

Report No.: TH-118A

Test Time: 2019/9/6 18:20

Luminaire Property

Luminaire Manufacturer:
 Luminaire Description: VMC31710
 Current: 0.643 A
 Power Factor: 0.993

Voltage: 120 V
 Power: 77.85 W

Photometric Results

CIE Class: Direct
 Measurement Flux: 3892.5 lm
 Downward Ratio: 100%
 Horizontal Diffuse Angle(50%): H112.4
 Vertical Diffuse Angle(50%): V111
 Luminaire Efficacy Rating (LER): 26.38
 Max. Intensity: 722.92 cd
 S/MH(C0/C180): 1.25

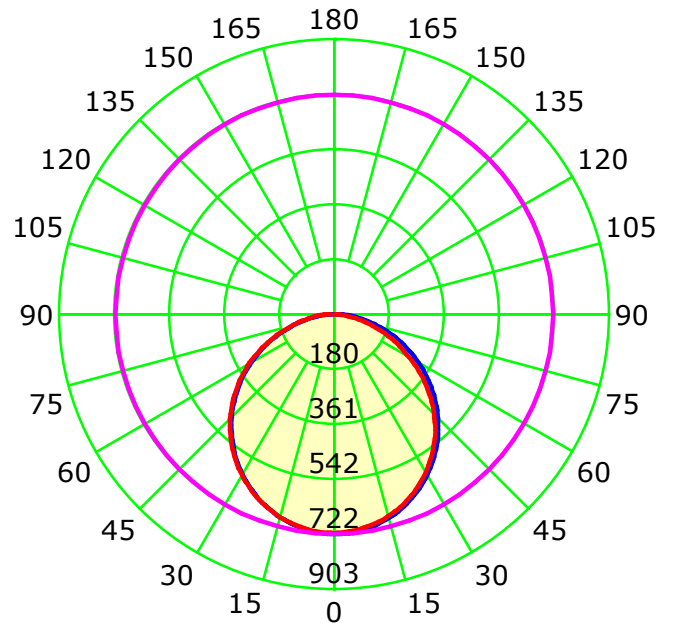
Total Rated Lamp Lumens: 3892.5 lm
 Efficiency: 100%
 Upward Ratio: 0%

Central Intensity: 722.92 cd
 Pos of Max. Intensity: H0 V0
 S/MH(C90/C270): 1.25

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

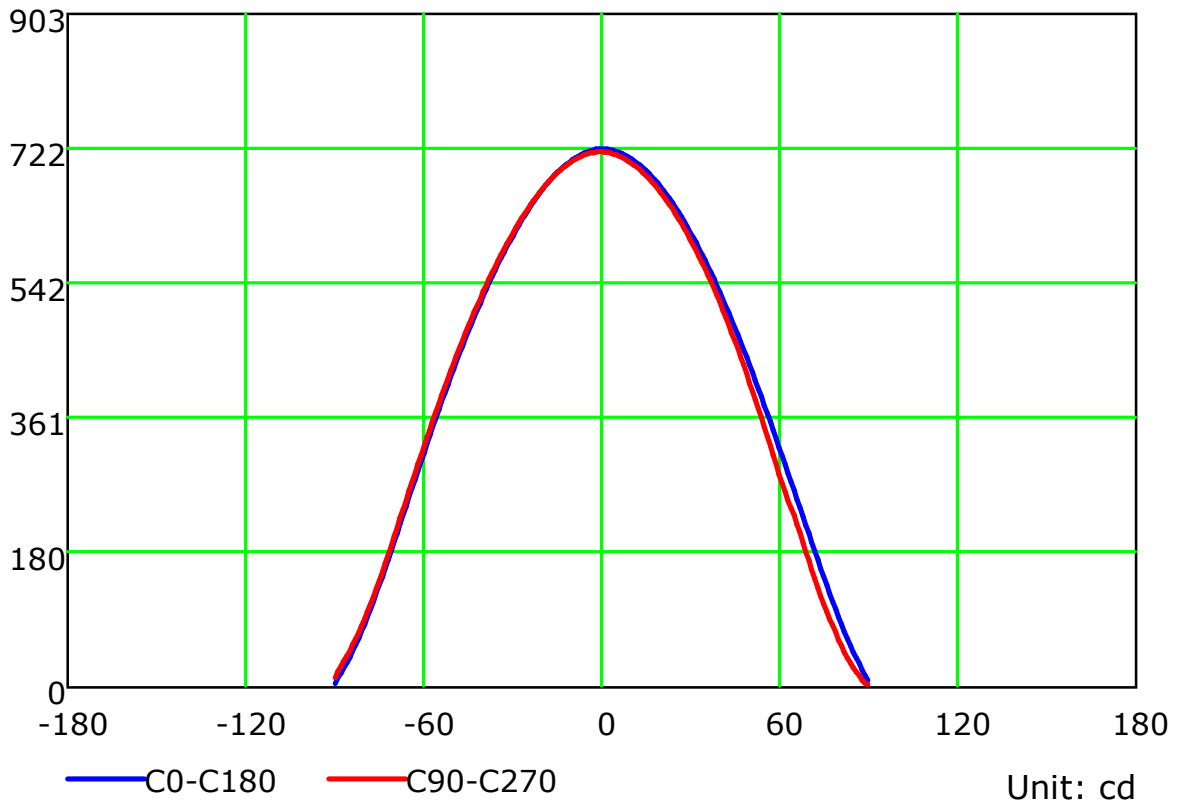
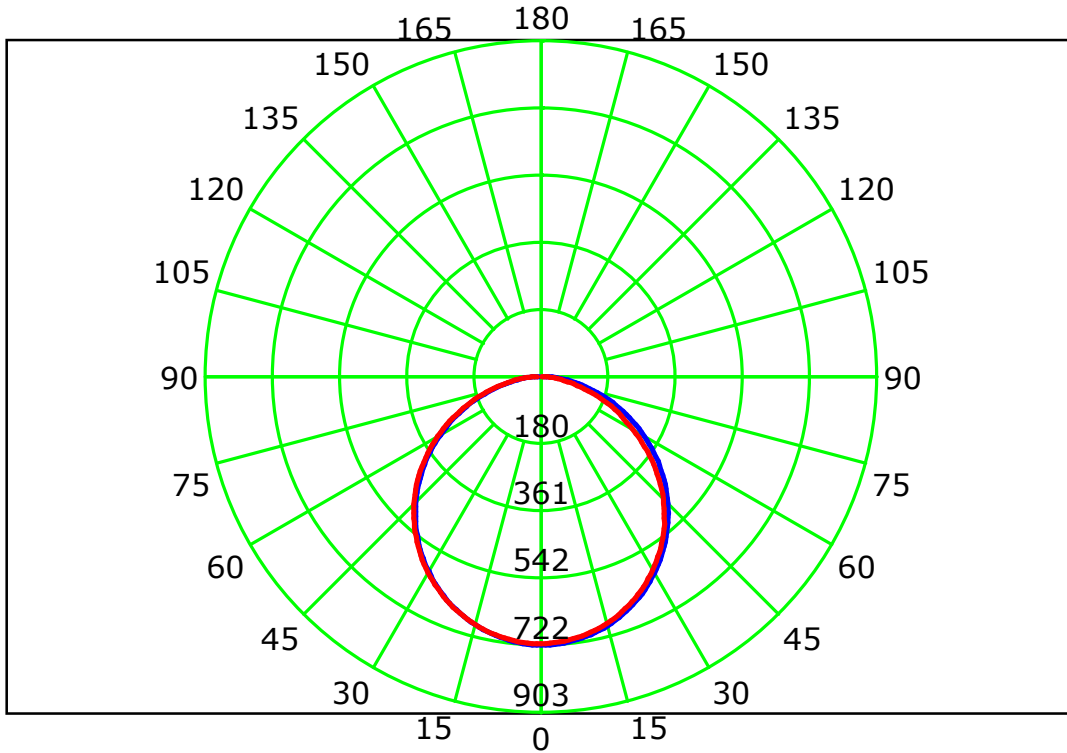
Average Diffuse Angle(50%): 111.7°

— C0-C180 — C90-C270 — G0

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky tang

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.509 m
 Humidity: 55
 Inspector:

Luminous Intensity Distribution Curve



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 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky tang

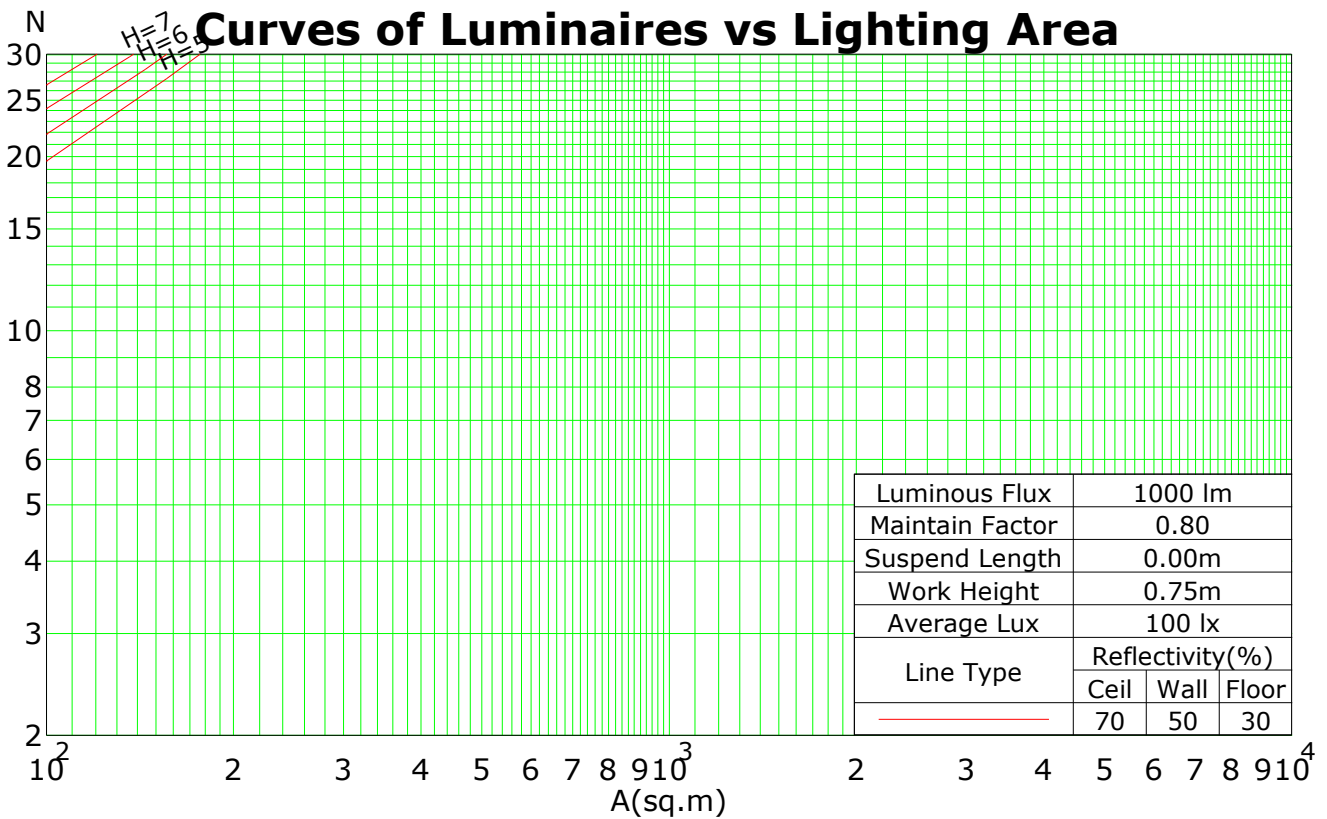
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Unit: cd

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

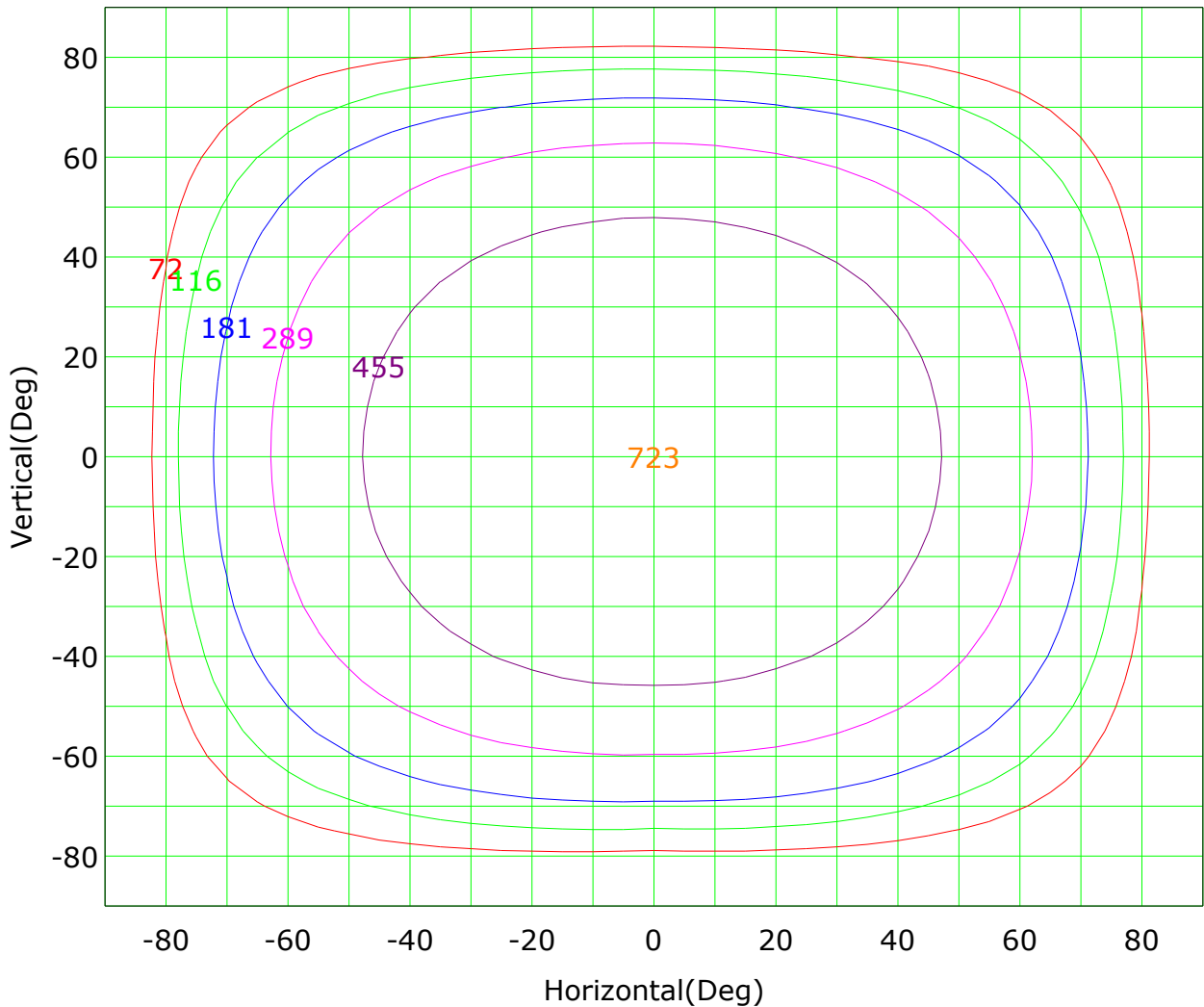
Spacing Criteria (0-180): 1.25
 Spacing Criteria (90-270): 1.25
 Spacing Criteria (Diagonal): 1.37



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Isocandela (rectangle)



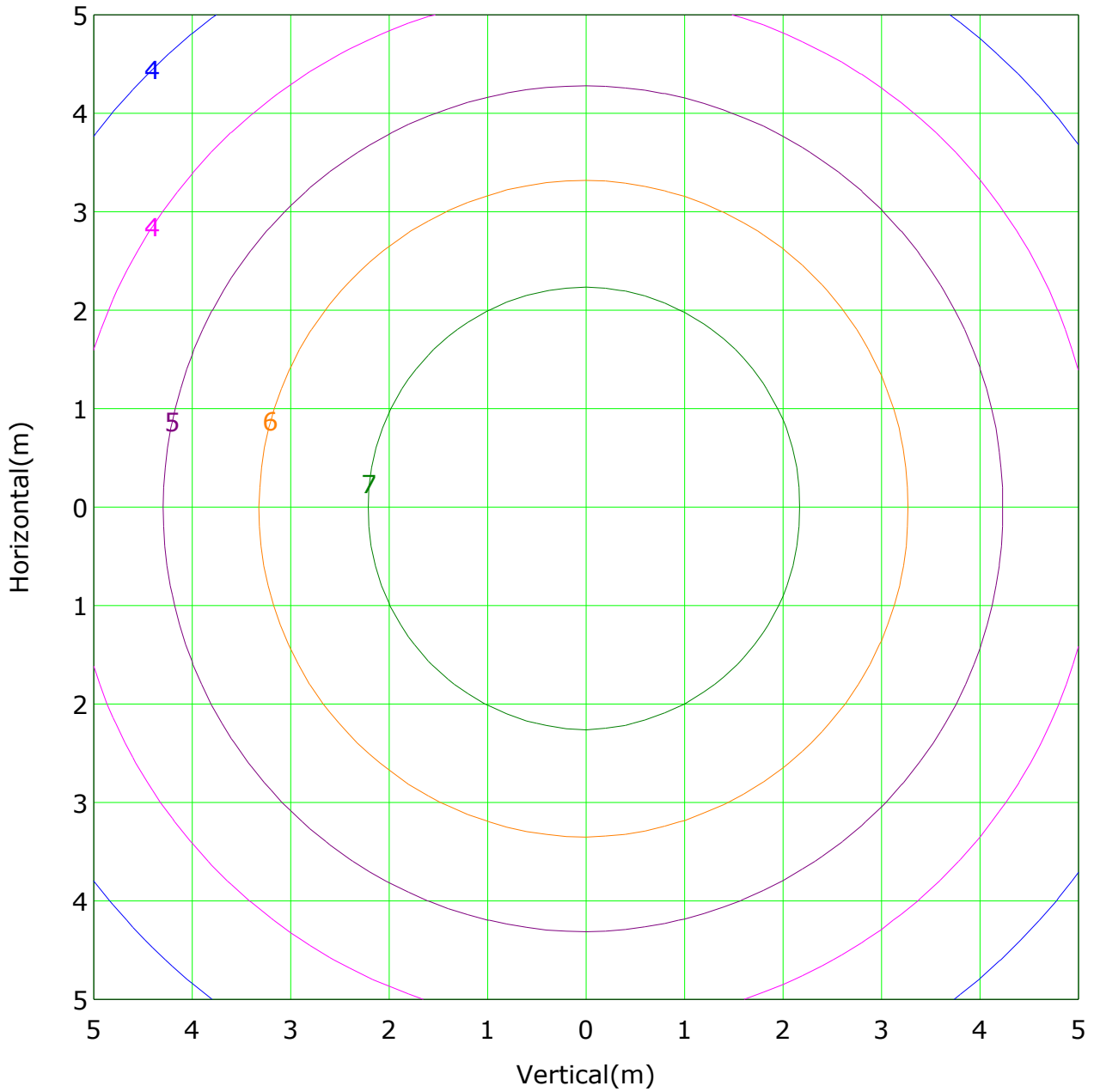
Imax (100%): 723 cd

- (10%): 72 cd
- (16%): 116 cd
- (25%): 181 cd
- (40%): 289 cd
- (63%): 455 cd
- (100%): 723 cd

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IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 7.2 lx

(30%): 2.2 lx	(40%): 2.9 lx
(50%): 3.6 lx	(60%): 4.3 lx
(70%): 5.1 lx	(80%): 5.8 lx
(90%): 6.5 lx	(100%): 7.2 lx
(120%): 8.7 lx	(150%): 10.8 lx

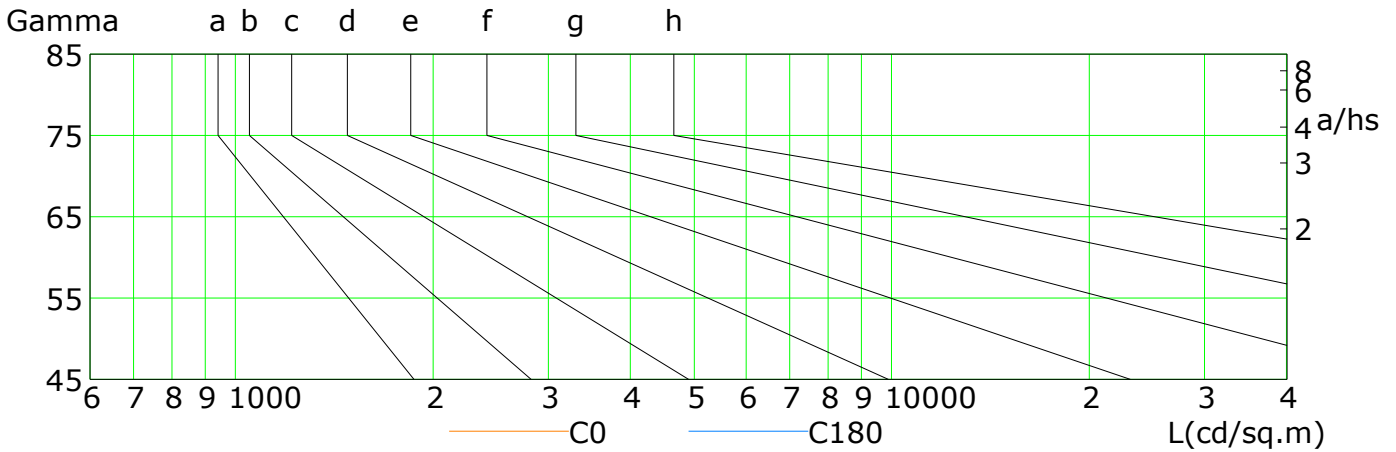
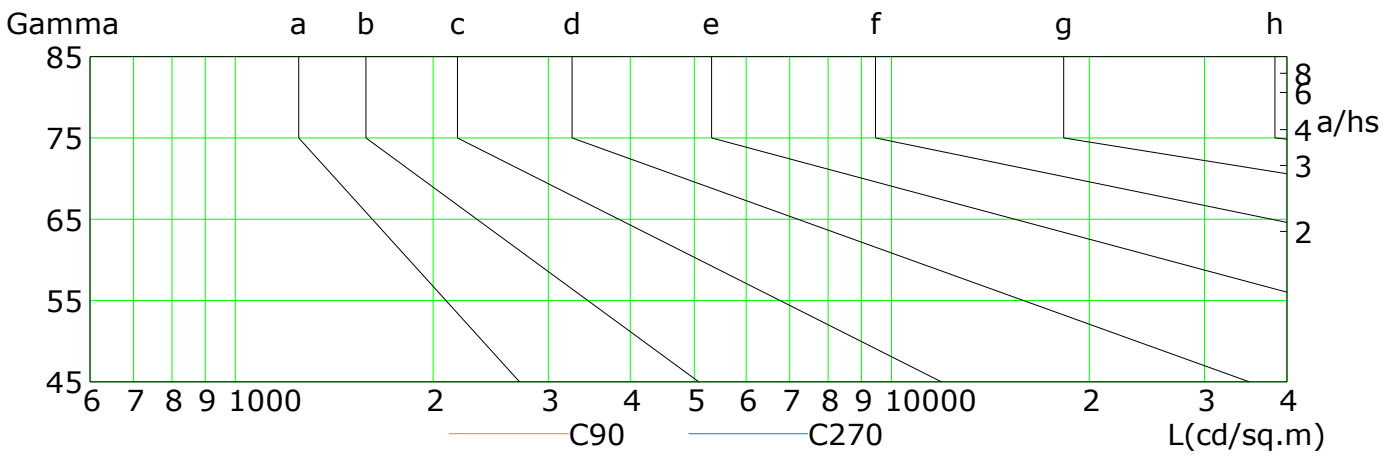
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 Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

