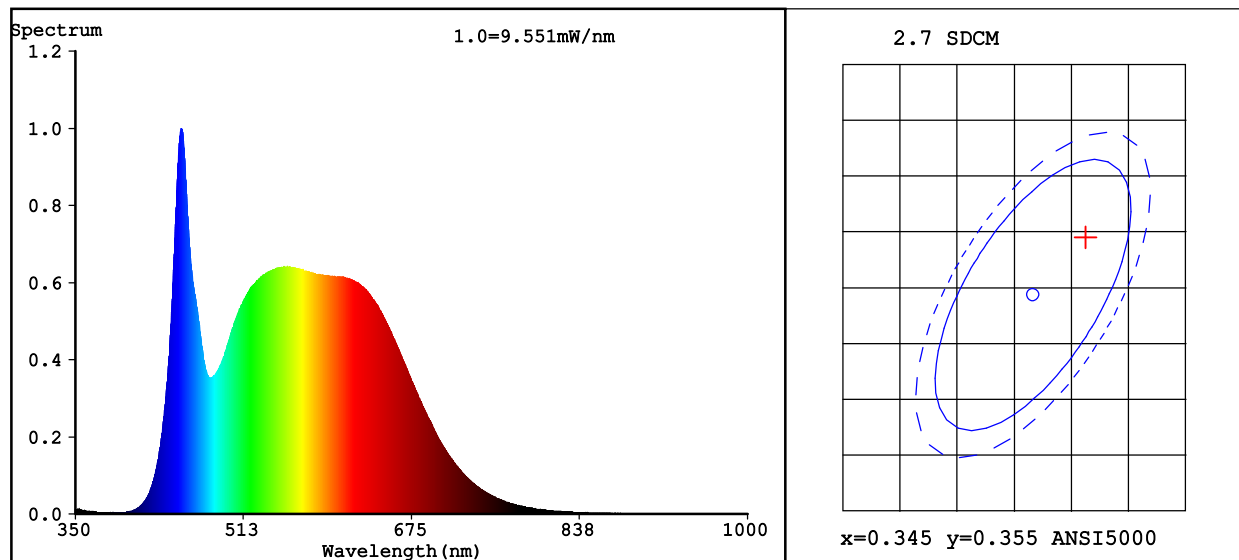


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3493$ $y=0.3605$ $u'=0.2108$ $v'=0.4896$

CCT=4877K (Duv=0.0027) Dominant WL:Ld =571.8nm Purity=13.0%

Ratio:R=17.2% G=77.8% B=5.0% Peak WL:Lp=452.5nm FWHM=26.7nm

Render Index:Ra=92.0

R1 =92	R2 =94	R3 =95	R4 =91	R5 =90	R6 =90	R7 =96
R8 =88	R9 =66	R10=85	R11=90	R12=66	R13=93	R14=97
						R15=90

Photo Parameters:

Flux = 391.4 lm Eff. : 107.00 lm/W Fe = 1.445 W

Electrical parameters:

V = 119.94 V I = 0.03957 A P = 3.658 W PF = 0.7723

Status: Integral T = 2000 ms Ip = 45268 (69%)

Model:G16.5-3-E26-950-F-F
 Tester:SY
 Temperature:24.8Deg
 Manufacturer:RAB Lighting Inc.

Number:1
 Date:2018-09-30
 Humidity:65.0%
 Remarks:

RAB Lighting Inc.

Client:

LumCAT: G16.5-3-E26-950-F-F

Luminaire:

Report No:

Voltage(V): 120.0100

Test No: 255185-01-001

Current(A): 0.0390

LampCAT:

Power (W): 3.6380

Lamp flux(lm)

PF: 0.7725

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 357.10

Lumens(lm)/Power(W): 98.16

Central intensity(cd): 28.546

Maximum intensity(cd): 39.597

Angle of maximum intensity: C=270.0 γ =95.0

Beam Angle(50%Imax): [C0/180]Total=282.5

[C90/270]Total=285.6

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

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.54 C90_270=1.50

Maximum s/h(1/4): C0_180=1.82 C90_270=1.66

Up flux rate of LUM(%): 43.45%

Down flux rate of LUM(%): 53.96%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 27.225%

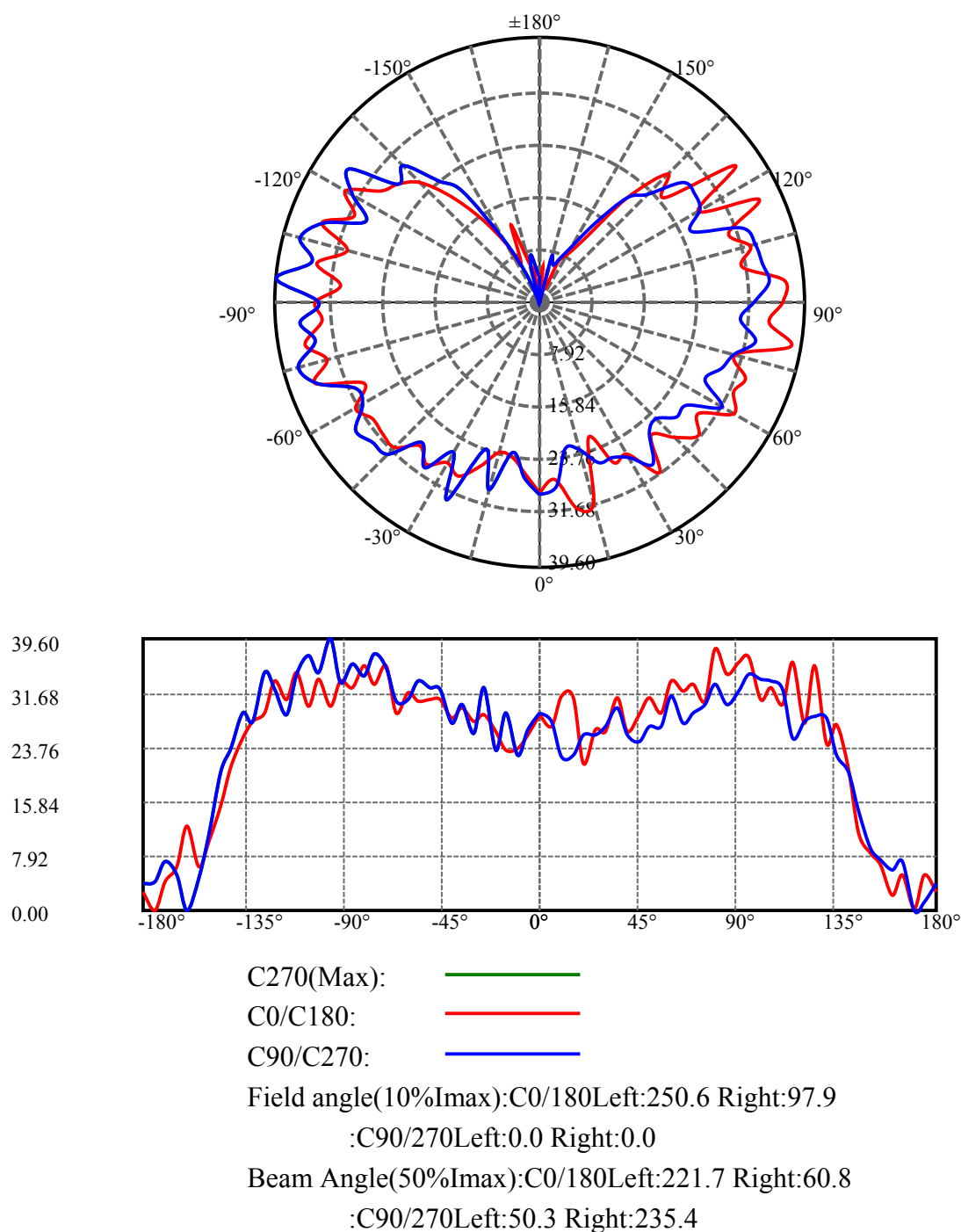
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	28.700	0.172	0.172	.048%	.048%
5.0	26.551	1.268	1.44	.355%	.403%
10.0	25.016	2.381	3.821	.667%	1.070%
15.0	26.474	3.756	7.577	1.052%	2.122%
20.0	24.096	4.517	12.094	1.265%	3.387%
25.0	28.239	6.542	18.636	1.832%	5.219%
30.0	26.551	7.277	25.913	2.038%	7.257%
35.0	30.004	9.433	35.346	2.642%	9.898%
40.0	26.705	9.409	44.755	2.635%	12.533%
45.0	29.007	11.243	55.998	3.148%	15.681%
50.0	30.235	12.695	68.694	3.555%	19.237%
55.0	29.851	13.403	82.097	3.753%	22.990%
60.0	31.769	15.081	97.178	4.223%	27.213%
65.0	29.621	14.715	111.893	4.121%	31.334%
70.0	33.151	17.075	128.968	4.782%	36.116%
75.0	32.690	17.308	146.276	4.847%	40.963%
80.0	35.146	18.972	165.248	5.313%	46.275%
85.0	33.227	18.144	183.392	5.081%	51.356%
90.0	33.688	18.466	201.858	5.171%	56.527%
95.0	35.146	19.191	221.049	5.374%	61.902%
100.0	33.227	17.936	238.986	5.023%	66.925%
105.0	33.227	17.593	256.578	4.927%	71.851%
110.0	32.844	16.917	273.495	4.737%	76.589%
115.0	30.158	14.982	288.477	4.195%	80.784%
120.0	30.158	14.316	302.793	4.009%	84.793%
125.0	31.846	14.299	317.092	4.004%	88.797%
130.0	26.858	11.278	328.37	3.158%	91.955%
135.0	25.937	10.053	338.423	2.815%	94.771%
140.0	21.333	7.516	345.94	2.105%	96.875%
145.0	15.348	4.825	350.765	1.351%	98.227%
150.0	9.669	2.650	353.415	.742%	98.969%
155.0	6.292	1.458	354.872	.408%	99.377%
160.0	5.065	0.949	355.822	.266%	99.643%
165.0	5.986	0.849	356.671	.238%	99.881%
170.0	2.916	0.278	356.949	.078%	99.958%
175.0	2.686	0.128	357.077	.036%	99.994%
180.0	3.376	0.020	357.097	.006%	100.000%

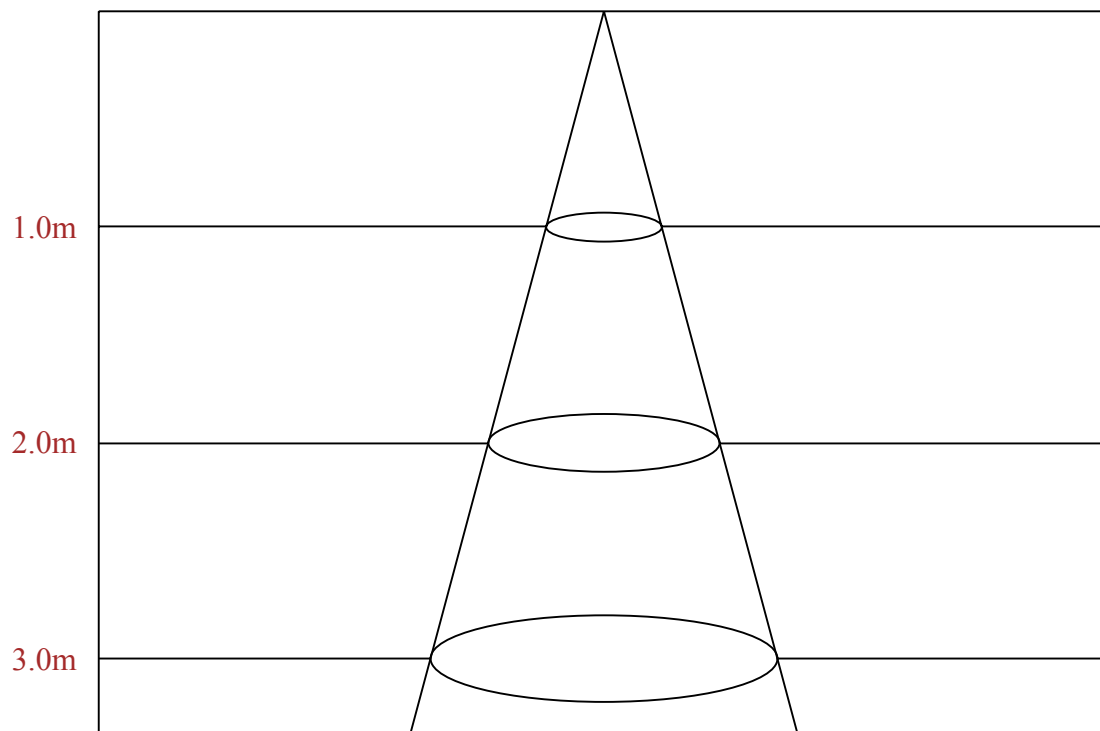
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	25.91	7.26%
0-40	44.76	12.53%
0-60	97.18	27.21%
0-90	201.86	56.53%
0-120	302.79	84.79%
0-180	357.10	100.00%
60-90	119.76	33.54%
90-120	119.40	33.44%
90-130	144.98	40.60%
90-150	170.02	47.61%
90-180	173.68	48.64%
0-114.07	285.68	80.00%

