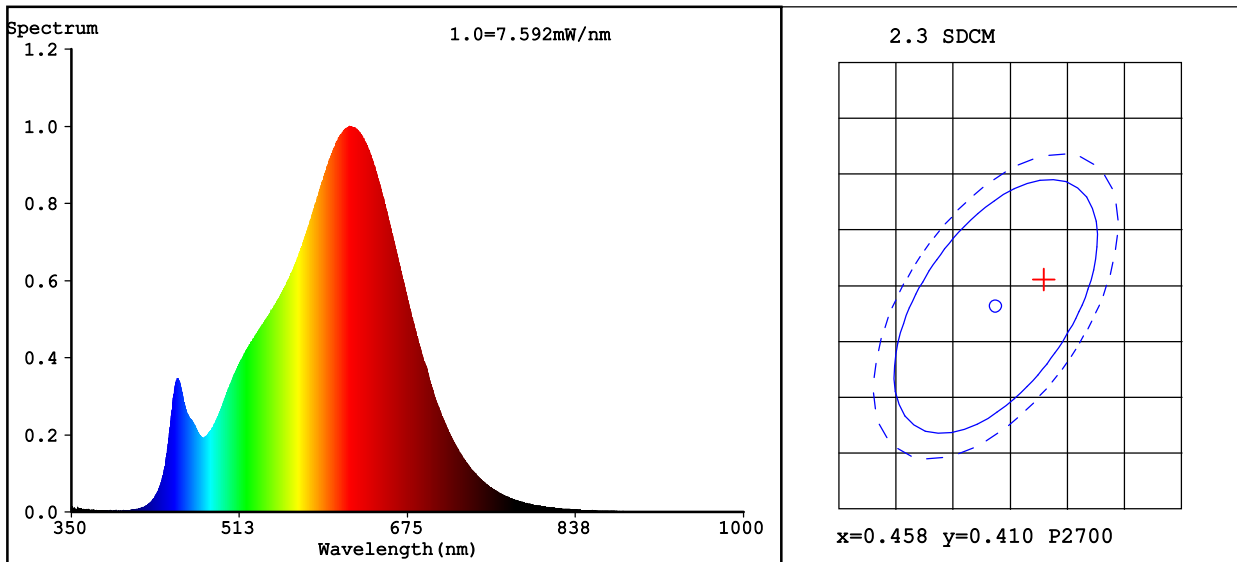


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4620$ $y=0.4125$ / $u'=0.2630$ $v'=0.5284$
 CCT=2686K (Duv=0.0005) Dominant WL:Ld =584.1nm Purity=62.5%
 Ratio:R=26.4% G=71.1% B=2.5% Peak WL:Lp=620.7nm FWHM=141.3nm
 Render Index:Ra=92.0
 R1 =92 R2 =97 R3 =98 R4 =92 R5 =92 R6 =97 R7 =90
 R8 =78 R9 =52 R10=92 R11=93 R12=85 R13=93 R14=100 R15=87

Photo Parameters:

Flux = 346.4 lm Eff. : 109.02 lm/W Fe = 1.210 W

Electrical parameters:

V = 120.02 V I = 0.03523 A P = 3.177 W PF = 0.7527

Status: Integral T = 1923 ms Ip = 50534 (77%)

Model:BA11-3-E26-927-F-C	Number:2
Tester:XCJ	Date:2018-09-30
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:RAB Lighting Inc.	Remarks:

RAB Lighting Inc.

Client:

LumCAT: BA11-3-E26-927-F-C

Luminaire:

Report No:

Voltage(V): 120.0200

Test No: 255180-01-001

Current(A): 0.0360

LampCAT:

Power (W): 3.2590

Lamp flux(lm)

PF: 0.7591

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 344.11

Lumens(lm)/Power(W): 105.59

Central intensity(cd): 2.763

Maximum intensity(cd): 43.280

Angle of maximum intensity: C=180.0 γ =85.0

Beam Angle(50%Imax): [C0/180]Total=262.5

[C90/270]Total=264.7

Field angle(10%Imax): [C0/180]Total=322.1

[C90/270]Total=320.1

Maximum s/h(1/2): C0_180=5.38 C90_270=3.71

Maximum s/h(1/4): C0_180=5.19 C90_270=3.57

Up flux rate of LUM(%): 42.49%

Down flux rate of LUM(%): 54.50%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 24.595%