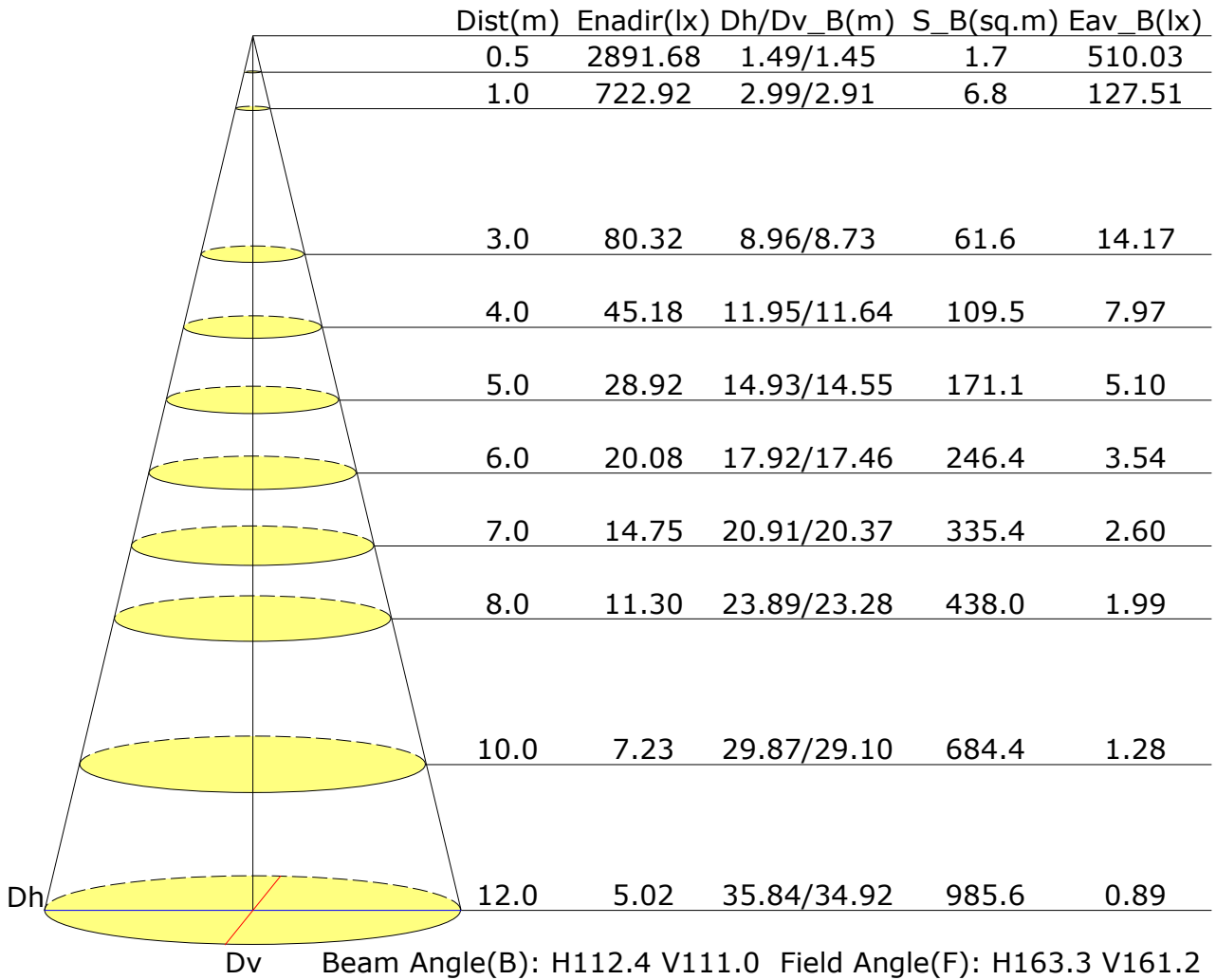


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	483	432	378	321	264	206	148	93	46
C90	465	408	349	285	230	170	111	62	25
C180	478	426	372	314	255	195	137	83	39
C270	485	434	380	323	263	202	143	91	48

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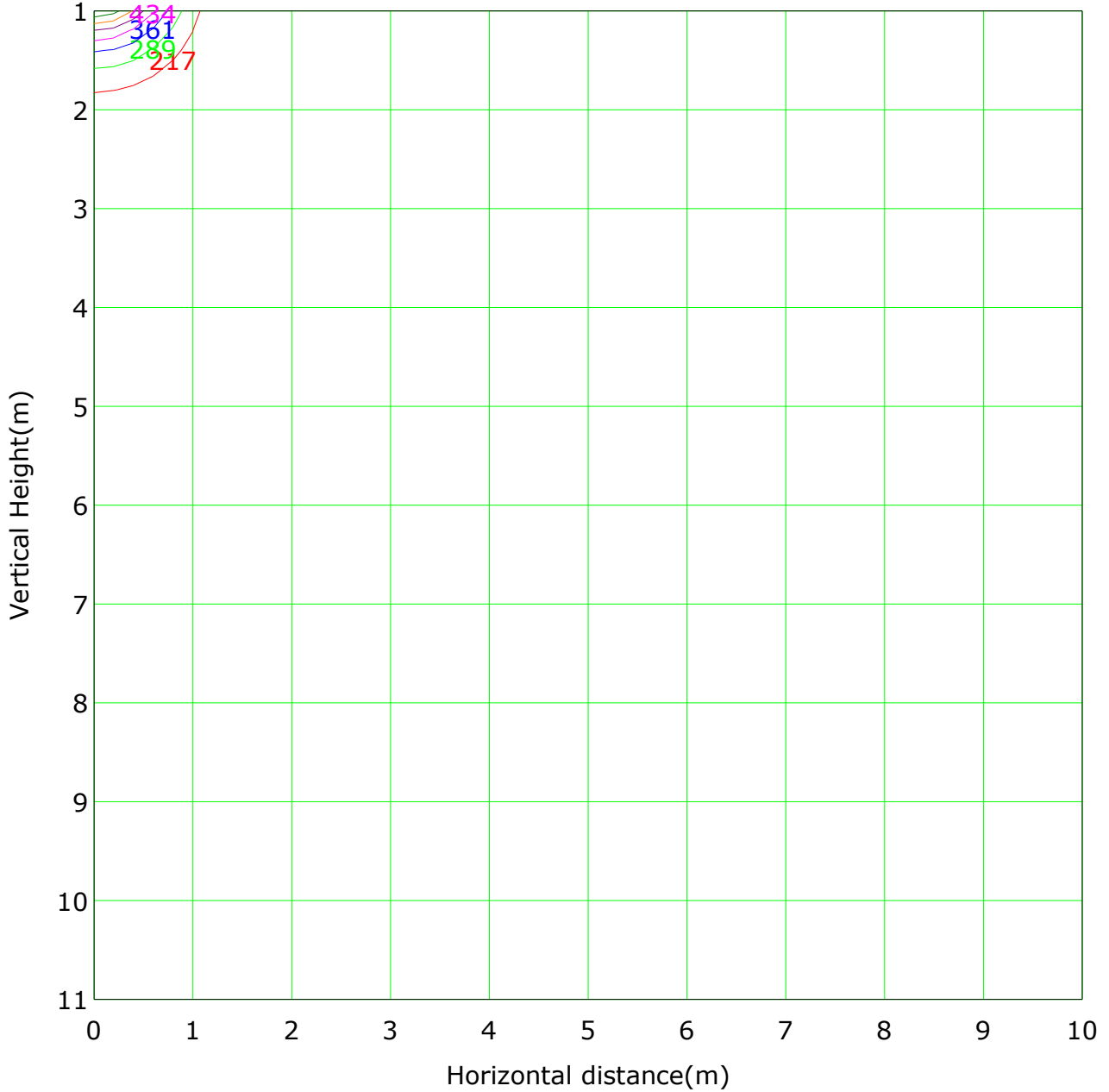
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
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Gamma Plane (°):0.0-90.0:1.0
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 Humidity: 55
 Inspector:

Vertical IsoLux Plot

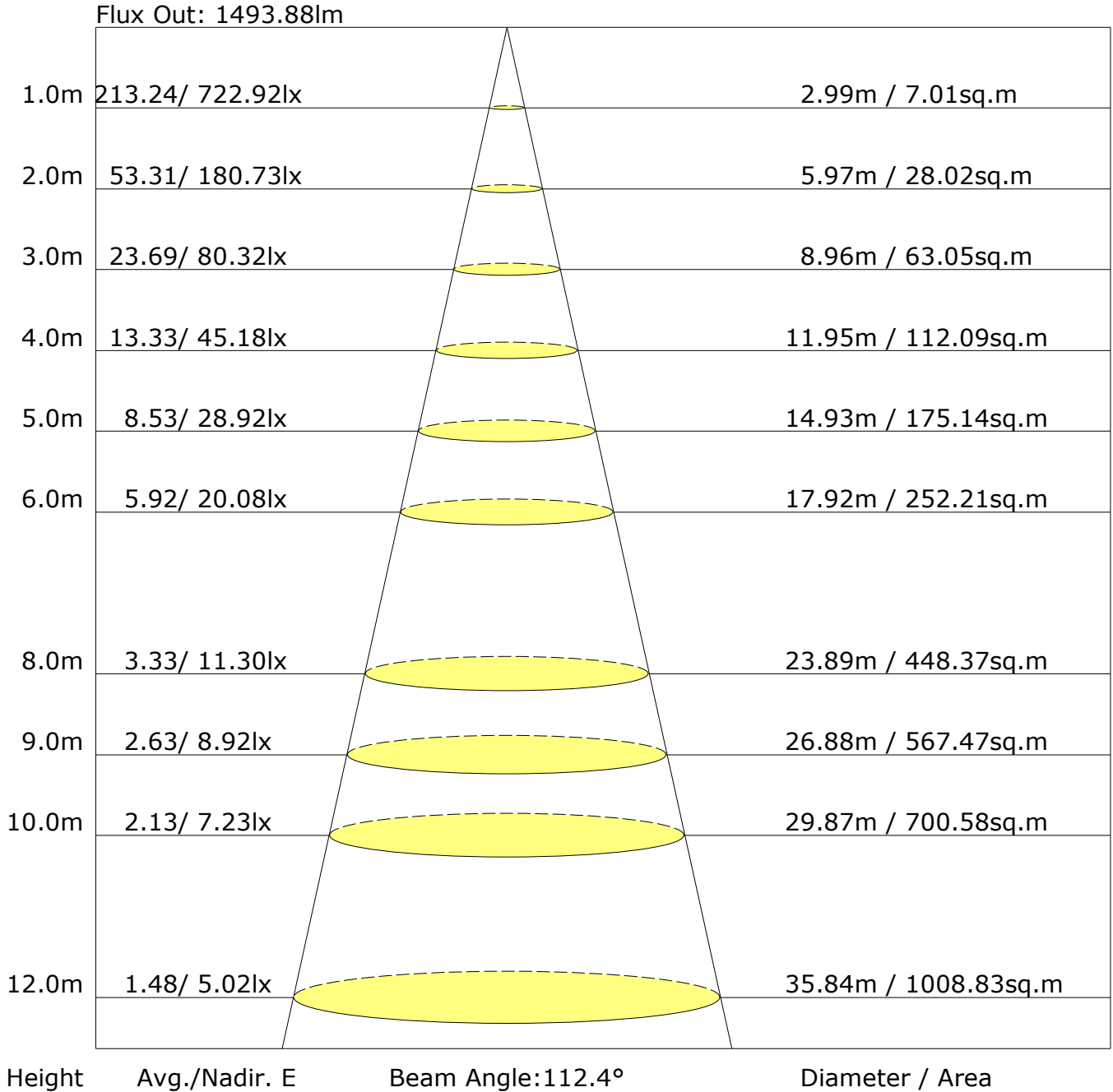


Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 722.9 lx
— (30%): 216.9 lx	— (40%): 289.2 lx	
— (50%): 361.5 lx	— (60%): 433.8 lx	
— (70%): 506.0 lx	— (80%): 578.3 lx	
— (90%): 650.6 lx	— (100%): 722.9 lx	
— (120%): 867.5 lx	— (150%): 1084.4 lx	

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The Average Illuminance Effective Figure



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Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.509 m
 Humidity: 55
 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	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=4H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
3H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=8H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
12H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
X=12H Y=4H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
6H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
8H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$
Variations with the observer position at spacings:										
S=1.0H										
S=1.5H										
S=2.0H										

Calculate in accordance with CIE Pub.117. The table is revised with 2050lm ($8\log(F/F_0) = 2.5$).

