G14.0	203.2	133.6								
G15.0	189.2	118.1								
G16.0	175.1	103.7								
G17.0	161.1	90.6								
G18.0	147.5	78.6								
G19.0	134.4	67.7								
G20.0	121.9	58.2								
G21.0	110.2	50.0								
G22.0	99.2	42.6								
G23.0	88.8	36.2								
G24.0	79.1	30.6								
G25.0	70.1	25.6								
G26.0	61.9	21.5								
G27.0	54.3	18.1								
G28.0	47.4	15.3								
G29.0	40.9	12.9								
G30.0	35.2	10.9								
G31.0	30.0	9.3								
G32.0	25.5	8.0								
G33.0	21.3	6.9								
G34.0	17.8	6.1								
G35.0	14.7	5.5								
G36.0	12.2	4.9								

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:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	10.2	4.5								
G38.0	8.6	4.2								
G39.0	7.4	3.9								
G40.0	6.5	3.7								
G41.0	5.7	3.5								
G42.0	5.2	3.3								
G43.0	4.8	3.1								
G44.0	4.4	3.0								
G45.0	4.1	2.9								
G46.0	3.9	2.8								
G47.0	3.7	2.7								
G48.0	3.5	2.7								
G49.0	3.4	2.6								
G50.0	3.3	2.5								
G51.0	3.2	2.4								
G52.0	3.1	2.3								
G53.0	3.0	2.2								
G54.0	2.9	2.1								
G55.0	2.9	2.1								
G56.0	2.8	2.0								
G57.0	2.7	1.9								
G58.0	2.6	1.9								
G59.0	2.5	1.8								
G60.0	2.4	1.8								
G61.0	2.3	1.7								
G62.0	2.3	1.7								
G63.0	2.2	1.6								
G64.0	2.1	1.6								
G65.0	2.0	1.6								
G66.0	1.9	1.5								
G67.0	1.9	1.5								
G68.0	1.8	1.5								
G69.0	1.8	1.5								
G70.0	1.7	1.4								
G71.0	1.7	0.9								
G72.0	1.6	0.8								
G73.0	1.6	0.7								

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

[illegible]

Inspector: