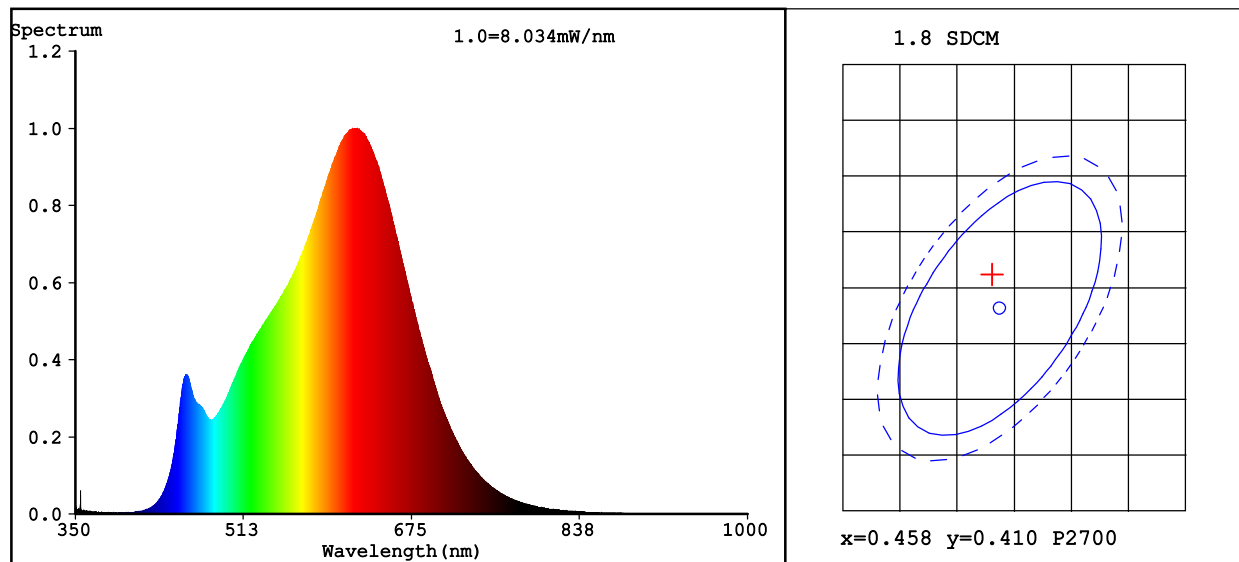


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4571$ $y=0.4131$ $u'=0.2596$ $v'=0.5279$

CCT=2758K(Duv=0.0012) Dominant WL:Ld =583.5nm Purity=61.2%

Ratio:R=26.0% G=71.3% B=2.8% Peak WL:Lp=620.8nm FWHM=146.4nm

Render Index:Ra=92.5

R1 =93	R2 =98	R3 =98	R4 =92	R5 =93	R6 =98	R7 =90
R8 =79	R9 =56	R10=94	R11=93	R12=84	R13=95	R14=100 R15=88

Photo Parameters:

Flux = 374.0 lm Eff. : 103.06 lm/W Fe = 1.306 W

Electrical parameters:

V = 120.03 V I = 0.03904 A P = 3.629 W PF = 0.7762

Status: Integral T = 1743 ms Ip = 49581 (76%)

Model:G25-3-E26-927-F-C
 Tester:XXL
 Temperature:24.8Deg
 Manufacturer:RAB Lighting Inc.

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

RAB Lighting Inc.

Client:

LumCAT: G25-3-E26-927-F-C

Luminaire:

Report No:

Voltage(V): 120.0000

Test No: 255186-01-001

Current(A): 0.0410

LampCAT:

Power (W): 3.7970

Lamp flux(lm)

PF: 0.7704

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 464.92

Lumens(lm)/Power(W): 122.44

Central intensity(cd): 9.822

Maximum intensity(cd): 58.628

Angle of maximum intensity: C=0.0 γ =100.0

Beam Angle(50%Imax): [C0/180]Total=279.7

[C90/270]Total=282.9

Field angle(10%Imax): [C0/180]Total=334.1

[C90/270]Total=335.2

Maximum s/h(1/2): C0_180=3.84 C90_270=3.85

Maximum s/h(1/4): C0_180=3.72 C90_270=3.60

Up flux rate of LUM(%): 45.11%

Down flux rate of LUM(%): 52.13%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 22.905%

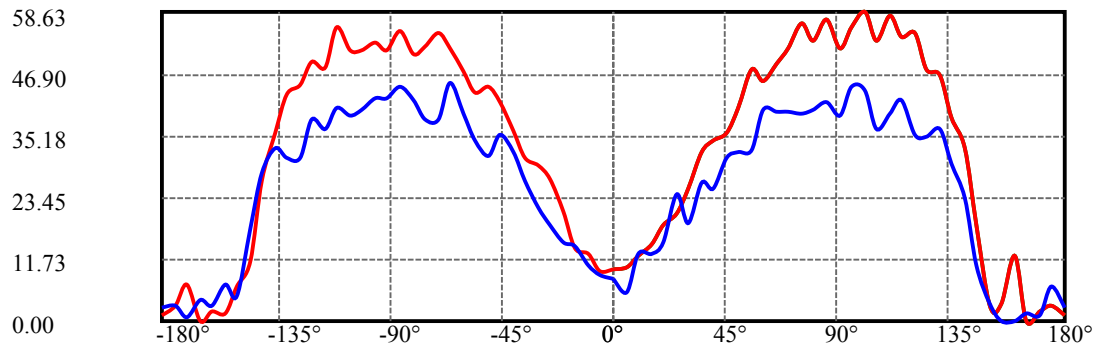
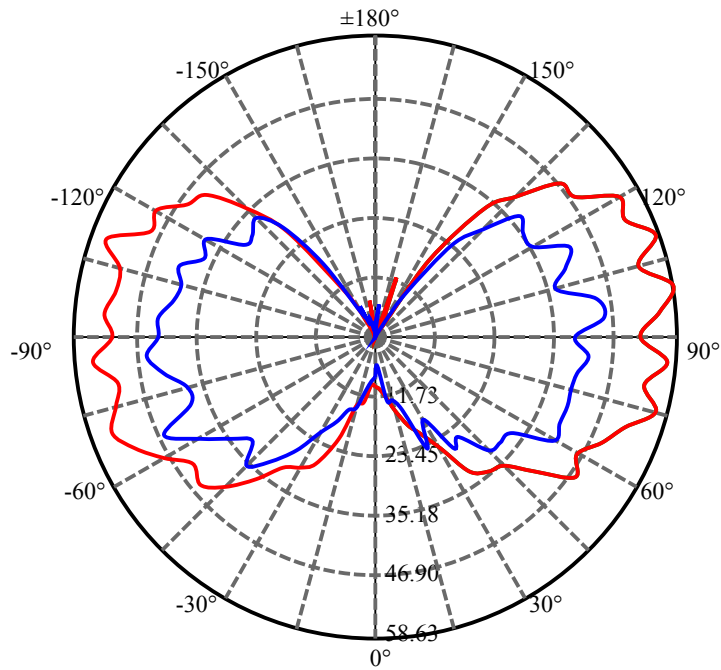
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8.902	0.053	0.053	.011%	.011%
5.0	8.441	0.403	0.456	.087%	.098%
10.0	12.048	1.147	1.603	.247%	.345%
15.0	13.813	1.960	3.563	.421%	.766%
20.0	17.266	3.237	6.8	.696%	1.463%
25.0	22.407	5.191	11.99	1.116%	2.579%
30.0	23.712	6.499	18.489	1.398%	3.977%
35.0	29.007	9.120	27.609	1.962%	5.938%
40.0	31.769	11.193	38.802	2.408%	8.346%
45.0	35.836	13.890	52.692	2.988%	11.334%
50.0	37.064	15.563	68.255	3.347%	14.681%
55.0	39.443	17.710	85.966	3.809%	18.490%
60.0	43.050	20.436	106.402	4.396%	22.886%
65.0	46.273	22.987	129.389	4.944%	27.830%
70.0	45.966	23.676	153.065	5.092%	32.923%
75.0	46.503	24.621	177.687	5.296%	38.219%
80.0	46.350	25.020	202.706	5.382%	43.600%
85.0	49.496	27.027	229.734	5.813%	49.413%
90.0	46.043	25.238	254.971	5.428%	54.842%
95.0	48.805	26.650	281.621	5.732%	60.574%
100.0	48.345	26.097	307.718	5.613%	66.187%
105.0	44.968	23.809	331.527	5.121%	71.308%
110.0	48.345	24.901	356.429	5.356%	76.664%
115.0	45.045	22.377	378.806	4.813%	81.477%
120.0	44.278	21.019	399.825	4.521%	85.998%
125.0	39.597	17.779	417.604	3.824%	89.823%
130.0	39.290	16.498	434.102	3.548%	93.371%
135.0	34.225	13.265	447.367	2.853%	96.224%
140.0	27.702	9.761	457.127	2.099%	98.324%
145.0	14.350	4.512	461.639	.970%	99.294%
150.0	4.297	1.178	462.817	.253%	99.547%
155.0	2.916	0.676	463.492	.145%	99.693%
160.0	4.221	0.791	464.284	.170%	99.863%
165.0	1.381	0.196	464.48	.042%	99.905%
170.0	2.609	0.248	464.728	.053%	99.958%
175.0	3.837	0.183	464.911	.039%	99.998%
180.0	1.688	0.010	464.921	.002%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	18.49	3.98%
0-40	38.80	8.35%
0-60	106.40	22.89%
0-90	254.97	54.84%
0-120	399.82	86.00%
0-180	464.92	100.00%
60-90	169.01	36.35%
90-120	170.09	36.58%
90-130	204.37	43.96%
90-150	233.08	50.13%
90-180	235.18	50.58%
0-113.47	371.94	80.00%

ZONAL LUMEN SUMMARY

0-10	1.60
10-20	5.20
20-30	11.69
30-40	20.31
40-50	29.45
50-60	38.15
60-70	46.66
70-80	49.64
80-90	52.26
90-100	52.75
100-110	48.71
110-120	43.40
120-130	34.28
130-140	23.03
140-150	5.69
150-160	1.47
160-170	0.44
170-180	0.18



C0(Max):

C0/C180:

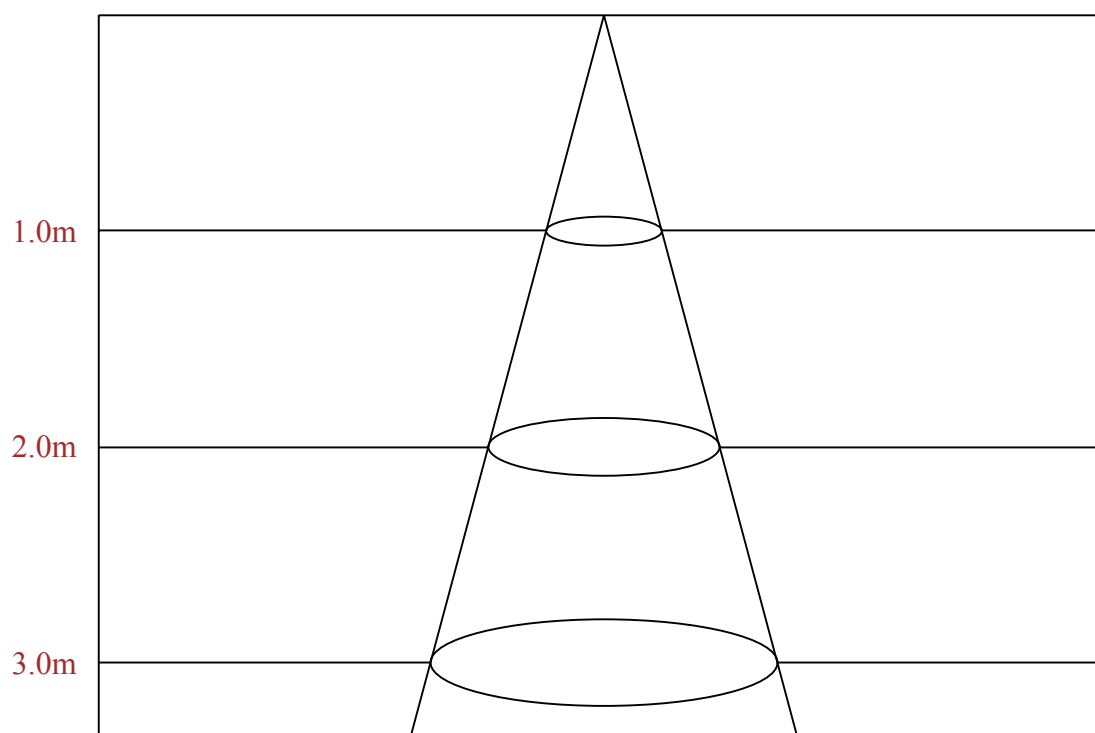
C90/C270:

Field angle(10%Imax):C0/180Left:271.5 Right:62.6

:C90/270Left:92.8 Right:242.4

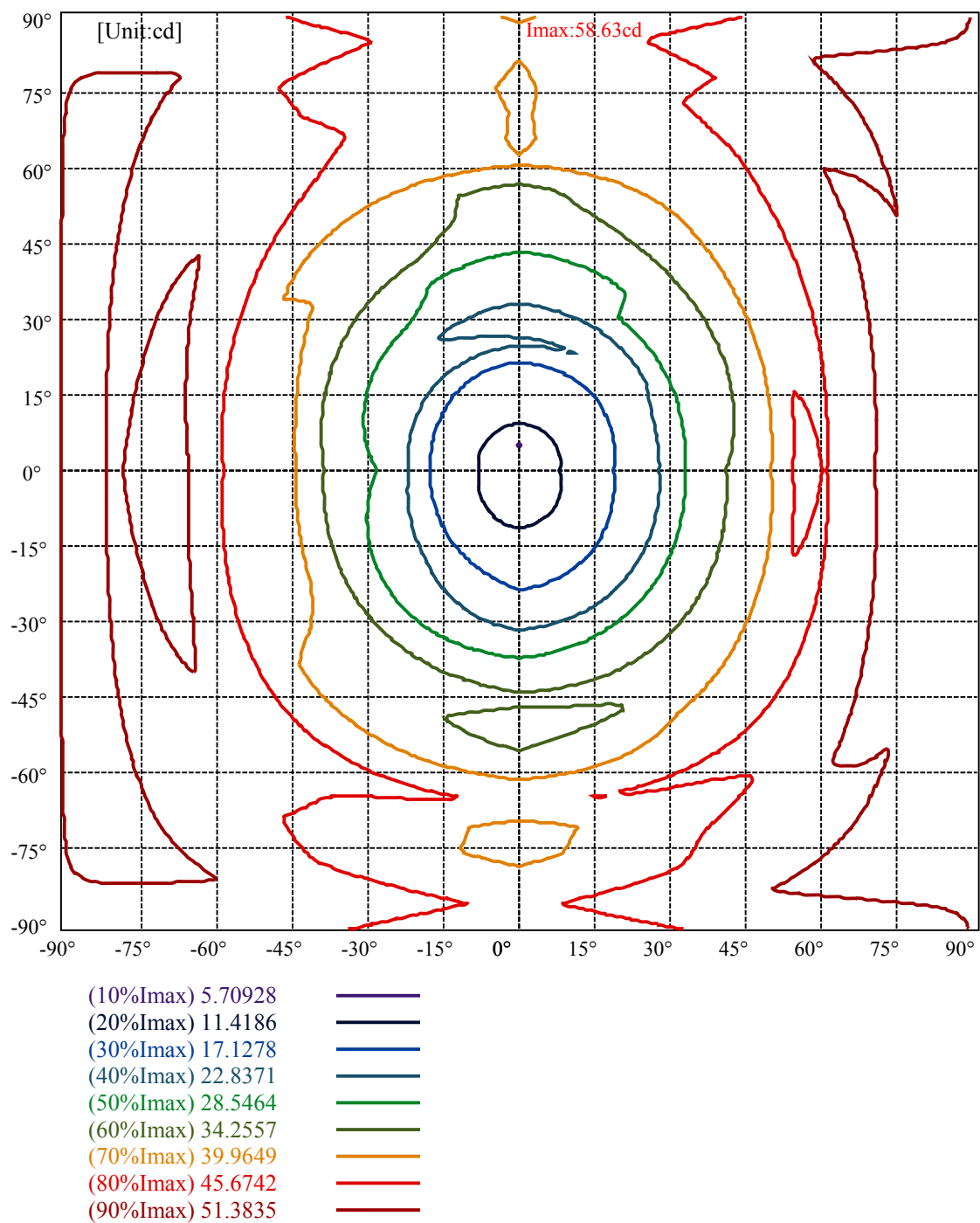
Beam Angle(50%Imax):C0/180Left:238.5 Right:41.2

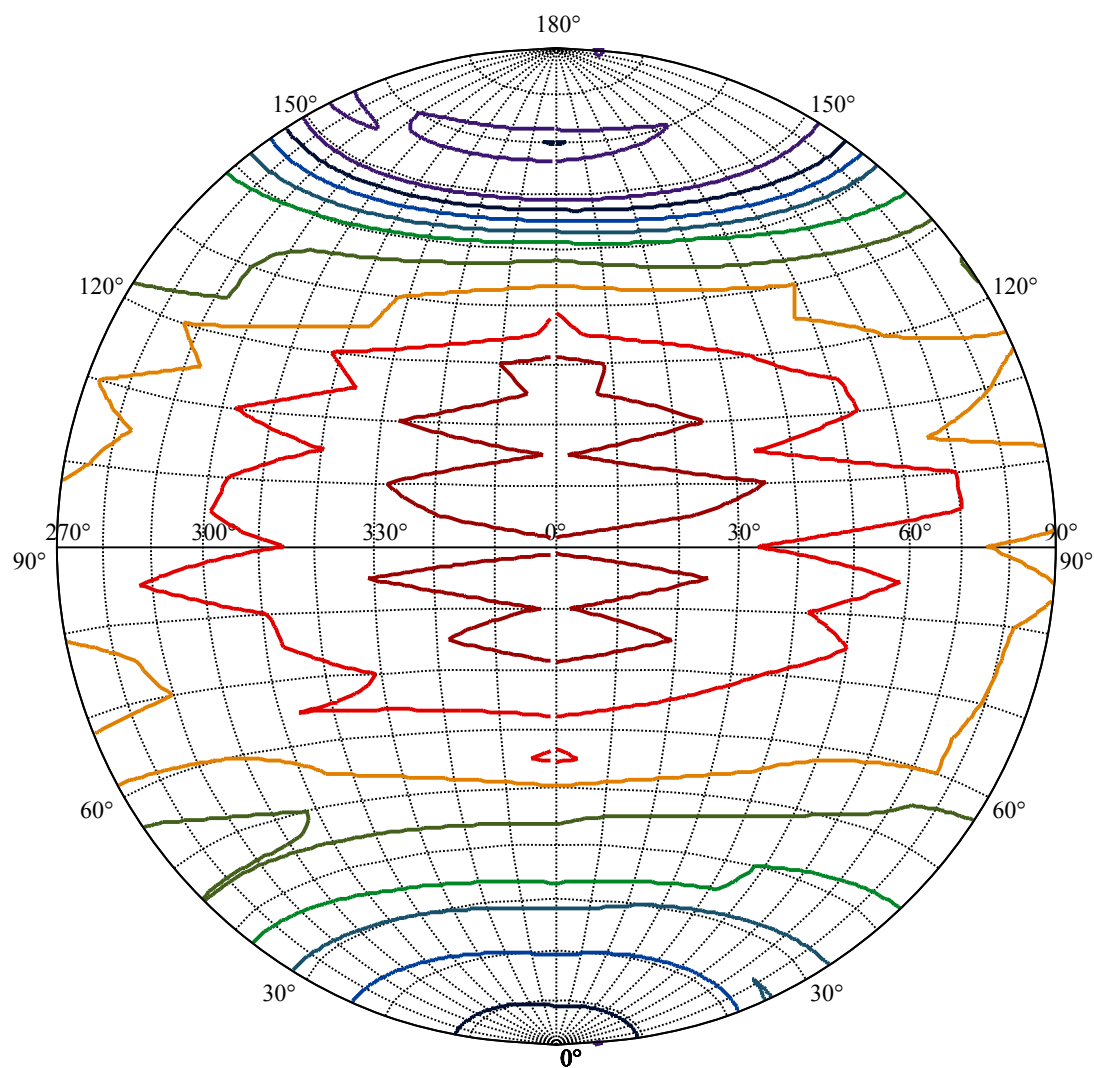
:C90/270Left:77.6 Right:205.3



Max , Ave

Beam angle of C0 plane 314.78





House

[Unit:cd]

Road

Imax:58.63

(10%Imax) 5.86275

(20%Imax) 11.7255

(30%Imax) 17.5883

(40%Imax) 23.451

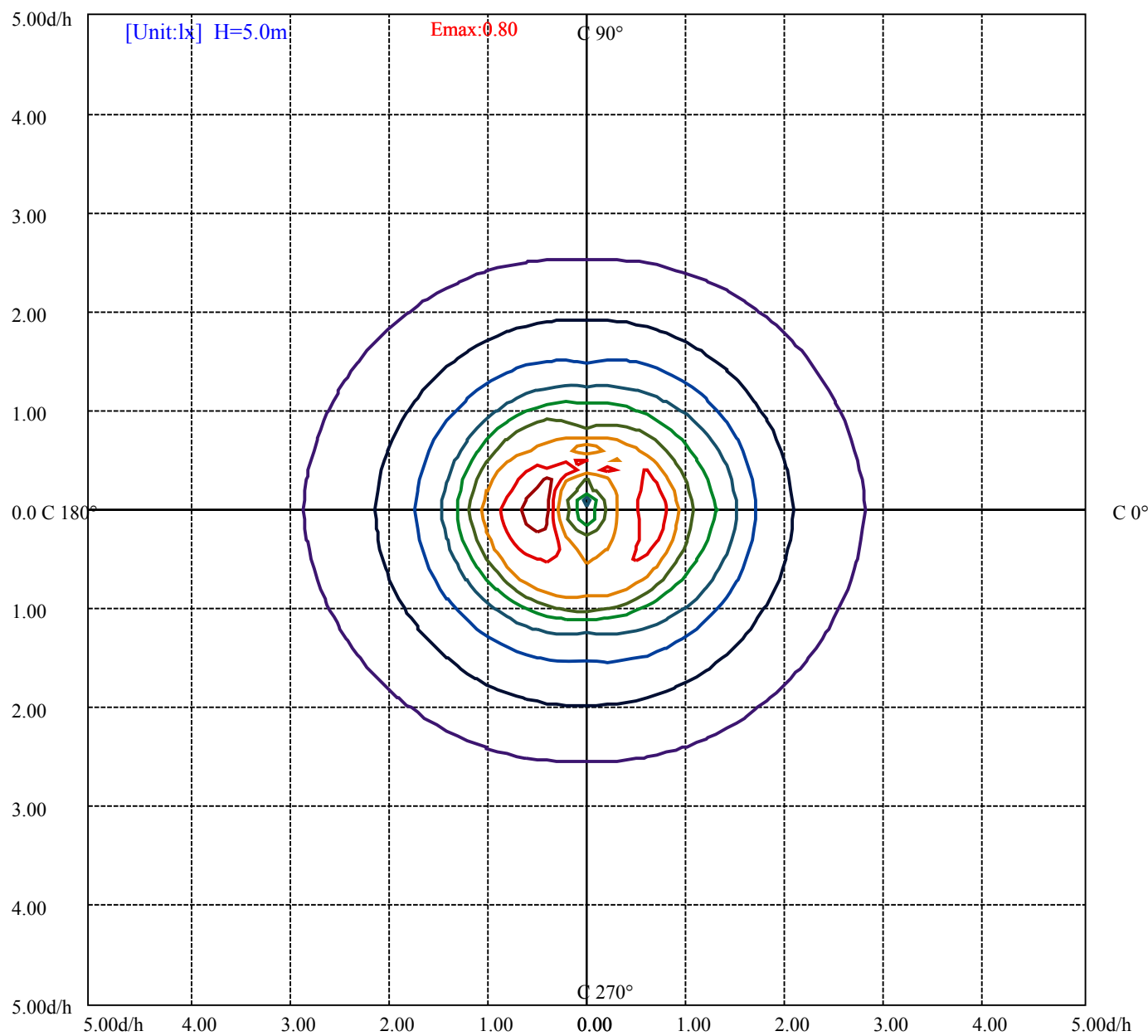
(50%Imax) 29.3138

(60%Imax) 35.1765

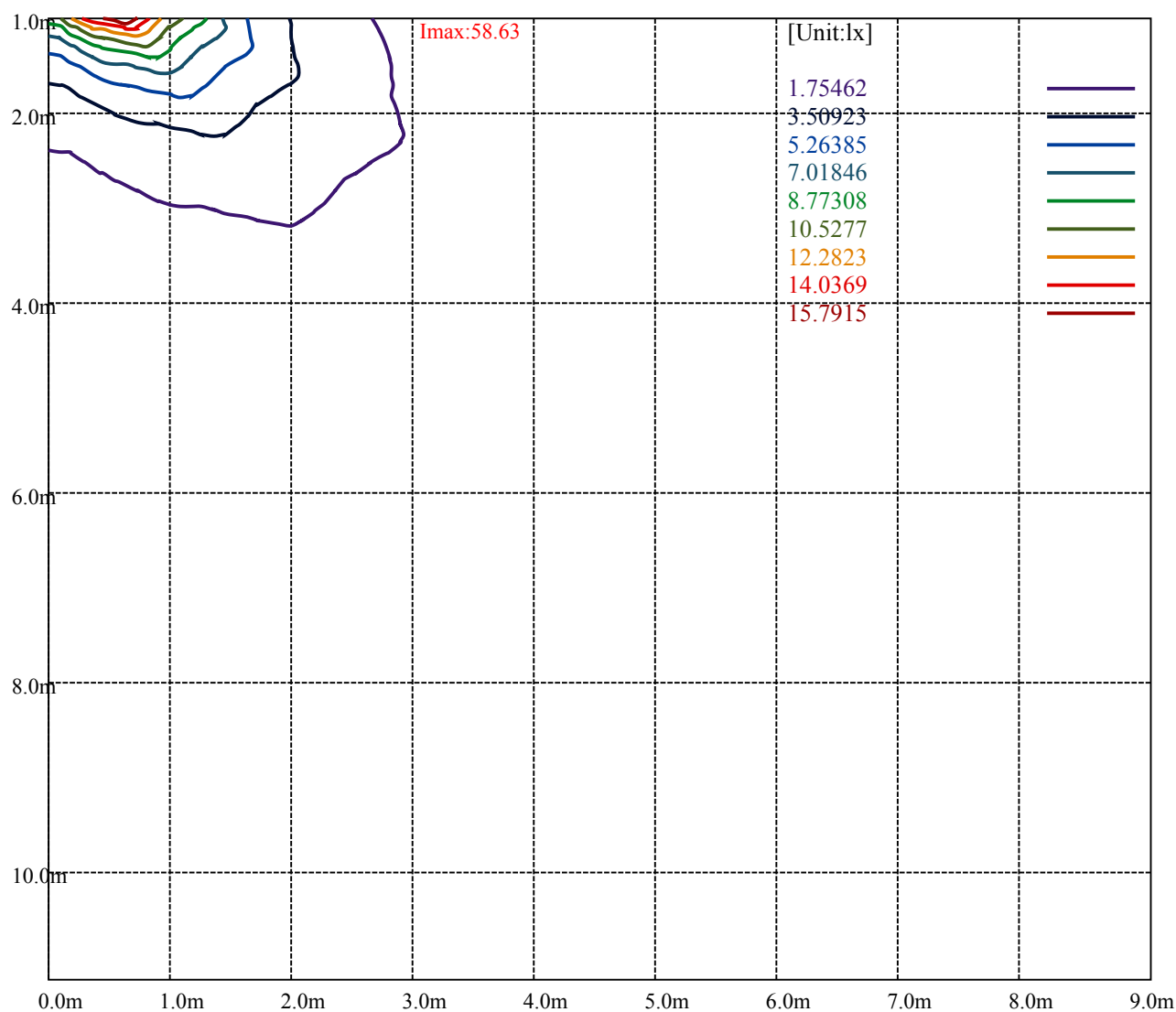
(70%Imax) 41.0393

(80%Imax) 46.902

(90%Imax) 52.7648



(10%Emax) 0.0795088	—
(20%Emax) 0.1590176	—
(30%Emax) 0.2385264	—
(40%Emax) 0.3180348	—
(50%Emax) 0.3975436	—
(60%Emax) 0.477052	—
(70%Emax) 0.55656	—
(80%Emax) 0.636068	—
(90%Emax) 0.71558	—



Luminance Table

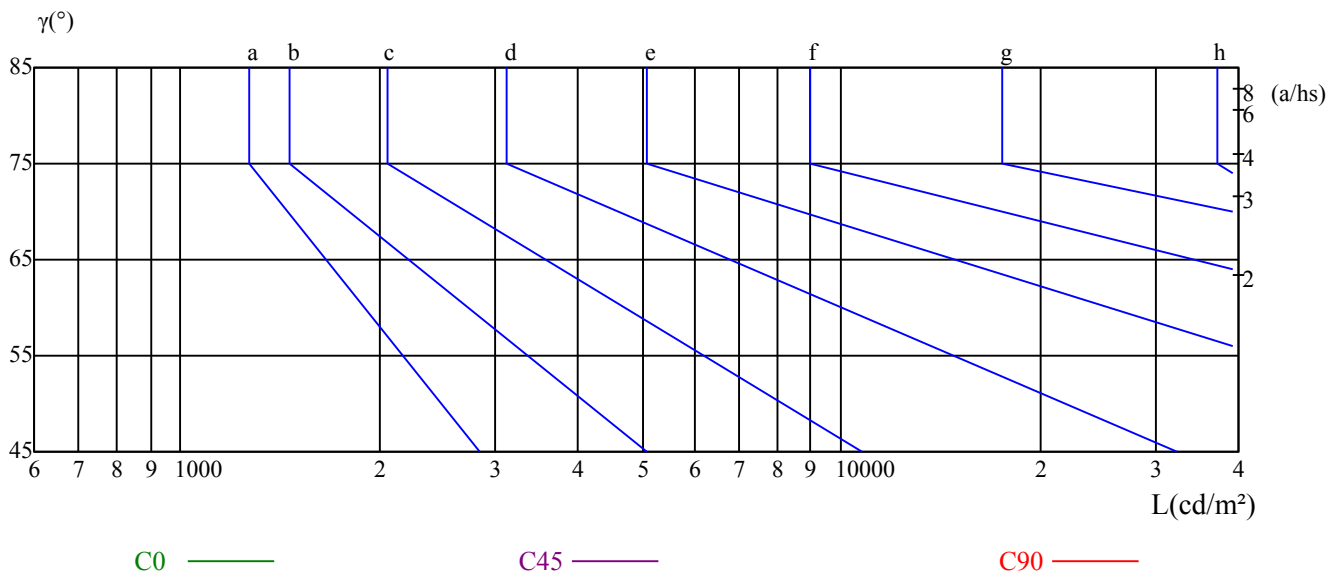
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

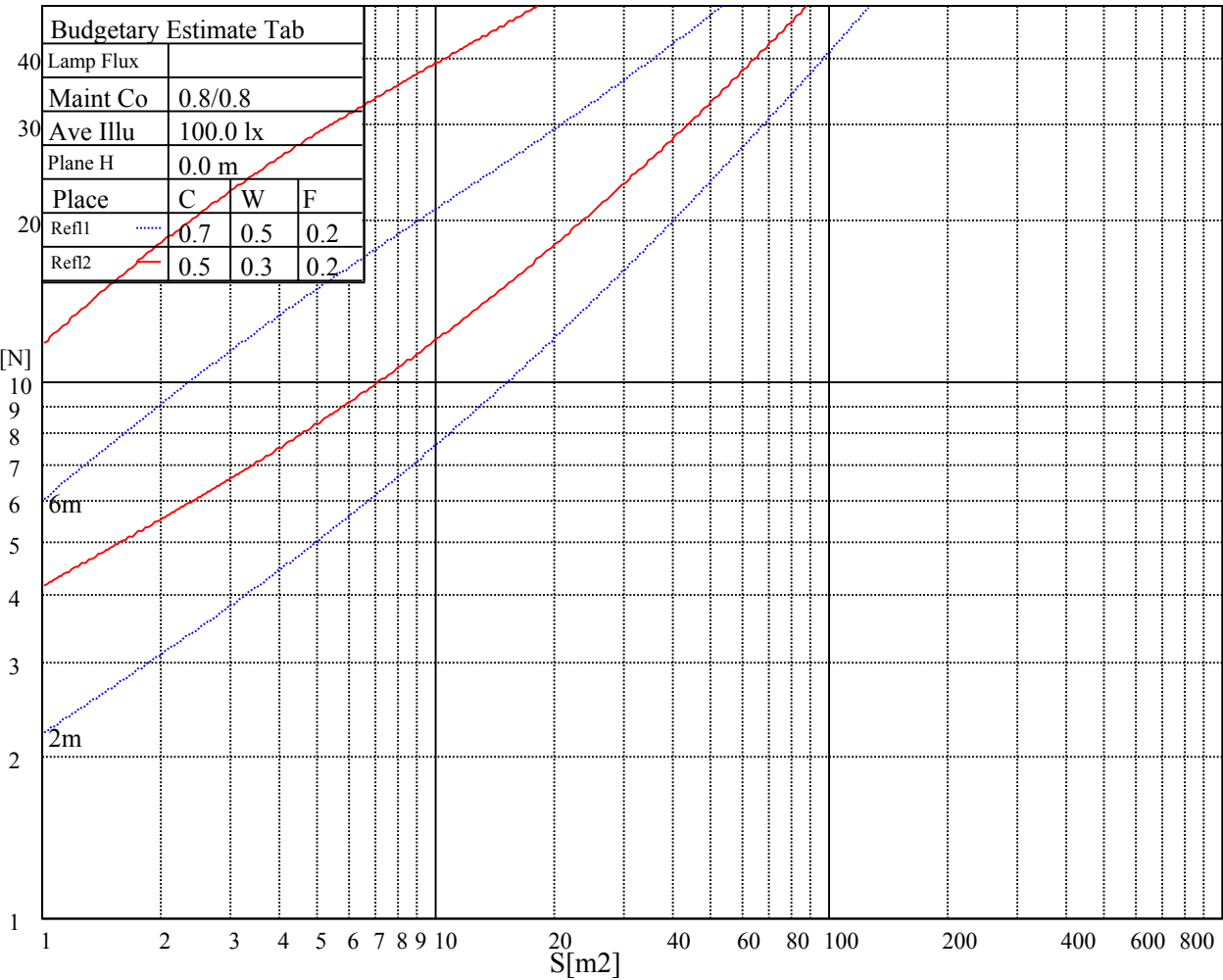
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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	0.85	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	0.63	0.60	0.55	0.52	0.50	0.44	0.42	0.40	0.34
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	0.35	0.32	0.29	0.24
3	0.62	0.53	0.46	0.57	0.49	0.42	0.47	0.41	0.35	0.38	0.33	0.29	0.30	0.26	0.22	0.18
4	0.54	0.44	0.37	0.49	0.41	0.34	0.41	0.34	0.29	0.33	0.27	0.23	0.25	0.21	0.18	0.14
5	0.47	0.38	0.31	0.43	0.35	0.28	0.36	0.29	0.24	0.29	0.23	0.19	0.22	0.18	0.15	0.11
6	0.42	0.32	0.26	0.38	0.30	0.24	0.32	0.25	0.20	0.25	0.20	0.16	0.20	0.15	0.12	0.09
7	0.37	0.28	0.22	0.34	0.26	0.20	0.28	0.22	0.17	0.23	0.17	0.14	0.18	0.13	0.10	0.07
8	0.34	0.25	0.19	0.31	0.23	0.17	0.26	0.19	0.15	0.21	0.15	0.12	0.16	0.12	0.09	0.06
9	0.30	0.22	0.16	0.28	0.20	0.15	0.23	0.17	0.13	0.19	0.14	0.10	0.15	0.11	0.08	0.05
10	0.28	0.20	0.14	0.25	0.18	0.13	0.21	0.15	0.11	0.17	0.12	0.09	0.13	0.10	0.07	0.05

RAB Lighting Inc. G25-3-E26-927-F-C

Intensity data(cd)									Appendix Page: 13 Total:13		
C/ γ (°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	9.82	10.13	12.28	14.73	18.11	20.57	25.17	31.92	34.07		
90.0	7.98	5.53	12.58	12.58	15.04	23.94	18.72	26.40	25.17		
180.0	9.82	9.52	12.89	13.81	20.87	27.01	29.47	31.00	35.91		
270.0	7.98	8.59	10.44	14.12	15.04	18.11	21.49	26.70	31.92		
360.0	9.82	10.13	12.28	14.73	18.11	20.57	25.17	31.92	34.07		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	35.61	40.52	47.58	45.43	48.81	51.57	56.48	53.10	57.09		
90.0	31.00	31.92	32.54	40.21	39.60	39.60	39.29	39.90	41.44		
180.0	41.44	44.51	43.28	47.27	51.57	54.64	52.18	50.65	54.94		
270.0	35.30	31.31	34.38	39.29	45.12	38.06	38.06	41.75	44.51		
360.0	35.61	40.52	47.58	45.43	48.81	51.57	56.48	53.10	57.09		
C/ γ (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0		
0.0	51.57	55.56	58.63	53.10	58.01	53.72	54.64	47.58	46.66		
90.0	38.98	44.51	43.59	36.53	39.29	41.75	35.30	34.99	36.53		
180.0	51.26	52.80	51.26	51.26	55.56	48.19	49.11	44.81	42.97		
270.0	42.36	42.36	39.90	38.98	40.52	36.53	38.06	31.00	31.00		
360.0	51.57	55.56	58.63	53.10	58.01	53.72	54.64	47.58	46.66		
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0		
0.0	38.68	32.84	18.11	2.76	3.38	12.28	0.00	1.84	3.07		
90.0	29.77	23.33	10.44	3.38	0.00	0.00	1.53	0.92	6.45		
180.0	35.61	26.70	11.36	6.45	1.53	1.84	0.00	7.06	3.07		
270.0	32.84	27.93	17.50	4.60	6.75	2.76	3.99	0.61	2.76		
360.0	38.68	32.84	18.11	2.76	3.38	12.28	0.00	1.84	3.07		
C/ γ (°)	180.0										
0.0	0.92										
90.0	2.46										
180.0	0.92										
270.0	2.46										
360.0	0.92										