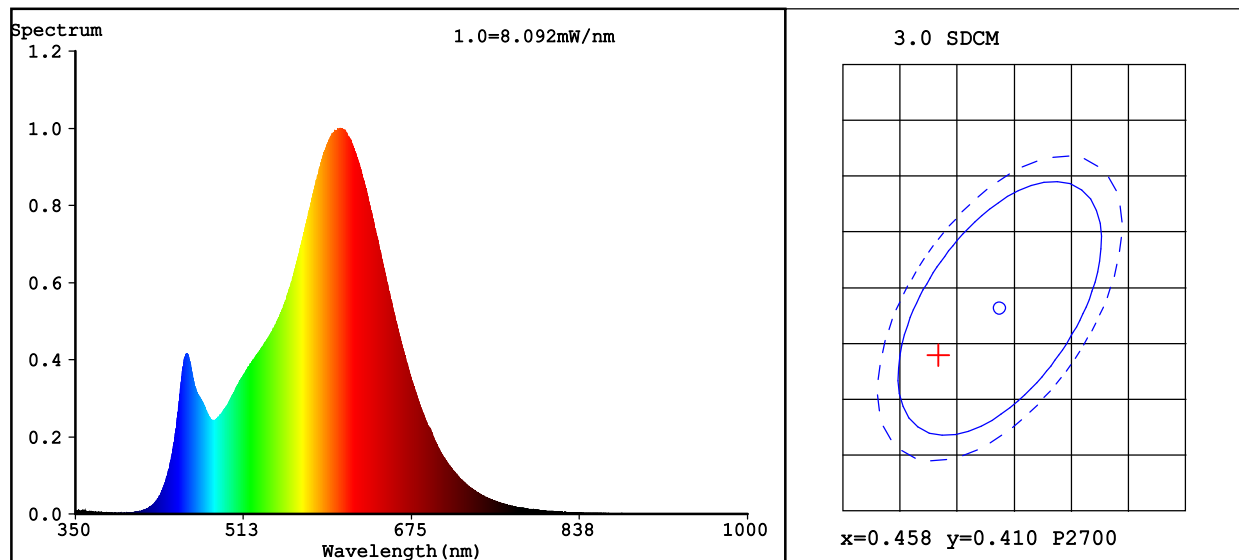


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4524$ $y=0.4059$ $u'=0.2598$ $v'=0.5244$

CCT=2770K (Duv=-0.0011) Dominant WL:Ld =584.2nm Purity=57.6%

Ratio: R=24.8% G=72.4% B=2.8% Peak WL:Lp=606.5nm FWHM=114.8nm

Render Index: Ra=83.0

R1 =83	R2 =95	R3 =91	R4 =80	R5 =84	R6 =95	R7 =80
R8 =57	R9 =11	R10=89	R11=79	R12=80	R13=86	R14=96
						R15=75

Photo Parameters:

Flux = 371.0 lm Eff. : 103.35 lm/W Fe = 1.170 W

Electrical parameters:

V = 120.02 V I = 0.03882 A P = 3.589 W PF = 0.7717

Status: Integral T = 1701 ms Ip = 48913 (75%)

Model: G16.5-3-E12-927-F-C
 Tester: XXL
 Temperature: 25.0Deg
 Manufacturer: RAB Lighting

Number: 1
 Date: 2018-09-14
 Humidity: 65.0%
 Remarks:

Client: RAB Lighting Inc.

LumCAT: G16.5-3-E12-927-F-C

Luminaire:

Report No:

Voltage(V): 120.1000

Test No: 253500-01-001

Current(A): 0.0390

LampCAT:

Power (W): 3.5820

Lamp flux(lm)

PF: 0.7657

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 466.29

Lumens(lm)/Power(W): 130.18

Central intensity(cd): 4.297

Maximum intensity(cd): 58.628

Angle of maximum intensity: C=90.0 γ =95.0

Beam Angle(50%Imax): [C0/180]Total=291.5

[C90/270]Total=292.3

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

[C90/270]Total=323.4

Maximum s/h(1/2): C0_180=134.44 C90_270=144.59

Maximum s/h(1/4): C0_180=4.46 C90_270=5.77

Up flux rate of LUM(%): 49.89%

Down flux rate of LUM(%): 50.11%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 19.387%

G50-1CD 3.8W 120V 2700K E12

Zonal flux distribution table

Appendix Page: 2 Total:13

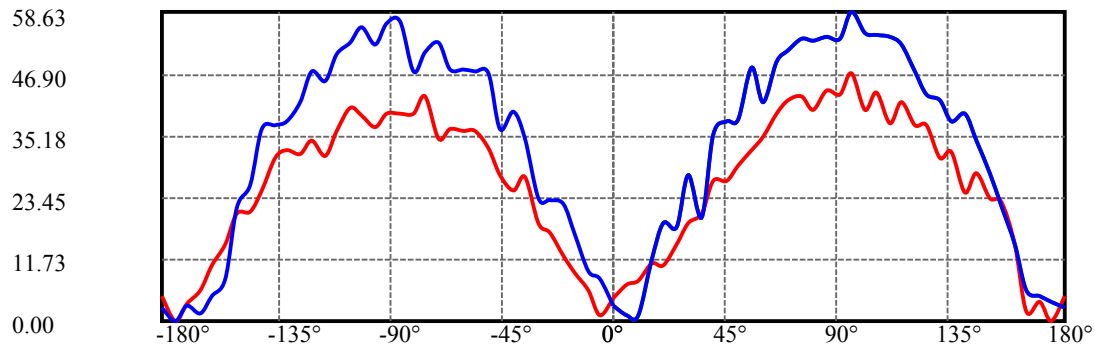
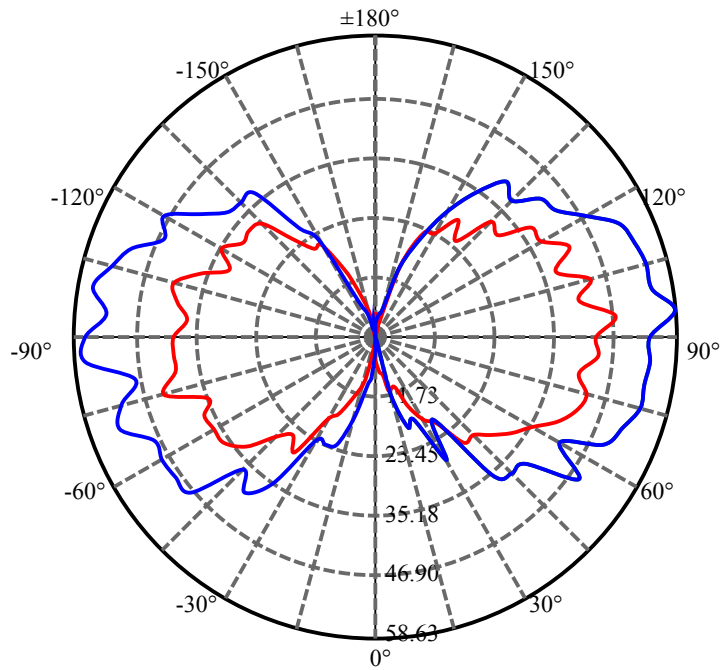
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3.683	0.000	0	.000%	.000%
5.0	4.221	0.094	0.094	.020%	.020%
10.0	6.062	0.368	0.462	.079%	.099%
15.0	11.971	1.070	1.532	.229%	.329%
20.0	15.885	2.296	3.828	.492%	.821%
25.0	18.033	3.557	7.385	.763%	1.584%
30.0	22.100	5.079	12.464	1.089%	2.673%
35.0	25.554	7.017	19.481	1.505%	4.178%
40.0	31.616	9.538	29.02	2.046%	6.223%
45.0	32.153	11.807	40.827	2.532%	8.756%
50.0	36.834	13.940	54.767	2.989%	11.745%
55.0	40.901	16.902	71.669	3.625%	15.370%
60.0	40.134	18.731	90.4	4.017%	19.387%
65.0	43.127	20.241	110.641	4.341%	23.728%
70.0	45.122	22.345	132.986	4.792%	28.520%
75.0	47.424	24.190	157.176	5.188%	33.707%
80.0	44.968	24.722	181.897	5.302%	39.009%
85.0	48.345	25.355	207.253	5.438%	44.447%
90.0	48.038	26.390	233.643	5.660%	50.106%
95.0	48.728	26.495	260.138	5.682%	55.788%
100.0	47.424	26.127	286.265	5.603%	61.392%
105.0	47.731	25.461	311.726	5.460%	66.852%
110.0	44.508	24.110	335.836	5.170%	72.022%
115.0	42.666	22.073	357.909	4.734%	76.756%
120.0	41.515	20.465	378.373	4.389%	81.145%
125.0	38.292	18.447	396.82	3.956%	85.101%
130.0	35.683	16.085	412.905	3.449%	88.550%
135.0	34.455	14.172	427.078	3.039%	91.590%
140.0	31.232	12.163	439.24	2.608%	94.198%
145.0	27.165	9.743	448.983	2.089%	96.288%
150.0	23.328	7.435	456.419	1.595%	97.882%
155.0	16.652	5.060	461.478	1.085%	98.967%
160.0	11.204	2.922	464.4	.627%	99.594%
165.0	3.760	1.233	465.633	.264%	99.858%
170.0	3.683	0.442	466.075	.095%	99.953%
175.0	0.921	0.165	466.239	.035%	99.988%
180.0	3.683	0.055	466.294	.012%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	12.46	2.67%
0-40	29.02	6.22%
0-60	90.40	19.39%
0-90	233.64	50.11%
0-120	378.37	81.14%
0-180	466.29	100.00%
60-90	161.97	34.74%
90-120	171.12	36.70%
90-130	205.65	44.10%
90-150	249.17	53.44%
90-180	258.99	55.54%
0-118.70	373.04	80.00%

ZONAL LUMEN SUMMARY

0-10	0.46
10-20	3.37
20-30	8.64
30-40	16.56
40-50	25.75
50-60	35.63
60-70	42.59
70-80	48.91
80-90	51.75
90-100	52.62
100-110	49.57
110-120	42.54
120-130	34.53
130-140	26.33
140-150	17.18
150-160	7.98
160-170	1.67
170-180	0.16



C90(Max): —————

C0/C180: —————

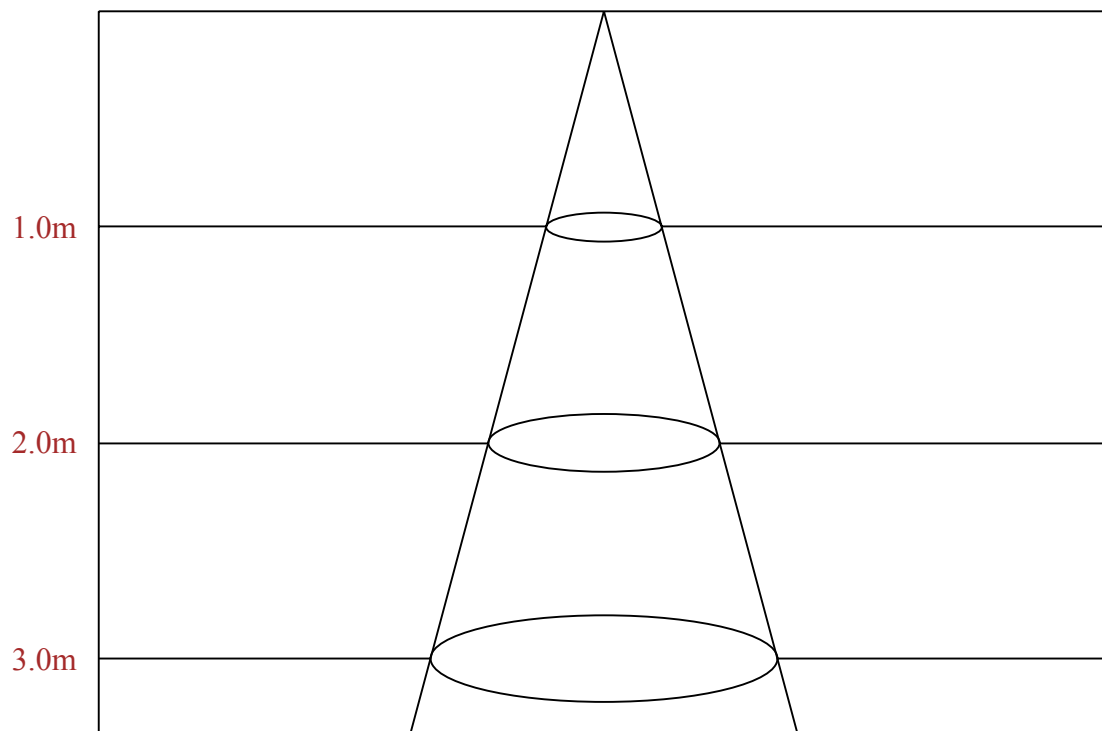
C90/C270: —————

Field angle(10%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:253.5 Right:70.0

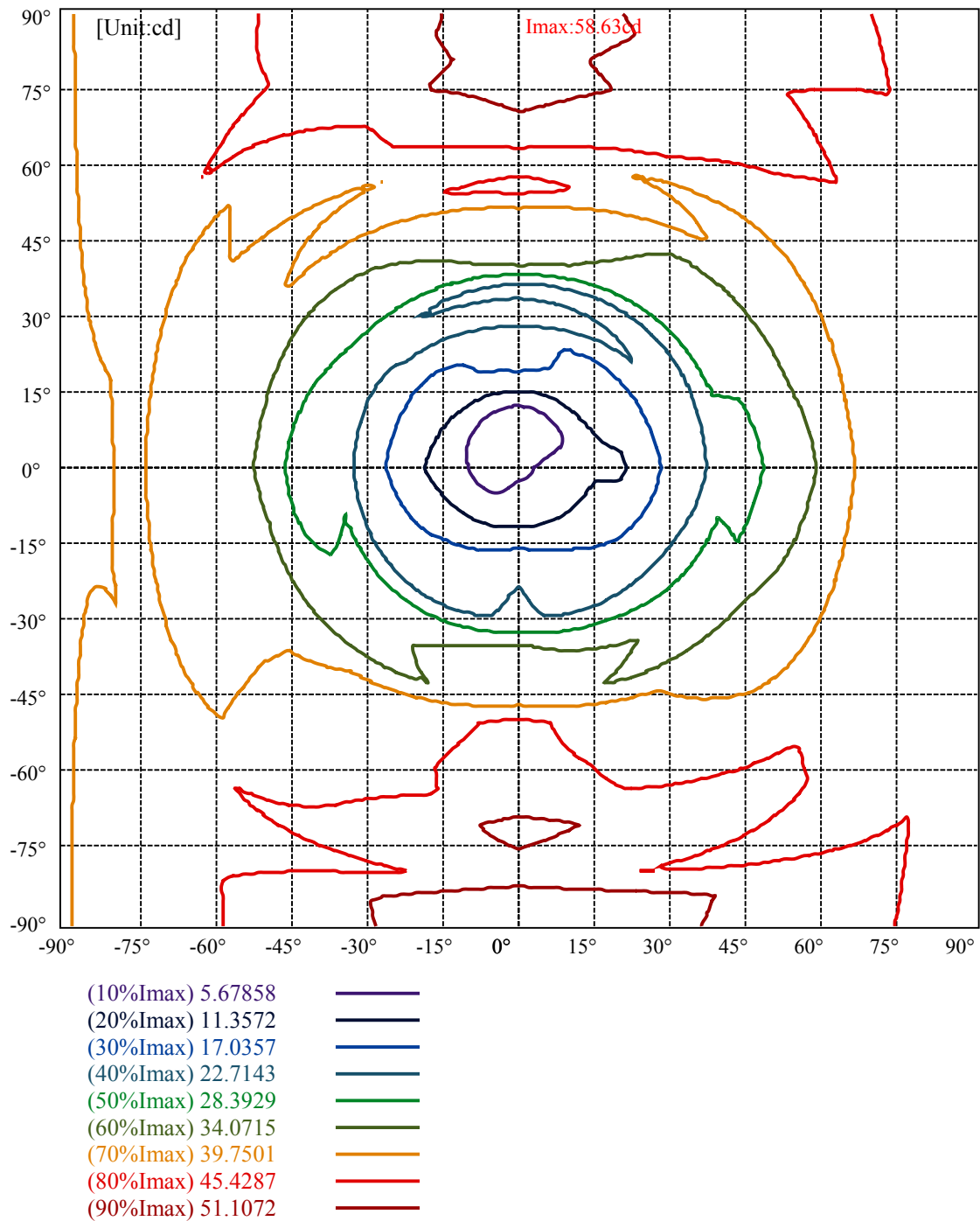
Beam Angle(50%Imax):C0/180Left:236.7 Right:54.8

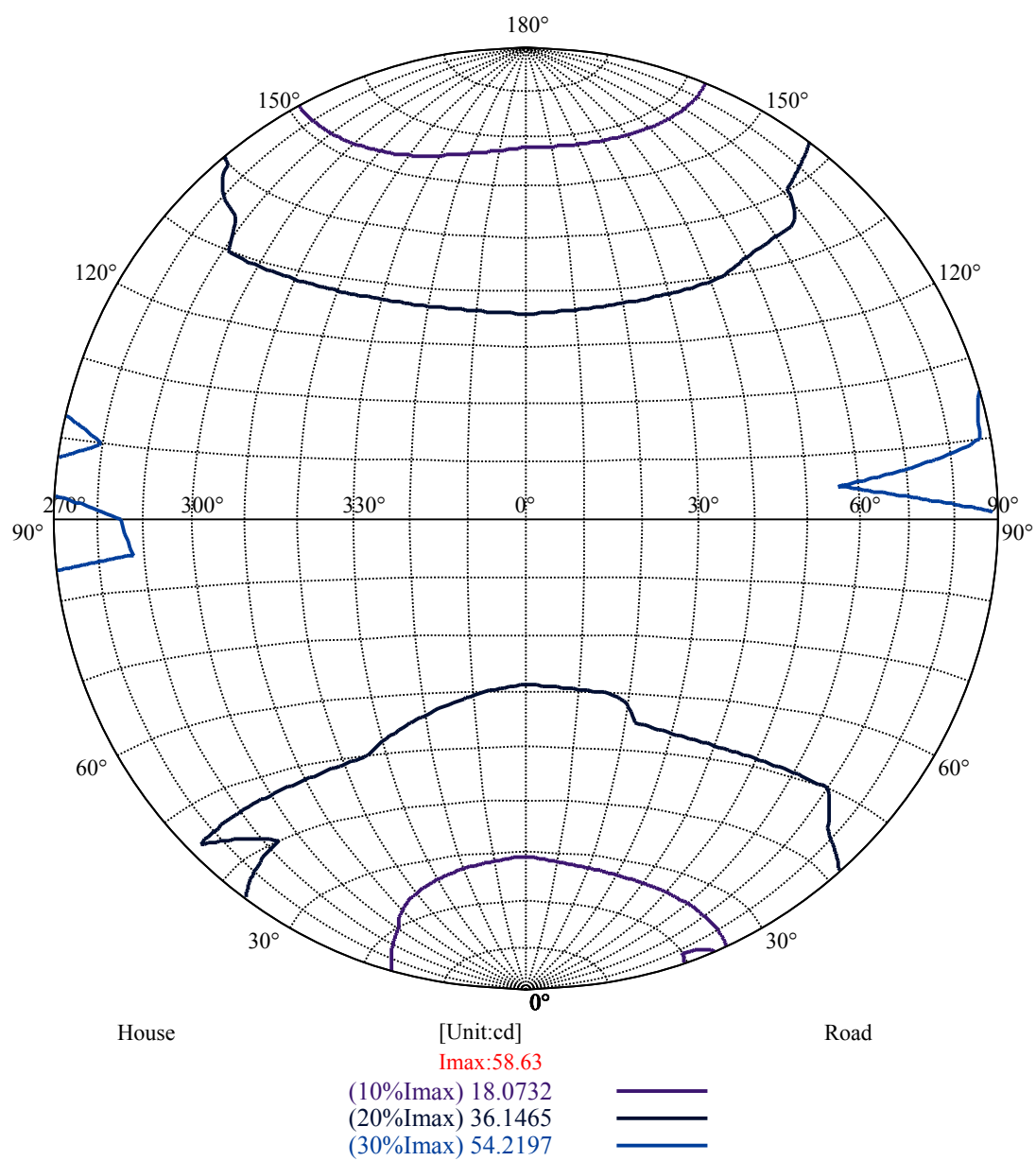
:C90/270Left:238.4 Right:53.9

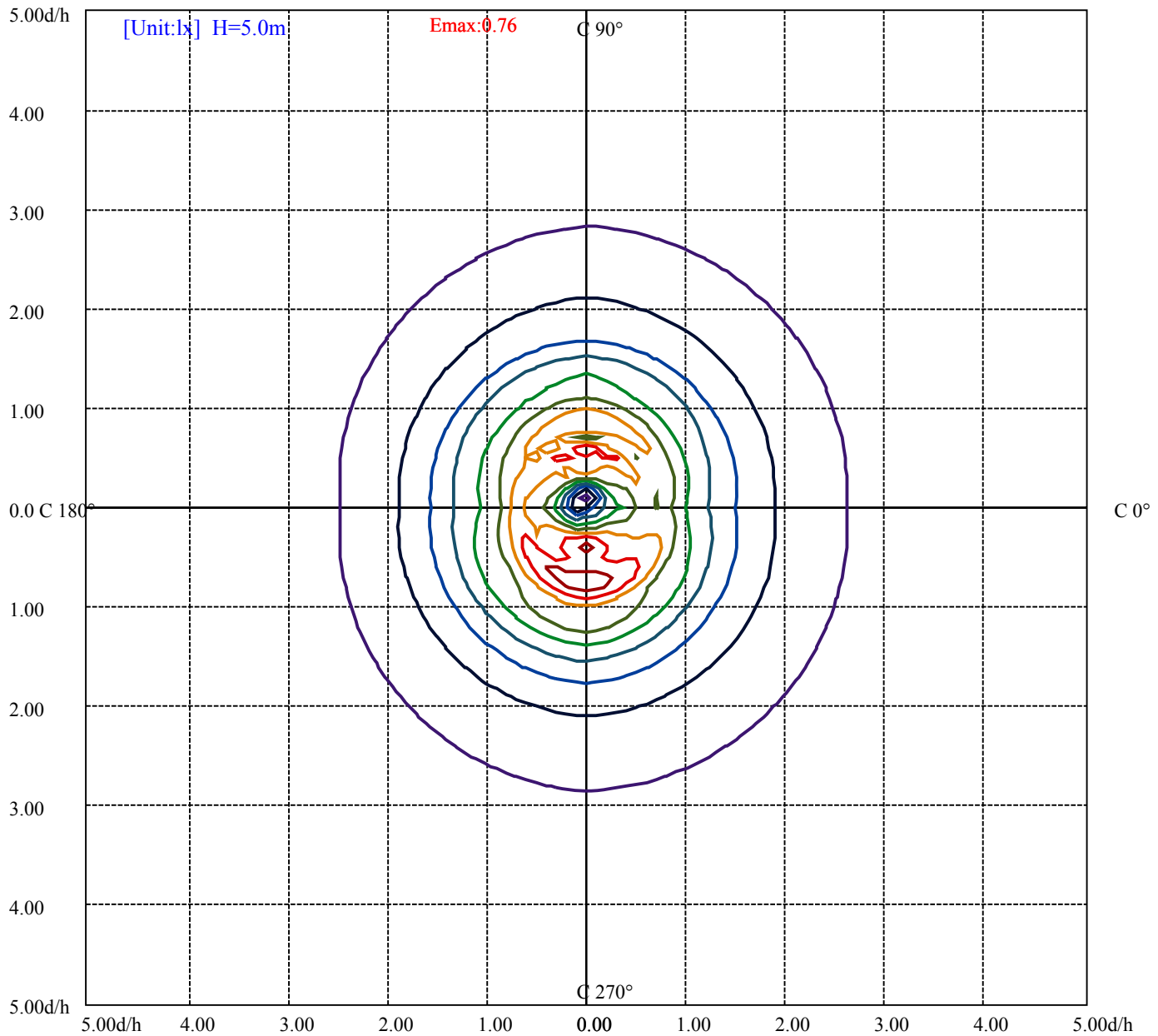


Max , Ave

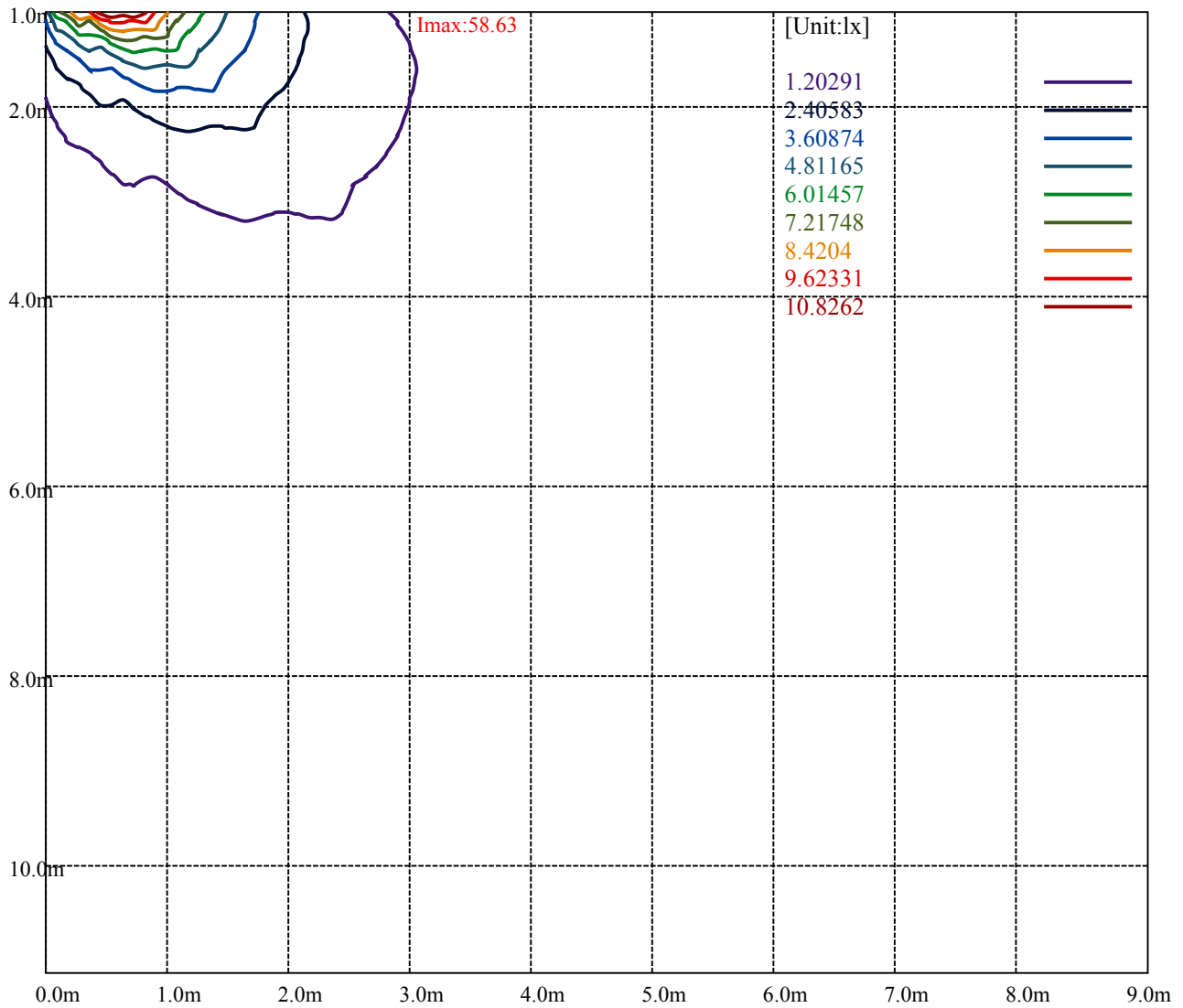
Beam angle of C90 plane 334.70







(10%Emax) 0.0762484	—
(20%Emax) 0.1524968	—
(30%Emax) 0.2287456	—
(40%Emax) 0.304994	—
(50%Emax) 0.3812424	—
(60%Emax) 0.457492	—
(70%Emax) 0.53374	—
(80%Emax) 0.609988	—
(90%Emax) 0.686236	—



G50-1CD 3.8W 120V 2700K E12

Luminance Limiting Curve(no luminous side)

Appendix Page: 10 Total:13

Luminance Table

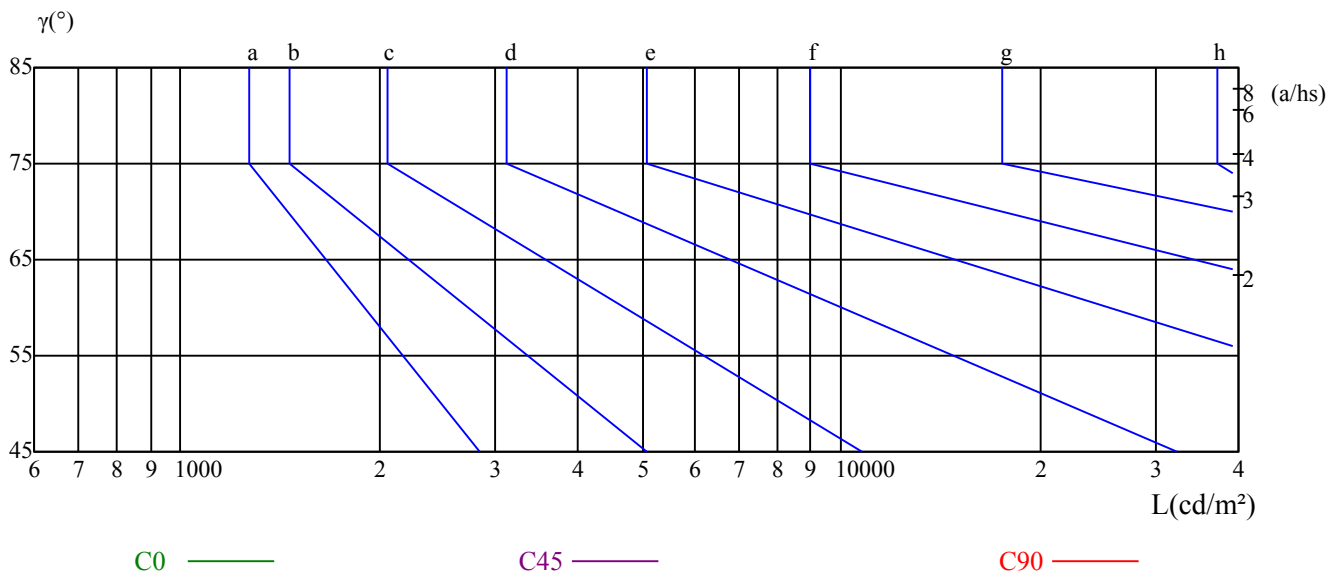
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

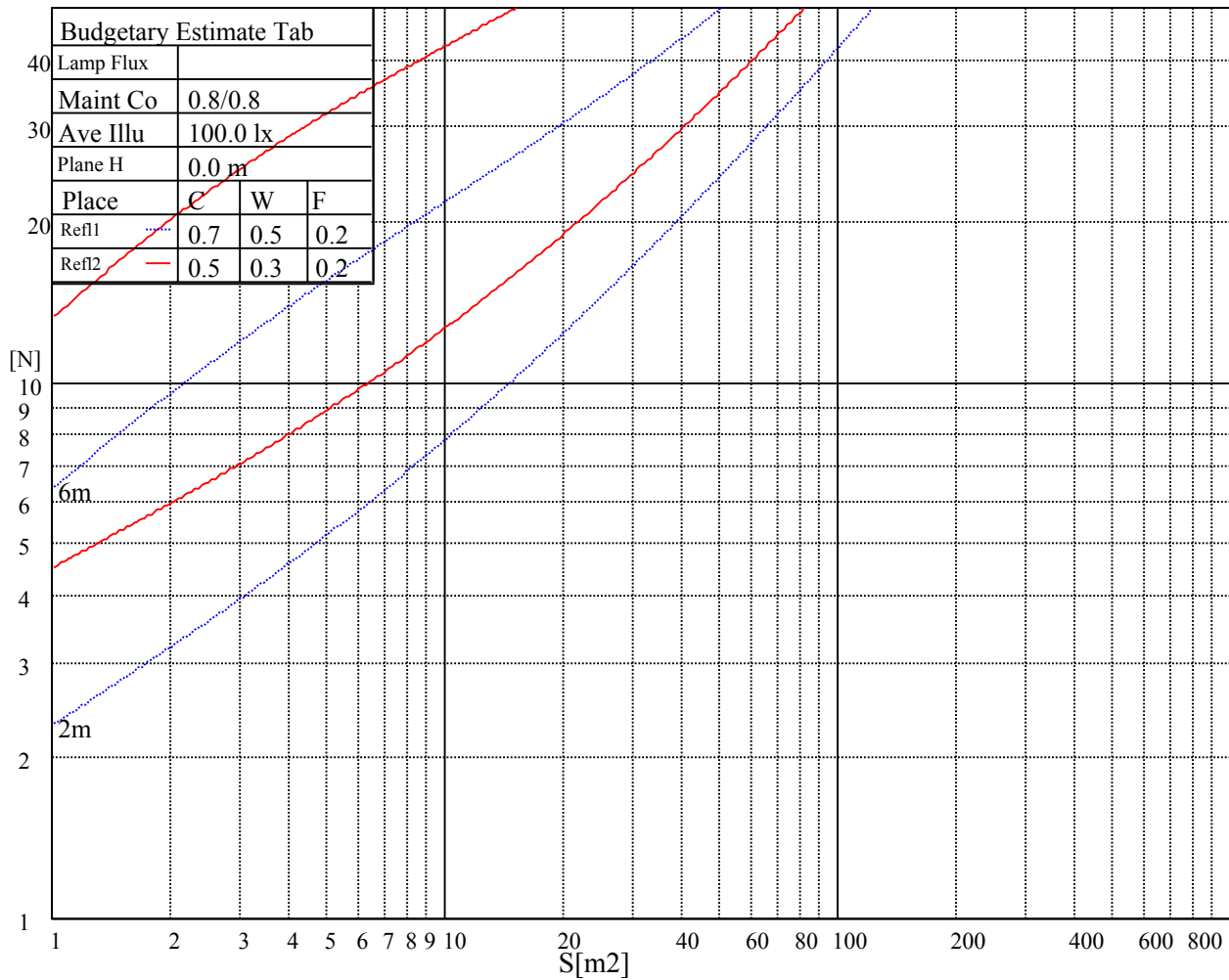
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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





G50-1CD 3.8W 120V 2700K E12

Utilization factor table for indoor luminaire

Appendix Page: 12 Total:13

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	1.07	1.07	1.07	0.99	0.99	0.99	0.83	0.83	0.83	0.69	0.69	0.69	0.56	0.56	0.56	0.50
1	0.85	0.79	0.74	0.78	0.73	0.68	0.65	0.60	0.57	0.52	0.49	0.46	0.41	0.38	0.36	0.30
2	0.71	0.63	0.56	0.65	0.58	0.51	0.53	0.47	0.42	0.43	0.38	0.34	0.33	0.29	0.26	0.21
3	0.61	0.51	0.44	0.55	0.47	0.40	0.45	0.39	0.33	0.36	0.31	0.26	0.27	0.23	0.20	0.15
4	0.53	0.43	0.35	0.48	0.39	0.32	0.39	0.32	0.27	0.31	0.25	0.21	0.23	0.19	0.16	0.12
5	0.46	0.36	0.29	0.42	0.33	0.27	0.34	0.27	0.22	0.27	0.21	0.17	0.20	0.16	0.13	0.09
6	0.41	0.31	0.25	0.37	0.29	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.14	0.10	0.07
7	0.36	0.27	0.21	0.33	0.25	0.19	0.27	0.20	0.16	0.21	0.16	0.12	0.16	0.12	0.09	0.06
8	0.33	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.15	0.10	0.07	0.05
9	0.30	0.21	0.16	0.27	0.19	0.14	0.22	0.16	0.12	0.18	0.13	0.09	0.13	0.09	0.06	0.04
10	0.27	0.19	0.14	0.25	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	0.08	0.06	0.03

G50-1CD 3.8W 120V 2700K E12

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	4.30	6.75	7.67	10.74	10.44	14.73	18.72	20.57	26.70	
90.0	3.07	0.92	1.23	11.66	18.72	17.80	27.63	19.64	35.30	
180.0	4.30	1.23	5.83	9.21	12.28	16.58	18.72	27.32	24.86	
270.0	3.07	7.98	9.52	16.27	22.10	23.02	23.33	34.69	39.60	
360.0	4.30	6.75	7.67	10.74	10.44	14.73	18.72	20.57	26.70	
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	
0.0	26.70	29.47	32.23	34.99	39.29	41.75	42.67	40.21	43.59	
90.0	37.75	38.06	48.19	41.44	49.11	51.26	53.41	53.10	53.72	
180.0	27.63	32.84	35.91	36.22	36.53	34.69	42.67	39.29	39.29	
270.0	36.53	46.96	47.27	47.88	47.58	52.80	50.95	47.27	56.79	
360.0	26.70	29.47	32.23	34.99	39.29	41.75	42.67	40.21	43.59	
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	
0.0	42.97	46.96	40.21	43.28	37.45	41.44	37.14	37.14	31.00	
90.0	53.41	58.63	54.64	54.33	53.72	52.49	47.27	42.97	41.75	
180.0	39.29	36.83	38.98	40.52	36.22	31.31	34.38	31.62	32.23	
270.0	56.48	52.49	55.86	52.80	50.65	45.43	47.27	41.44	37.75	
360.0	42.97	46.96	40.21	43.28	37.45	41.44	37.14	37.14	31.00	
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	
0.0	31.92	24.25	27.93	23.33	22.41	14.73	1.84	3.68	0.00	
90.0	37.75	39.29	34.07	27.93	21.79	14.73	5.83	4.60	3.68	
180.0	31.00	24.86	20.87	20.57	14.43	10.44	5.83	3.38	0.00	
270.0	37.14	36.53	25.78	21.49	7.98	4.91	1.53	3.07	0.00	
360.0	31.92	24.25	27.93	23.33	22.41	14.73	1.84	3.68	0.00	
C/γ(°)	180.0									
0.0	4.91									
90.0	2.46									
180.0	4.91									
270.0	2.46									
360.0	4.91									