ZONAL LUMEN SUMMARY

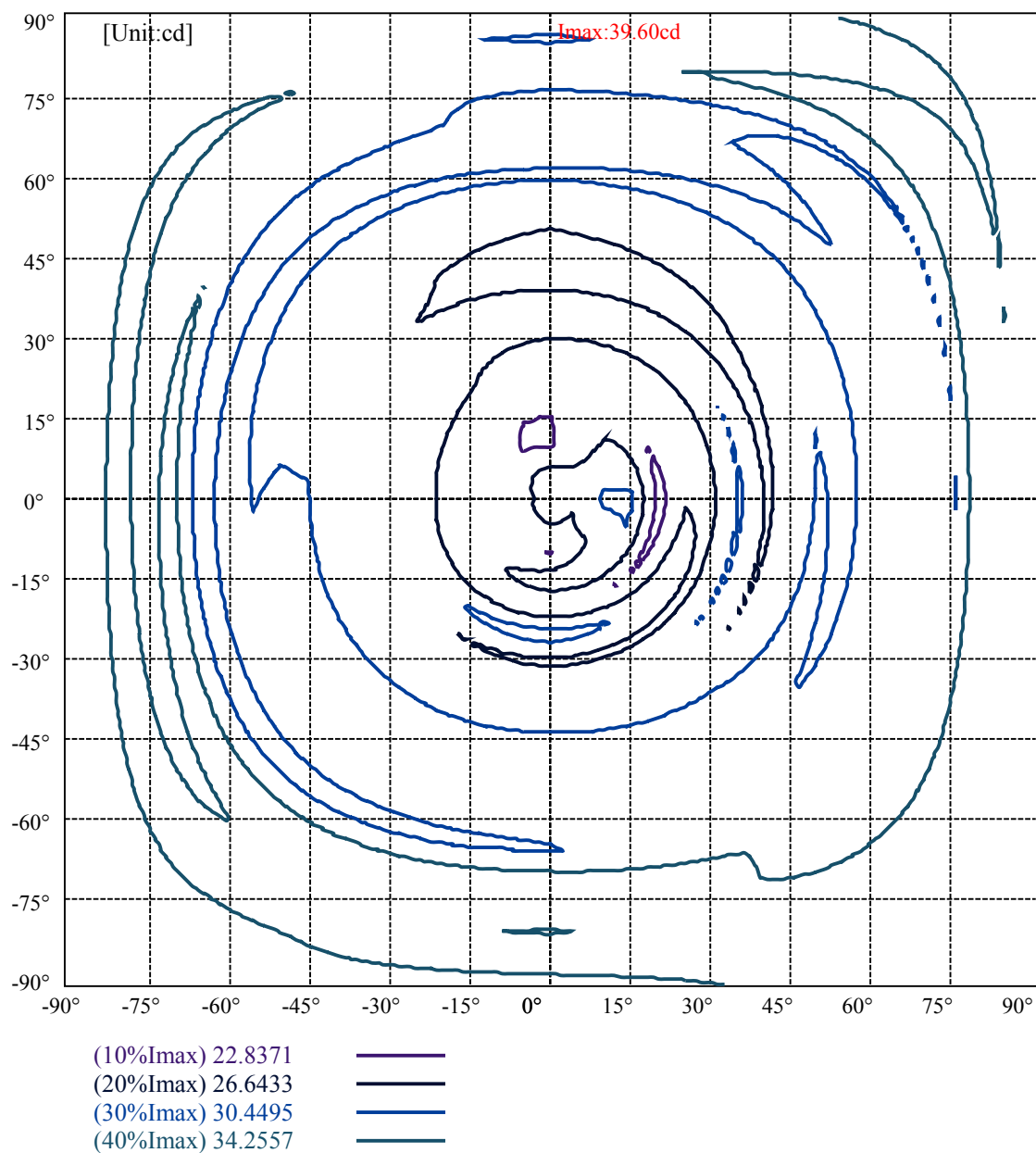
0-10	3.82
10-20	8.27
20-30	13.82
30-40	18.84
40-50	23.94
50-60	28.48
60-70	31.79
70-80	36.28
80-90	36.61
90-100	37.13
100-110	34.51
110-120	29.30
120-130	25.58
130-140	17.57
140-150	7.48
150-160	2.41
160-170	1.13
170-180	0.13

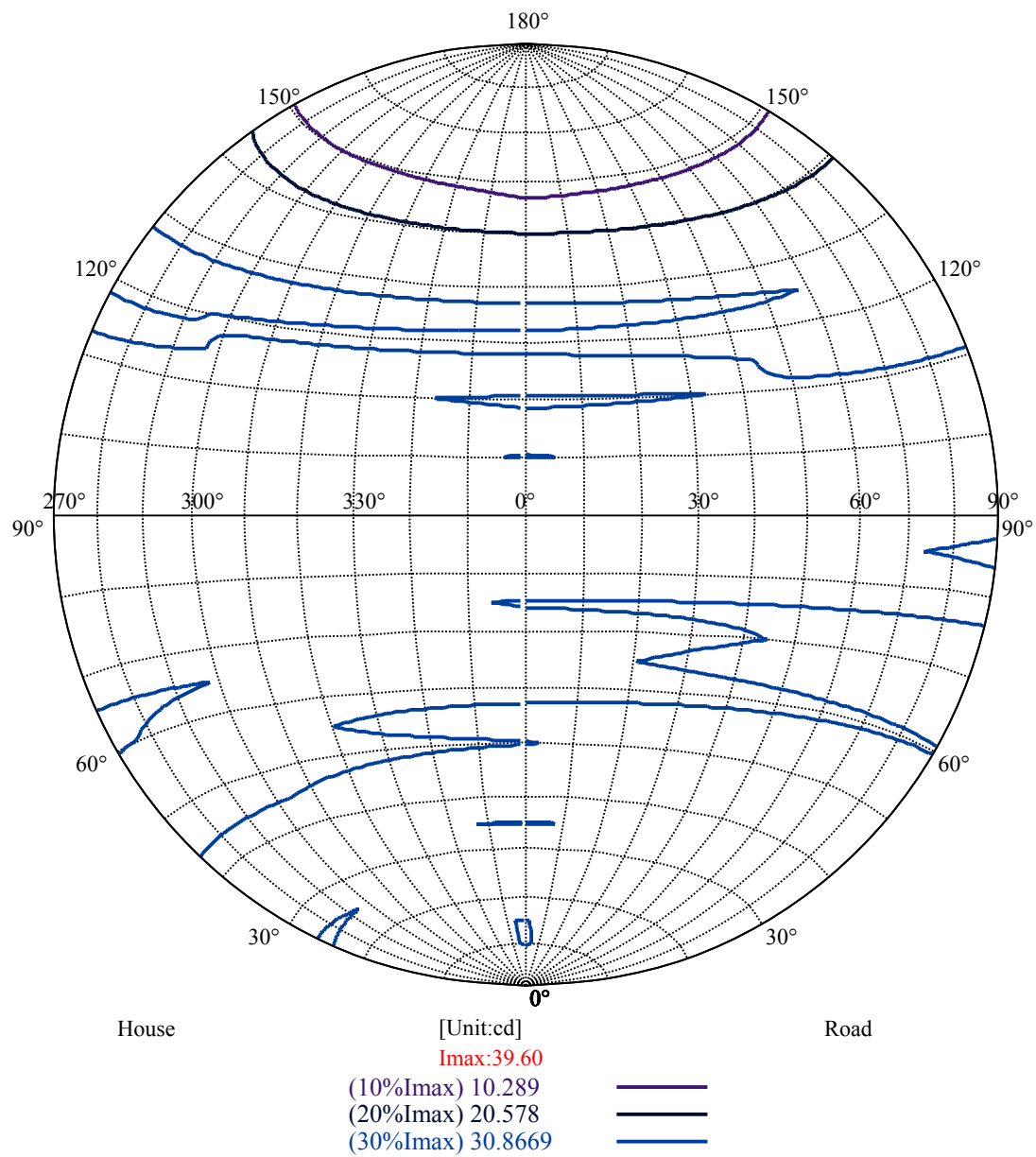


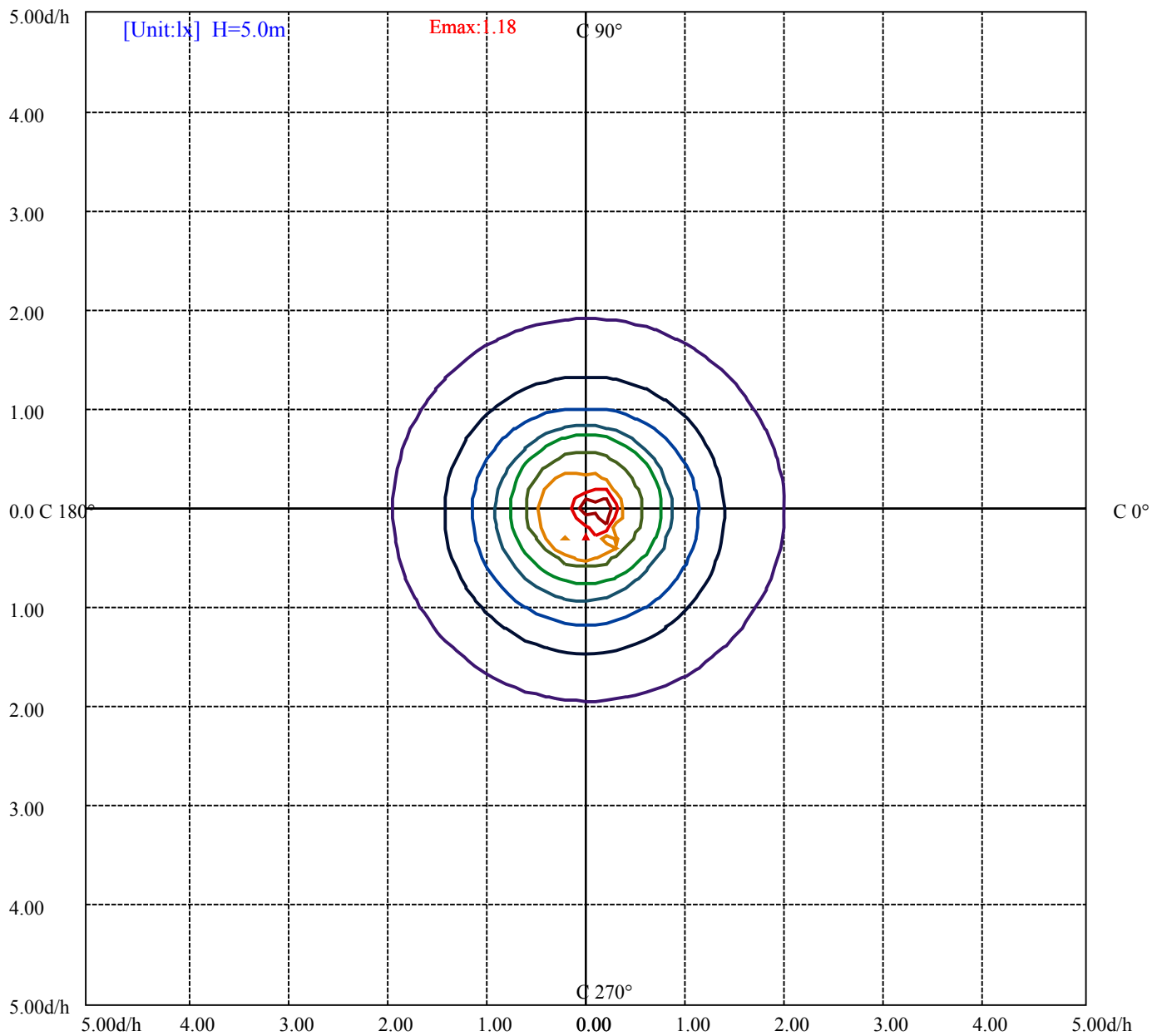


Max , Ave

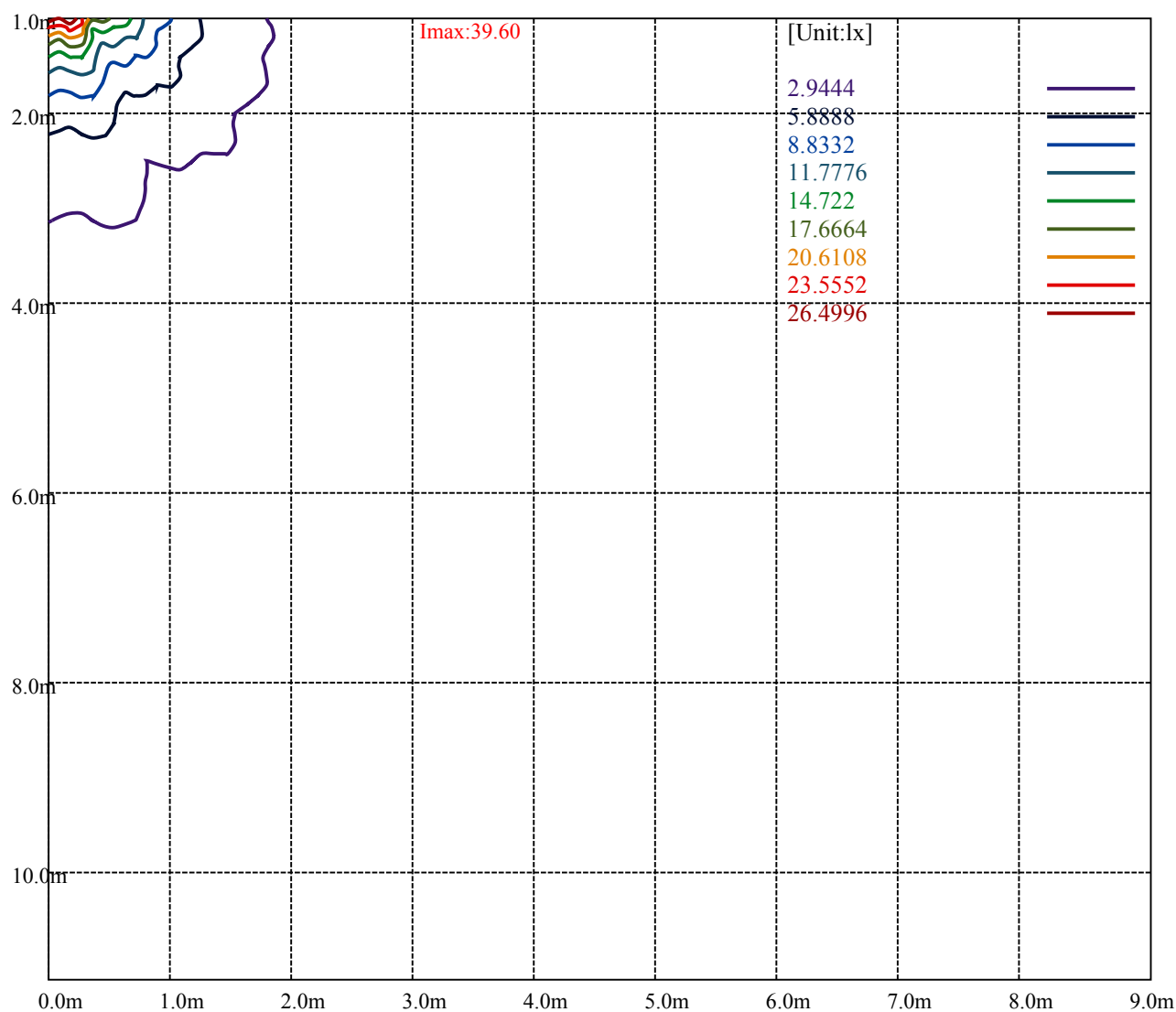
Beam angle of C270 plane 294.09







(10%E _{max}) 0.1177756	—
(20%E _{max}) 0.2355512	—
(30%E _{max}) 0.3533272	—
(40%E _{max}) 0.471104	—
(50%E _{max}) 0.58888	—
(60%E _{max}) 0.706656	—
(70%E _{max}) 0.824428	—
(80%E _{max}) 0.942204	—
(90%E _{max}) 1.05998	—



Luminance Table

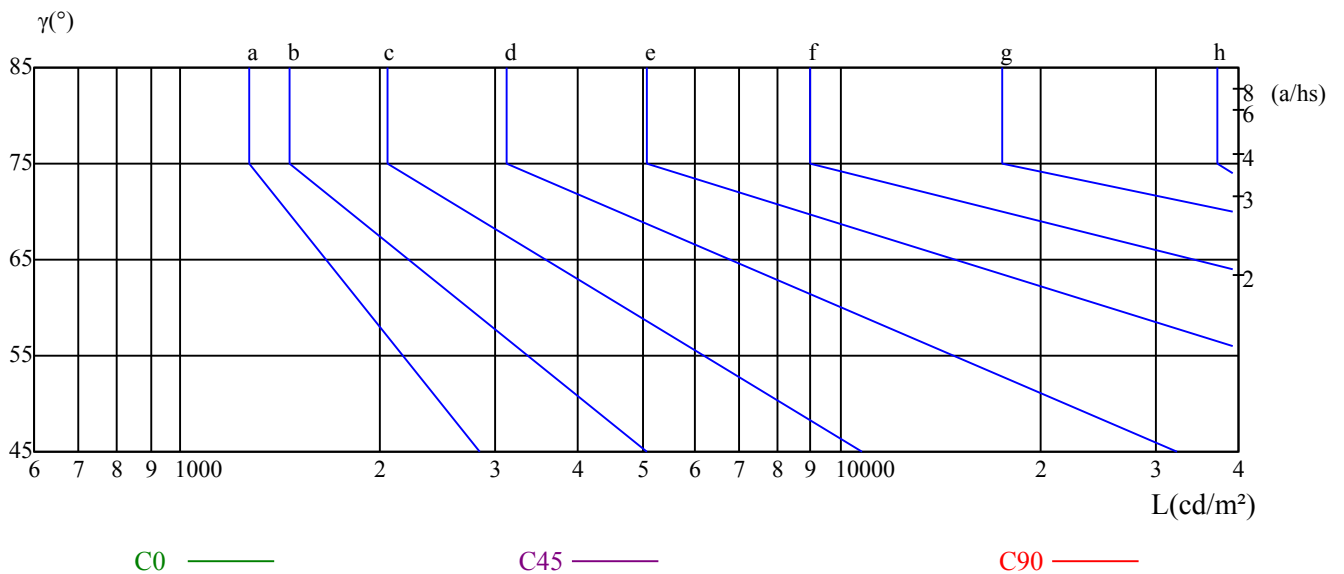
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

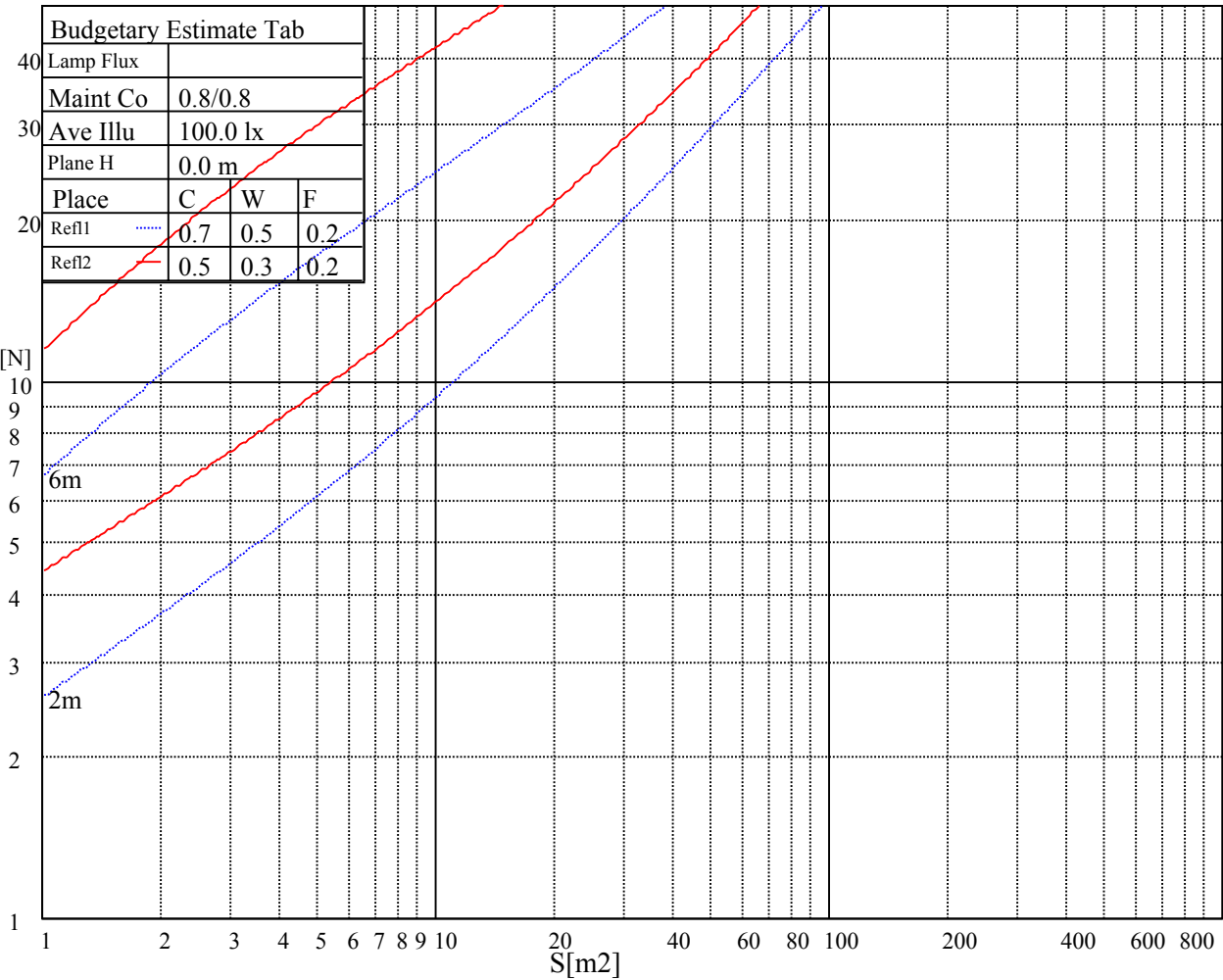
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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





RHOC	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	0.72	0.72	0.72	0.60	0.60	0.60	0.54
1	0.89	0.83	0.78	0.82	0.77	0.73	0.69	0.65	0.62	0.57	0.55	0.52	0.47	0.44	0.42	0.37
2	0.75	0.67	0.60	0.69	0.62	0.56	0.58	0.52	0.48	0.48	0.43	0.40	0.38	0.35	0.32	0.27
3	0.64	0.55	0.48	0.59	0.51	0.45	0.50	0.43	0.38	0.41	0.36	0.32	0.32	0.29	0.26	0.21
4	0.56	0.47	0.39	0.52	0.43	0.37	0.43	0.37	0.31	0.35	0.30	0.26	0.28	0.24	0.21	0.17
5	0.49	0.40	0.33	0.45	0.37	0.31	0.38	0.31	0.26	0.31	0.26	0.22	0.25	0.21	0.17	0.14
6	0.44	0.35	0.28	0.40	0.32	0.26	0.34	0.27	0.22	0.28	0.23	0.19	0.22	0.18	0.15	0.12
7	0.39	0.31	0.24	0.36	0.28	0.23	0.31	0.24	0.19	0.25	0.20	0.16	0.20	0.16	0.13	0.10
8	0.36	0.27	0.21	0.33	0.25	0.20	0.28	0.21	0.17	0.23	0.18	0.14	0.19	0.14	0.11	0.09
9	0.32	0.24	0.19	0.30	0.23	0.17	0.25	0.19	0.15	0.21	0.16	0.13	0.17	0.13	0.10	0.08
10	0.30	0.22	0.17	0.27	0.20	0.15	0.23	0.17	0.13	0.19	0.15	0.11	0.16	0.12	0.09	0.07

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	28.55	26.70	31.31	31.00	21.49	26.40	26.09	31.00	26.09
90.0	28.85	27.63	22.41	22.71	25.48	25.48	26.70	29.47	25.48
180.0	28.55	25.48	23.64	23.33	26.09	28.55	27.63	29.47	27.93
270.0	28.85	26.40	22.71	28.85	23.33	32.54	25.78	30.08	27.32
360.0	28.55	26.70	31.31	31.00	21.49	26.40	26.09	31.00	26.09
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	28.55	31.00	28.85	33.46	31.92	32.84	30.39	38.06	34.38
90.0	24.56	26.70	26.70	31.31	27.32	28.85	30.08	32.84	30.08
180.0	30.70	30.70	30.39	31.62	28.85	35.61	32.84	35.61	32.54
270.0	32.23	32.54	33.46	30.70	30.39	35.30	37.45	34.07	35.91
360.0	28.55	31.00	28.85	33.46	31.92	32.84	30.39	38.06	34.38
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	36.22	36.83	30.70	32.54	30.08	36.22	27.32	35.61	24.25
90.0	31.92	34.38	33.76	33.46	32.23	25.17	27.63	28.24	27.93
180.0	33.46	29.77	33.76	29.77	34.69	30.70	33.46	28.85	27.63
270.0	33.15	39.60	34.69	37.14	34.38	28.55	32.23	34.69	27.63
360.0	36.22	36.83	30.70	32.54	30.08	36.22	27.32	35.61	24.25
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	27.01	20.57	11.36	8.29	6.75	2.15	5.22	0.31	5.22
90.0	22.71	20.26	14.43	9.21	7.37	5.83	7.06	0.00	1.23
180.0	25.17	20.87	15.35	10.13	6.45	12.28	6.45	4.30	0.00
270.0	28.85	23.64	20.26	11.05	4.60	0.00	5.22	7.06	4.30
360.0	27.01	20.57	11.36	8.29	6.75	2.15	5.22	0.31	5.22
C/γ(°)	180.0								
0.0	2.76								
90.0	3.99								
180.0	2.76								
270.0	3.99								
360.0	2.76								