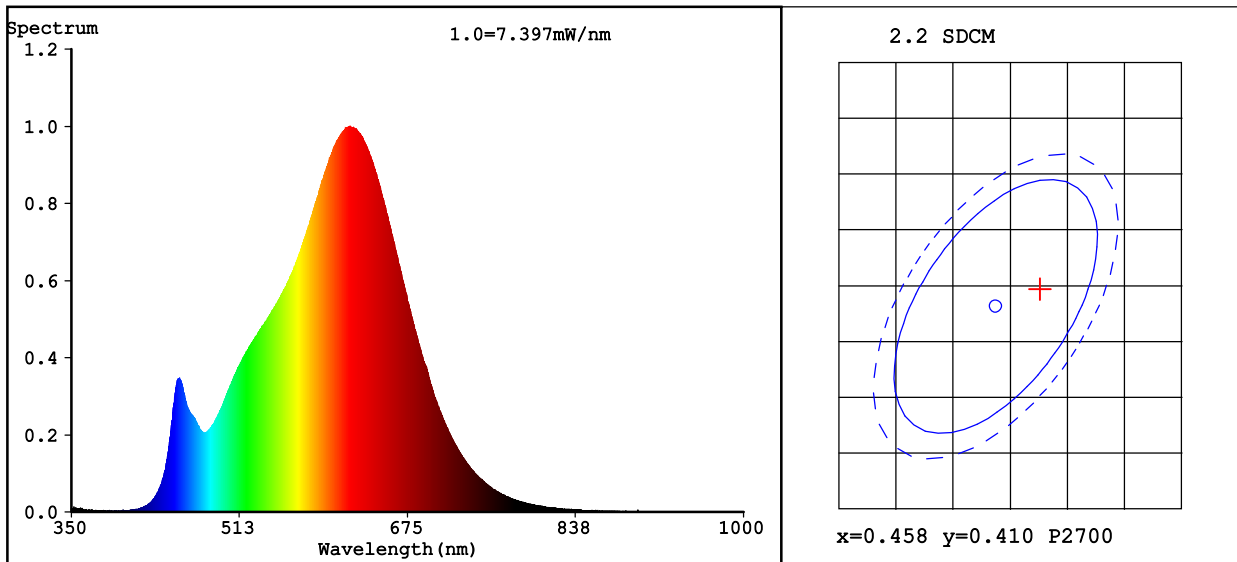


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4617$ $y=0.4116/u'=0.2632$ $v'=0.5280$
 CCT=2683K(Duv=0.0002) Dominant WL:Ld =584.2nm Purity=62.1%
 Ratio:R=26.5% G=71.0% B=2.6% Peak WL:Lp=619.1nm FWHM=140.3nm
 Render Index:Ra=91.8
 R1 =92 R2 =97 R3 =98 R4 =91 R5 =92 R6 =97 R7 =89
 R8 =77 R9 =52 R10=93 R11=93 R12=85 R13=94 R14=100 R15=87

Photo Parameters:

Flux = 337.0 lm Eff. : 103.48 lm/W Fe = 1.180 W

Electrical parameters:

V = 120.02 V I = 0.03606 A P = 3.257 W PF = 0.7521

Status: Integral T = 1923 ms Ip = 49310 (75%)

Model:B11-3-E26-927-F-F Number:1
 Tester:XCJ Date:2018-09-30
 Temperature:25.4Deg Humidity:65.0%
 Manufacturer:RAB Lighting Inc. Remarks:

RAB Lighting Inc.

Client:

LumCAT: B11-3-E26-927-F-F

Luminaire:

Report No:

Voltage(V): 120.0100

Test No: 255162-01-001

Current(A): 0.0370

LampCAT:

Power (W): 3.3050

Lamp flux(lm)

PF: 0.7496

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 315.72

Lumens(lm)/Power(W): 95.53

Central intensity(cd): 12.892

Maximum intensity(cd): 39.904

Angle of maximum intensity: C=0.0 γ =70.0

Beam Angle(50%Imax): [C0/180]Total=250.7

[C90/270]Total=268.2

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=2.63 C90_270=2.69

Maximum s/h(1/4): C0_180=2.74 C90_270=2.75

Up flux rate of LUM(%): 39.40%

Down flux rate of LUM(%): 57.51%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 26.159%

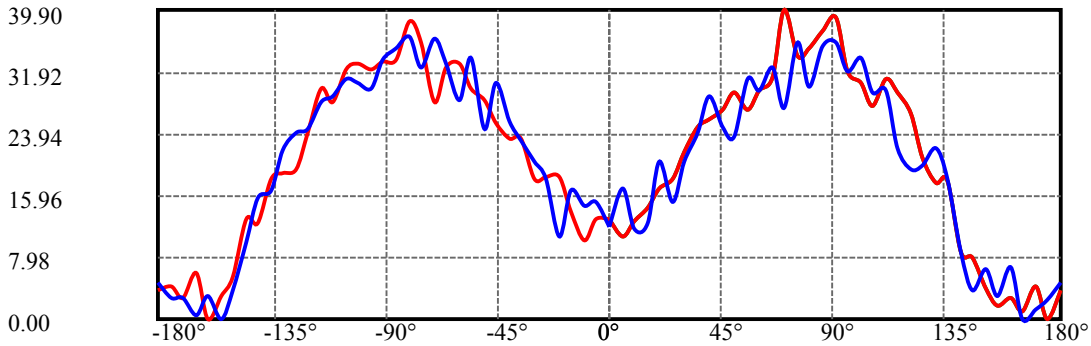
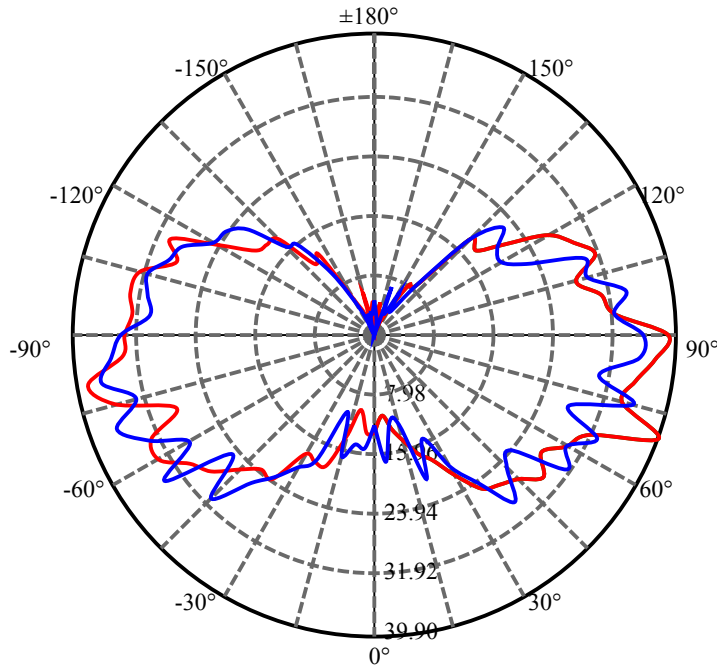
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12.431	0.074	0.074	.024%	.024%
5.0	13.890	0.664	0.738	.210%	.234%
10.0	12.278	1.169	1.907	.370%	.604%
15.0	14.273	2.025	3.931	.641%	1.245%
20.0	16.575	3.107	7.039	.984%	2.229%
25.0	17.419	4.035	11.074	1.278%	3.508%
30.0	20.029	5.489	16.563	1.739%	5.246%
35.0	23.789	7.479	24.042	2.369%	7.615%
40.0	25.861	9.112	33.154	2.886%	10.501%
45.0	26.858	10.410	43.564	3.297%	13.798%
50.0	26.398	11.084	54.648	3.511%	17.309%
55.0	30.388	13.644	68.293	4.322%	21.631%
60.0	30.004	14.243	82.536	4.511%	26.142%
65.0	32.307	16.049	98.585	5.083%	31.226%
70.0	32.844	16.917	115.502	5.358%	36.584%
75.0	34.455	18.243	133.745	5.778%	42.362%
80.0	34.992	18.889	152.634	5.983%	48.345%
85.0	35.223	19.233	171.868	6.092%	54.437%
90.0	35.299	19.349	191.217	6.129%	60.566%
95.0	31.462	17.180	208.397	5.442%	66.007%
100.0	31.846	17.191	225.587	5.445%	71.452%
105.0	30.004	15.886	241.474	5.032%	76.484%
110.0	29.314	15.099	256.573	4.782%	81.266%
115.0	27.242	13.533	270.106	4.286%	85.553%
120.0	23.558	11.183	281.289	3.542%	89.095%
125.0	21.026	9.441	290.73	2.990%	92.085%
130.0	20.029	8.410	299.14	2.664%	94.749%
135.0	17.650	6.841	305.981	2.167%	96.916%
140.0	11.280	3.974	309.955	1.259%	98.175%
145.0	8.595	2.702	312.657	.856%	99.031%
150.0	4.911	1.346	314.003	.426%	99.457%
155.0	1.995	0.462	314.466	.146%	99.603%
160.0	3.146	0.590	315.055	.187%	99.790%
165.0	1.842	0.261	315.317	.083%	99.873%
170.0	2.763	0.263	315.58	.083%	99.956%
175.0	2.379	0.114	315.693	.036%	99.992%
180.0	4.144	0.025	315.718	.008%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	16.56	5.25%
0-40	33.15	10.50%
0-60	82.54	26.14%
0-90	191.22	60.57%
0-120	281.29	89.10%
0-180	315.72	100.00%
60-90	122.92	38.93%
90-120	109.42	34.66%
90-130	127.27	40.31%
90-150	142.14	45.02%
90-180	143.83	45.56%
0-108.68	252.57	80.00%

ZONAL LUMEN SUMMARY

0-10	1.91
10-20	5.13
20-30	9.52
30-40	16.59
40-50	21.49
50-60	27.89
60-70	32.97
70-80	37.13
80-90	38.58
90-100	34.37
100-110	30.99
110-120	24.72
120-130	17.85
130-140	10.82
140-150	4.05
150-160	1.05
160-170	0.52
170-180	0.11



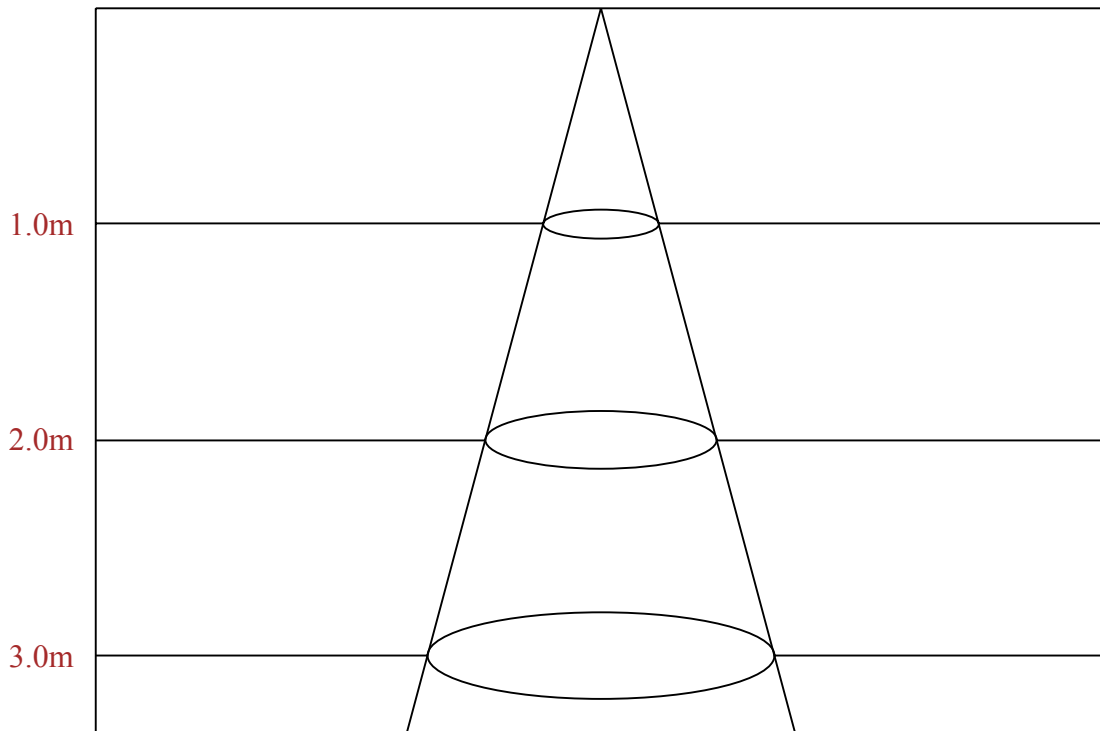
C0(Max): —————

C0/C180: —————

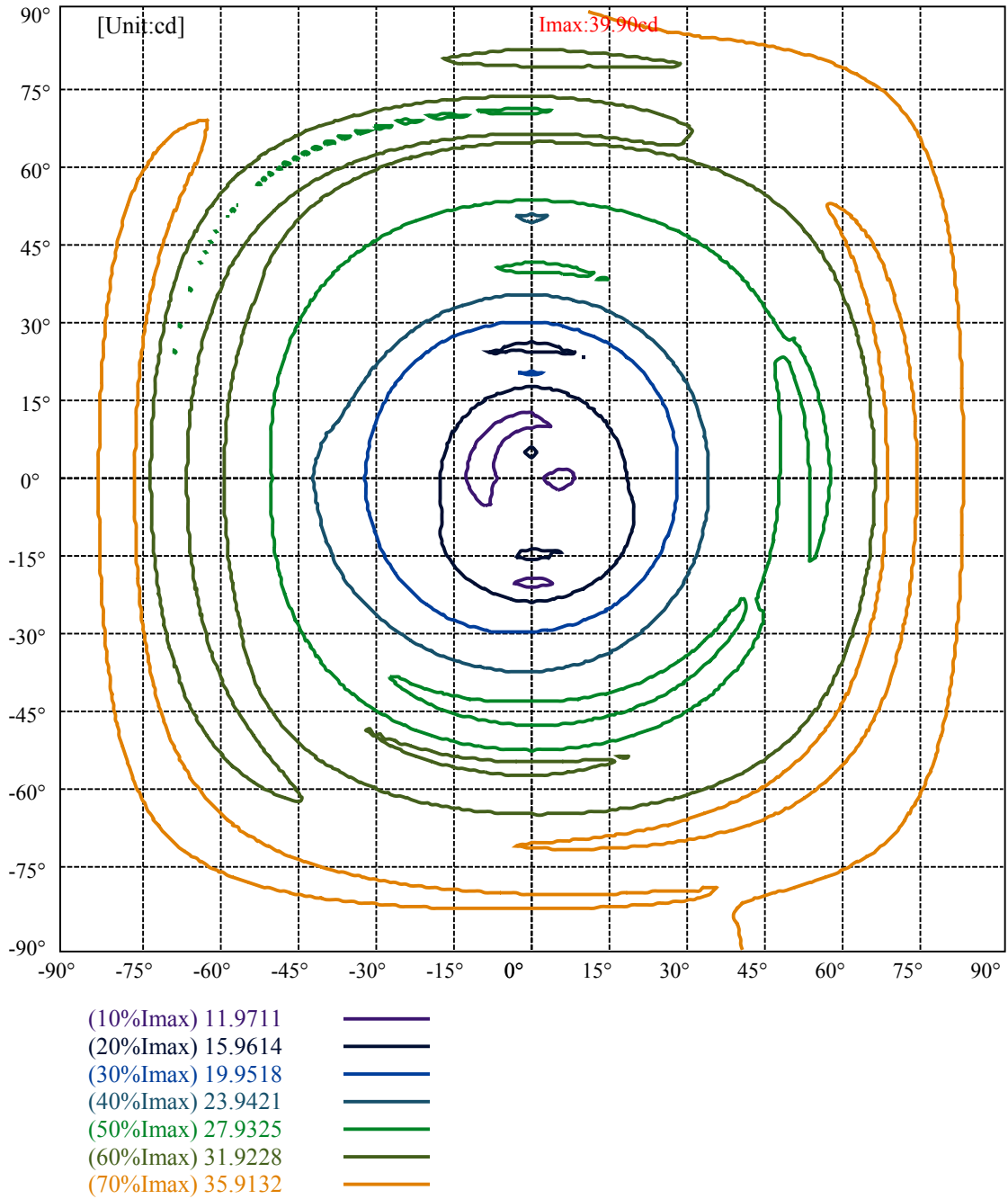
C90/C270: —————

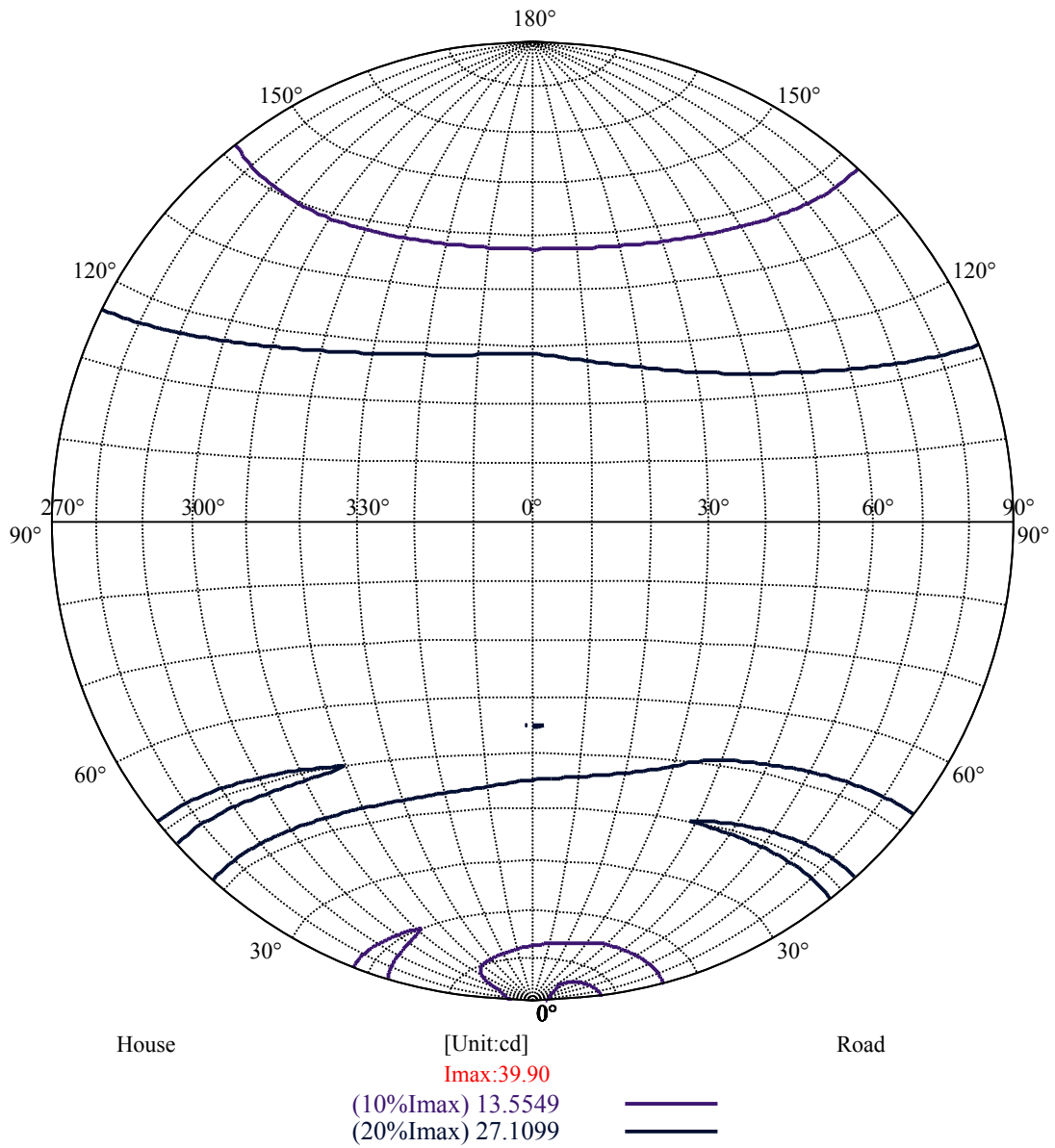
Field angle(10%Imax):C0/180Left:247.5 Right:100.4
:C90/270Left:111.7 Right:229.0

