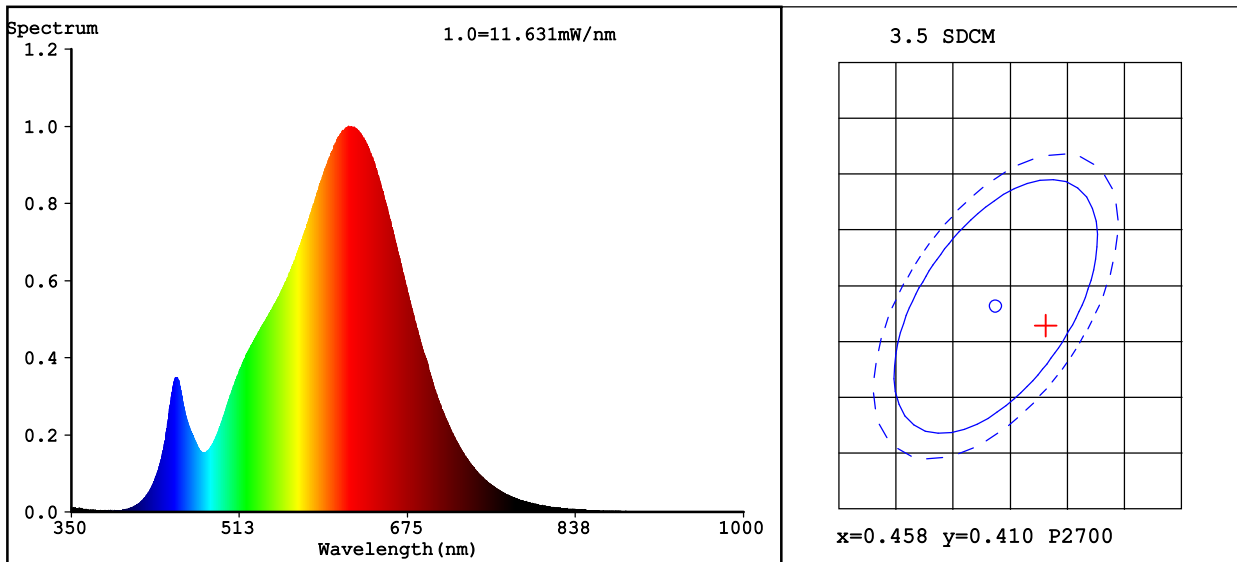


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4622$ $y=0.4084$ / $u'=0.2650$ $v'=0.5268$
 CCT=2651K (Duv=-0.0010) Dominant WL:Ld =584.8nm Purity=61.3%
 Ratio:R=26.5% G=71.3% B=2.2% Peak WL:Lp=618.1nm FWHM=143.4nm
 Render Index:Ra=90.1
 R1 =90 R2 =95 R3 =98 R4 =90 R5 =90 R6 =94 R7 =89
 R8 =76 R9 =48 R10=87 R11=90 R12=83 R13=91 R14=98 R15=85

Photo Parameters:

Flux = 532.2 lm Eff. : 99.13 lm/W Fe = 1.883 W

Electrical parameters:

V = 119.93 V I = 0.05712 A P = 5.369 W PF = 0.7837

Status: Integral T = 1000 ms Ip = 41216 (63%)

Model:B11-5-E12-927-F-C	Number:1
Tester:XCJ	Date:2018-09-14
Temperature:24.8Deg	Humidity:65.0%
Manufacturer:RAB Lighting Inc.	Remarks:

Client:RAB Lighting Inc.
LumCAT:B11-5-E12-927-F-C

Luminaire:

Report No:

Voltage(V): 120.0600

Test No: 253498-01-001

Current(A): 0.0550

LampCAT:

Power (W): 5.2280

Lamp flux(lm)

PF: 0.7852

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 581.55

Lumens(lm)/Power(W): 111.24

Central intensity(cd): 2.763

Maximum intensity(cd): 65.073

Angle of maximum intensity: C=180.0 γ =100.0

Beam Angle(50%Imax): [C0/180]Total=283.7

[C90/270]Total=284.3

Field angle(10%Imax): [C0/180]Total=326.8

[C90/270]Total=325.6

Maximum s/h(1/2): C0_180=6.99 C90_270=5.53

Maximum s/h(1/4): C0_180=6.46 C90_270=5.06

Up flux rate of LUM(%): 49.21%

Down flux rate of LUM(%): 50.79%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 19.091%

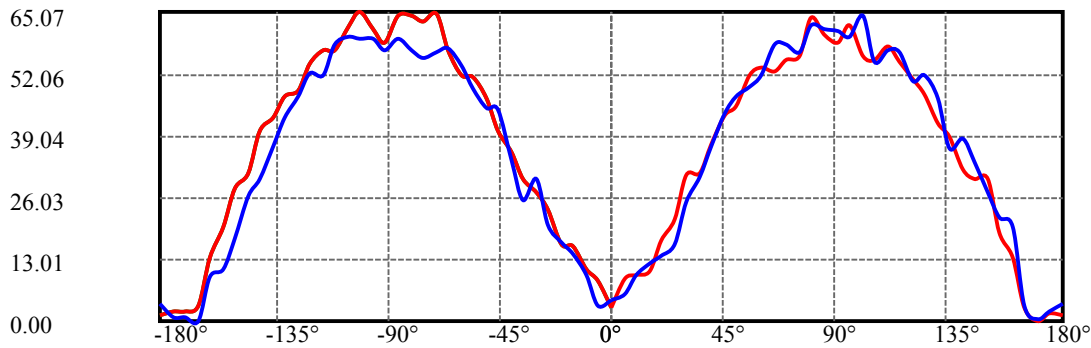
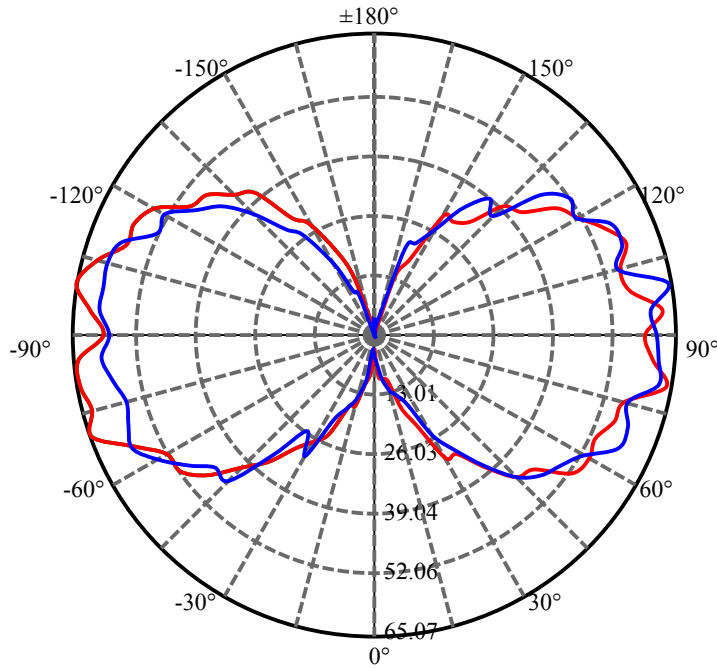
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3.683	0.000	0	.000%	.000%
5.0	6.599	0.123	0.123	.021%	.021%
10.0	9.976	0.593	0.716	.102%	.123%
15.0	13.199	1.375	2.091	.236%	.359%
20.0	15.885	2.397	4.487	.412%	.772%
25.0	20.412	3.807	8.294	.655%	1.426%
30.0	28.163	6.147	14.442	1.057%	2.483%
35.0	29.237	8.453	22.894	1.453%	3.937%
40.0	35.836	10.857	33.751	1.867%	5.804%
45.0	42.896	14.578	48.329	2.507%	8.310%
50.0	46.043	17.971	66.3	3.090%	11.401%
55.0	50.263	20.940	87.241	3.601%	15.001%
60.0	52.642	23.786	111.027	4.090%	19.091%
65.0	56.249	26.472	137.498	4.552%	23.643%
70.0	58.628	29.087	166.586	5.002%	28.645%
75.0	57.783	30.428	197.014	5.232%	33.877%
80.0	61.927	32.031	229.045	5.508%	39.385%
85.0	61.237	33.467	262.511	5.755%	45.140%
90.0	58.858	32.883	295.394	5.654%	50.794%
95.0	60.776	32.757	328.151	5.633%	56.427%
100.0	61.237	33.154	361.305	5.701%	62.128%
105.0	57.860	31.867	393.172	5.480%	67.607%
110.0	57.553	30.167	423.339	5.187%	72.795%
115.0	55.021	28.504	451.843	4.901%	77.696%
120.0	51.951	26.005	477.849	4.472%	82.168%
125.0	48.805	23.290	501.138	4.005%	86.172%
130.0	44.661	20.323	521.461	3.495%	89.667%
135.0	38.829	16.870	538.331	2.901%	92.568%
140.0	34.992	13.669	552	2.350%	94.918%
145.0	30.158	10.870	562.87	1.869%	96.787%
150.0	25.554	8.204	571.074	1.411%	98.198%
155.0	17.726	5.477	576.551	.942%	99.140%
160.0	14.043	3.332	579.883	.573%	99.713%
165.0	2.379	1.353	581.236	.233%	99.946%
170.0	0.767	0.187	581.423	.032%	99.978%
175.0	1.535	0.082	581.505	.014%	99.992%
180.0	2.456	0.048	581.553	.008%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	14.44	2.48%
0-40	33.75	5.80%
0-60	111.03	19.09%
0-90	295.39	50.79%
0-120	477.85	82.17%
0-180	581.55	100.00%
60-90	208.15	35.79%
90-120	215.34	37.03%
90-130	258.95	44.53%
90-150	308.56	53.06%
90-180	318.99	54.85%
0-117.58	465.24	80.00%

ZONAL LUMEN SUMMARY

0-10	0.72
10-20	3.77
20-30	9.95
30-40	19.31
40-50	32.55
50-60	44.73
60-70	55.56
70-80	62.46
80-90	66.35
90-100	65.91
100-110	62.03
110-120	54.51
120-130	43.61
130-140	30.54
140-150	19.07
150-160	8.81
160-170	1.54
170-180	0.08



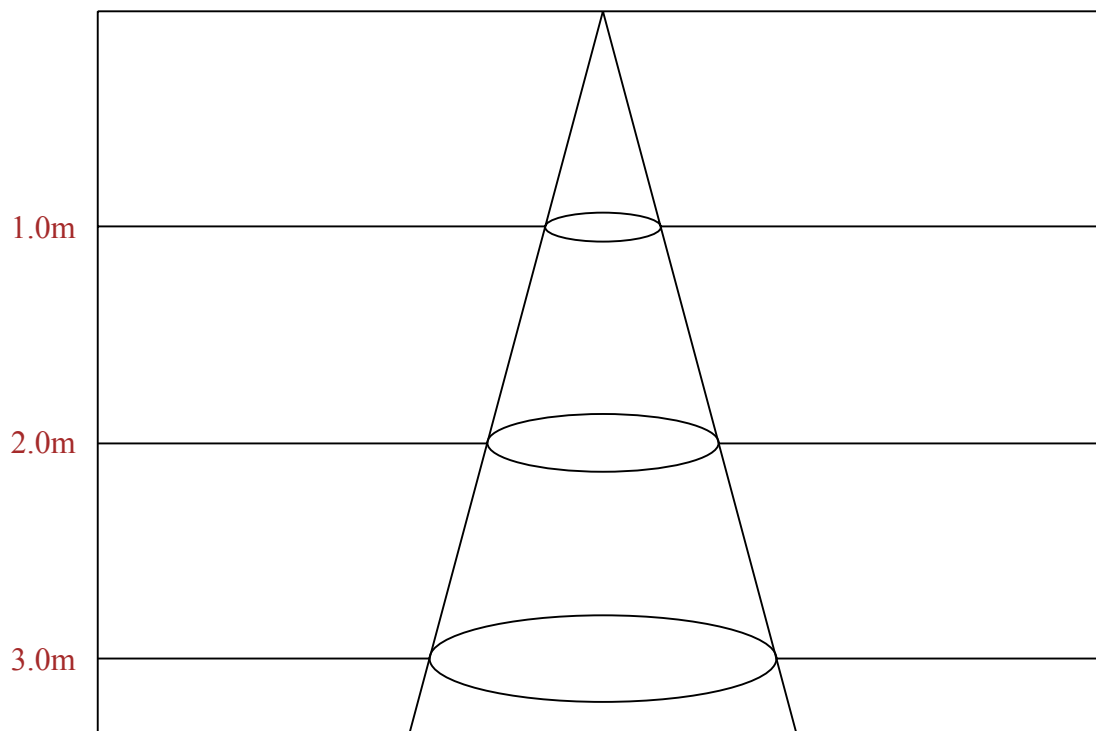
C180(Max): ———

C0/C180: ———

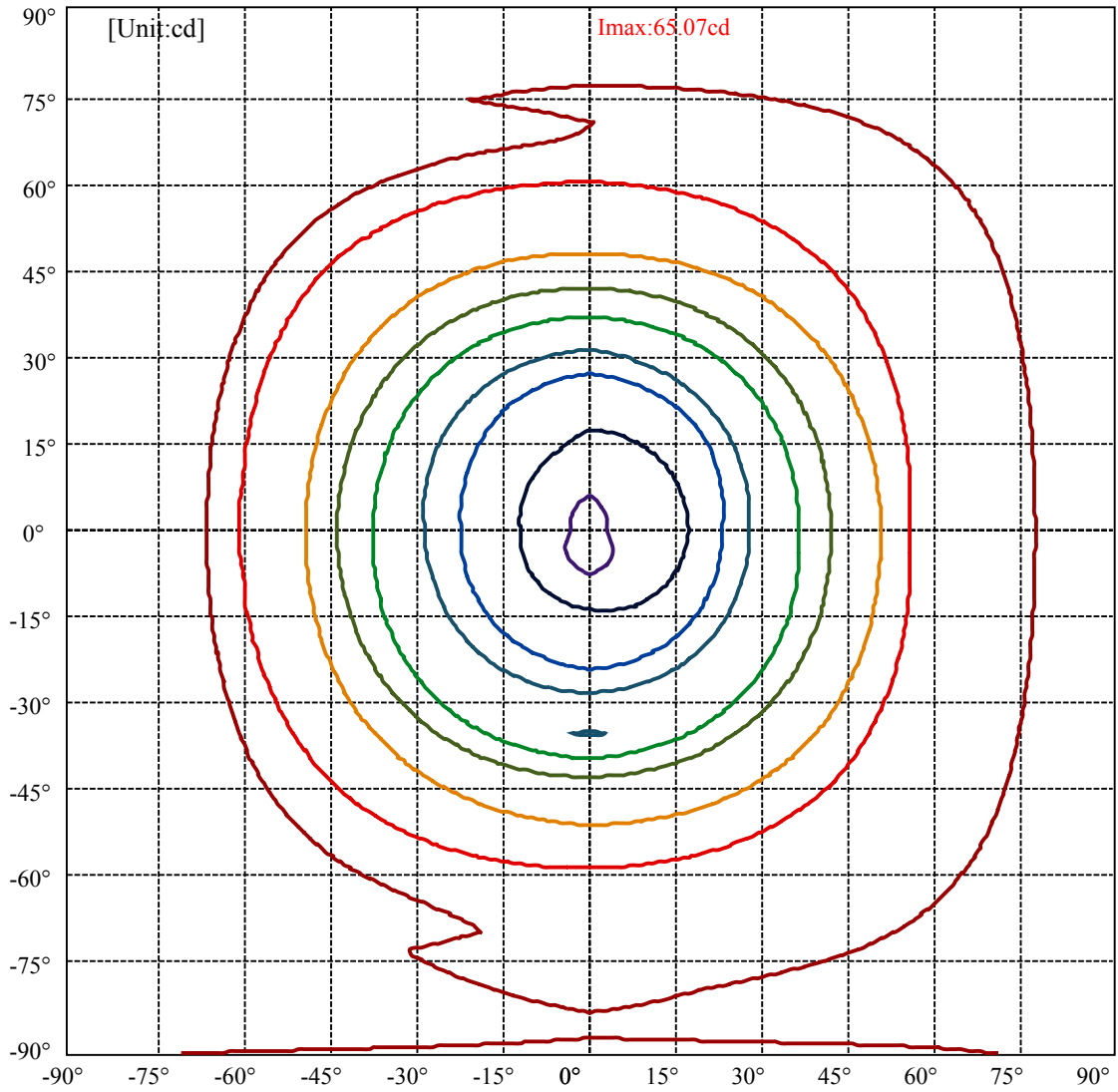
C90/C270: ———










Field angle(10%Imax):C0/180Left:63.5 Right:263.3
:C90/270Left:261.5 Right:64.1

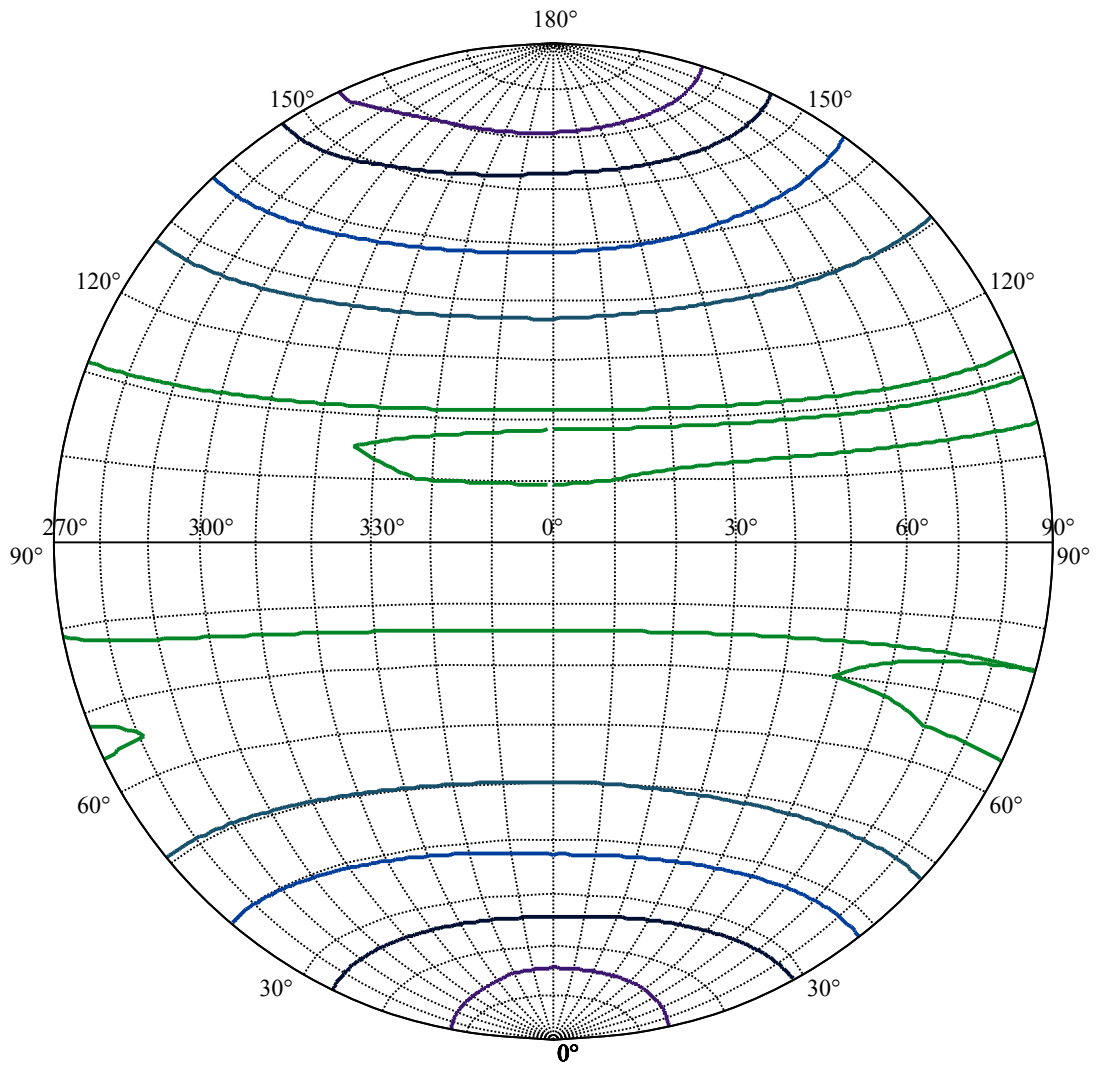
Beam Angle(50%Imax):C0/180Left:44.1 Right:239.6
:C90/270Left:238.3 Right:46.0



Max , Ave Beam angle of C180 plane 328.68



(10%Imax) 6.47665	
(20%Imax) 12.9533	
(30%Imax) 19.43	
(40%Imax) 25.9066	
(50%Imax) 32.3833	
(60%Imax) 38.8599	
(70%Imax) 45.3366	
(80%Imax) 51.8132	
(90%Imax) 58.2899	



House

[Unit:cd]

Road

Imax:65.07

(10%Imax) 11.3572

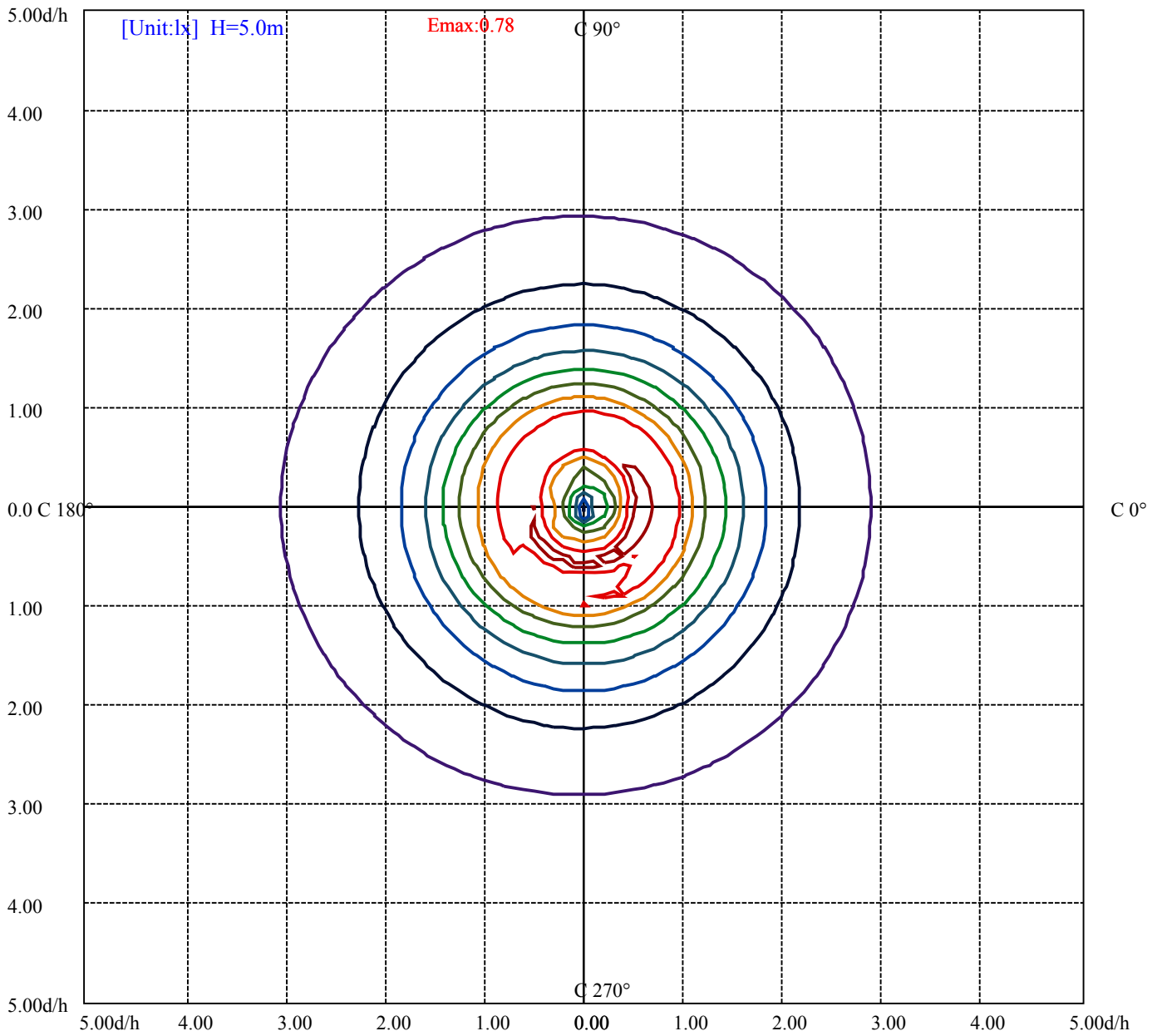
(20%Imax) 22.7143

(30%Imax) 34.0715

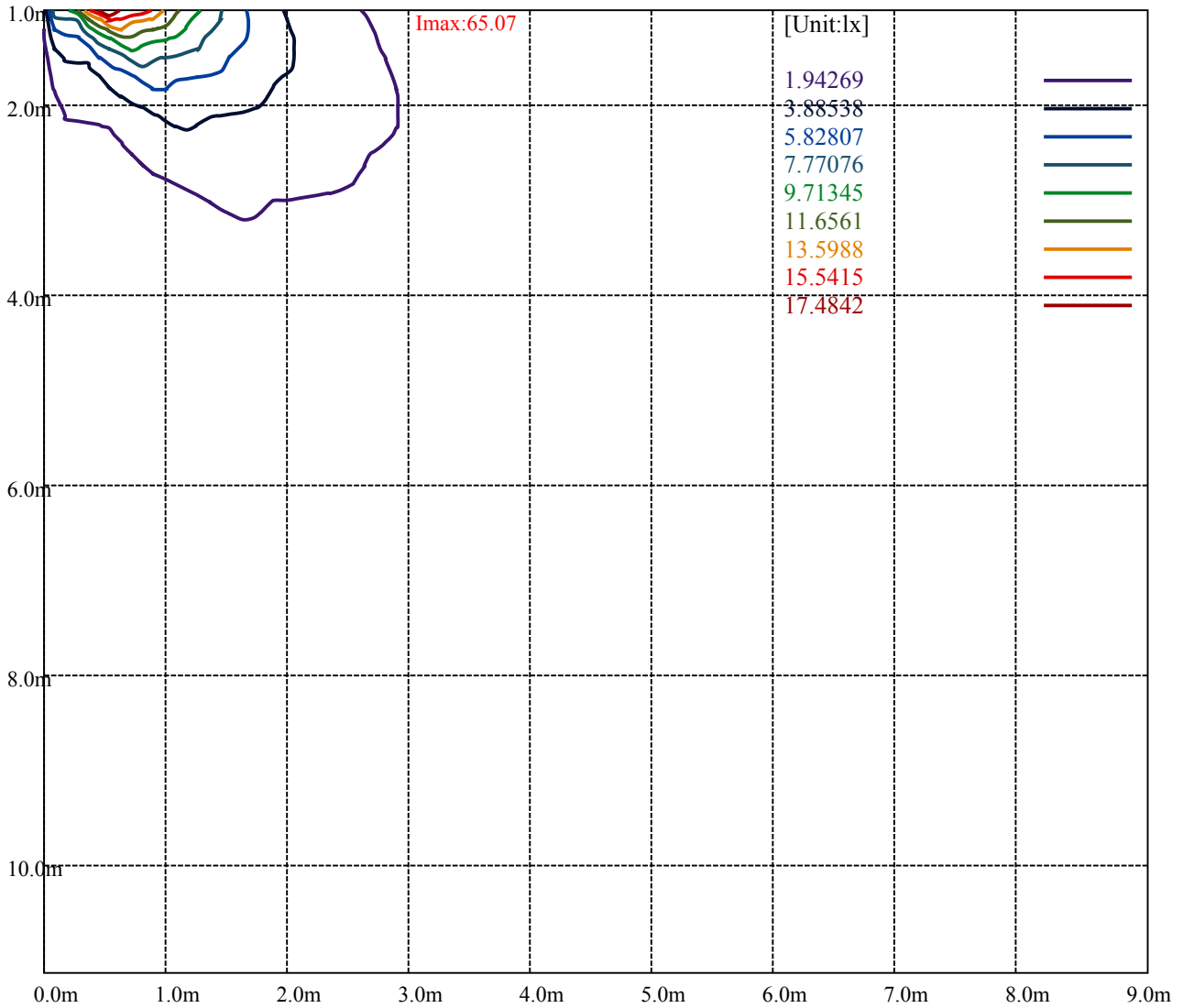
(40%Imax) 45.4287

(50%Imax) 56.7858





(10%Emax) 0.0784524	—
(20%Emax) 0.1569048	—
(30%Emax) 0.2353568	—
(40%Emax) 0.3138092	—
(50%Emax) 0.3922616	—
(60%Emax) 0.470712	—
(70%Emax) 0.549168	—
(80%Emax) 0.62762	—
(90%Emax) 0.706072	—



C35-1CD 5.5W 120V 2700K E12

Luminance Limiting Curve(no luminous side)

Luminance Table

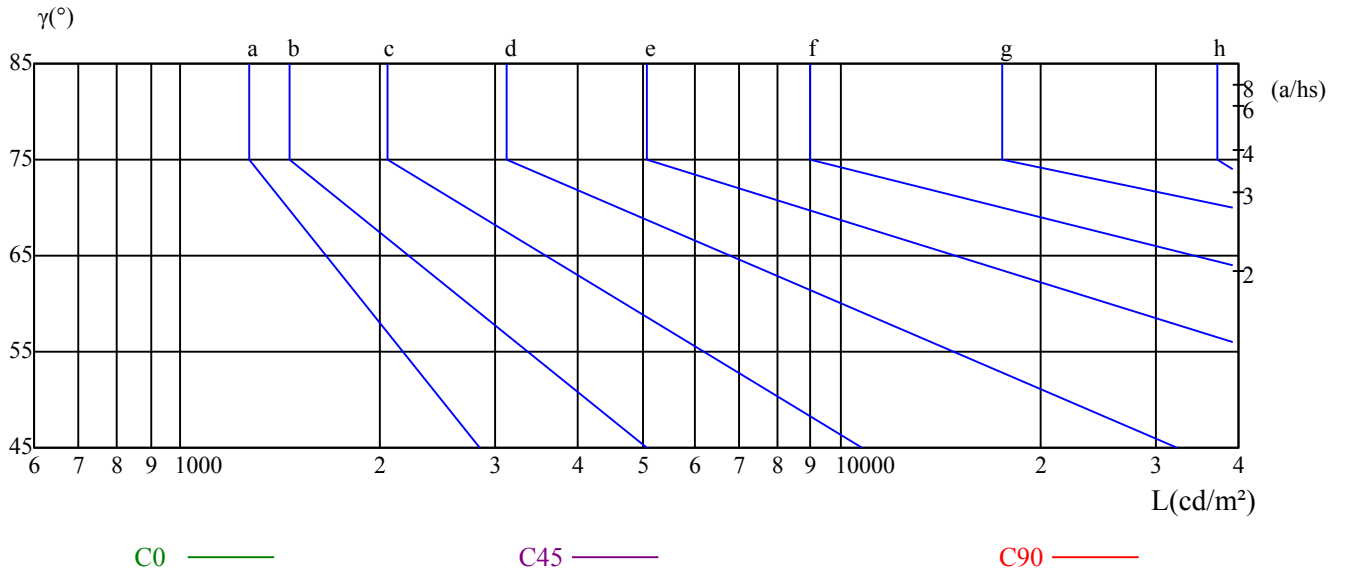
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

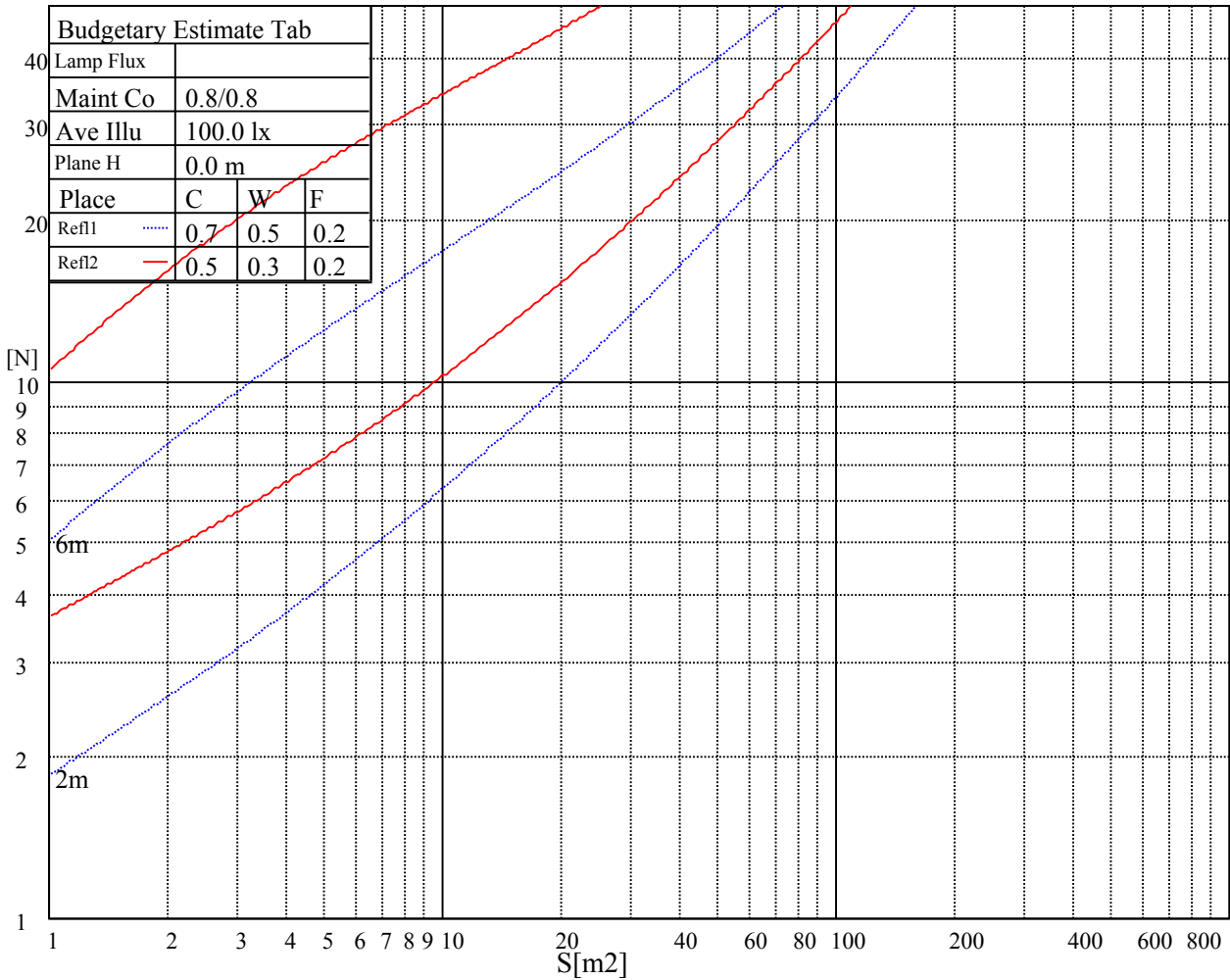
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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	1.07	1.07	1.07	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.57	0.57	0.57	0.51
1	0.85	0.79	0.74	0.78	0.73	0.68	0.65	0.60	0.57	0.52	0.49	0.46	0.41	0.39	0.36	0.31
2	0.71	0.63	0.55	0.65	0.57	0.51	0.53	0.47	0.42	0.43	0.38	0.34	0.33	0.29	0.26	0.21
3	0.61	0.51	0.43	0.55	0.47	0.40	0.45	0.38	0.33	0.36	0.31	0.26	0.27	0.23	0.20	0.15
4	0.52	0.43	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.31	0.25	0.21	0.23	0.19	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.26	0.34	0.27	0.22	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.41	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.14	0.10	0.07
7	0.36	0.27	0.21	0.33	0.25	0.19	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.09	0.06
8	0.32	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.14	0.10	0.07	0.05
9	0.29	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.11	0.18	0.12	0.09	0.13	0.09	0.06	0.04
10	0.27	0.19	0.13	0.24	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	0.08	0.05	0.03

C35-1CD 5.5W 120V 2700K E12

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	2.76	8.90	9.52	10.44	16.88	21.49	30.70	31.31	37.14
90.0	4.60	5.83	9.52	12.28	13.81	16.27	24.86	30.39	36.83
180.0	2.76	8.29	11.05	15.96	16.27	23.64	27.01	29.77	35.61
270.0	4.60	3.38	9.82	14.12	16.58	20.26	30.08	25.48	33.76
360.0	2.76	8.90	9.52	10.44	16.88	21.49	30.70	31.31	37.14
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	43.28	45.12	51.87	53.41	52.49	54.94	55.86	63.85	60.16
90.0	43.59	47.27	49.11	51.87	58.01	58.32	56.79	62.31	61.39
180.0	40.21	46.96	51.26	51.57	57.09	64.77	62.92	64.46	64.15
270.0	44.51	44.81	48.81	53.72	57.40	56.48	55.56	57.09	59.24
360.0	43.28	45.12	51.87	53.41	52.49	54.94	55.86	63.85	60.16
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	58.63	62.31	55.86	54.94	57.71	54.64	50.95	47.88	41.44
90.0	61.08	59.86	64.46	54.64	57.09	56.48	50.34	51.57	46.96
180.0	58.63	61.39	65.07	62.00	57.09	57.09	54.33	48.50	47.27
270.0	57.09	59.55	59.55	59.86	58.32	51.87	52.18	47.27	42.97
360.0	58.63	62.31	55.86	54.94	57.71	54.64	50.95	47.88	41.44
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	38.98	31.92	29.77	29.77	18.42	13.51	2.76	0.00	1.53
90.0	36.53	38.37	33.46	27.01	21.79	19.95	3.38	0.31	2.15
180.0	42.97	39.90	31.00	27.93	19.95	13.51	3.38	1.84	1.84
270.0	36.83	29.77	26.40	17.50	10.74	9.21	0.00	0.92	0.61
360.0	38.98	31.92	29.77	29.77	18.42	13.51	2.76	0.00	1.53
C/γ(°)	180.0								
0.0	1.23								
90.0	3.68								
180.0	1.23								
270.0	3.68								
360.0	1.23								