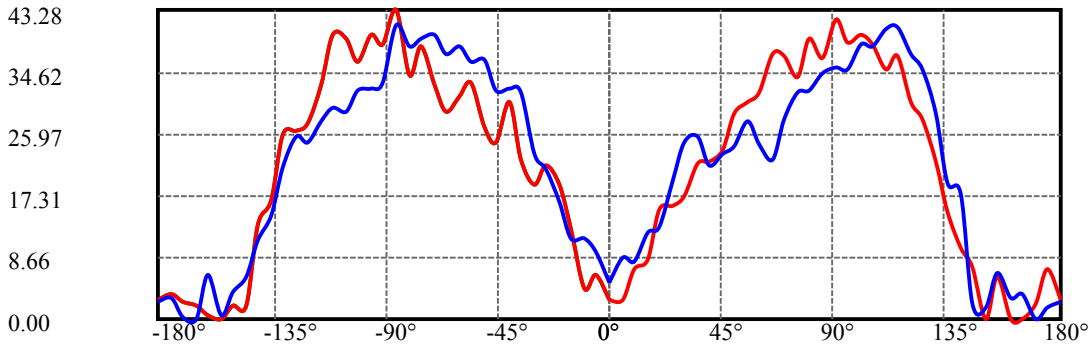
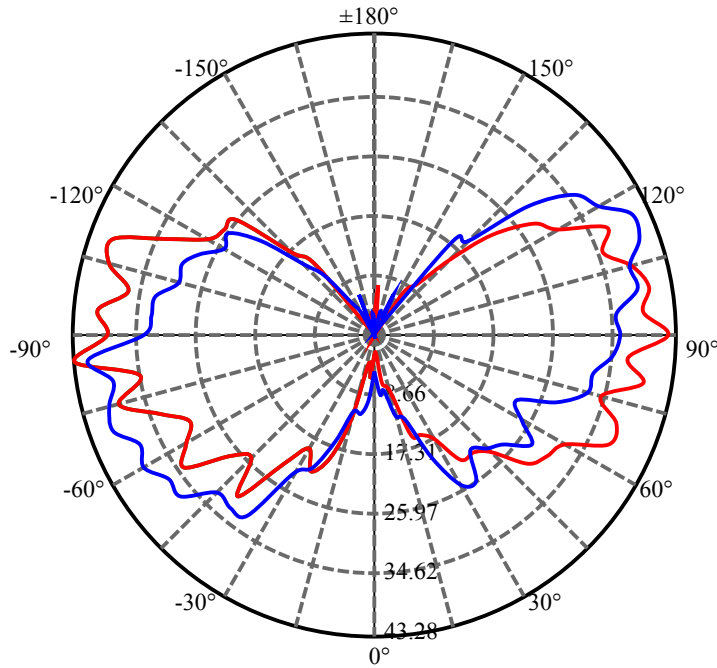
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3.990	0.024	0.024	.007%	.007%
5.0	6.753	0.323	0.346	.094%	.101%
10.0	7.674	0.730	1.077	.212%	.313%
15.0	11.050	1.568	2.645	.456%	.769%
20.0	15.808	2.964	5.608	.861%	1.630%
25.0	19.415	4.497	10.106	1.307%	2.937%
30.0	20.949	5.742	15.847	1.669%	4.605%
35.0	25.323	7.962	23.809	2.314%	6.919%
40.0	26.551	9.355	33.164	2.719%	9.638%
45.0	25.861	10.023	43.187	2.913%	12.550%
50.0	29.084	12.212	55.399	3.549%	16.099%
55.0	31.769	14.265	69.664	4.145%	20.245%
60.0	31.386	14.899	84.563	4.330%	24.574%
65.0	31.462	15.630	100.193	4.542%	29.117%
70.0	34.378	17.708	117.9	5.146%	34.262%
75.0	35.683	18.893	136.793	5.490%	39.753%
80.0	35.836	19.345	156.138	5.622%	45.374%
85.0	38.829	21.203	177.341	6.162%	51.536%
90.0	37.218	20.400	197.741	5.928%	57.465%
95.0	36.450	19.904	217.645	5.784%	63.249%
100.0	36.527	19.718	237.363	5.730%	68.979%
105.0	36.220	19.177	256.54	5.573%	74.552%
110.0	36.220	18.656	275.196	5.422%	79.973%
115.0	34.532	17.155	292.351	4.985%	84.959%
120.0	29.928	14.207	306.557	4.129%	89.087%
125.0	28.700	12.886	319.444	3.745%	92.832%
130.0	24.479	10.279	329.723	2.987%	95.819%
135.0	16.268	6.305	336.028	1.832%	97.652%
140.0	12.892	4.542	340.571	1.320%	98.972%
145.0	4.297	1.351	341.922	.393%	99.364%
150.0	1.765	0.484	342.405	.141%	99.505%
155.0	3.223	0.747	343.152	.217%	99.722%
160.0	2.456	0.460	343.612	.134%	99.856%
165.0	1.305	0.185	343.797	.054%	99.909%
170.0	1.228	0.117	343.914	.034%	99.943%
175.0	3.760	0.180	344.094	.052%	99.995%
180.0	2.609	0.016	344.109	.005%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	15.85	4.61%
0-40	33.16	9.64%
0-60	84.56	24.57%
0-90	197.74	57.46%
0-120	306.56	89.09%
0-180	344.11	100.00%
60-90	128.08	37.22%
90-120	129.22	37.55%
90-130	152.38	44.28%
90-150	165.06	47.97%
90-180	166.75	48.46%
0-110.03	275.29	80.00%

ZONAL LUMEN SUMMARY

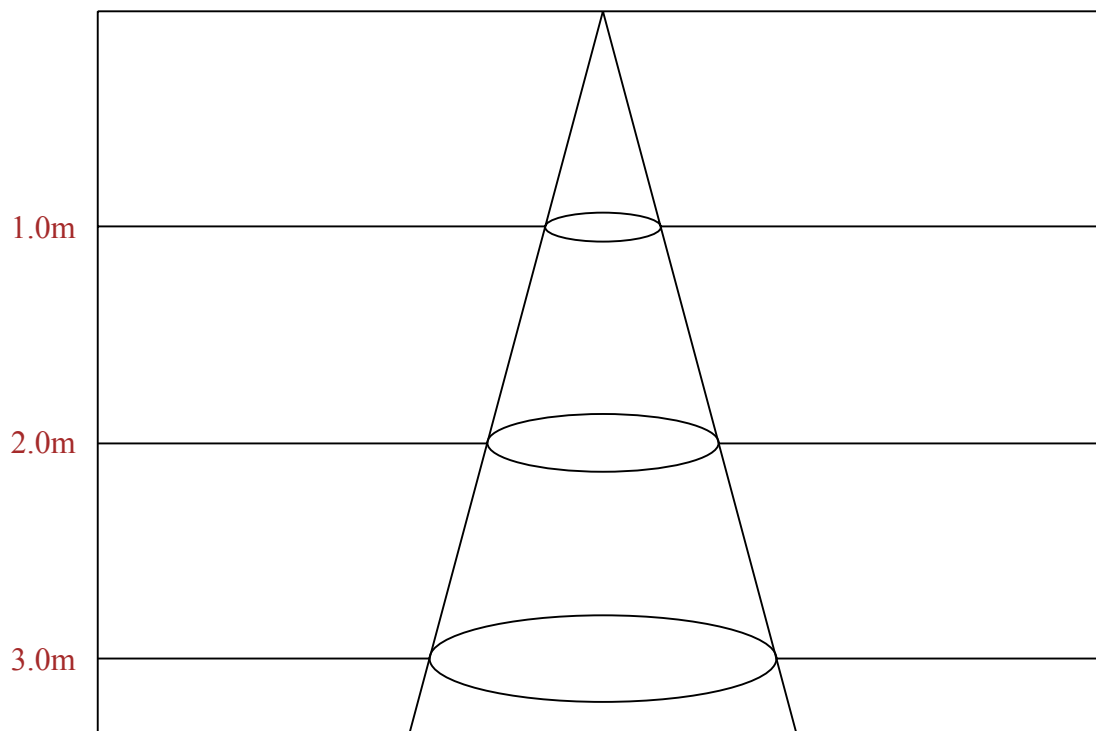
0-10	1.08
10-20	4.53
20-30	10.24
30-40	17.32
40-50	22.24
50-60	29.16
60-70	33.34
70-80	38.24
80-90	41.60
90-100	39.62
100-110	37.83
110-120	31.36
120-130	23.17
130-140	10.85
140-150	1.83
150-160	1.21
160-170	0.30
170-180	0.18



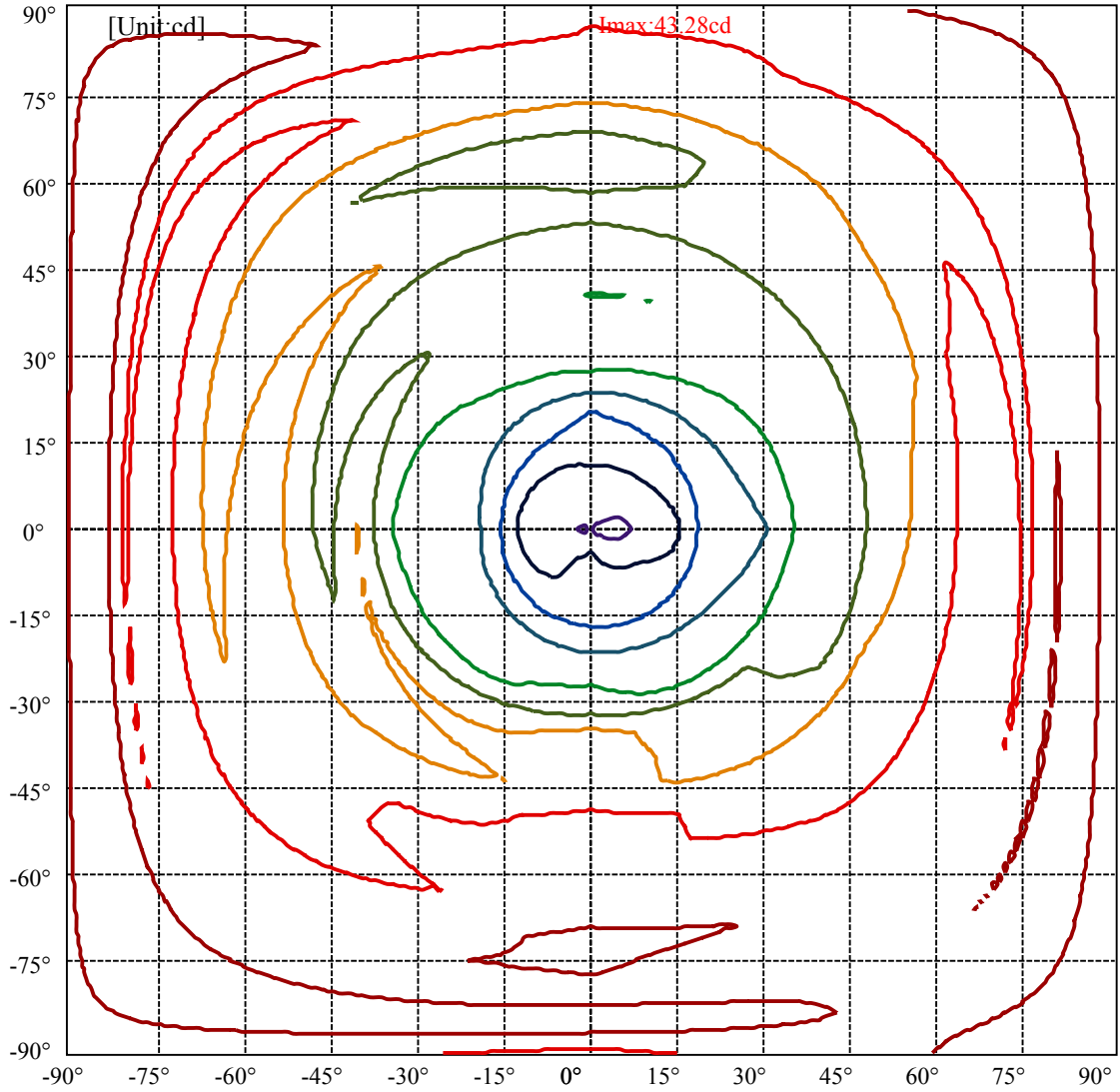
C180(Max): ———
 C0/C180: ———
 C90/C270: ———










Field angle(10%Imax):C0/180Left:58.9 Right:263.2
 :C90/270Left:76.7 Right:243.5

Beam Angle(50%Imax):C0/180Left:47.3 Right:215.3
 :C90/270Left:45.5 Right:219.2



Max , Ave Beam angle of C180 plane 182.76

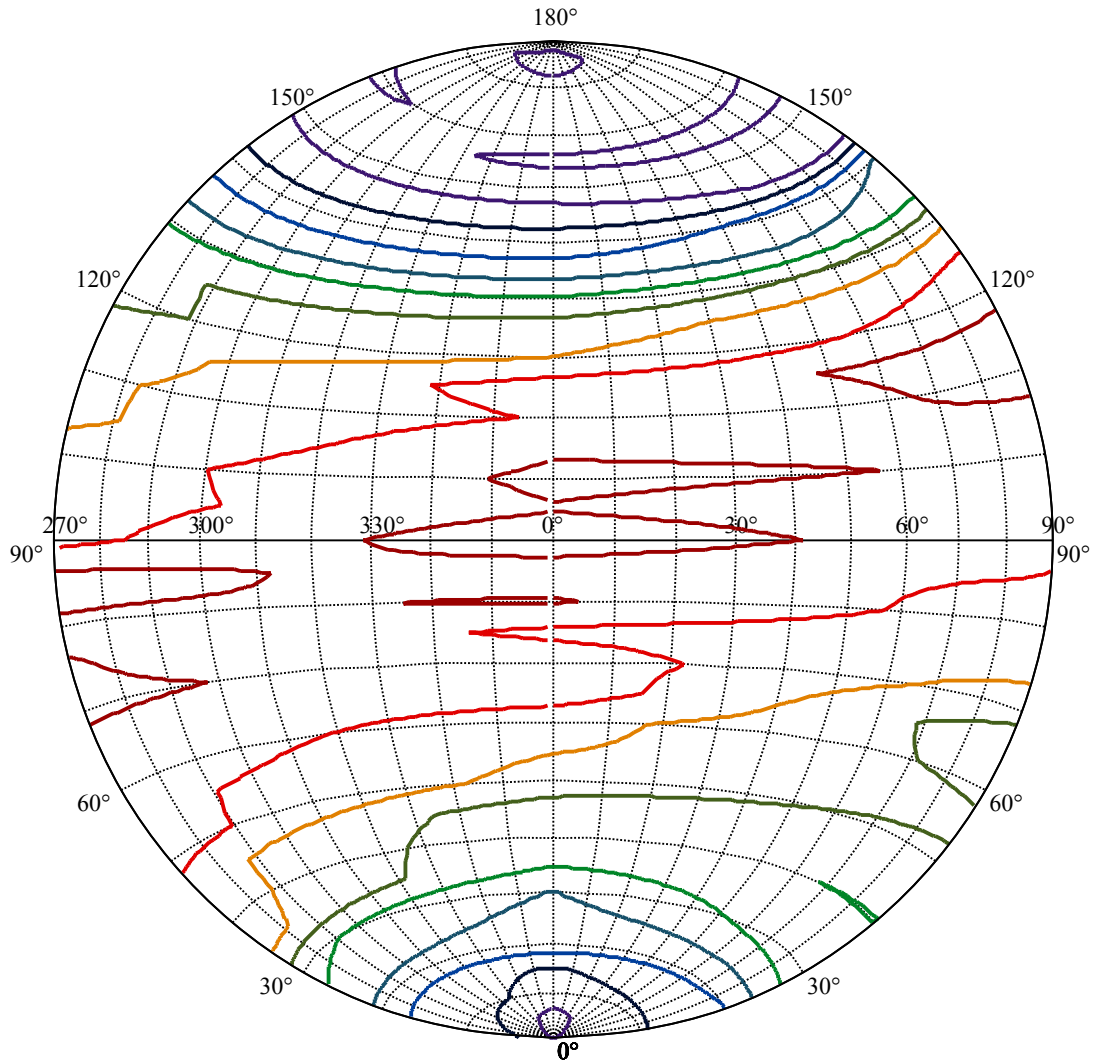


(10%Imax)	4.328	
(20%Imax)	8.656	
(30%Imax)	12.984	
(40%Imax)	17.312	
(50%Imax)	21.64	
(60%Imax)	25.968	
(70%Imax)	30.296	
(80%Imax)	34.624	
(90%Imax)	38.952	

Equipment: Goniophotometer
Temperature(°C): 0.0

Date: 2018/9/30
Humidity(%): 0.0%

Operator: WANG
Distance(m): 17.52



House

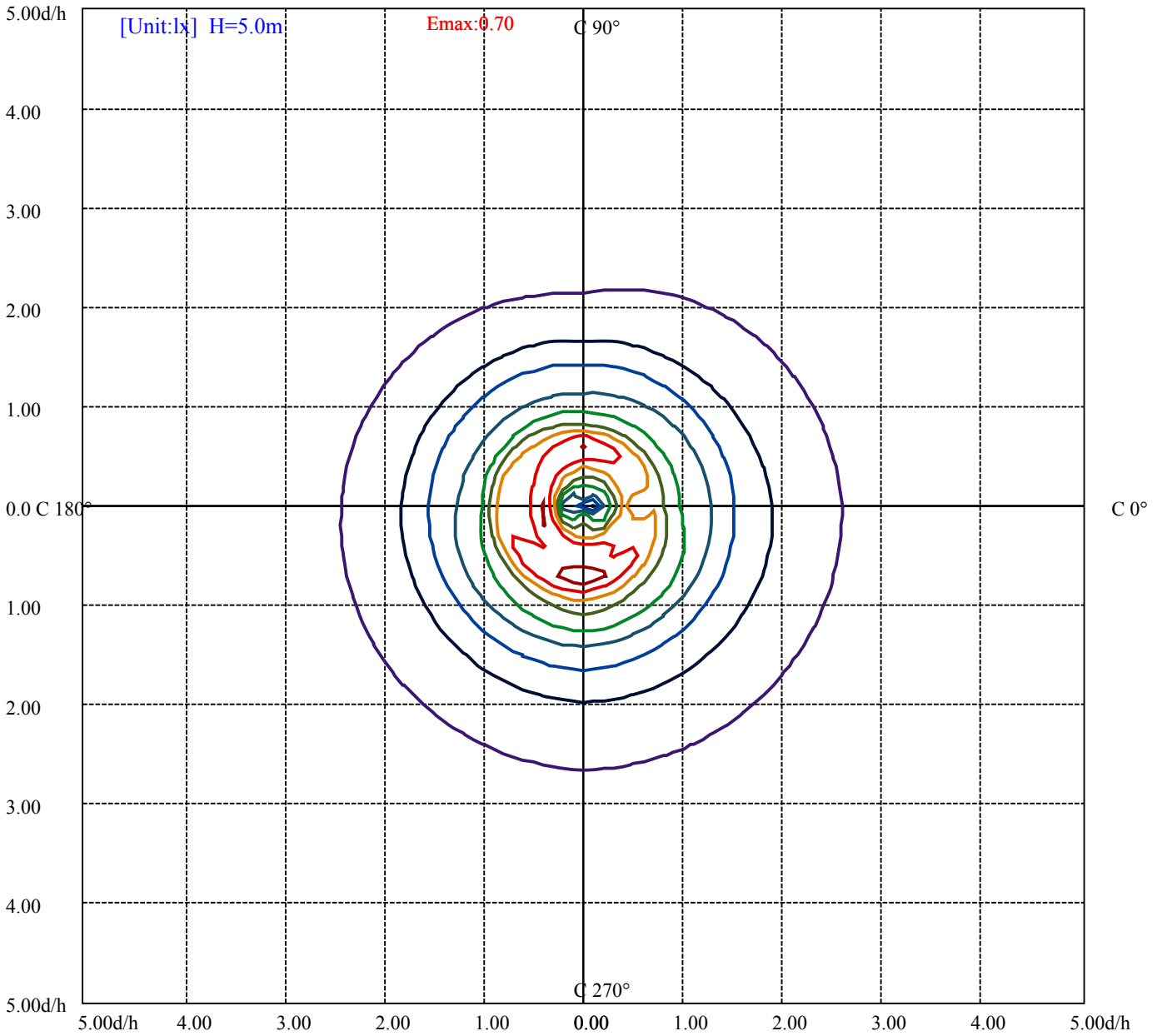
[Unit:cd]

Road

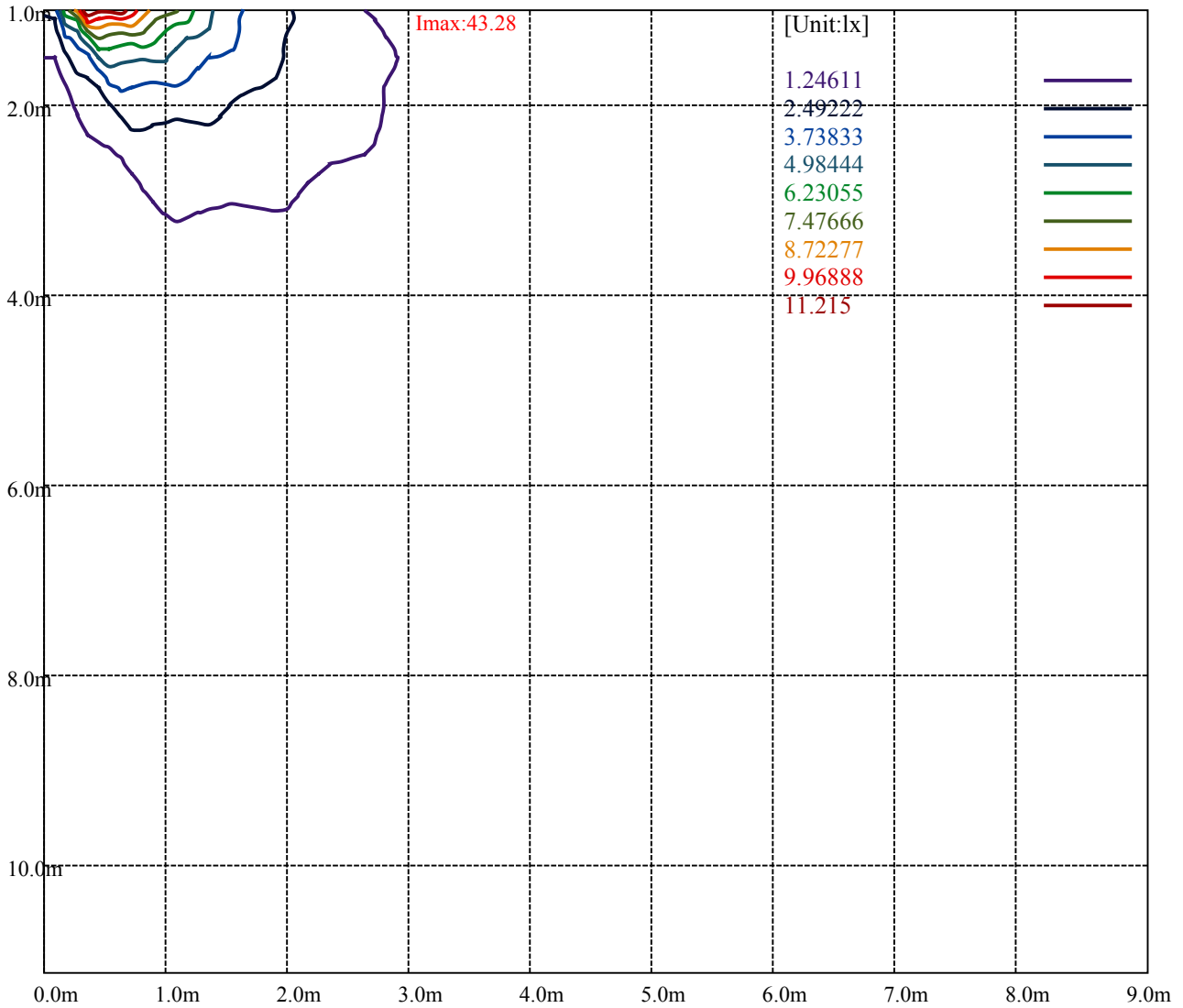
I_{max}:43.28

- (10%I_{max}) 4.328
- (20%I_{max}) 8.656
- (30%I_{max}) 12.984
- (40%I_{max}) 17.312
- (50%I_{max}) 21.64
- (60%I_{max}) 25.968
- (70%I_{max}) 30.296
- (80%I_{max}) 34.624
- (90%I_{max}) 38.952





- (10%Emax) 0.0695052
- (20%Emax) 0.13901
- (30%Emax) 0.2085152
- (40%Emax) 0.2780204
- (50%Emax) 0.3475256
- (60%Emax) 0.417032
- (70%Emax) 0.486536
- (80%Emax) 0.55604
- (90%Emax) 0.625544



Luminance Table

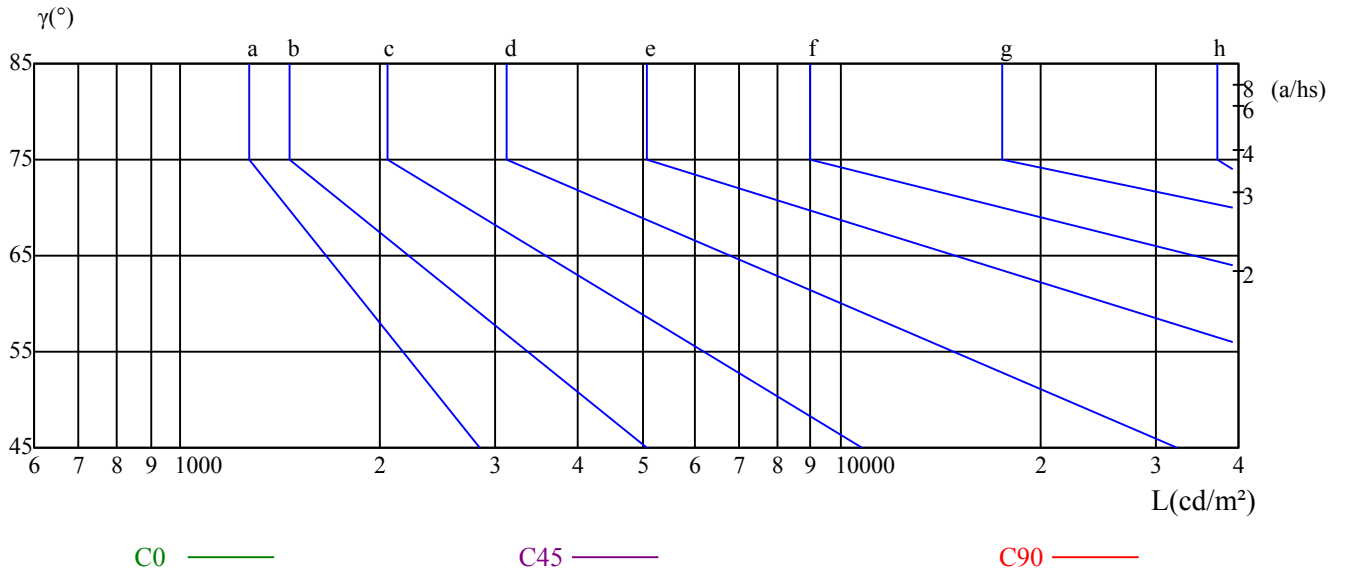
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

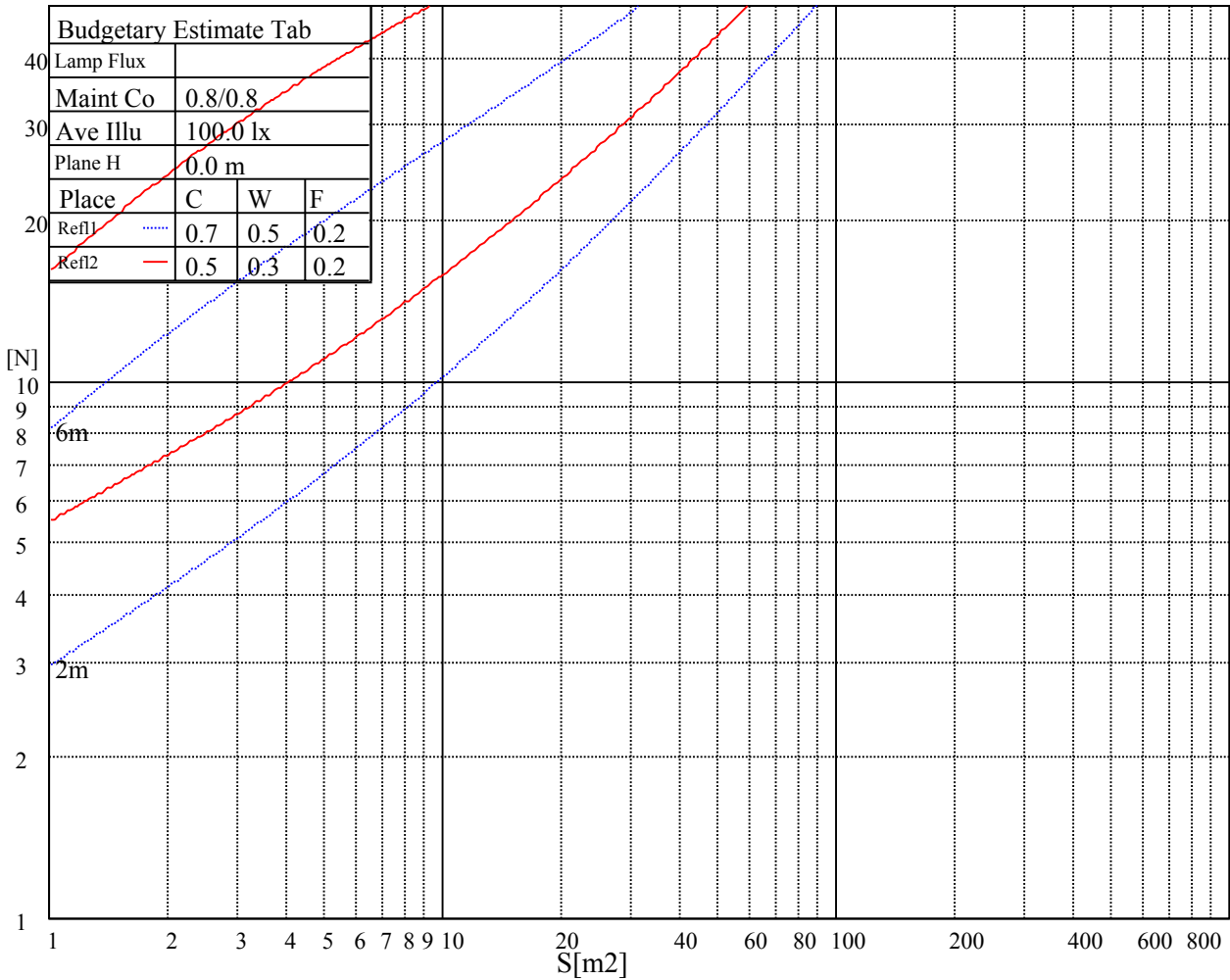
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
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 RHOF=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	0.56	0.53	0.51	0.46	0.43	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	0.63	0.53	0.46	0.57	0.49	0.42	0.48	0.41	0.36	0.39	0.34	0.30	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	0.48	0.38	0.31	0.44	0.35	0.28	0.36	0.29	0.24	0.30	0.24	0.20	0.23	0.19	0.15	0.12
6	0.42	0.33	0.26	0.39	0.30	0.24	0.32	0.25	0.20	0.26	0.21	0.16	0.21	0.16	0.13	0.10
7	0.38	0.28	0.22	0.35	0.26	0.20	0.29	0.22	0.17	0.24	0.18	0.14	0.19	0.14	0.11	0.08
8	0.34	0.25	0.19	0.31	0.23	0.18	0.26	0.20	0.15	0.21	0.16	0.12	0.17	0.13	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	0.11	0.15	0.11	0.08	0.06
10	0.28	0.20	0.15	0.26	0.18	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	2.76	2.76	7.06	8.29	15.35	15.96	17.19	21.79	22.10
90.0	5.22	8.59	7.98	11.97	12.89	19.34	24.86	25.48	21.49
180.0	2.76	6.14	4.30	12.58	18.72	21.49	18.72	22.41	30.39
270.0	5.22	9.52	11.36	11.36	16.27	20.87	23.02	31.62	32.23
360.0	2.76	2.76	7.06	8.29	15.35	15.96	17.19	21.79	22.10
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	23.64	28.85	30.39	31.62	37.14	36.83	33.76	39.29	36.53
90.0	23.02	24.25	27.63	24.56	22.41	27.93	31.62	31.92	34.38
180.0	24.86	27.01	33.15	31.31	29.16	32.84	38.06	34.07	43.28
270.0	31.92	36.22	35.91	38.06	37.14	39.90	39.29	38.06	41.13
360.0	23.64	28.85	30.39	31.62	37.14	36.83	33.76	39.29	36.53
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	42.05	38.68	39.90	38.37	34.99	36.83	30.39	27.93	22.10
90.0	35.30	34.99	38.37	38.06	40.52	40.82	37.14	34.99	28.85
180.0	38.37	39.90	35.91	39.29	39.90	32.84	27.32	26.40	25.78
270.0	33.15	32.23	31.92	29.16	29.47	27.63	24.86	25.48	21.18
360.0	42.05	38.68	39.90	38.37	34.99	36.83	30.39	27.93	22.10
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	15.04	9.82	7.37	0.00	5.83	0.00	0.00	2.15	7.06
90.0	19.03	17.50	2.15	1.53	6.45	3.07	3.38	0.00	1.53
180.0	16.58	13.20	1.84	1.84	0.00	0.61	1.84	2.46	3.38
270.0	14.43	11.05	5.83	3.68	0.61	6.14	0.00	0.31	3.07
360.0	15.04	9.82	7.37	0.00	5.83	0.00	0.00	2.15	7.06
C/γ(°)	180.0								
0.0	2.76								
90.0	2.46								
180.0	2.76								
270.0	2.46								
360.0	2.76								