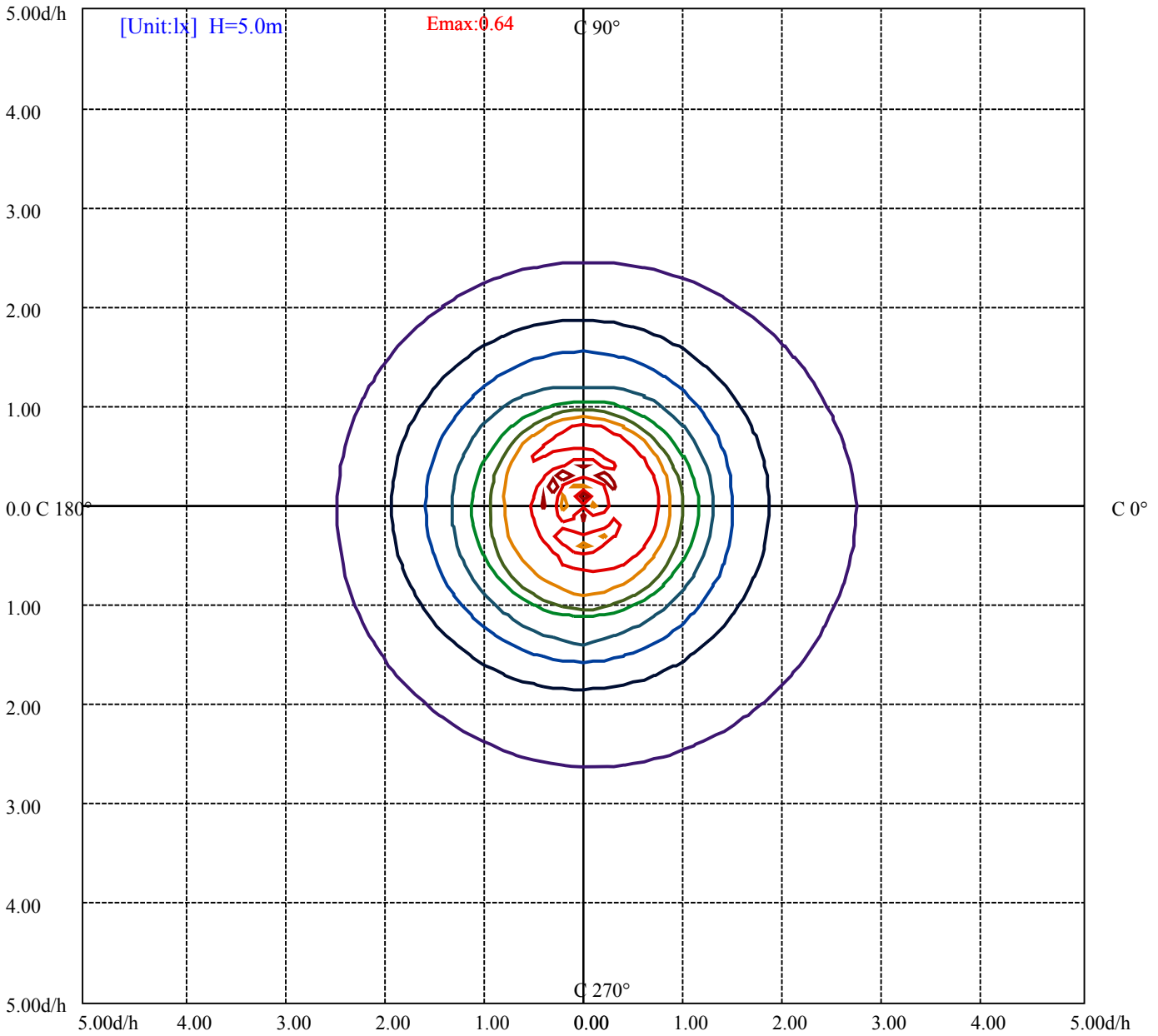
Beam Angle(50%Imax):C0/180Left:194.3 Right:56.4
:C90/270Left:53.4 Right:214.8



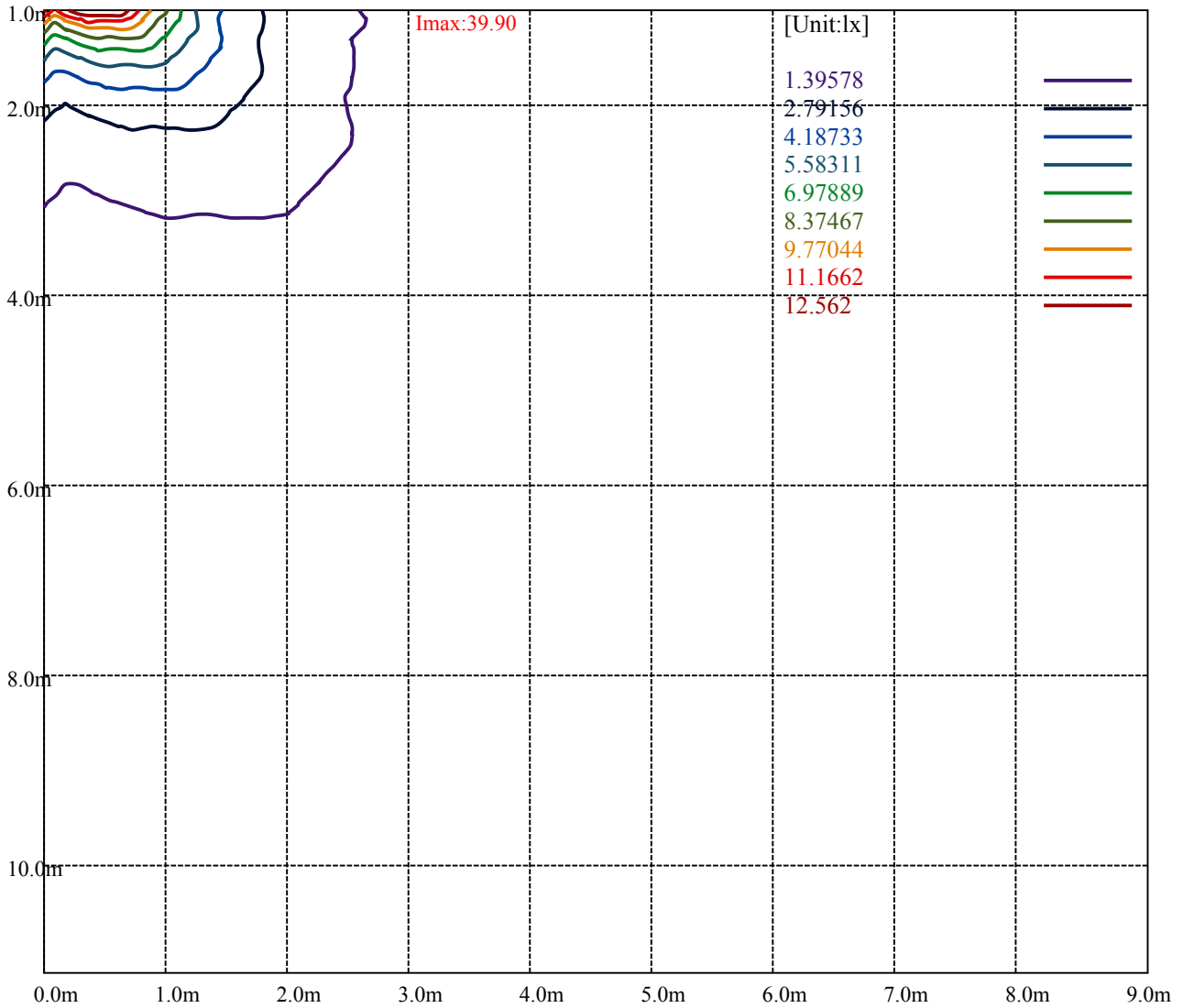
Max , Ave Beam angle of C0 plane 296.30







- (10%Emax) 0.0643964
- (20%Emax) 0.1287928
- (30%Emax) 0.1931896
- (40%Emax) 0.257586
- (50%Emax) 0.3219824
- (60%Emax) 0.3863788
- (70%Emax) 0.450776
- (80%Emax) 0.515172
- (90%Emax) 0.579568



Luminance Table

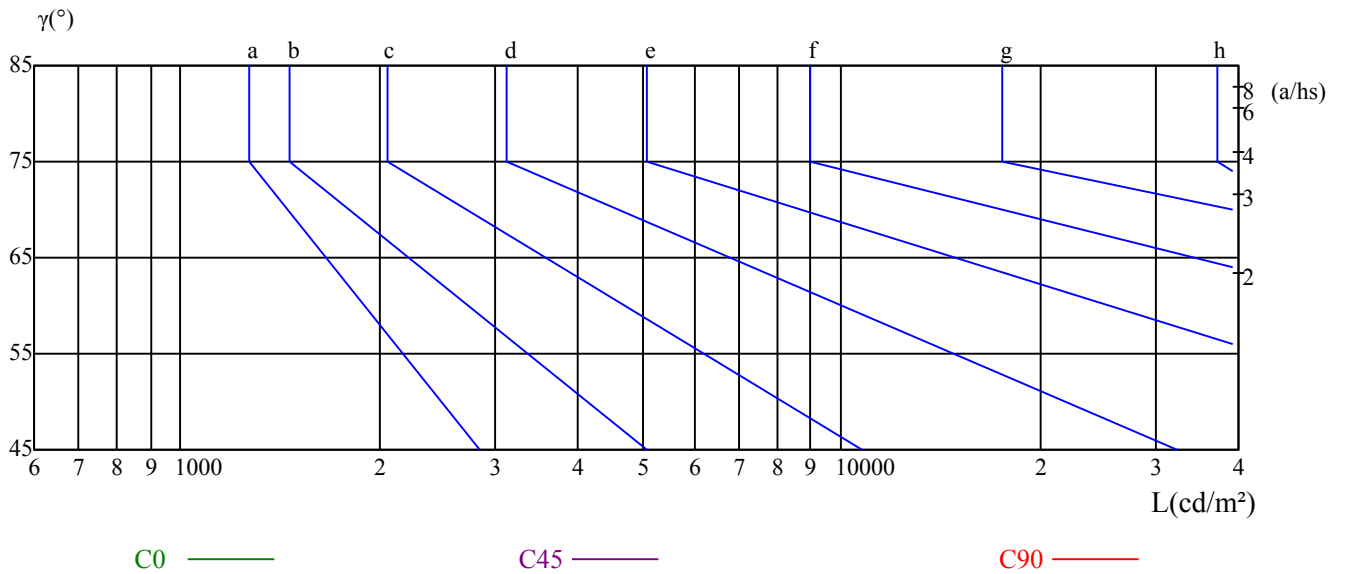
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

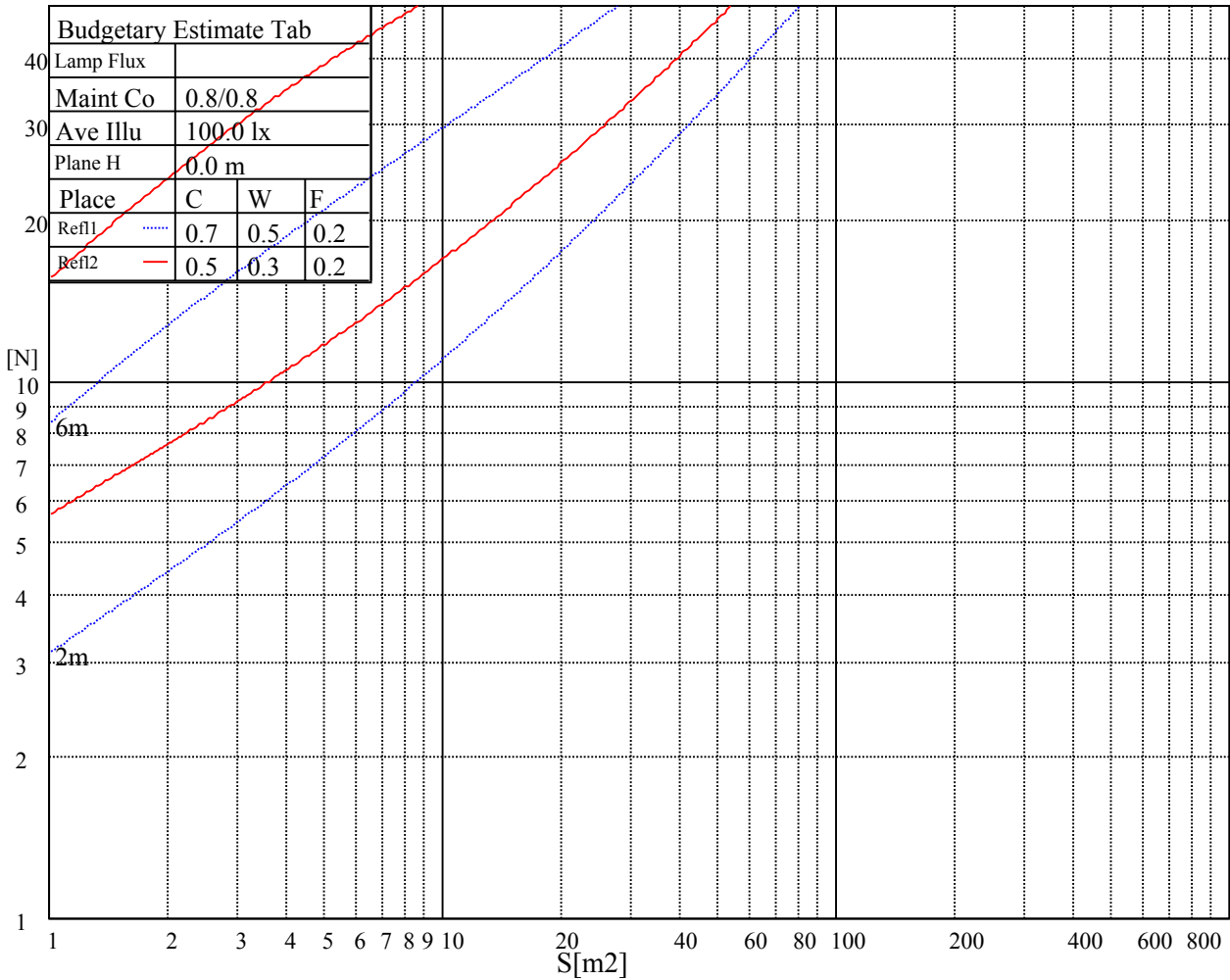
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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	1.09	1.09	1.09	1.01	1.01	1.01	0.88	0.88	0.88	0.75	0.75	0.75	0.63	0.63	0.63	0.58
1	0.88	0.82	0.77	0.82	0.76	0.72	0.69	0.65	0.62	0.58	0.55	0.52	0.48	0.46	0.43	0.38
2	0.74	0.65	0.58	0.68	0.60	0.54	0.57	0.52	0.46	0.48	0.43	0.39	0.39	0.35	0.32	0.27
3	0.63	0.53	0.46	0.58	0.49	0.43	0.49	0.42	0.36	0.40	0.35	0.30	0.32	0.28	0.25	0.21
4	0.54	0.45	0.37	0.50	0.41	0.35	0.42	0.35	0.29	0.35	0.29	0.25	0.28	0.23	0.20	0.16
5	0.48	0.38	0.31	0.44	0.35	0.29	0.37	0.30	0.24	0.31	0.25	0.20	0.24	0.20	0.16	0.13
6	0.42	0.33	0.26	0.39	0.30	0.24	0.33	0.26	0.21	0.27	0.21	0.17	0.22	0.17	0.14	0.11
7	0.38	0.29	0.22	0.35	0.27	0.21	0.29	0.23	0.18	0.24	0.19	0.15	0.20	0.15	0.12	0.09
8	0.34	0.25	0.19	0.31	0.23	0.18	0.27	0.20	0.15	0.22	0.17	0.13	0.18	0.13	0.10	0.08
9	0.31	0.22	0.17	0.29	0.21	0.16	0.24	0.18	0.13	0.20	0.15	0.11	0.16	0.12	0.09	0.07
10	0.28	0.20	0.15	0.26	0.19	0.14	0.22	0.16	0.12	0.19	0.13	0.10	0.15	0.11	0.08	0.06