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Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	720.8	0.7	0.7	0.03	0.03
1.0-2.0	720.4	2.1	2.8	0.10	0.13
2.0-3.0	719.7	3.4	6.2	0.17	0.30
3.0-4.0	718.9	4.8	11.0	0.23	0.54
4.0-5.0	717.7	6.2	17.2	0.30	0.84
5.0-6.0	716.3	7.5	24.7	0.37	1.21
6.0-7.0	714.5	8.9	33.6	0.43	1.64
7.0-8.0	712.5	10.2	43.8	0.50	2.14
8.0-9.0	710.3	11.5	55.3	0.56	2.70
9.0-10.0	708.0	12.8	68.1	0.63	3.32
10.0-11.0	705.4	14.1	82.2	0.69	4.01
11.0-12.0	702.5	15.4	97.6	0.75	4.76
12.0-13.0	699.4	16.6	114.2	0.81	5.57
13.0-14.0	696.1	17.8	132.0	0.87	6.44
14.0-15.0	692.5	19.0	151.0	0.93	7.37
15.0-16.0	688.6	20.2	171.2	0.98	8.35
16.0-17.0	684.5	21.3	192.5	1.04	9.39
17.0-18.0	680.2	22.4	214.9	1.09	10.49
18.0-19.0	675.5	23.5	238.4	1.15	11.63
19.0-20.0	670.7	24.6	263.0	1.20	12.83
20.0-21.0	665.8	25.6	288.6	1.25	14.08
21.0-22.0	660.4	26.5	315.1	1.29	15.37
22.0-23.0	655.0	27.5	342.6	1.34	16.71
23.0-24.0	649.4	28.4	371.0	1.39	18.10
24.0-25.0	643.4	29.3	400.2	1.43	19.53
25.0-26.0	637.1	30.1	430.3	1.47	20.99
26.0-27.0	630.7	30.9	461.2	1.51	22.50
27.0-28.0	624.3	31.6	492.8	1.54	24.04
28.0-29.0	617.6	32.3	525.1	1.58	25.62
29.0-30.0	610.5	33.0	558.1	1.61	27.23
30.0-31.0	603.2	33.6	591.6	1.64	28.86
31.0-32.0	595.9	34.1	625.8	1.67	30.53
32.0-33.0	588.3	34.7	660.4	1.69	32.22
33.0-34.0	580.5	35.1	695.6	1.71	33.94
34.0-35.0	572.6	35.6	731.2	1.74	35.67
35.0-36.0	564.5	35.9	767.1	1.75	37.42

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 Humidity: 55
 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	556.2	36.3	803.4	1.77	39.19
37.0-38.0	547.6	36.6	839.9	1.78	40.98
38.0-39.0	539.0	36.8	876.7	1.79	42.77
39.0-40.0	530.2	37.0	913.7	1.80	44.58
40.0-41.0	520.9	37.1	950.8	1.81	46.39
41.0-42.0	511.3	37.2	988.0	1.81	48.20
42.0-43.0	501.9	37.2	1025.2	1.81	50.01
43.0-44.0	492.4	37.2	1062.3	1.81	51.83
44.0-45.0	482.6	37.1	1099.4	1.81	53.64
45.0-46.0	472.6	37.0	1136.4	1.80	55.44
46.0-47.0	462.5	36.8	1173.2	1.79	57.24
47.0-48.0	452.1	36.6	1209.7	1.78	59.02
48.0-49.0	441.5	36.3	1246.0	1.77	60.79
49.0-50.0	430.6	35.9	1281.9	1.75	62.54
50.0-51.0	419.8	35.5	1317.4	1.73	64.27
51.0-52.0	409.0	35.1	1352.5	1.71	65.99
52.0-53.0	397.9	34.6	1387.1	1.69	67.67
53.0-54.0	386.8	34.1	1421.2	1.66	69.34
54.0-55.0	375.5	33.5	1454.8	1.64	70.97
55.0-56.0	363.9	32.9	1487.6	1.60	72.58
56.0-57.0	352.3	32.2	1519.9	1.57	74.15
57.0-58.0	340.8	31.5	1551.4	1.54	75.69
58.0-59.0	328.8	30.7	1582.1	1.50	77.19
59.0-60.0	316.8	29.9	1612.0	1.46	78.65
60.0-61.0	305.0	29.1	1641.1	1.42	80.07
61.0-62.0	293.1	28.2	1669.4	1.38	81.44
62.0-63.0	281.4	27.4	1696.8	1.34	82.78
63.0-64.0	270.0	26.5	1723.3	1.29	84.07
64.0-65.0	258.6	25.6	1748.9	1.25	85.32
65.0-66.0	246.9	24.6	1773.5	1.20	86.52
66.0-67.0	235.0	23.6	1797.1	1.15	87.68
67.0-68.0	222.7	22.6	1819.7	1.10	88.78
68.0-69.0	210.2	21.4	1841.1	1.05	89.82
69.0-70.0	198.6	20.4	1861.5	1.00	90.82
70.0-71.0	187.1	19.3	1880.9	0.94	91.76
71.0-72.0	175.0	18.2	1899.1	0.89	92.65

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Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	722.9	718.9	722.9	718.9	722.9					
G1.0	722.8	718.5	722.6	718.8	722.8					
G2.0	722.3	717.8	722.1	718.4	722.3					
G3.0	721.6	717.0	721.0	717.7	721.6					
G4.0	720.7	716.0	720.0	716.9	720.7					
G5.0	719.4	714.4	718.6	715.7	719.4					
G6.0	718.0	712.8	717.0	714.3	718.0					
G7.0	716.1	710.9	714.7	712.5	716.1					
G8.0	714.2	708.6	712.6	710.6	714.2					
G9.0	711.8	706.4	710.3	708.3	711.8					
G10.0	709.4	703.9	707.6	706.0	709.4					
G11.0	706.8	701.0	704.8	703.5	706.8					
G12.0	703.7	698.0	701.9	700.4	703.7					
G13.0	700.6	694.9	698.6	697.5	700.6					
G14.0	697.3	691.0	694.9	694.2	697.3					
G15.0	693.8	687.2	691.2	690.5	693.8					
G16.0	689.6	682.9	687.0	686.4	689.6					
G17.0	685.7	678.6	682.8	682.5	685.7					
G18.0	681.3	674.3	677.9	678.3	681.3					
G19.0	676.5	669.1	673.2	673.4	676.5					
G20.0	671.7	664.2	668.6	668.8	671.7					
G21.0	666.8	659.2	663.0	663.8	666.8					
G22.0	661.2	653.3	657.6	658.7	661.2					
G23.0	655.8	647.7	652.1	653.4	655.8					
G24.0	650.3	642.0	645.7	647.6	650.3					
G25.0	644.0	636.0	639.9	641.6	644.0					
G26.0	638.0	628.9	633.0	635.7	638.0					
G27.0	631.7	622.3	626.7	629.5	631.7					
G28.0	625.1	615.6	620.2	623.2	625.1					
G29.0	617.7	608.6	613.4	616.7	617.7					
G30.0	611.0	601.5	605.8	609.3	611.0					
G31.0	603.5	593.5	598.5	602.3	603.5					
G32.0	596.4	586.1	591.3	595.2	596.4					
G33.0	588.3	577.6	583.7	587.9	588.3					
G34.0	580.7	569.6	575.9	580.5	580.7					
G35.0	573.0	561.4	568.0	572.0	573.0					
G36.0	564.3	553.2	559.9	564.2	564.3					

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky tang

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.509 m
 Humidity: 55
 Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	556.2	544.6	550.8	556.2	556.2					
G38.0	547.8	535.2	542.4	547.9	547.8					
G39.0	538.6	526.3	534.0	539.5	538.6					
G40.0	530.0	517.0	525.3	531.0	530.0					
G41.0	521.1	506.2	515.5	521.4	521.1					
G42.0	511.2	496.2	506.5	512.5	511.2					
G43.0	502.3	486.2	497.2	503.5	502.3					
G44.0	493.0	474.9	487.8	494.3	493.0					
G45.0	482.7	465.0	478.3	484.9	482.7					
G46.0	473.1	455.1	467.5	474.3	473.1					
G47.0	463.4	443.7	457.7	464.8	463.4					
G48.0	452.5	432.3	447.7	454.8	452.5					
G49.0	442.5	420.5	436.6	444.9	442.5					
G50.0	432.4	407.9	426.4	433.8	432.4					
G51.0	421.9	396.7	416.0	423.5	421.9					
G52.0	410.5	385.6	404.5	413.1	410.5					
G53.0	400.0	372.9	393.9	402.6	400.0					
G54.0	389.4	361.1	383.3	391.0	389.4					
G55.0	377.7	349.0	372.3	380.1	377.7					
G56.0	366.8	335.7	360.2	369.2	366.8					
G57.0	355.8	323.6	349.1	358.0	355.8					
G58.0	344.9	311.3	337.9	345.7	344.9					
G59.0	332.5	297.9	325.4	334.5	332.5					
G60.0	321.3	285.4	314.0	323.1	321.3					
G61.0	309.9	273.2	302.5	310.6	309.9					
G62.0	298.4	261.0	290.0	299.0	298.4					
G63.0	286.9	250.3	278.5	287.4	286.9					
G64.0	275.3	239.9	266.9	274.6	275.3					
G65.0	263.7	229.9	255.3	263.0	263.7					
G66.0	252.2	218.5	242.6	250.1	252.2					
G67.0	240.6	206.6	230.9	238.4	240.6					
G68.0	227.8	192.3	218.1	226.6	227.8					
G69.0	216.4	180.4	206.5	213.5	216.4					
G70.0	205.9	169.6	194.9	201.7	205.9					
G71.0	194.5	156.8	183.4	190.1	194.5					
G72.0	182.1	144.7	170.9	177.6	182.1					
G73.0	171.2	132.4	159.2	165.8	171.2					

C Plane (°):0.0-360.0: 90.0
 Test Lab: Inventfine instruments
 Test Type: TYPE C
 Temperature: 26
 Operator: Jacky tang

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1800B
 Distance: 8.509 m
 Humidity: 55
 Inspector:

Lightsource Test Report

Product Infomation

Product Type: VMC31710

Product Number: 6

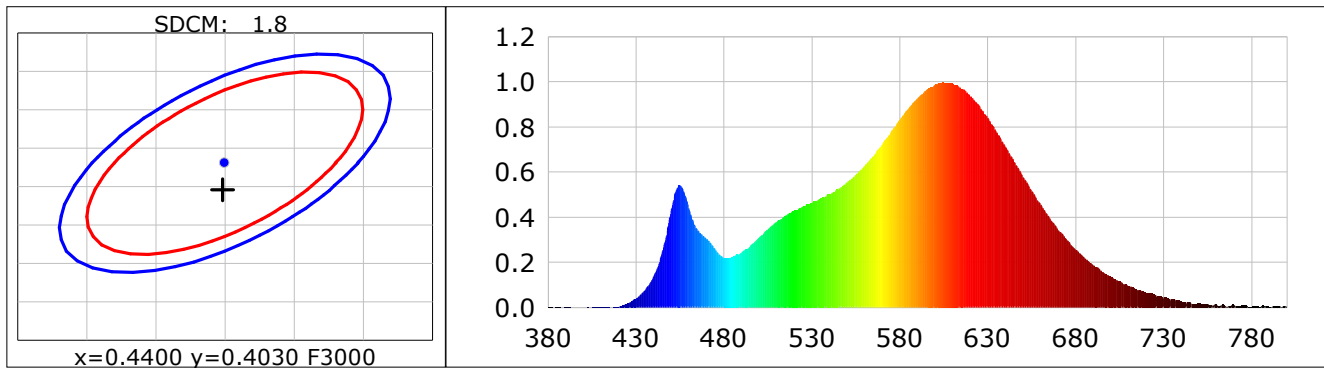
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.4399$ $y=0.3995$ $u(u')=0.2545$ $v=0.3467$ $v'=0.5200$
 CCT: $T_c=2914K$ ($duv=-0.00220$) Color Ratio: $R=0.239$ $G=0.732$ $B=0.029$
 Peak Wavelength: 604.9nm Half Bandwidth: 118.1nm
 Dominant Wavelength: 603.4nm Color Purity: 0.519
 CRI: $R_a=93.7$ TM30: $R_f=85$, $R_g=95$

R1 =93	R2 =94	R3 =93	R4 =92	R5 =95	R6 =94	R7 =90	R8 =59
R9 =12	R10=98	R11=82	R12=77	R13=86	R14=97	R15=76	

Color Quality Scale: $Q_a=83.4$, $Q_f=85.0$, $Q_p=85.3$, $Q_g=91.7$

Q1 =79	Q2 =94	Q3 =86	Q4 =81	Q5 =84	Q6 =85	Q7 =85	Q8 =86
Q9 =94	Q10=92	Q11=88	Q12=84	Q13=83	Q14=74	Q15=75	



Photometric Parameters

Luminous Flux: 3892.5 lm
 EEI: 0.51

Efficiency: 50 lm/W Radiant Power: 3.083 W
 Energy Efficiency Class: B (EU 874-2012)

Electric Parameters

Voltage: 119.50V
 Power Factor: 0.9910

Current: 0.3340A Power: 77.85W
 Frequency: 50.00Hz

Test Infomation

Scan Range: 380~800:1nm
 Stabilization Time: 0 Min
 Max of Signal: 49260 (3435)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 2T
 CCD Integration Time: 654.55 ms

测试环境: Tx:32.3'C, Ti:31.4'C, R.H.:60%
 测试单位:
 测试员:

测试设备: 创惠仪器 CMS-2S (Plus)
 测试时间: 2019-09-07 09:09:27
 核 验: