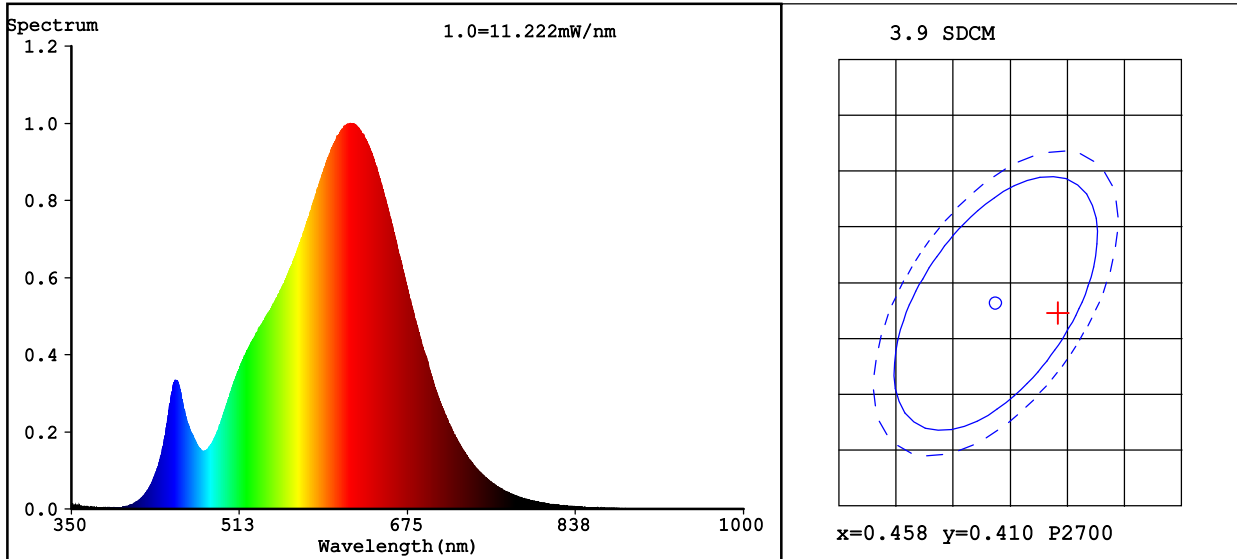


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4633$ $y=0.4092$ / $u'=0.2653$ $v'=0.5273$
 CCT=2643K (Duv=-0.0008) Dominant WL:Ld =584.7nm Purity=61.9%
 Ratio:R=26.5% G=71.3% B=2.1% Peak WL:Lp=620.4nm FWHM=142.6nm
 Render Index:Ra=90.1
 R1 =90 R2 =95 R3 =98 R4 =90 R5 =90 R6 =94 R7 =89
 R8 =76 R9 =47 R10=87 R11=90 R12=83 R13=91 R14=98 R15=85

Photo Parameters:

Flux = 512.9 lm Eff. : 96.16 lm/W Fe = 1.811 W

Electrical parameters:

V = 120.00 V I = 0.05657 A P = 5.334 W PF = 0.7859

Status: Integral T = 845 ms Ip = 32510 (50%)

Model:BA11-5-E26-927-F-C	Number:1
Tester:XCJ	Date:2018-09-30
Temperature:25.1Deg	Humidity:65.0%
Manufacturer:RAB Lighting Inc.	Remarks:

RAB Lighting Inc.

Client:

LumCAT: BA11-5-E26-927-F-C

Luminaire:

Report No:

Voltage(V): 120.0000

Test No: 255197-01-001

Current(A): 0.0550

LampCAT:

Power (W): 5.2540

Lamp flux(lm)

PF: 0.7905

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 489.25

Lumens(lm)/Power(W): 93.12

Central intensity(cd): 9.822

Maximum intensity(cd): 58.321

Angle of maximum intensity: C=180.0 γ =95.0

Beam Angle(50%Imax): [C0/180]Total=266.5

[C90/270]Total=263.4

Field angle(10%Imax): [C0/180]Total=288.6

[C90/270]Total=339.5

Maximum s/h(1/2): C0_180=3.88 C90_270=4.31

Maximum s/h(1/4): C0_180=3.69 C90_270=4.19

Up flux rate of LUM(%): 42.34%

Down flux rate of LUM(%): 54.73%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 24.337%

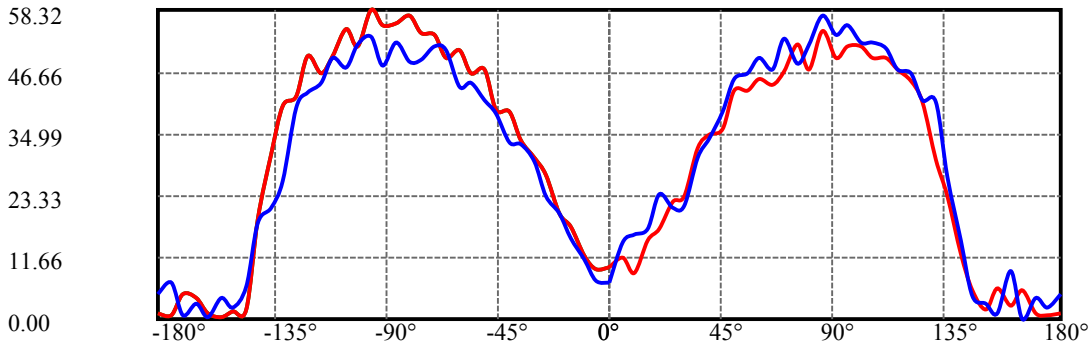
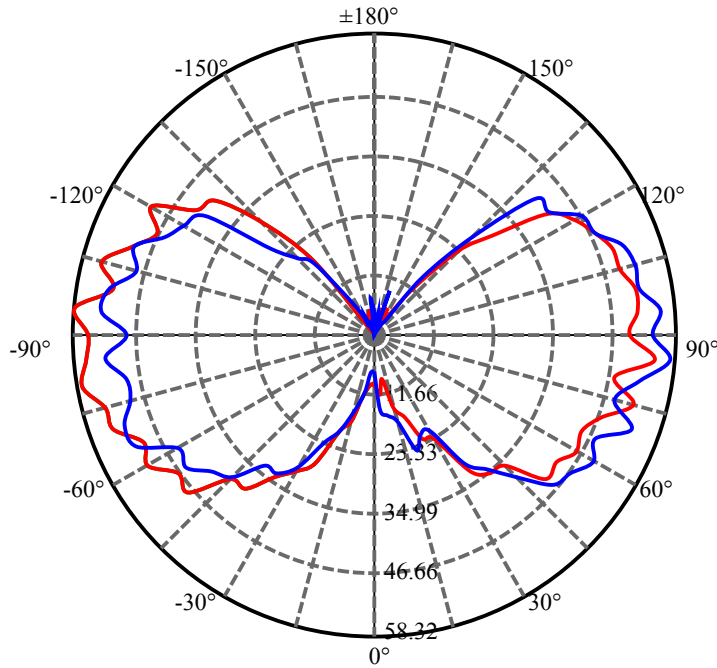
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8.441	0.050	0.05	.010%	.010%
5.0	10.743	0.513	0.564	.105%	.115%
10.0	11.971	1.139	1.703	.233%	.348%
15.0	16.115	2.286	3.989	.467%	.815%
20.0	20.105	3.769	7.759	.770%	1.586%
25.0	23.405	5.422	13.18	1.108%	2.694%
30.0	26.244	7.193	20.373	1.470%	4.164%
35.0	32.307	10.157	30.53	2.076%	6.240%
40.0	35.223	12.410	42.94	2.537%	8.777%
45.0	38.292	14.842	57.782	3.034%	11.810%
50.0	44.201	18.560	76.342	3.794%	15.604%
55.0	45.045	20.226	96.567	4.134%	19.738%
60.0	47.194	22.403	118.97	4.579%	24.317%
65.0	47.808	23.750	142.72	4.854%	29.171%
70.0	51.184	26.364	169.084	5.389%	34.560%
75.0	50.724	26.856	195.94	5.489%	40.049%
80.0	51.261	27.671	223.611	5.656%	45.705%
85.0	54.944	30.002	253.614	6.132%	51.837%
90.0	51.568	28.266	281.88	5.777%	57.614%
95.0	54.560	29.793	311.673	6.089%	63.704%
100.0	51.644	27.878	339.551	5.698%	69.402%
105.0	50.877	26.937	366.488	5.506%	74.908%
110.0	49.803	25.652	392.14	5.243%	80.151%
115.0	46.196	22.949	415.09	4.691%	84.842%
120.0	45.889	21.784	436.873	4.452%	89.294%
125.0	41.055	18.434	455.307	3.768%	93.062%
130.0	34.302	14.403	469.71	2.944%	96.006%
135.0	25.477	9.875	479.585	2.018%	98.024%
140.0	15.961	5.624	485.209	1.149%	99.174%
145.0	4.451	1.399	486.608	.286%	99.460%
150.0	2.072	0.568	487.176	.116%	99.576%
155.0	2.839	0.658	487.834	.134%	99.710%
160.0	3.146	0.590	488.424	.121%	99.831%
165.0	3.146	0.446	488.87	.091%	99.922%
170.0	2.532	0.241	489.111	.049%	99.971%
175.0	2.609	0.125	489.236	.025%	99.997%
180.0	2.763	0.017	489.252	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	20.37	4.16%
0-40	42.94	8.78%
0-60	118.97	24.32%
0-90	281.88	57.61%
0-120	436.87	89.29%
0-180	489.25	100.00%
60-90	185.31	37.88%
90-120	183.26	37.46%
90-130	216.10	44.17%
90-150	233.56	47.74%
90-180	235.62	48.16%
0-109.86	391.40	80.00%

ZONAL LUMEN SUMMARY

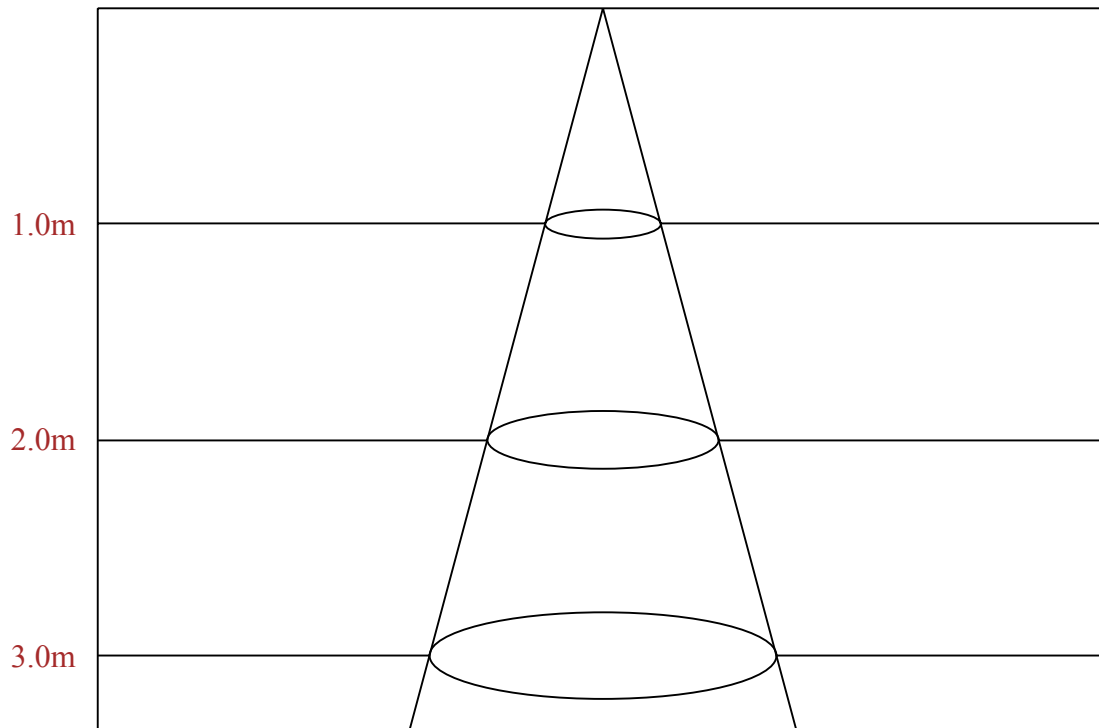
0-10	1.70
10-20	6.06
20-30	12.61
30-40	22.57
40-50	33.40
50-60	42.63
60-70	50.11
70-80	54.53
80-90	58.27
90-100	57.67
100-110	52.59
110-120	44.73
120-130	32.84
130-140	15.50
140-150	1.97
150-160	1.25
160-170	0.69
170-180	0.12



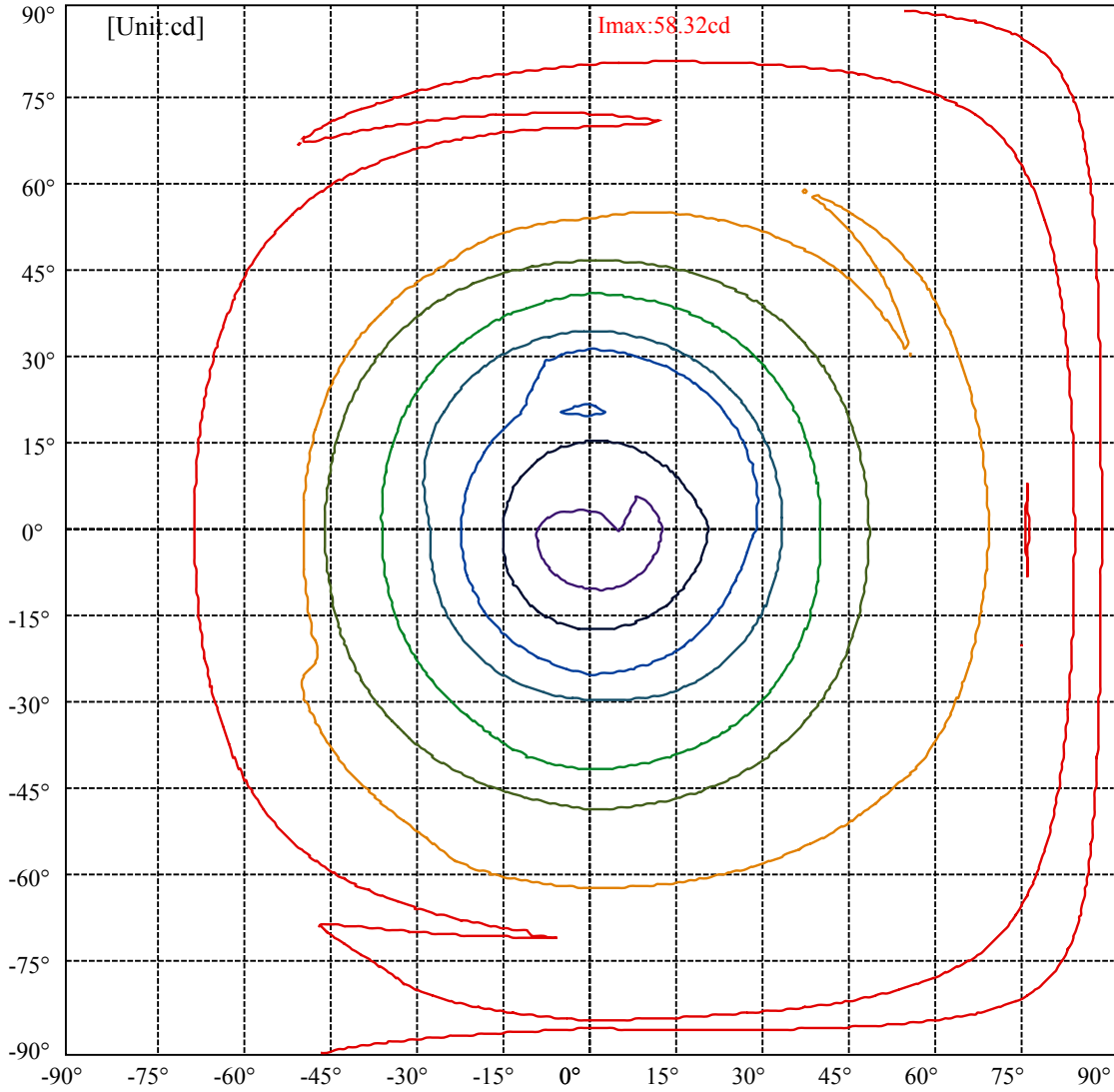
C180(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:48.8 Right:239.8
 :C90/270Left:262.7 Right:76.8

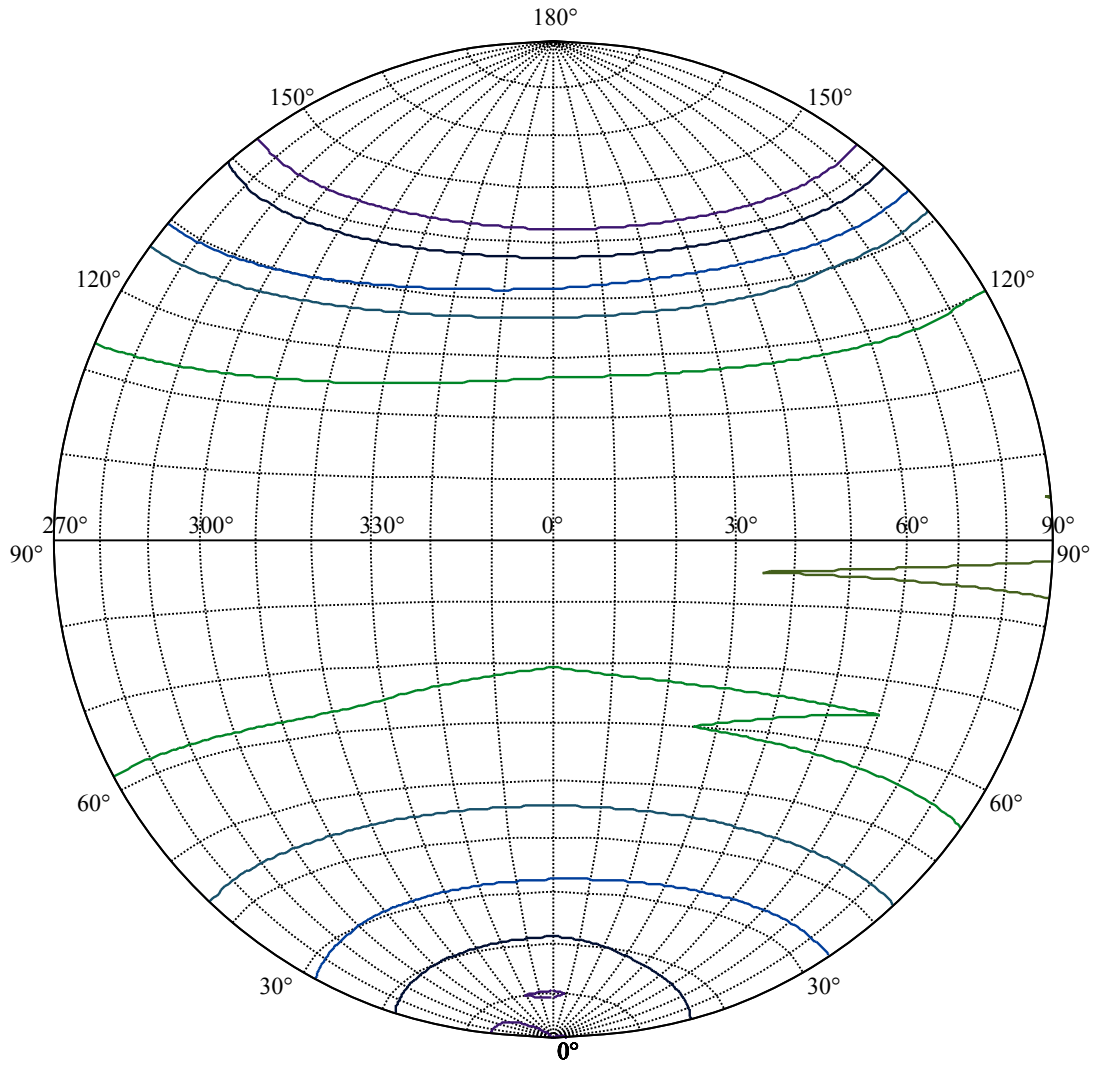
Beam Angle(50%Imax):C0/180Left:40.8 Right:225.7
 :C90/270Left:214.1 Right:49.3



Max , Ave Beam angle of C180 plane 288.59



(10%Imax) 11.4799	—
(20%Imax) 17.2199	—
(30%Imax) 22.9599	—
(40%Imax) 28.6999	—
(50%Imax) 34.4398	—
(60%Imax) 40.1798	—
(70%Imax) 45.9198	—
(80%Imax) 51.6598	—



House

[Unit:cd]

Road

I_{max}:58.32

(10%I_{max}) 9.25148

(20%I_{max}) 18.503

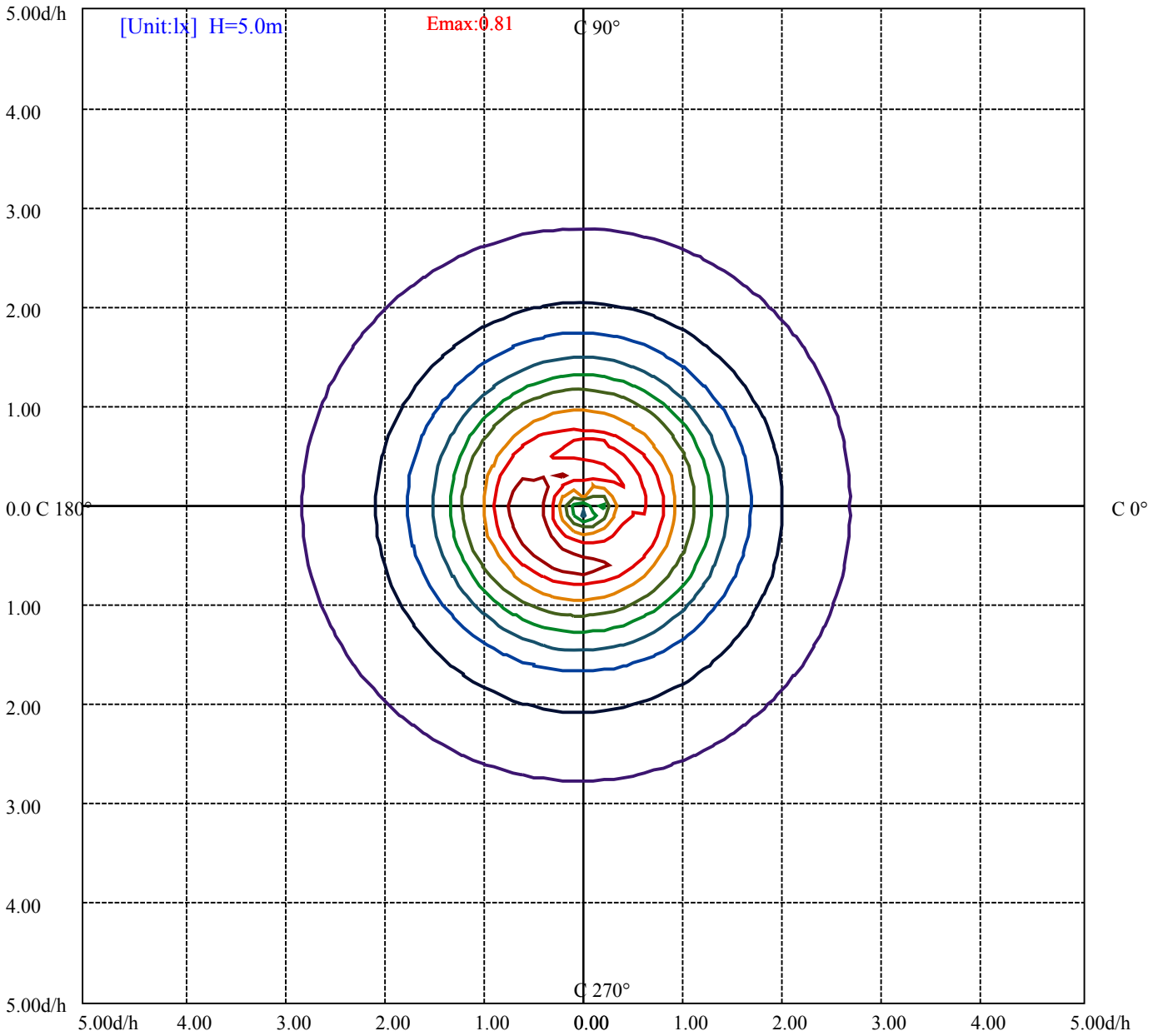
(30%I_{max}) 27.7545

(40%I_{max}) 37.0059

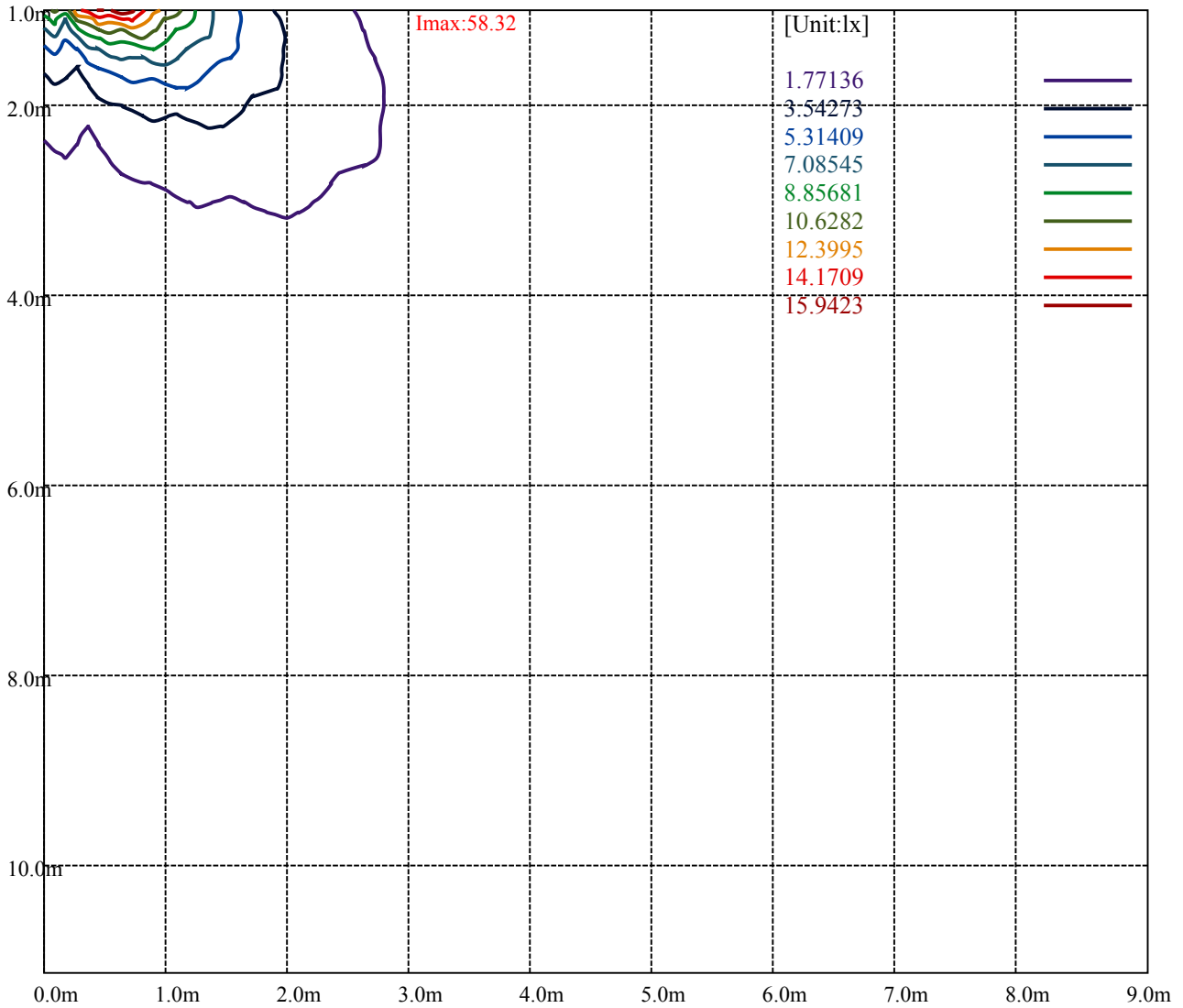
(50%I_{max}) 46.2574

(60%I_{max}) 55.5089





(10%Emax) 0.08093879	—
(20%Emax) 0.161878	—
(30%Emax) 0.2428168	—
(40%Emax) 0.323756	—
(50%Emax) 0.404696	—
(60%Emax) 0.485632	—
(70%Emax) 0.566572	—
(80%Emax) 0.647512	—
(90%Emax) 0.728452	—



Luminance Table

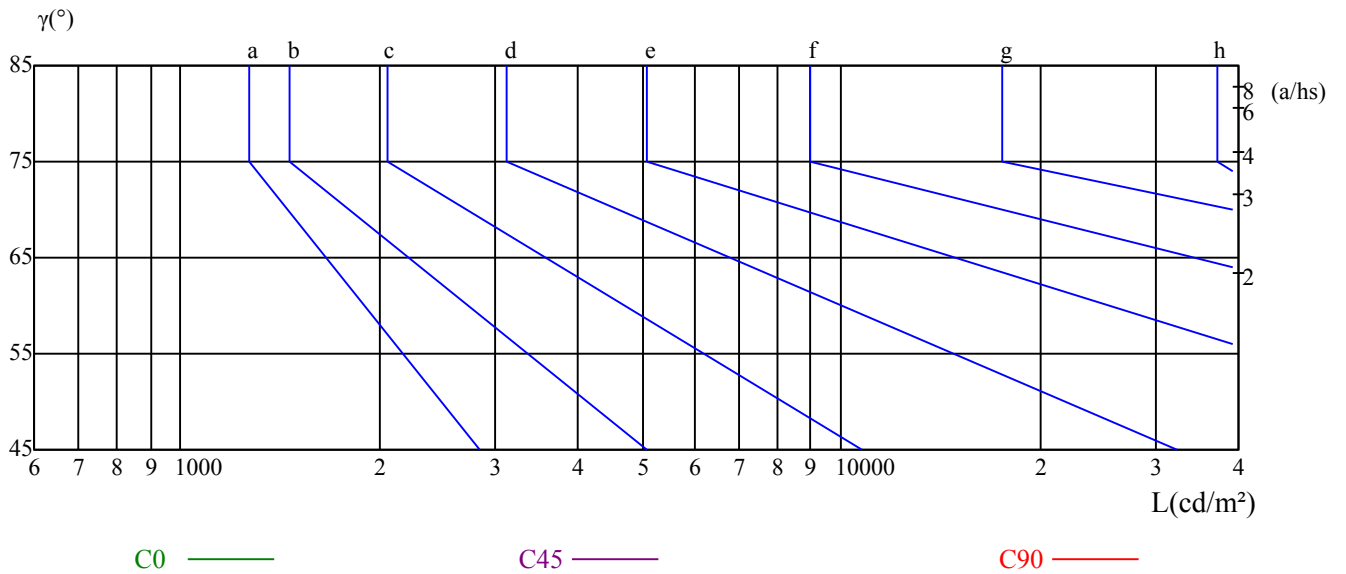
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

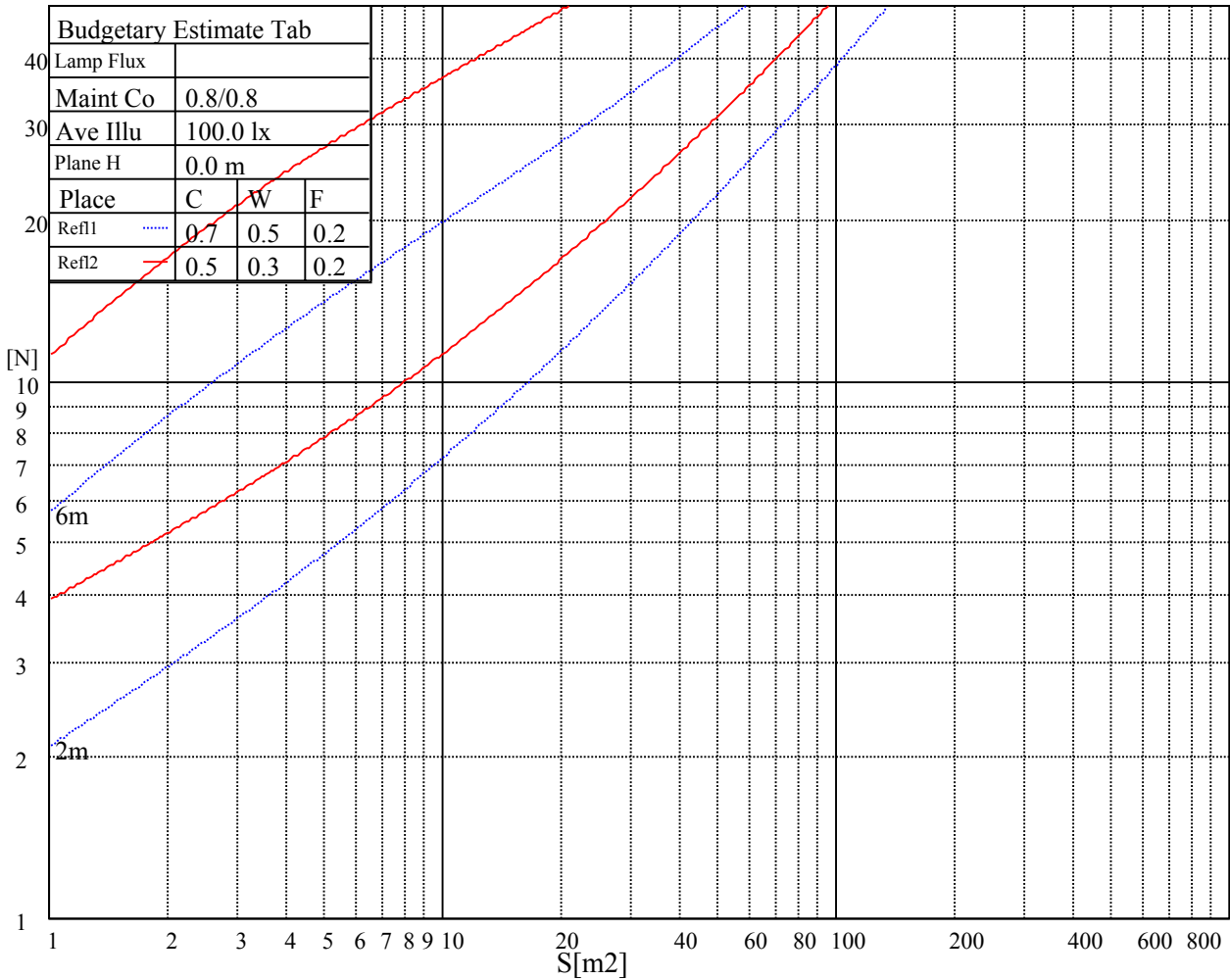
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.08	1.08	1.08	1.00	1.00	1.00	0.86	0.86	0.86	0.73	0.73	0.73	0.60	0.60	0.60	0.55
1	0.88	0.82	0.77	0.81	0.76	0.71	0.68	0.64	0.61	0.57	0.53	0.51	0.46	0.44	0.41	0.36
2	0.73	0.65	0.58	0.67	0.60	0.54	0.56	0.51	0.46	0.46	0.42	0.38	0.37	0.33	0.30	0.26
3	0.62	0.53	0.45	0.57	0.49	0.42	0.48	0.41	0.36	0.39	0.34	0.29	0.31	0.27	0.23	0.19
4	0.54	0.44	0.37	0.50	0.41	0.34	0.41	0.34	0.29	0.34	0.28	0.24	0.26	0.22	0.19	0.15
5	0.47	0.38	0.30	0.43	0.35	0.28	0.36	0.29	0.24	0.29	0.24	0.19	0.23	0.19	0.15	0.12
6	0.42	0.32	0.26	0.38	0.30	0.24	0.32	0.25	0.20	0.26	0.20	0.16	0.20	0.16	0.13	0.09
7	0.37	0.28	0.22	0.34	0.26	0.20	0.29	0.22	0.17	0.23	0.18	0.14	0.18	0.14	0.11	0.08
8	0.34	0.25	0.19	0.31	0.23	0.17	0.26	0.19	0.15	0.21	0.16	0.12	0.17	0.12	0.09	0.07
9	0.30	0.22	0.16	0.28	0.20	0.15	0.23	0.17	0.13	0.19	0.14	0.10	0.15	0.11	0.08	0.06
10	0.28	0.20	0.14	0.26	0.18	0.13	0.21	0.15	0.11	0.18	0.13	0.09	0.14	0.10	0.07	0.05

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	9.82	11.66	8.59	14.73	16.88	22.10	23.33	32.23	34.69
90.0	7.06	14.43	15.96	17.19	23.64	21.18	21.49	30.39	34.07
180.0	9.82	9.52	11.97	17.50	19.95	27.32	30.39	33.76	38.98
270.0	7.06	7.37	11.36	15.04	19.95	23.02	29.77	32.84	33.15
360.0	9.82	11.66	8.59	14.73	16.88	22.10	23.33	32.23	34.69
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	35.91	43.28	42.97	45.12	44.20	46.66	51.87	47.27	54.33
90.0	38.98	45.12	46.35	49.11	47.27	52.80	48.19	51.87	57.40
180.0	39.60	47.27	46.35	50.65	49.11	53.72	54.02	57.40	55.86
270.0	38.68	41.13	44.51	43.89	50.65	51.57	48.81	48.50	52.18
360.0	35.91	43.28	42.97	45.12	44.20	46.66	51.87	47.27	54.33
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	49.42	51.26	51.26	49.11	49.11	46.96	44.81	40.82	30.08
90.0	53.72	55.56	52.18	52.18	50.95	46.96	46.35	41.44	40.82
180.0	55.25	58.32	51.26	54.64	49.73	46.35	49.73	42.05	40.21
270.0	47.88	53.10	51.87	47.58	49.42	44.51	42.67	39.90	26.09
360.0	49.42	51.26	51.26	49.11	49.11	46.96	44.81	40.82	30.08
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	23.33	12.28	5.53	1.84	5.83	2.46	5.53	0.92	0.61
90.0	26.70	14.73	4.30	2.76	1.23	8.90	0.00	3.99	2.15
180.0	31.00	18.72	1.84	1.53	0.31	0.92	3.99	4.60	0.61
270.0	20.87	18.11	6.14	2.15	3.99	0.31	3.07	0.61	7.06
360.0	23.33	12.28	5.53	1.84	5.83	2.46	5.53	0.92	0.61
C/γ(°)	180.0								
0.0	0.92								
90.0	4.60								
180.0	0.92								
270.0	4.60								
360.0	0.92								