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	12.89	10.74	12.58	14.43	16.88	18.11	21.49	24.86	25.78
90.0	11.97	16.88	11.66	12.28	20.26	15.04	20.26	23.94	28.85
180.0	12.89	12.89	10.13	13.81	18.42	18.42	18.11	23.33	23.33
270.0	11.97	15.04	14.73	16.58	10.74	18.11	20.26	23.02	25.48
360.0	12.89	10.74	12.58	14.43	16.88	18.11	21.49	24.86	25.78
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	27.01	29.16	27.01	29.47	31.31	39.90	34.07	34.99	37.14
90.0	24.86	23.64	31.00	29.47	32.54	27.32	35.61	30.08	35.30
180.0	25.17	28.24	29.77	32.84	32.54	27.93	35.61	38.37	33.46
270.0	30.39	24.56	33.76	28.24	32.84	36.22	32.54	36.53	34.99
360.0	27.01	29.16	27.01	29.47	31.31	39.90	34.07	34.99	37.14
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	38.98	31.92	30.39	27.63	31.00	29.16	26.40	20.87	17.50
90.0	35.61	31.92	33.76	29.16	29.47	22.10	19.34	19.95	22.10
180.0	33.15	32.23	32.84	32.23	27.93	29.77	23.94	19.34	18.72
270.0	33.46	29.77	30.39	31.00	28.85	27.93	24.56	23.94	21.79
360.0	38.98	31.92	30.39	27.63	31.00	29.16	26.40	20.87	17.50
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	17.80	8.59	7.98	3.99	1.84	2.76	0.92	4.30	0.00
90.0	18.11	8.59	3.68	6.45	3.07	6.75	0.00	1.23	2.46
180.0	18.11	12.28	12.89	5.53	3.07	0.00	5.83	2.76	4.30
270.0	16.58	15.65	9.82	3.68	0.00	3.07	0.61	2.76	2.76
360.0	17.80	8.59	7.98	3.99	1.84	2.76	0.92	4.30	0.00
C/γ(°)	180.0								
0.0	3.68								
90.0	4.60								
180.0	3.68								
270.0	4.60								
360.0	3.68								