

Report No.:

Test Time: 2025-08-26 20:40

## Luminaire Property

Luminaire Manufacturer:

Lamp Description: V6HD F90 930

Luminous Width (mm): -40

Current: 0.081 A

Power Factor: 0.527

Luminous Length (mm): -40

Voltage: 228.4 V

Power: 9.80 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 891.4 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H54.7

Vertical Diffuse Angle(50%): V54.7

Luminaire Efficacy Rating (LER): 91.01

Max. Intensity: 1210.81 cd

S/MH(C0/C180): 0.89

Total Rated Lamp Lumens: 891.4 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 1201.01 cd

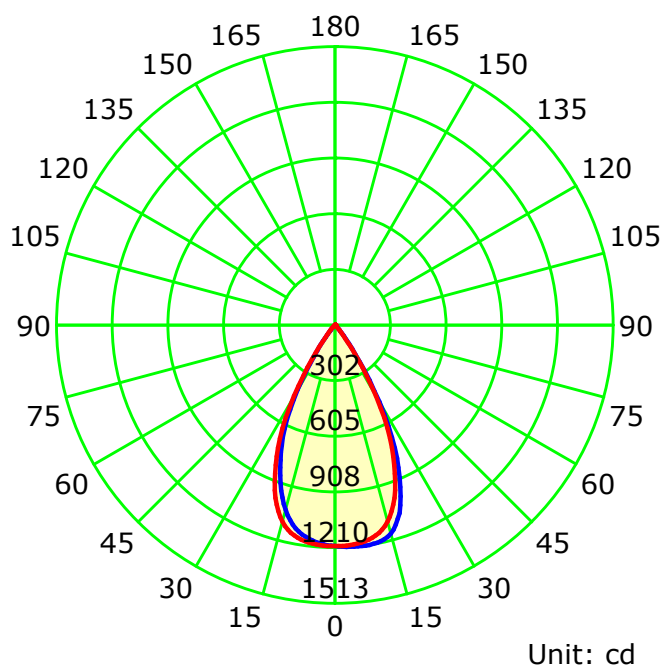
Pos of Max. Intensity: H0 V9

S/MH(C90/C270): 0.89

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

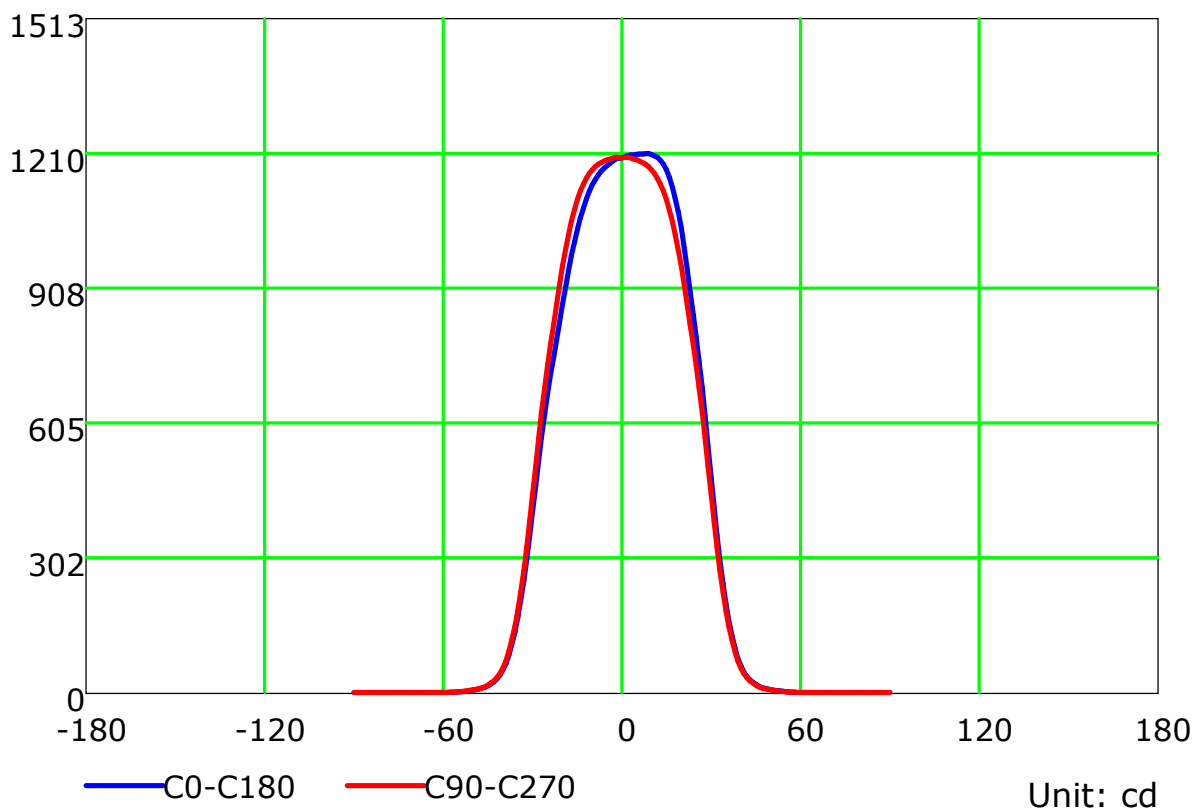
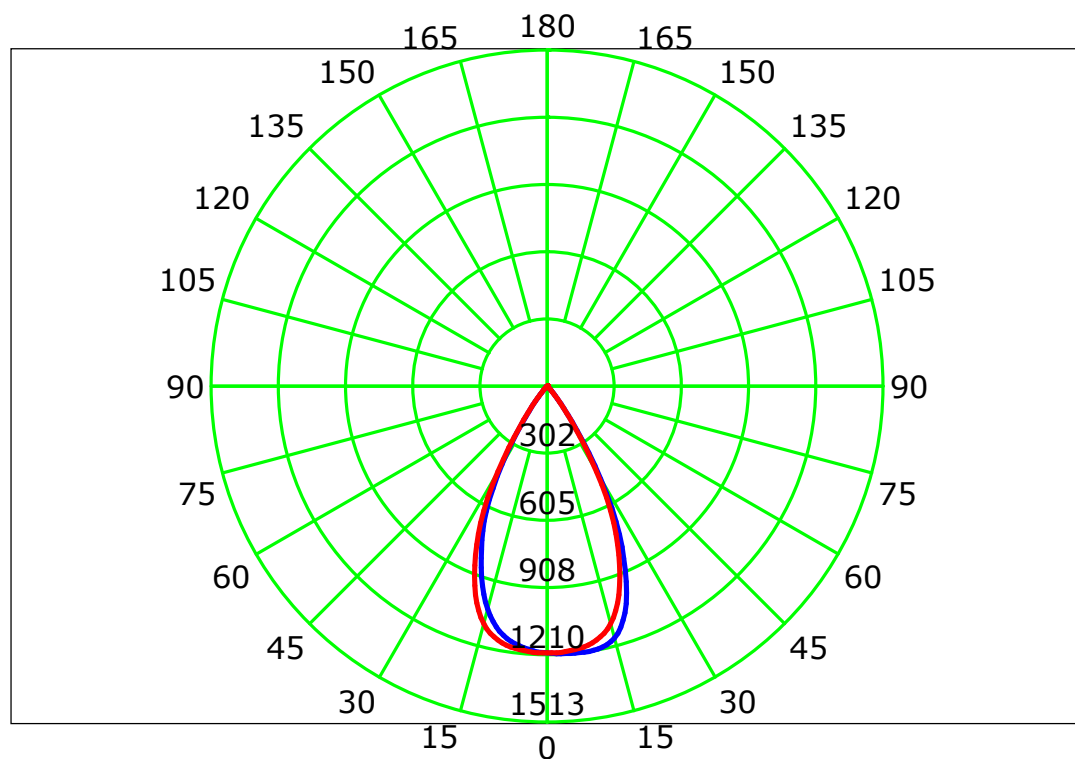
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

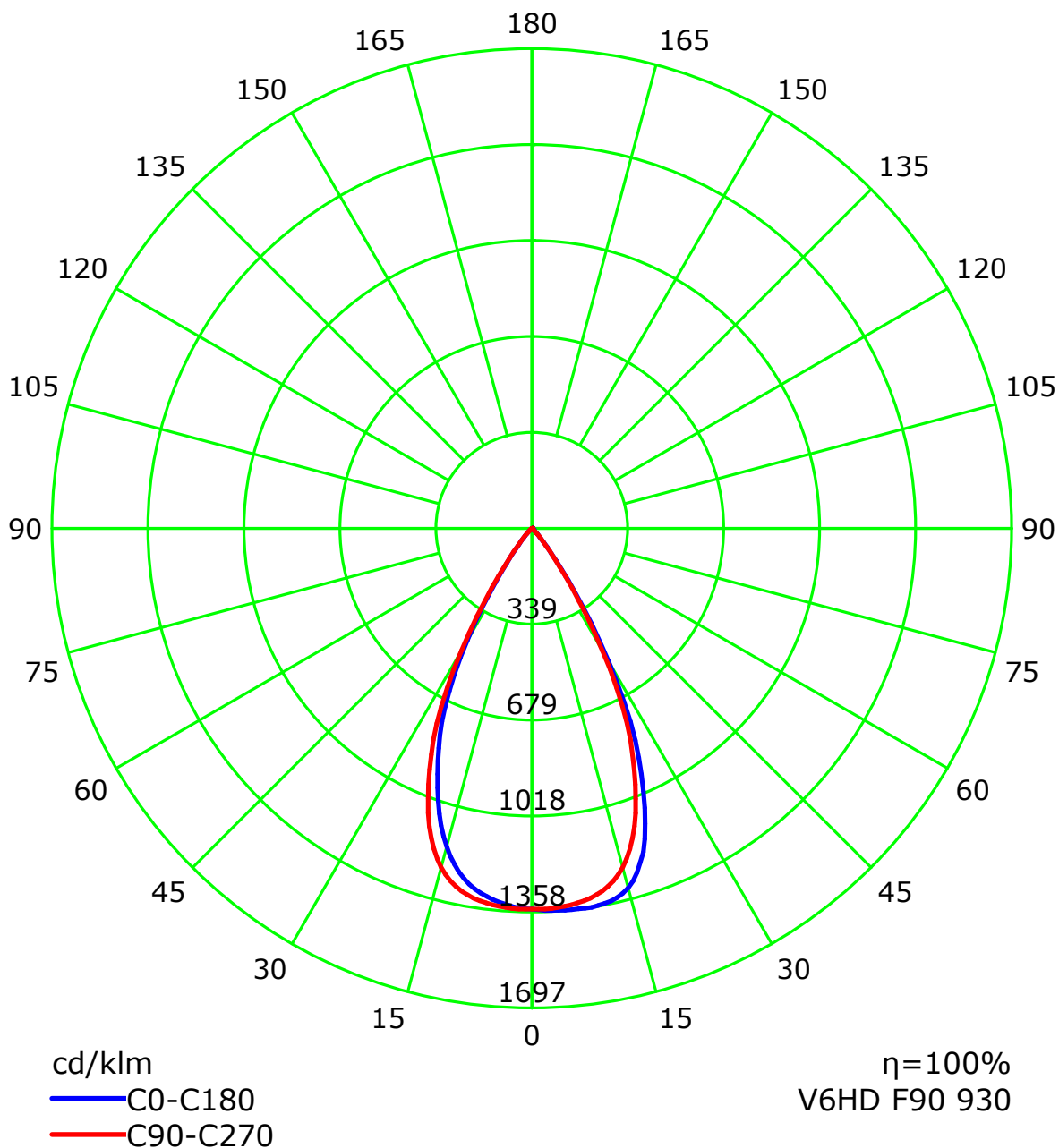
## Luminous Intensity Distribution Curve



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: 2.905 m  
Humidity:  
Inspector:

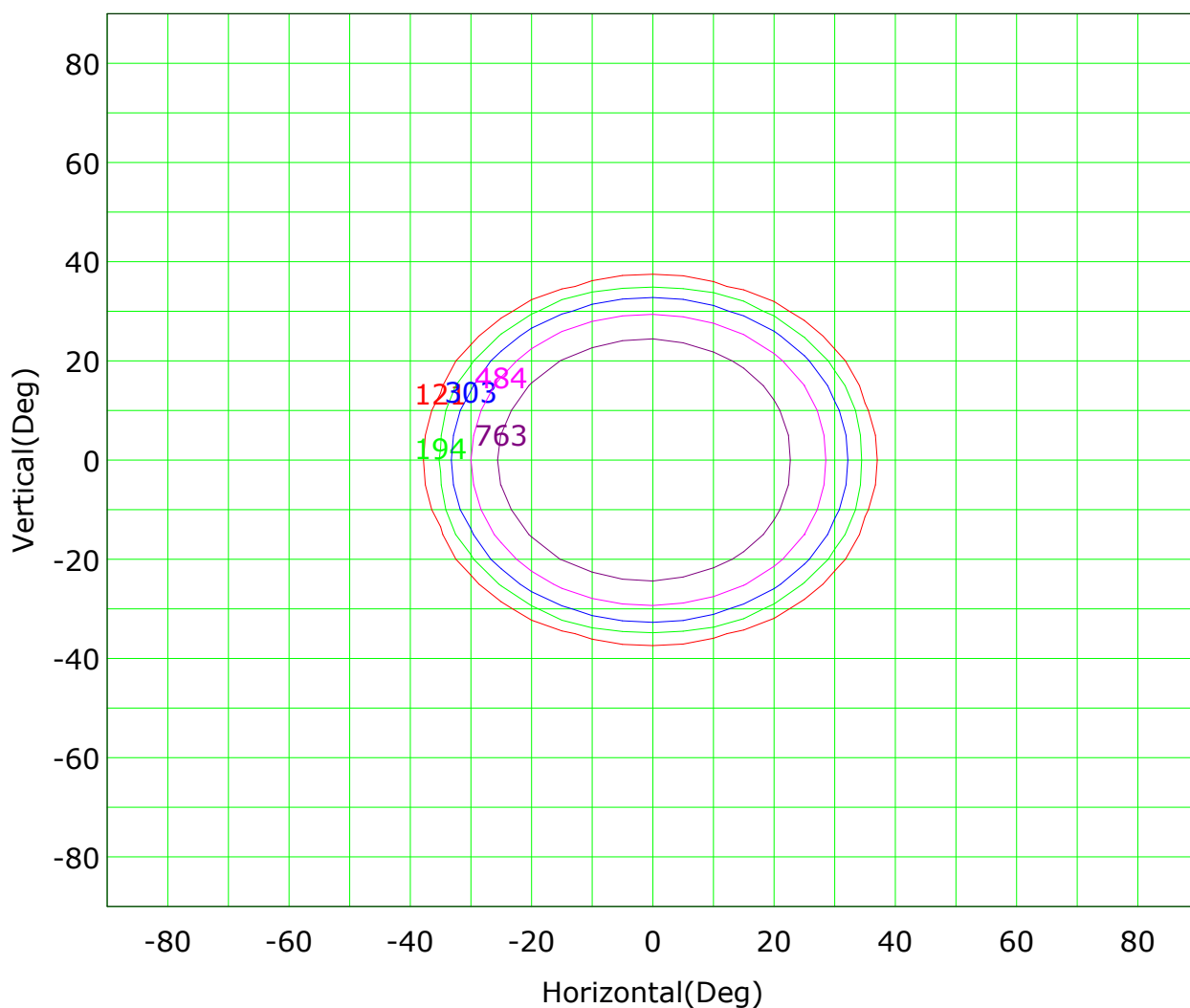
## Luminous Intensity Distribution Curve(cd/klm)



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: 2.905 m  
Humidity:  
Inspector:

## Isocandela (rectangle)



Imax (100%): 1211 cd

( 10%): 121 cd	( 16%): 194 cd
( 25%): 303 cd	( 40%): 484 cd
( 63%): 763 cd	(100%): 1211 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

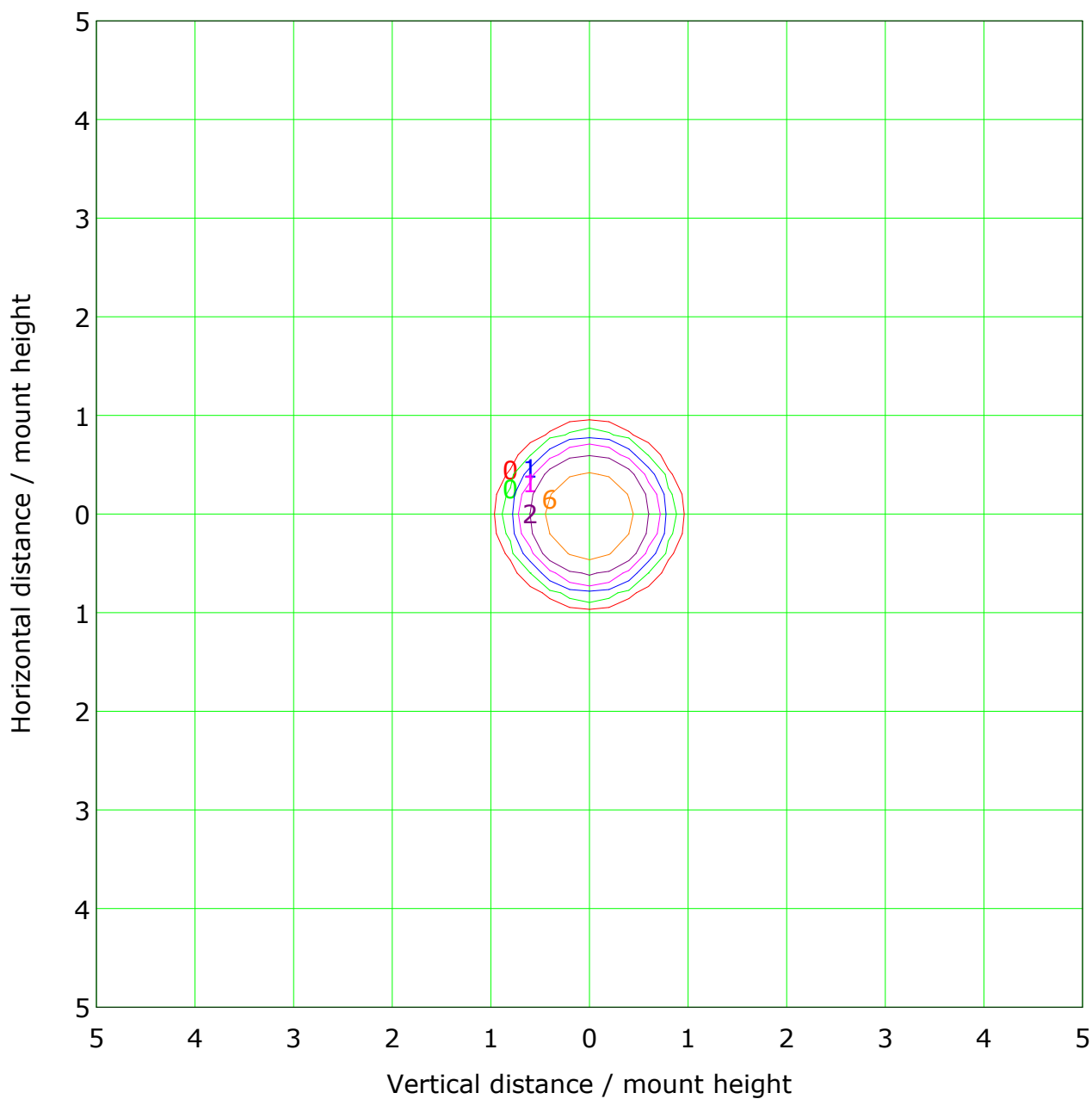
Test Device: CHL-6E

Distance: 2.905 m

Humidity:

Inspector:

## IsoLux Plot



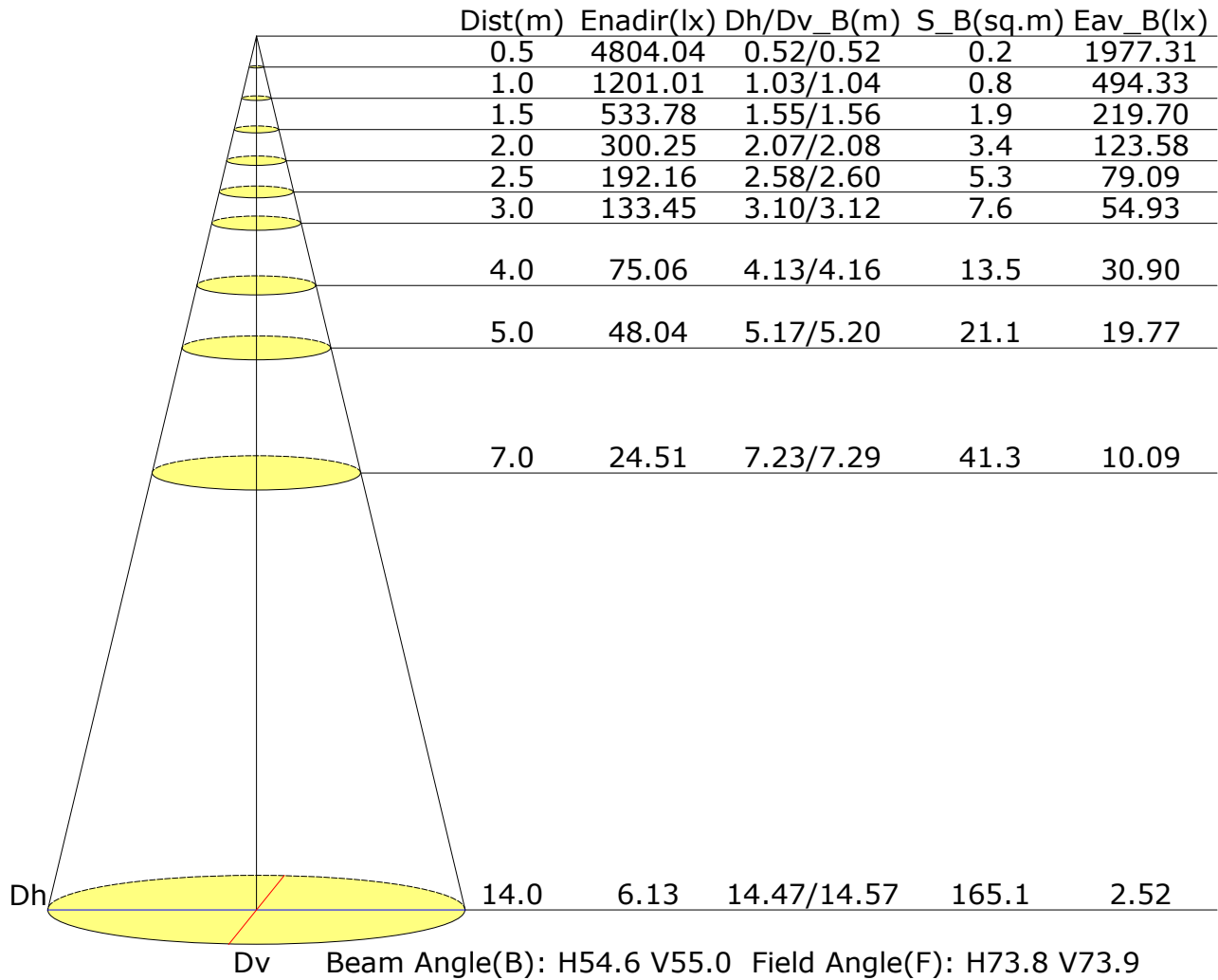
Mounting Height: 10.0m    Max Lux(100%): 12.0 lx

( 1%): 0.1 lx	( 2%): 0.2 lx
( 5%): 0.6 lx	( 10%): 1.2 lx
( 20%): 2.4 lx	( 50%): 6.0 lx
(100%): 12.0 lx	

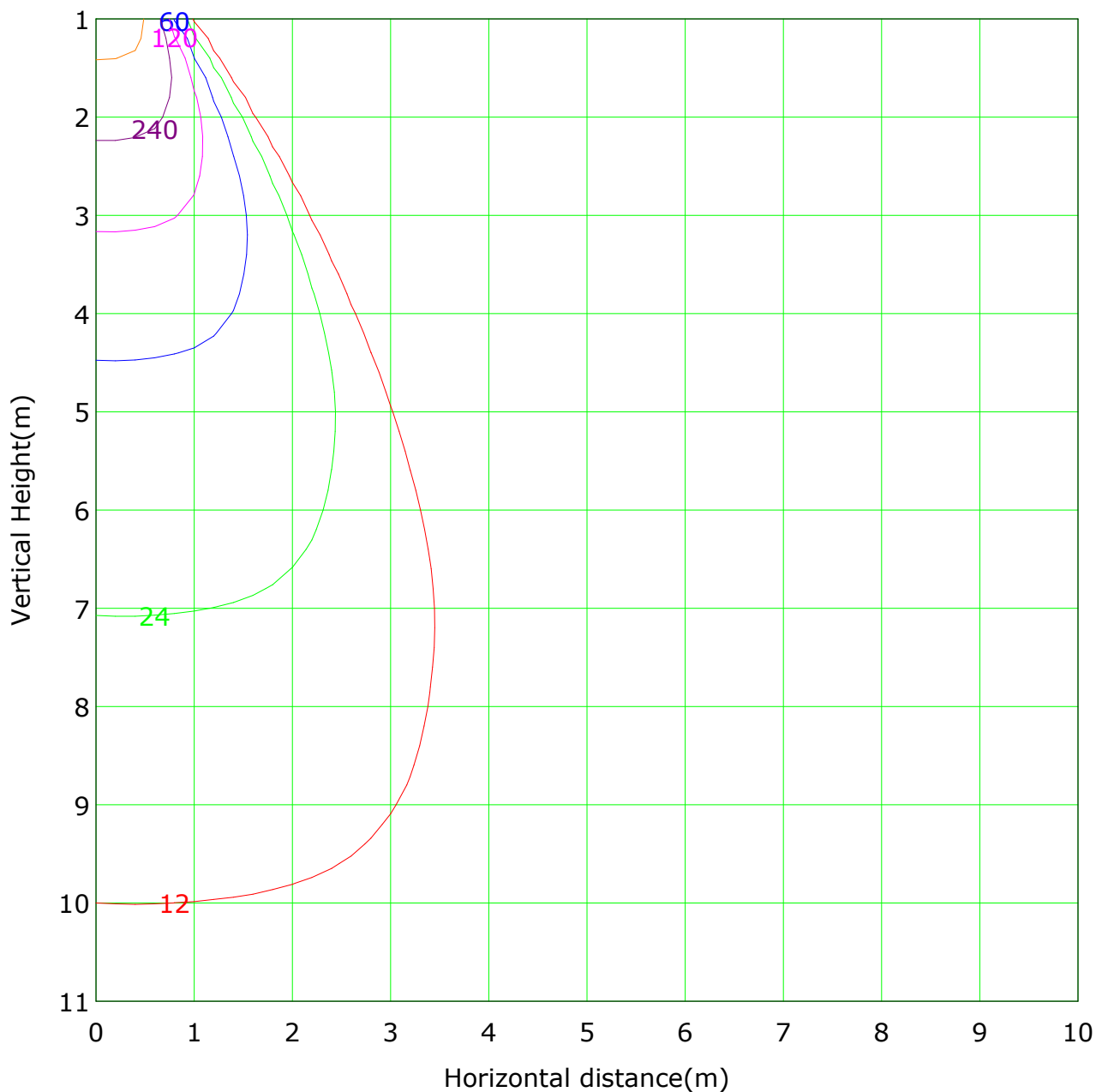
C Plane (°):0.0-180.0: 180.0  
Test Lab:  
Test Type: TYPE C  
Temperature:  
Operator:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:

## Illuminance at a Distance



## Vertical IsoLux Plot



Lowest(m): 1.0m   Highest(m): 11.0m   Max Lux: 1201.0 lx  
— ( 1%): 12.0 lx   — ( 2%): 24.0 lx  
— ( 5%): 60.1 lx   — ( 10%): 120.1 lx  
— ( 20%): 240.2 lx   — ( 50%): 600.5 lx  
— (100%):1201.0 lx

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

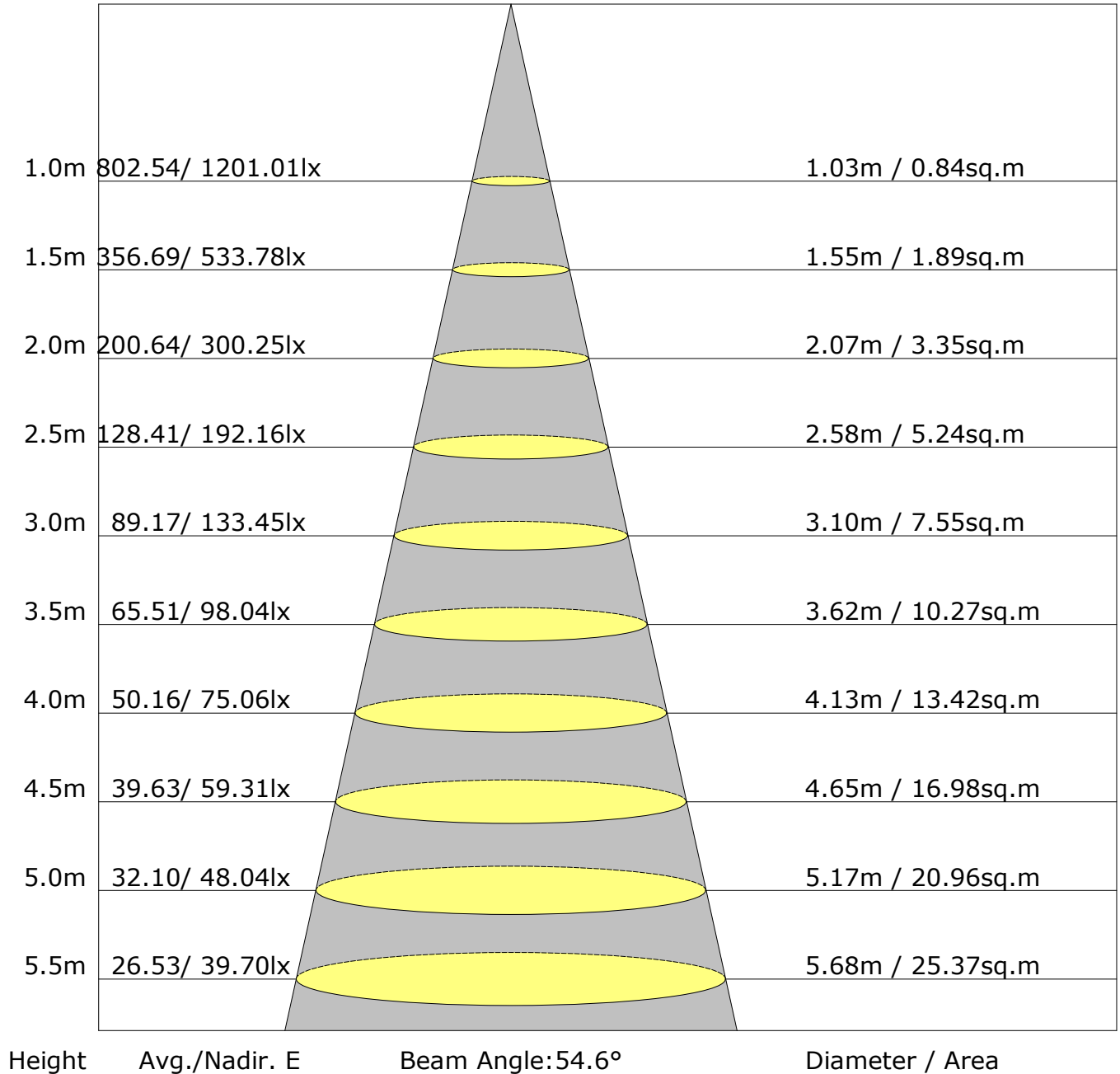
Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:



## The Average Illuminance Effective Figure

Flux Out: 672.94lm



## 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	20.4	21.2	20.7	21.4	21.6	20.1	20.9	20.3	21.1	21.3
3H	20.3	21.0	20.6	21.3	21.5	19.9	20.7	20.2	20.9	21.1
4H	20.2	20.9	20.5	21.2	21.4	19.9	20.5	20.2	20.8	21.1
6H	20.2	20.8	20.5	21.1	21.3	19.8	20.4	20.1	20.7	21.0
8H	20.1	20.7	20.5	21.0	21.3	19.8	20.3	20.1	20.6	20.9
12H	20.1	20.6	20.4	21.0	21.3	19.7	20.3	20.1	20.6	20.9
X=4H Y=2H	20.2	20.9	20.5	21.2	21.4	19.9	20.5	20.2	20.8	21.1
3H	20.1	20.6	20.4	21.0	21.3	19.7	20.3	20.1	20.6	20.9
4H	20.0	20.5	20.4	20.8	21.2	19.6	20.1	20.0	20.5	20.8
6H	19.9	20.4	20.3	20.7	21.1	19.6	20.0	20.0	20.4	20.8
8H	19.9	20.3	20.3	20.7	21.1	19.5	19.9	19.9	20.3	20.7
12H	19.8	20.2	20.3	20.6	21.0	19.5	19.8	19.9	20.2	20.7
X=8H Y=4H	19.9	20.3	20.3	20.7	21.1	19.5	19.9	19.9	20.3	20.7
6H	19.8	20.1	20.2	20.5	21.0	19.4	19.7	19.9	20.2	20.6
8H	19.7	20.0	20.2	20.5	20.9	19.4	19.7	19.8	20.1	20.6
12H	19.7	19.9	20.2	20.4	20.9	19.3	19.6	19.8	20.0	20.5
X=12H Y=4H	19.8	20.2	20.3	20.6	21.0	19.5	19.8	19.9	20.2	20.7
6H	19.7	20.0	20.2	20.5	20.9	19.4	19.7	19.8	20.1	20.6
8H	19.7	19.9	20.2	20.4	20.9	19.3	19.6	19.8	20.0	20.5
Variations with the observer position at spacings:										
S=1.0H	+6.2/-19.9					+6.1/-20.2				
S=1.5H	+9.0/-31.5					+9.0/-33.4				
S=2.0H	+11.0/-1.\$					+11.0/-1.\$				

Calculate in accordance with CIE Pub.117. The table is revised with  $891lm$  ( $8\log(F/F_0) = -0.4$ ).

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: 2.905 m  
Humidity:  
Inspector:

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**

	ZONE	LUMENS	% LAMP LUMENS
	FORWARD LIGHT	461	51.7
	FL ( 0°-30°)	386	43.3
	FM (30°-60°)	75	8.4
	FH (60°-80°)	0	0.0
	FVH (80°-90°)	0	0.0
	BACK LIGHT	430	48.3
	BL ( 0°-30°)	361	40.5
	BM (30°-60°)	69	7.7
	BH (60°-80°)	0	0.0
	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: 2.905 m  
Humidity:  
Inspector:

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1201.3	1.1	1.1	0.13	0.13
1.0-2.0	1202.0	3.5	4.6	0.39	0.52
2.0-3.0	1201.8	5.7	10.3	0.64	1.16
3.0-4.0	1199.8	8.0	18.4	0.90	2.06
4.0-5.0	1197.5	10.3	28.7	1.16	3.22
5.0-6.0	1195.2	12.6	41.2	1.41	4.63
6.0-7.0	1192.0	14.8	56.0	1.66	6.29
7.0-8.0	1188.3	17.0	73.1	1.91	8.20
8.0-9.0	1183.9	19.2	92.2	2.15	10.35
9.0-10.0	1177.7	21.3	113.6	2.39	12.74
10.0-11.0	1169.8	23.4	136.9	2.62	15.36
11.0-12.0	1160.5	25.4	162.3	2.85	18.21
12.0-13.0	1148.8	27.3	189.6	3.06	21.27
13.0-14.0	1134.4	29.0	218.6	3.26	24.53
14.0-15.0	1116.9	30.7	249.3	3.44	27.97
15.0-16.0	1096.1	32.1	281.4	3.60	31.57
16.0-17.0	1071.4	33.4	314.8	3.74	35.31
17.0-18.0	1042.6	34.4	349.2	3.86	39.17
18.0-19.0	1010.9	35.2	384.3	3.95	43.12
19.0-20.0	975.5	35.7	420.0	4.01	47.12
20.0-21.0	935.4	35.9	456.0	4.03	51.15
21.0-22.0	893.0	35.9	491.9	4.03	55.18
22.0-23.0	849.4	35.6	527.5	4.00	59.18
23.0-24.0	804.4	35.2	562.7	3.95	63.12
24.0-25.0	758.9	34.5	597.2	3.87	67.00
25.0-26.0	710.8	33.6	630.7	3.76	70.76
26.0-27.0	657.9	32.2	662.9	3.61	74.37
27.0-28.0	600.7	30.4	693.3	3.41	77.79
28.0-29.0	540.0	28.3	721.6	3.17	80.96
29.0-30.0	477.2	25.8	747.4	2.89	83.85
30.0-31.0	415.7	23.1	770.5	2.60	86.44
31.0-32.0	356.6	20.4	790.9	2.29	88.73
32.0-33.0	301.1	17.7	808.7	1.99	90.72
33.0-34.0	250.6	15.2	823.8	1.70	92.43
34.0-35.0	205.5	12.8	836.6	1.43	93.86
35.0-36.0	166.8	10.6	847.2	1.19	95.05

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: 2.905 m  
Humidity:  
Inspector:

## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	133.6	8.7	856.0	0.98	96.03
37.0-38.0	105.6	7.0	863.0	0.79	96.82
38.0-39.0	82.2	5.6	868.6	0.63	97.45
39.0-40.0	63.3	4.4	873.0	0.50	97.94
40.0-41.0	49.0	3.5	876.5	0.39	98.33
41.0-42.0	38.4	2.8	879.3	0.31	98.65
42.0-43.0	30.5	2.3	881.6	0.25	98.90
43.0-44.0	24.3	1.8	883.4	0.21	99.11
44.0-45.0	19.4	1.5	884.9	0.17	99.27
45.0-46.0	15.3	1.2	886.1	0.13	99.41
46.0-47.0	12.1	1.0	887.1	0.11	99.52
47.0-48.0	10.0	0.8	887.9	0.09	99.61
48.0-49.0	8.4	0.7	888.6	0.08	99.69
49.0-50.0	7.0	0.6	889.1	0.07	99.75
50.0-51.0	5.8	0.5	889.6	0.05	99.81
51.0-52.0	4.6	0.4	890.0	0.04	99.85
52.0-53.0	3.6	0.3	890.3	0.04	99.89
53.0-54.0	2.9	0.3	890.6	0.03	99.91
54.0-55.0	2.2	0.2	890.8	0.02	99.94
55.0-56.0	1.7	0.2	890.9	0.02	99.95
56.0-57.0	1.3	0.1	891.1	0.01	99.97
57.0-58.0	1.0	0.1	891.1	0.01	99.98
58.0-59.0	0.6	0.1	891.2	0.01	99.98
59.0-60.0	0.4	0.0	891.2	0.00	99.99
60.0-61.0	0.3	0.0	891.3	0.00	99.99
61.0-62.0	0.2	0.0	891.3	0.00	99.99
62.0-63.0	0.1	0.0	891.3	0.00	99.99
63.0-64.0	0.1	0.0	891.3	0.00	100.00
64.0-65.0	0.1	0.0	891.3	0.00	100.00
65.0-66.0	0.1	0.0	891.3	0.00	100.00
66.0-67.0	0.1	0.0	891.4	0.00	100.00
67.0-68.0	0.0	0.0	891.4	0.00	100.00
68.0-69.0	0.0	0.0	891.4	0.00	100.00
69.0-70.0	0.0	0.0	891.4	0.00	100.00
70.0-71.0	0.0	0.0	891.4	0.00	100.00
71.0-72.0	0.0	0.0	891.4	0.00	100.00

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: 2.905 m  
Humidity:  
Inspector:

Gamma Plane (°):0.0-90.0:1.0  
Test Device: CHL-6E  
Distance: 2.905 m  
Humidity:  
Inspector:

## Candlepower Table

Unit: cd

G\C	C0.0	C180.0								
G0.0	1201.0	1201.0								
G1.0	1203.1	1200.2								
G2.0	1206.2	1198.6								
G3.0	1207.7	1194.7								
G4.0	1207.9	1189.0								
G5.0	1209.1	1184.1								
G6.0	1210.0	1177.8								
G7.0	1209.7	1170.7								
G8.0	1210.7	1162.3								
G9.0	1210.8	1151.9								
G10.0	1208.3	1139.6								
G11.0	1205.6	1125.6								
G12.0	1202.3	1108.3								
G13.0	1196.1	1088.4								
G14.0	1186.9	1066.1								
G15.0	1174.6	1040.1								
G16.0	1157.9	1011.8								
G17.0	1135.1	980.8								
G18.0	1108.2	946.3								
G19.0	1080.0	909.2								
G20.0	1042.7	870.3								
G21.0	998.2	830.6								
G22.0	951.2	791.8								
G23.0	901.0	753.4								
G24.0	849.2	714.2								
G25.0	799.4	672.7								
G26.0	744.7	626.4								
G27.0	685.5	575.2								
G28.0	621.5	520.8								
G29.0	553.0	464.7								
G30.0	483.7	407.4								
G31.0	418.7	352.8								
G32.0	354.8	300.1								
G33.0	297.7	251.9								
G34.0	244.7	207.9								
G35.0	200.1	169.4								
G36.0	161.2	136.5								

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: 2.905 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C180.0								
G37.0	128.4	108.2								
G38.0	101.1	84.6								
G39.0	77.6	65.3								
G40.0	59.7	50.6								
G41.0	46.4	39.4								
G42.0	36.5	31.3								
G43.0	29.4	24.6								
G44.0	23.5	19.7								
G45.0	19.0	15.4								
G46.0	14.7	12.3								
G47.0	11.5	10.1								
G48.0	9.9	8.5								
G49.0	8.3	6.8								
G50.0	7.1	5.7								
G51.0	5.7	4.5								
G52.0	4.8	3.4								
G53.0	3.9	2.5								
G54.0	2.9	2.1								
G55.0	2.2	1.7								
G56.0	1.7	1.1								
G57.0	1.4	1.0								
G58.0	1.0	0.6								
G59.0	0.7	0.3								
G60.0	0.6	0.1								
G61.0	0.4	0.1								
G62.0	0.4	0.0								
G63.0	0.1	0.0								
G64.0	0.3	0.0								
G65.0	0.3	0.0								
G66.0	0.1	0.0								
G67.0	0.1	0.0								
G68.0	0.0	0.0								
G69.0	0.0	0.0								
G70.0	0.0	0.0								
G71.0	0.0	0.0								
G72.0	0.0	0.0								
G73.0	0.0	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: 2.905 m  
Humidity:  
Inspector:



Unit: cd

Inspector: