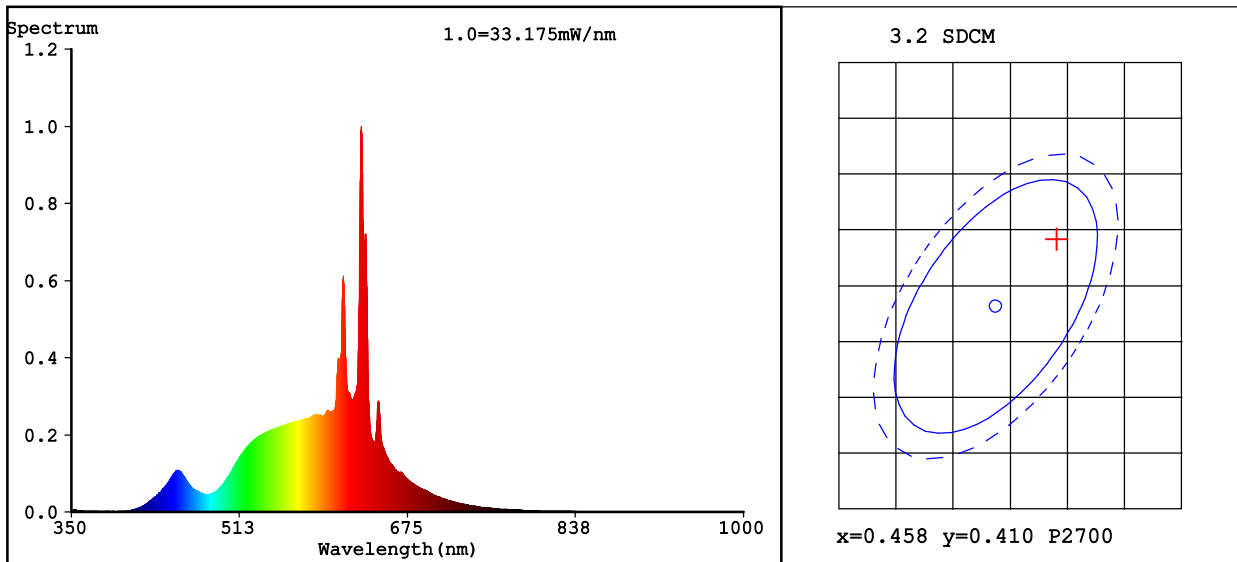


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4631$ $y=0.4161$ / $u'=0.2621$ $v'=0.5299$
 CCT=2698K (Duv=0.0017) Dominant WL:Ld =583.7nm Purity=63.9%
 Ratio:R=27.6% G=70.6% B=1.8% Peak WL:Lp=630.3nm FWHM=8.2nm
 Render Index:Ra=94.3
 R1 =98 R2 =95 R3 =89 R4 =96 R5 =96 R6 =95 R7 =96
 R8 =90 R9 =71 R10=84 R11=95 R12=80 R13=97 R14=92 R15=94

Photo Parameters:

Flux = 549.4 lm Eff. : 103.58 lm/W Fe = 1.684 W

Electrical parameters:

V = 120.04 V I = 0.05598 A P = 5.304 W PF = 0.7905

Status: Integral T = 312 ms Ip = 36241 (55%)

Model:B11-5-E12-927-F-F	Number:1
Tester:XCJ	Date:2018-10-30
Temperature:26.4Deg	Humidity:65.0%
Manufacturer:RAB Lighting Inc.	Remarks:

RAB Lighting Inc.

Client:

LumCAT: B11-5-E12-927-F-F

Luminaire:

Report No:

Voltage(V): 120.0100

Test No: 255155-01-001

Current(A): 0.0550

LampCAT:

Power (W): 5.2460

Lamp flux(lm)

PF: 0.7882

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 596.47

Lumens(lm)/Power(W): 113.70

Central intensity(cd): 17.496

Maximum intensity(cd): 67.529

Angle of maximum intensity: C=0.0 γ =80.0

Beam Angle(50%Imax): [C0/180]Total=285.8

[C90/270]Total=287.5

Field angle(10%Imax): [C0/180]Total=336.2

[C90/270]Total=336.4

Maximum s/h(1/2): C0_180=2.97 C90_270=2.83

Maximum s/h(1/4): C0_180=3.00 C90_270=2.89

Up flux rate of LUM(%): 44.87%

Down flux rate of LUM(%): 52.36%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 23.328%

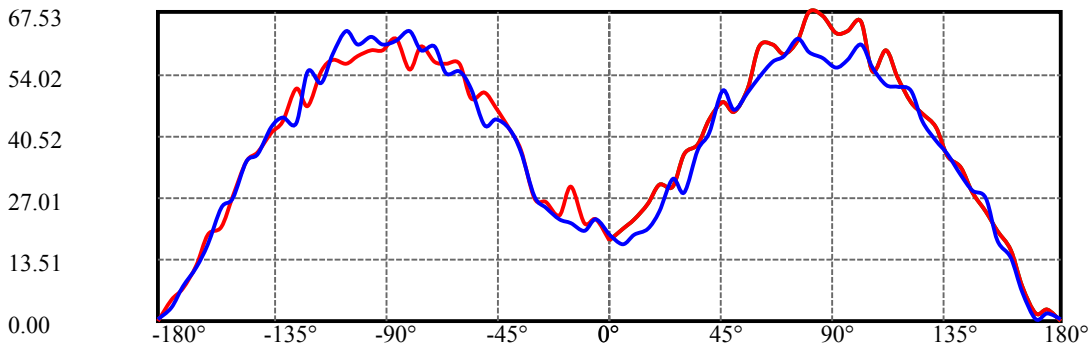
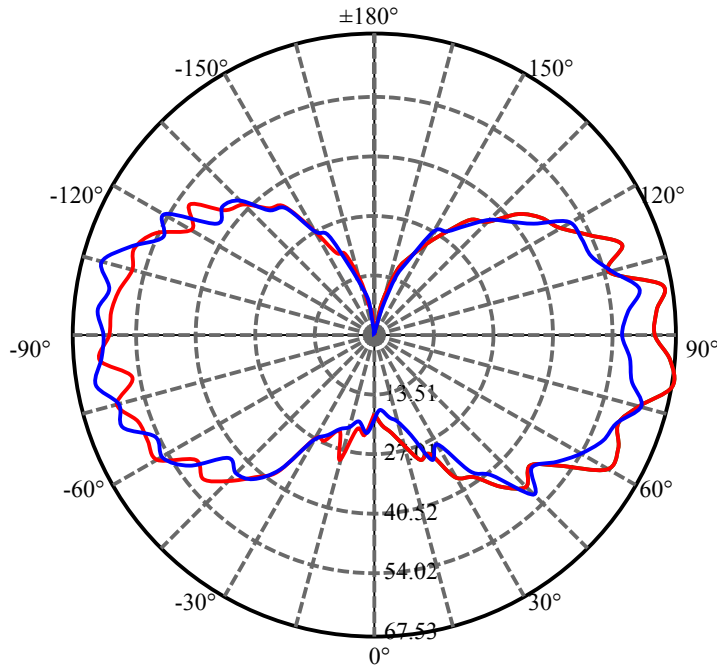
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	18.264	0.109	0.109	.018%	.018%
5.0	20.412	0.975	1.084	.163%	.182%
10.0	20.489	1.950	3.035	.327%	.509%
15.0	24.172	3.429	6.464	.575%	1.084%
20.0	24.786	4.647	11.111	.779%	1.863%
25.0	27.779	6.435	17.546	1.079%	2.942%
30.0	29.774	8.160	25.706	1.368%	4.310%
35.0	37.601	11.822	37.528	1.982%	6.292%
40.0	42.282	14.898	52.425	2.498%	8.789%
45.0	47.117	18.262	70.687	3.062%	11.851%
50.0	46.119	19.365	90.053	3.247%	15.098%
55.0	49.956	22.431	112.484	3.761%	18.858%
60.0	55.942	26.556	139.039	4.452%	23.311%
65.0	56.786	28.210	167.249	4.730%	28.040%
70.0	58.090	29.921	197.171	5.016%	33.056%
75.0	60.546	32.057	229.227	5.374%	38.431%
80.0	61.083	32.973	262.2	5.528%	43.959%
85.0	61.774	33.732	295.932	5.655%	49.614%
90.0	59.548	32.641	328.573	5.472%	55.087%
95.0	60.469	33.019	361.592	5.536%	60.622%
100.0	61.083	32.973	394.565	5.528%	66.151%
105.0	57.246	30.310	424.875	5.082%	71.232%
110.0	56.556	29.131	454.006	4.884%	76.116%
115.0	52.719	26.190	480.195	4.391%	80.507%
120.0	49.879	23.678	503.873	3.970%	84.476%
125.0	45.736	20.536	524.409	3.443%	87.919%
130.0	42.513	17.851	542.26	2.993%	90.912%
135.0	38.983	15.109	557.369	2.533%	93.445%
140.0	34.762	12.248	569.617	2.053%	95.499%
145.0	31.616	9.940	579.557	1.666%	97.165%
150.0	26.321	7.214	586.771	1.209%	98.375%
155.0	20.642	4.782	591.553	.802%	99.176%
160.0	16.192	3.036	594.588	.509%	99.685%
165.0	9.362	1.328	595.916	.223%	99.908%
170.0	4.297	0.409	596.325	.069%	99.976%
175.0	2.916	0.139	596.465	.023%	100.000%
180.0	0.153	0.001	596.466	.000%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	25.71	4.31%
0-40	52.43	8.79%
0-60	139.04	23.31%
0-90	328.57	55.09%
0-120	503.87	84.48%
0-180	596.47	100.00%
60-90	216.09	36.23%
90-120	207.94	34.86%
90-130	246.33	41.30%
90-150	290.84	48.76%
90-180	300.53	50.39%
0-114.42	477.17	80.00%

ZONAL LUMEN SUMMARY

0-10	3.03
10-20	8.08
20-30	14.60
30-40	26.72
40-50	37.63
50-60	48.99
60-70	58.13
70-80	65.03
80-90	66.37
90-100	65.99
100-110	59.44
110-120	49.87
120-130	38.39
130-140	27.36
140-150	17.15
150-160	7.82
160-170	1.74
170-180	0.14



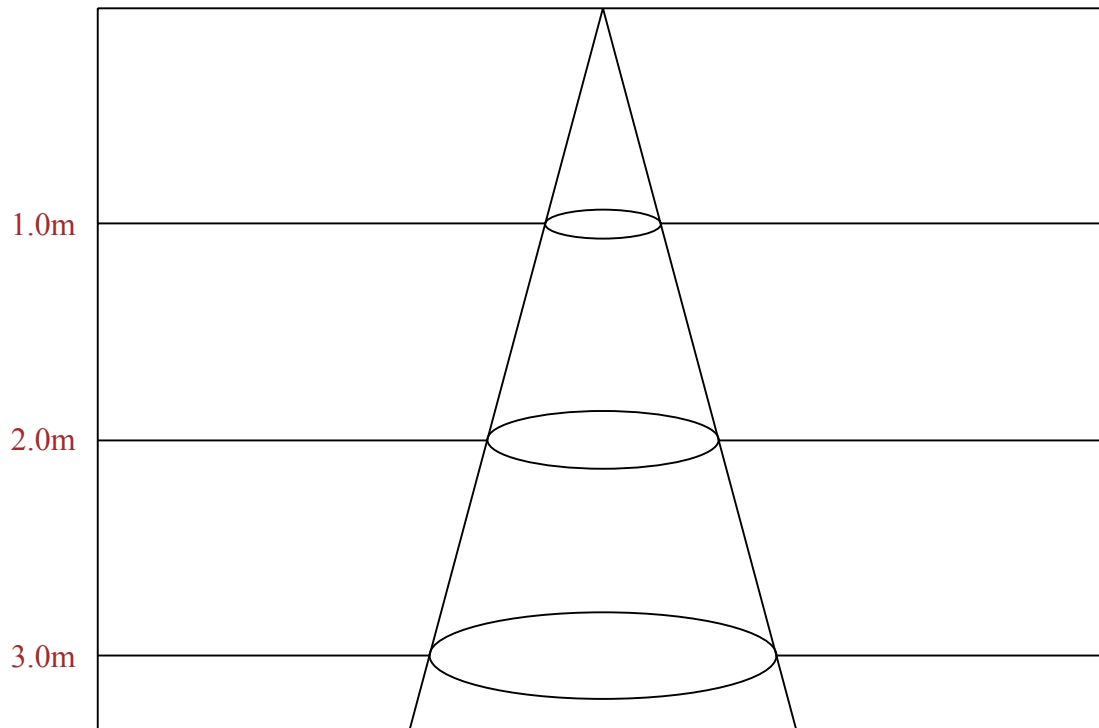
C0(Max): —————

C0/C180: —————

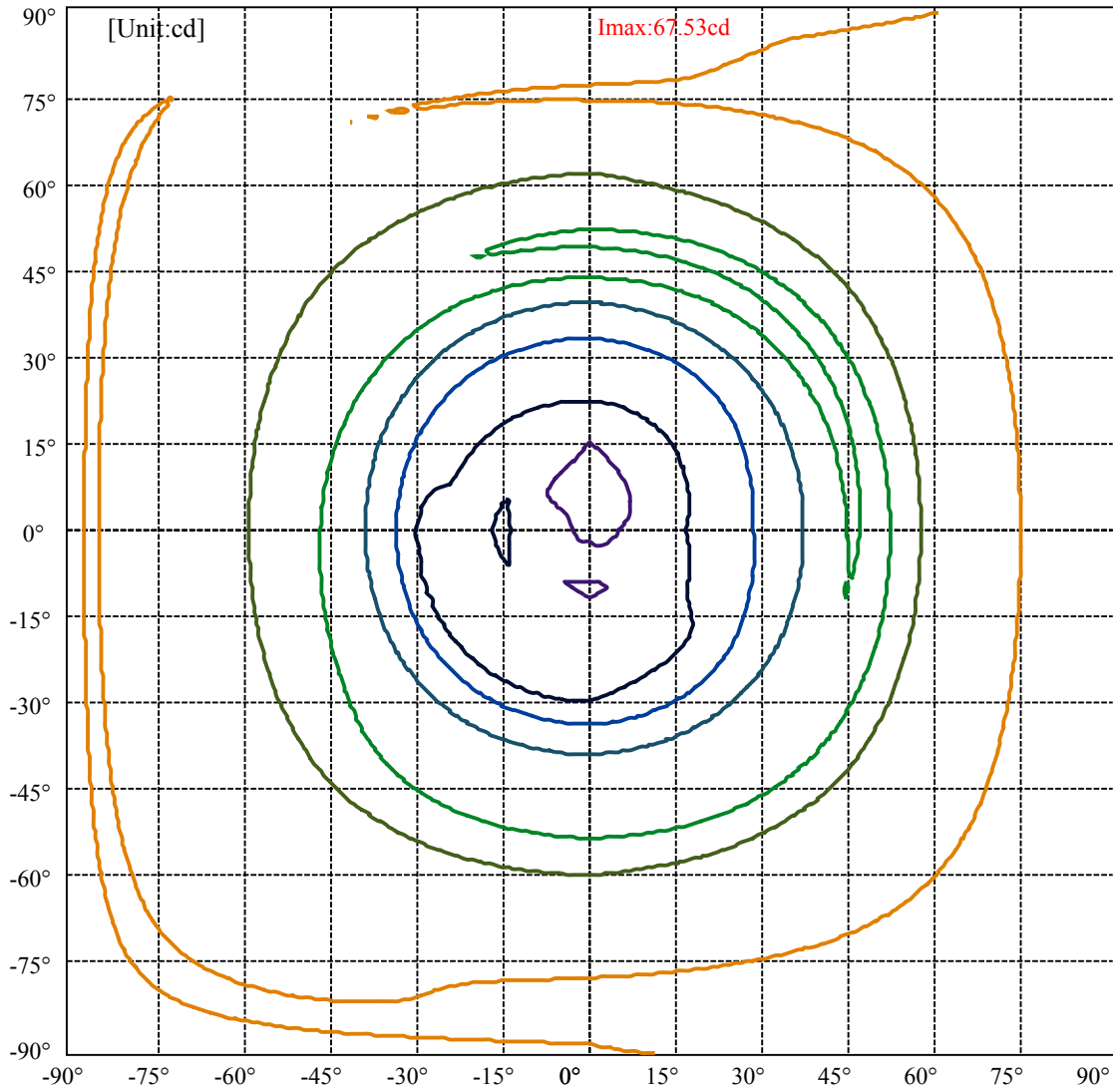
C90/C270: —————

Field angle(10%Imax):C0/180Left:250.6 Right:85.6
:C90/270Left:91.5 Right:244.9

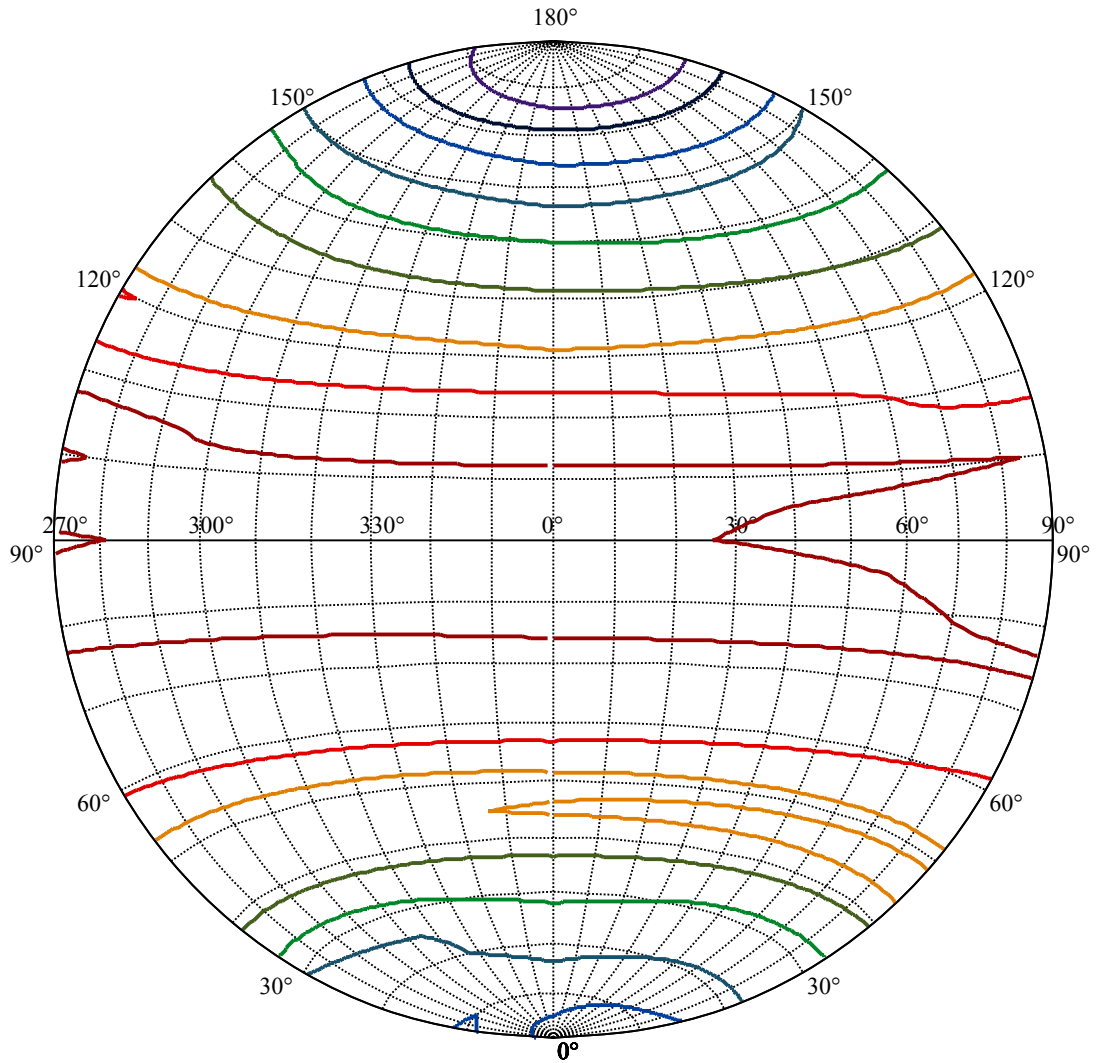
Beam Angle(50%Imax):C0/180Left:225.8 Right:60.0
:C90/270Left:67.0 Right:220.5



Max , Ave Beam angle of C0 plane 328.63



(10%Imax) 20.2587	
(20%Imax) 27.0116	
(30%Imax) 33.7645	
(40%Imax) 40.5175	
(50%Imax) 47.2704	
(60%Imax) 54.0233	
(70%Imax) 60.7762	



House

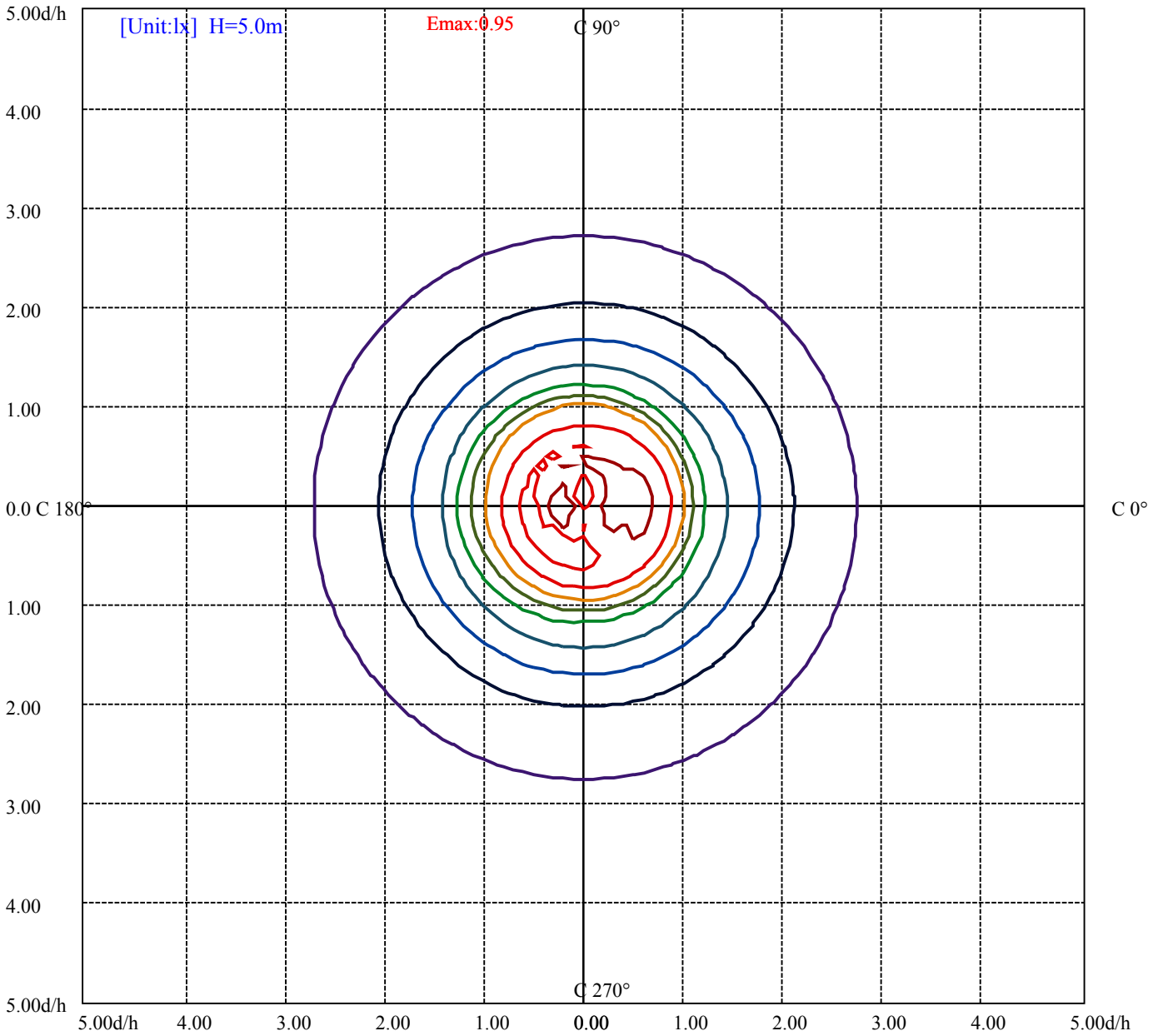
[Unit:cd]

Road

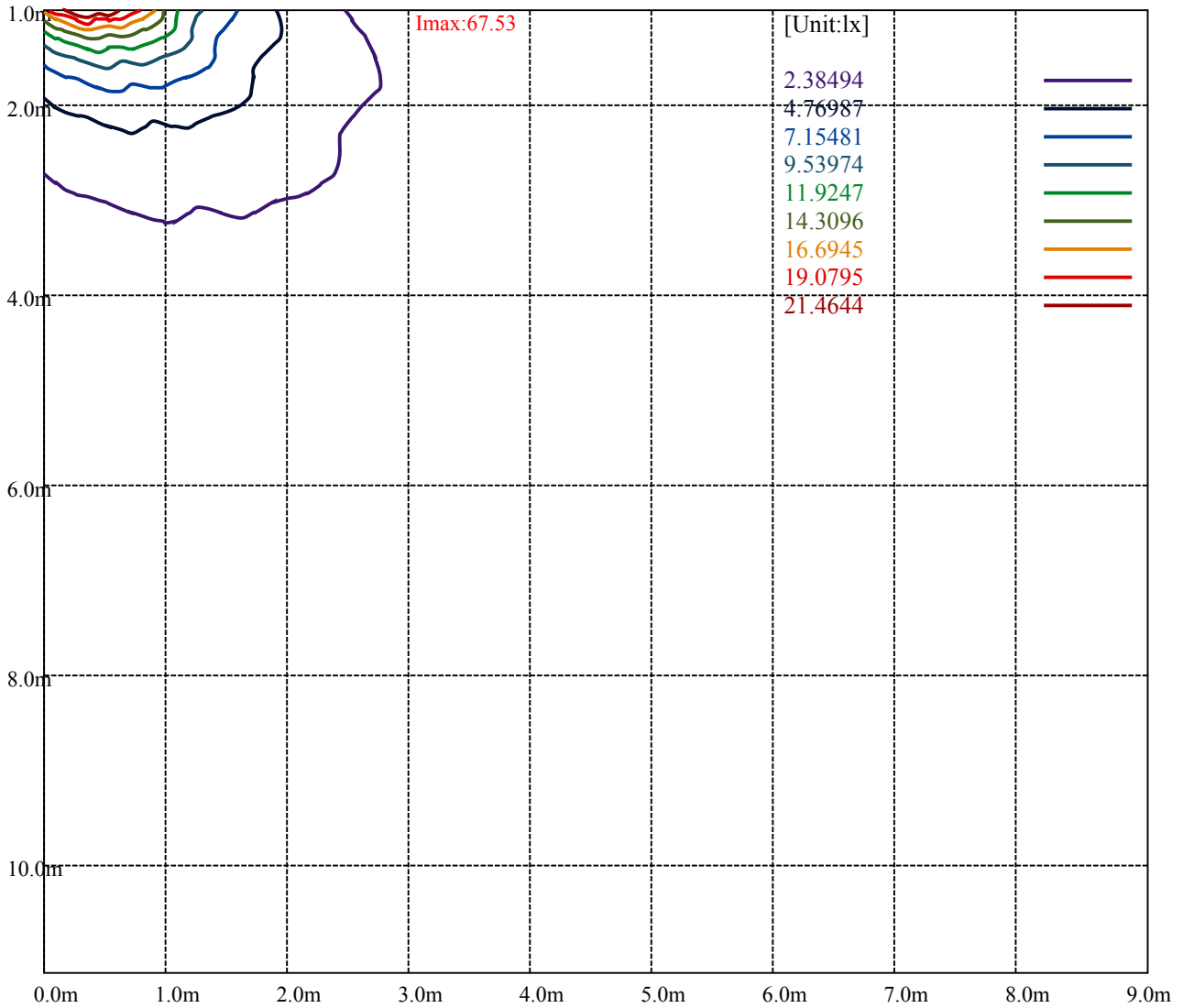
I_{max}:67.53

- (10%I_{max}) 6.75291
- (20%I_{max}) 13.5058
- (30%I_{max}) 20.2587
- (40%I_{max}) 27.0116
- (50%I_{max}) 33.7645
- (60%I_{max}) 40.5175
- (70%I_{max}) 47.2704
- (80%I_{max}) 54.0233
- (90%I_{max}) 60.7762





- (10%Emax) 0.0953976
- (20%Emax) 0.1907948
- (30%Emax) 0.2861924
- (40%Emax) 0.38159
- (50%Emax) 0.476988
- (60%Emax) 0.572384
- (70%Emax) 0.667784
- (80%Emax) 0.76318
- (90%Emax) 0.858576



Luminance Table

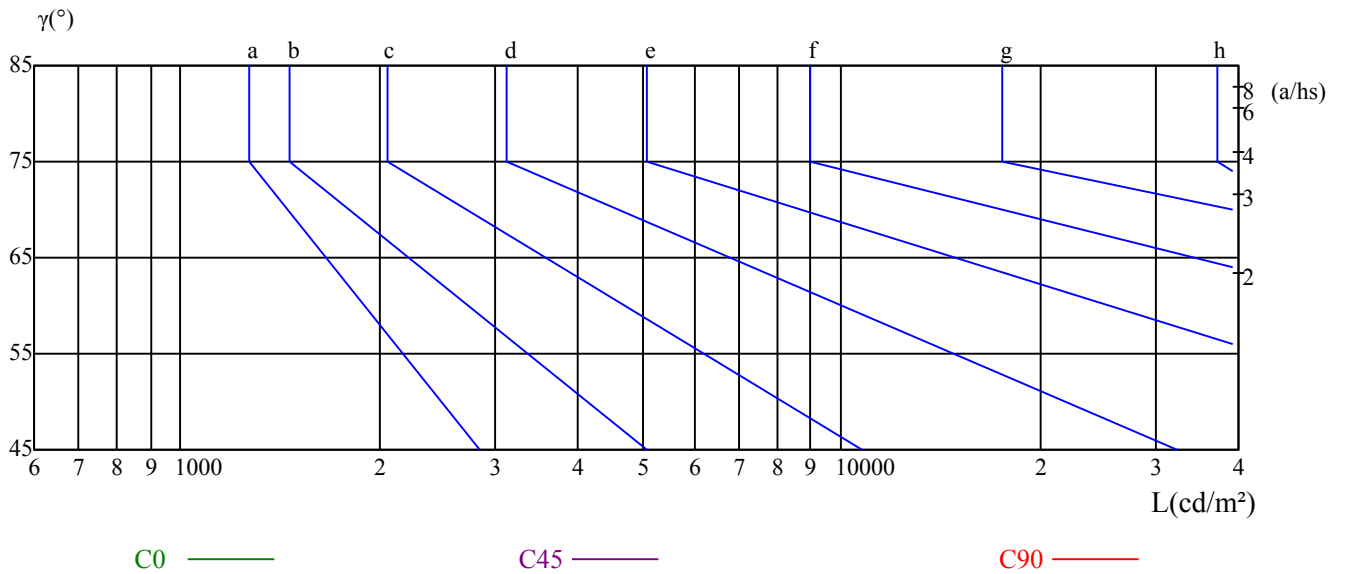
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

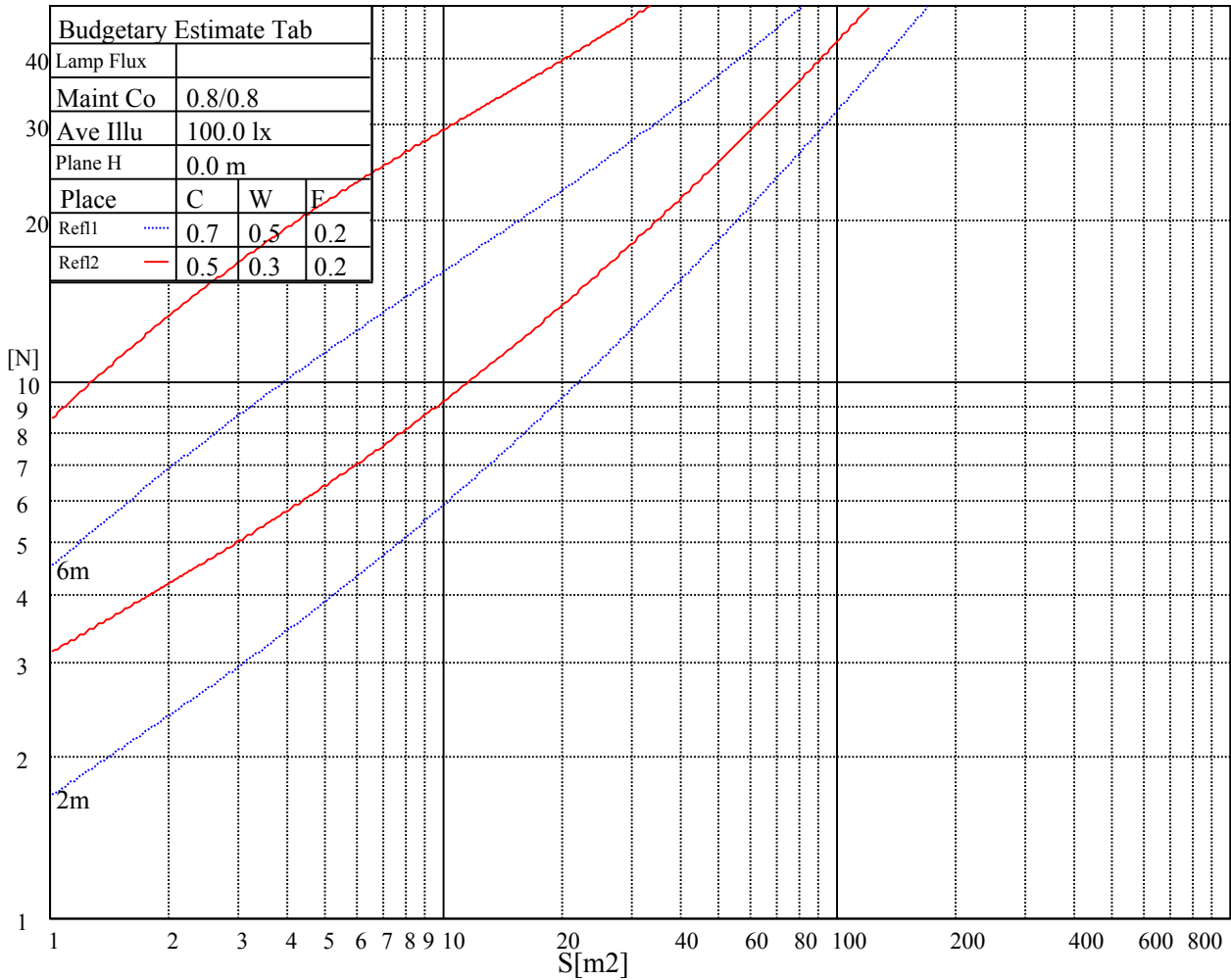
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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	0.85	0.85	0.85	0.71	0.71	0.71	0.58	0.58	0.58	0.52
1	0.87	0.82	0.77	0.80	0.75	0.71	0.67	0.64	0.60	0.55	0.52	0.50	0.44	0.42	0.40	0.35
2	0.73	0.65	0.58	0.67	0.60	0.54	0.56	0.50	0.45	0.45	0.41	0.37	0.36	0.32	0.30	0.25
3	0.62	0.53	0.46	0.57	0.49	0.42	0.47	0.41	0.36	0.38	0.33	0.29	0.30	0.26	0.23	0.18
4	0.54	0.45	0.37	0.50	0.41	0.34	0.41	0.34	0.29	0.33	0.28	0.23	0.26	0.22	0.18	0.14
5	0.48	0.38	0.31	0.44	0.35	0.28	0.36	0.29	0.24	0.29	0.24	0.19	0.22	0.18	0.15	0.11
6	0.42	0.33	0.26	0.39	0.30	0.24	0.32	0.25	0.20	0.26	0.20	0.16	0.20	0.16	0.12	0.09
7	0.38	0.29	0.22	0.35	0.26	0.21	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	0.18	0.26	0.19	0.15	0.21	0.16	0.12	0.16	0.12	0.09	0.07
9	0.31	0.22	0.17	0.28	0.21	0.15	0.24	0.17	0.13	0.19	0.14	0.10	0.15	0.11	0.08	0.06
10	0.28	0.20	0.15	0.26	0.19	0.14	0.22	0.16	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	17.50	20.26	22.10	25.78	29.77	29.47	36.53	38.68	44.20
90.0	19.03	16.88	18.72	20.26	23.94	31.00	28.24	37.45	41.13
180.0	17.50	22.41	21.49	29.16	23.02	26.09	27.01	37.45	41.75
270.0	19.03	22.10	19.64	21.49	22.41	24.56	27.32	36.83	42.05
360.0	17.50	20.26	22.10	25.78	29.77	29.47	36.53	38.68	44.20
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	47.88	45.74	50.65	59.86	60.47	58.32	61.39	67.53	66.61
90.0	50.34	46.04	49.73	53.10	56.48	57.71	61.70	58.63	57.40
180.0	46.35	50.03	48.81	56.17	56.17	56.48	59.86	54.94	61.70
270.0	43.89	42.67	50.65	54.64	54.02	59.86	59.24	63.23	61.39
360.0	47.88	45.74	50.65	59.86	60.47	58.32	61.39	67.53	66.61
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	62.92	63.54	65.38	54.33	59.24	53.10	47.88	45.43	42.36
90.0	55.56	57.09	60.47	55.25	51.57	51.26	50.34	43.59	39.60
180.0	59.24	59.24	58.01	56.17	57.09	54.33	46.96	50.65	43.59
270.0	60.47	62.00	60.47	63.23	58.32	52.18	54.33	43.28	44.51
360.0	62.92	63.54	65.38	54.33	59.24	53.10	47.88	45.43	42.36
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	35.91	33.76	28.24	23.94	19.64	15.35	7.37	1.84	2.46
90.0	36.53	31.92	28.55	27.01	17.80	13.81	6.14	0.61	1.53
180.0	41.13	36.83	34.99	27.32	20.57	19.03	12.28	7.06	4.60
270.0	42.36	36.53	34.69	27.01	24.56	16.58	11.66	7.67	3.07
360.0	35.91	33.76	28.24	23.94	19.64	15.35	7.37	1.84	2.46
C/γ(°)	180.0								
0.0	0.00								
90.0	0.31								
180.0	0.00								
270.0	0.31								
360.0	0.00								