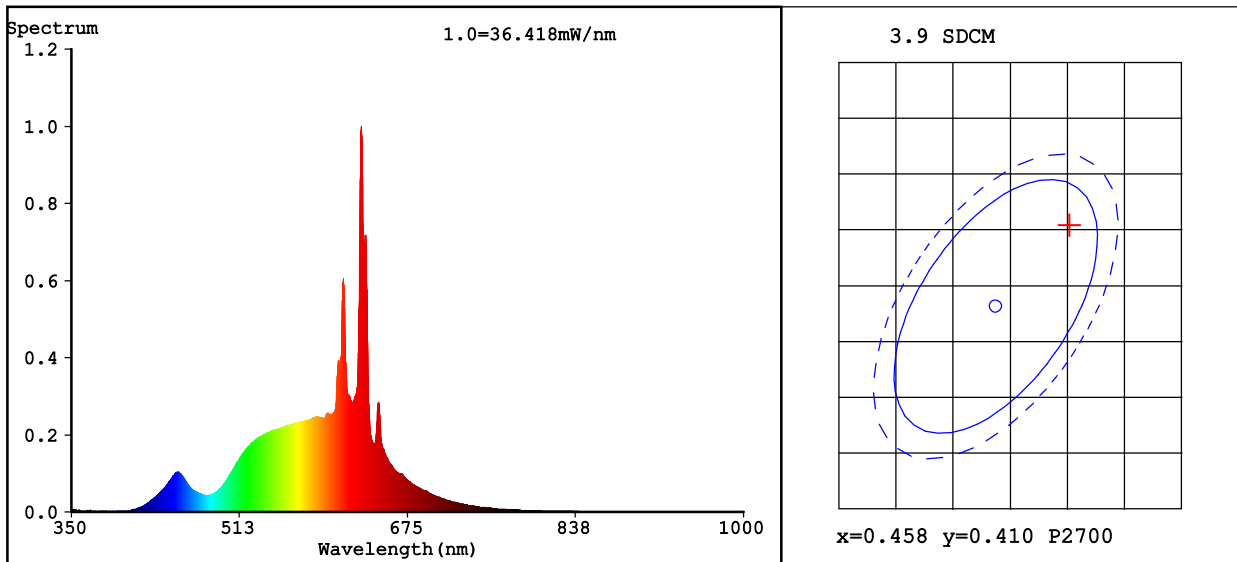


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4643$ $y=0.4174$ / $u'=0.2623$ $v'=0.5306$
 CCT=2692K (Duv=0.0021) Dominant WL:Ld =583.6nm Purity=64.7%
 Ratio:R=27.7% G=70.6% B=1.7% Peak WL:Lp=630.3nm FWHM=8.1nm
 Render Index:Ra=94.1
 R1 =98 R2 =95 R3 =88 R4 =96 R5 =96 R6 =95 R7 =96
 R8 =90 R9 =71 R10=84 R11=95 R12=80 R13=97 R14=91 R15=94

Photo Parameters:

Flux = 571.7 lm Eff. : 109.92 lm/W Fe = 1.810 W

Electrical parameters:

V = 120.04 V I = 0.05486 A P = 5.201 W PF = 0.7898

Status: Integral T = 250 ms Ip = 31879 (49%)

Model:BA11-5-E26-927-F-F	Number:1
Tester:XCJ	Date:2018-10-30
Temperature:24.7Deg	Humidity:65.0%
Manufacturer:RAB Lighting Inc.	Remarks:

RAB Lighting Inc.

Client:

LumCAT: BA11-5-E26-927-F-F

Luminaire:

Report No:

Voltage(V): 119.9900

Test No: 255198-01-001

Current(A): 0.0540

LampCAT:

Power (W): 5.1230

Lamp flux(lm)

PF: 0.7870

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 556.73

Lumens(lm)/Power(W): 108.67

Central intensity(cd): 27.626

Maximum intensity(cd): 68.143

Angle of maximum intensity: C=90.0 γ =65.0

Beam Angle(50%Imax): [C0/180]Total=247.0

[C90/270]Total=256.9

Field angle(10%Imax): [C0/180]Total=313.9

[C90/270]Total=300.1

Maximum s/h(1/2): C0_180=2.42 C90_270=2.67

Maximum s/h(1/4): C0_180=2.40 C90_270=2.78

Up flux rate of LUM(%): 37.55%

Down flux rate of LUM(%): 59.46%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 28.133%

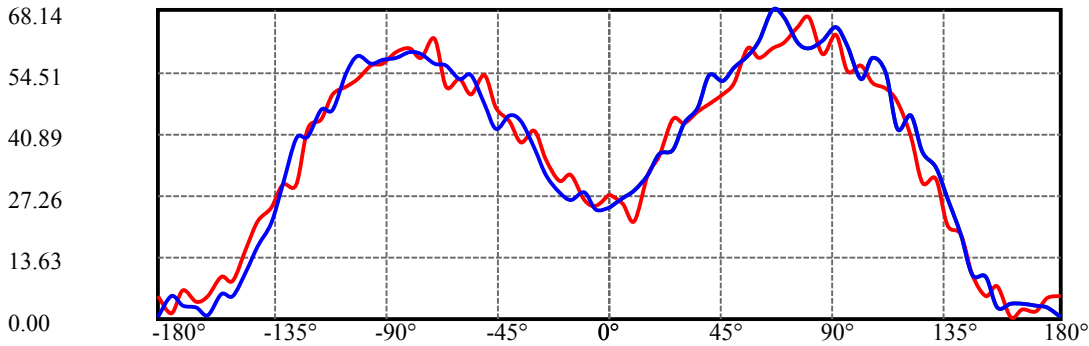
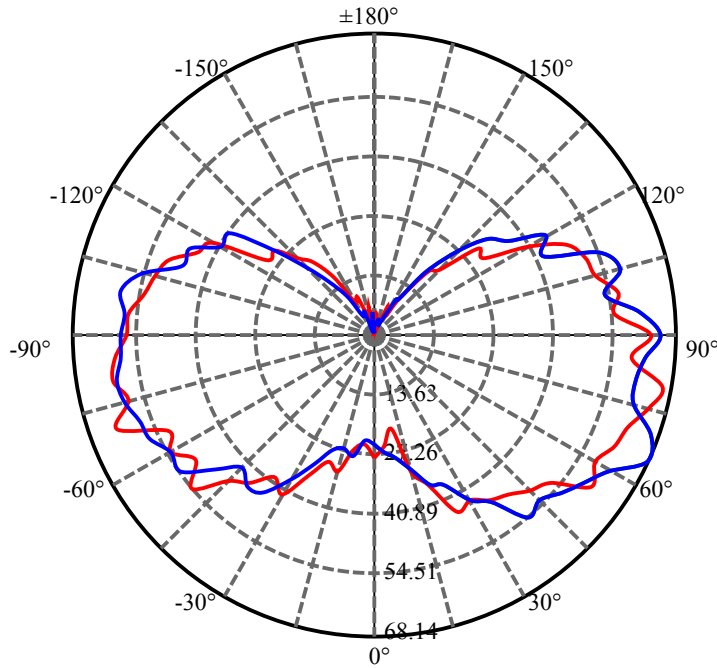
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	26.091	0.156	0.156	.028%	.028%
5.0	25.247	1.206	1.362	.217%	.245%
10.0	26.014	2.476	3.838	.445%	.689%
15.0	30.465	4.322	8.16	.776%	1.466%
20.0	32.613	6.114	14.274	1.098%	2.564%
25.0	37.064	8.586	22.86	1.542%	4.106%
30.0	41.438	11.357	34.217	2.040%	6.146%
35.0	43.664	13.728	47.945	2.466%	8.612%
40.0	47.347	16.682	64.627	2.996%	11.608%
45.0	47.654	18.470	83.098	3.318%	14.926%
50.0	52.105	21.879	104.976	3.930%	18.856%
55.0	55.251	24.808	129.784	4.456%	23.312%
60.0	56.325	26.738	156.522	4.803%	28.115%
65.0	58.781	29.201	185.723	5.245%	33.360%
70.0	61.390	31.621	217.344	5.680%	39.040%
75.0	60.239	31.894	249.238	5.729%	44.769%
80.0	61.237	33.056	282.295	5.938%	50.706%
85.0	59.011	32.223	314.518	5.788%	56.494%
90.0	60.086	32.935	347.453	5.916%	62.410%
95.0	56.786	31.008	378.461	5.570%	67.980%
100.0	54.867	29.618	408.079	5.320%	73.300%
105.0	53.793	28.481	436.56	5.116%	78.415%
110.0	50.033	25.771	462.331	4.629%	83.044%
115.0	45.045	22.377	484.709	4.019%	87.064%
120.0	41.822	19.853	504.562	3.566%	90.630%
125.0	34.071	15.298	519.86	2.748%	93.378%
130.0	30.772	12.921	532.781	2.321%	95.699%
135.0	23.328	9.042	541.823	1.624%	97.323%
140.0	18.647	6.570	548.393	1.180%	98.503%
145.0	11.434	3.595	551.988	.646%	99.149%
150.0	6.906	1.893	553.88	.340%	99.489%
155.0	6.216	1.440	555.32	.259%	99.747%
160.0	2.532	0.475	555.795	.085%	99.833%
165.0	2.993	0.425	556.22	.076%	99.909%
170.0	3.453	0.329	556.548	.059%	99.968%
175.0	3.376	0.161	556.71	.029%	99.997%
180.0	2.916	0.017	556.727	.003%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	34.22	6.15%
0-40	64.63	11.61%
0-60	156.52	28.11%
0-90	347.45	62.41%
0-120	504.56	90.63%
0-180	556.73	100.00%
60-90	217.67	39.10%
90-120	190.04	34.14%
90-130	218.26	39.20%
90-150	239.36	42.99%
90-180	242.19	43.50%
0-106.71	445.38	80.00%

ZONAL LUMEN SUMMARY

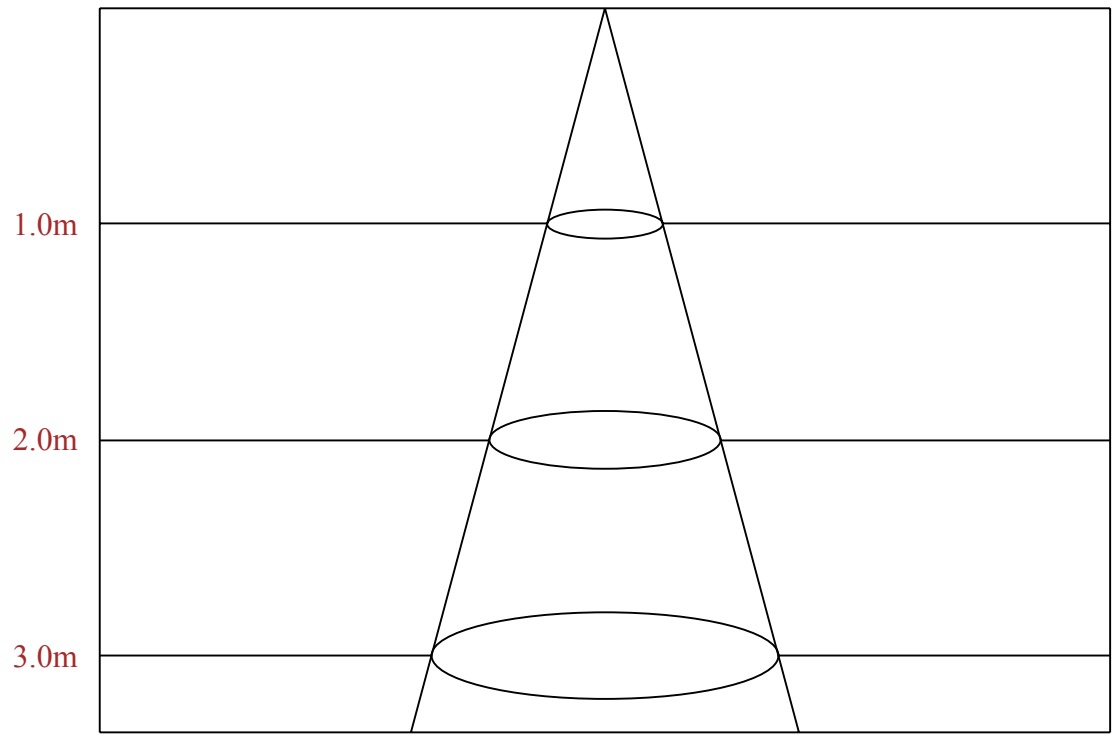
0-10	3.84
10-20	10.44
20-30	19.94
30-40	30.41
40-50	40.35
50-60	51.55
60-70	60.82
70-80	64.95
80-90	65.16
90-100	60.63
100-110	54.25
110-120	42.23
120-130	28.22
130-140	15.61
140-150	5.49
150-160	1.91
160-170	0.75
170-180	0.16



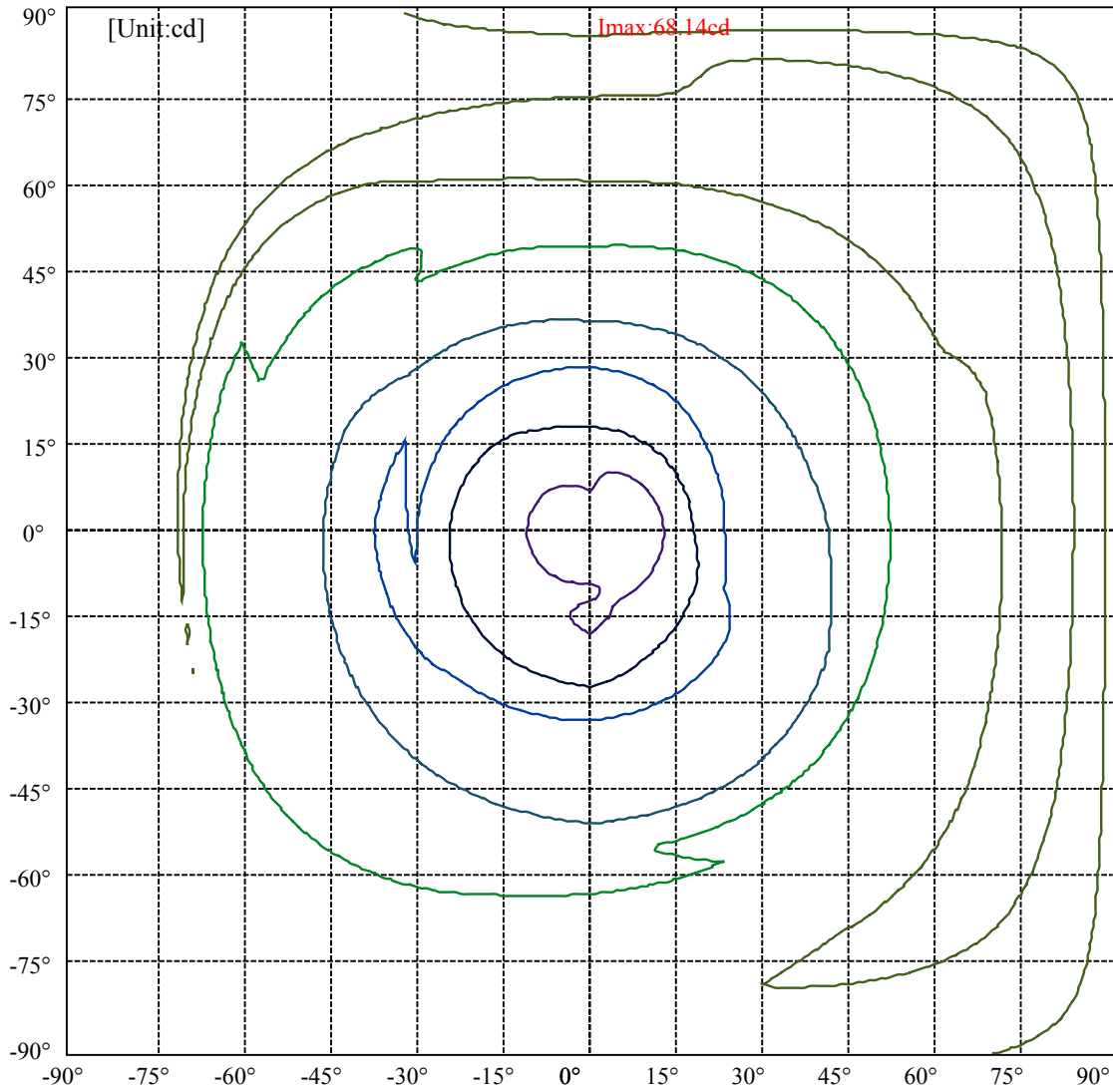
C90(Max): ———
 C0/C180: ———
 C90/C270: ———

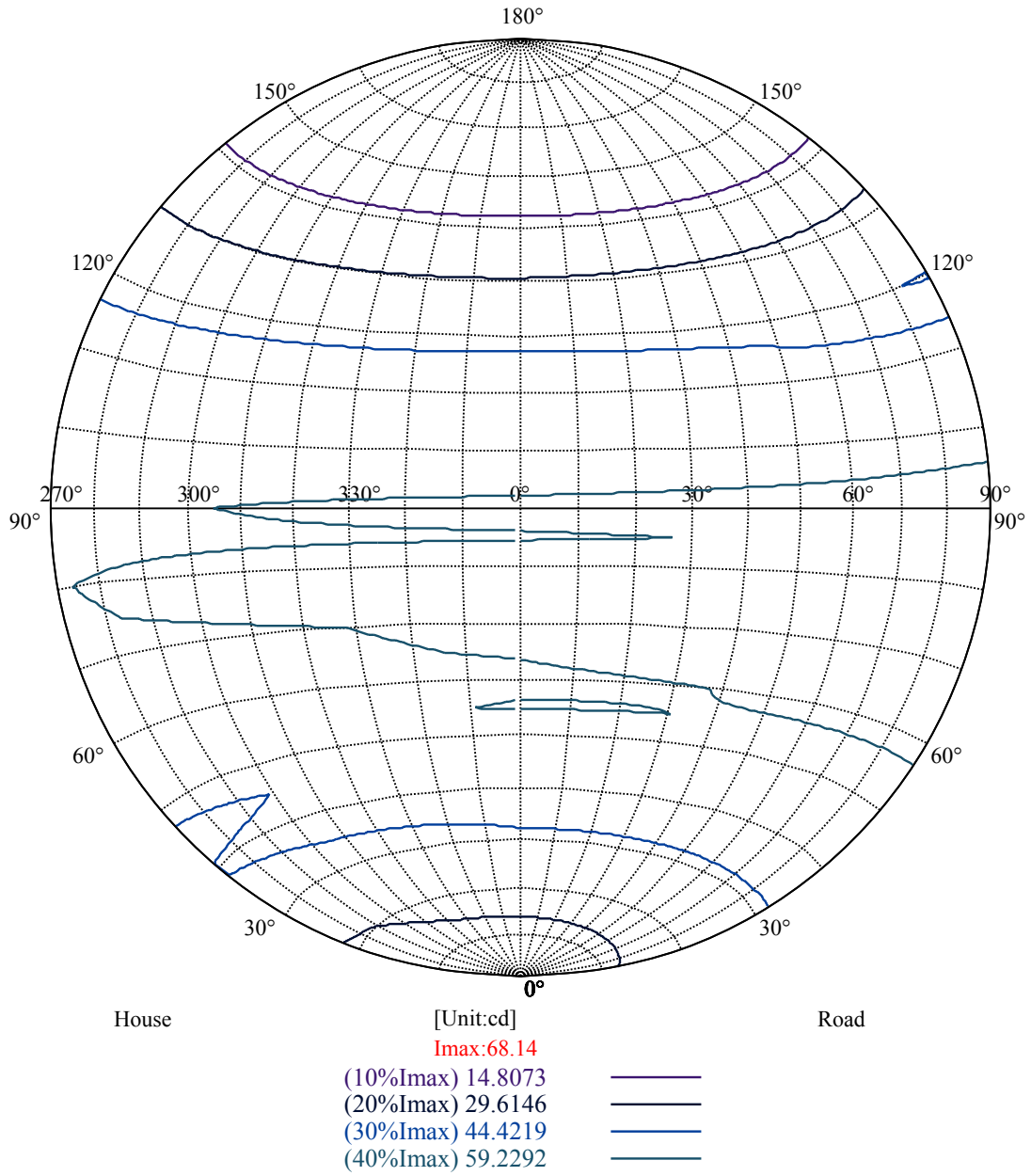
Field angle(10%Imax):C0/180Left:238.4 Right:75.5
 :C90/270Left:213.3 Right:86.8

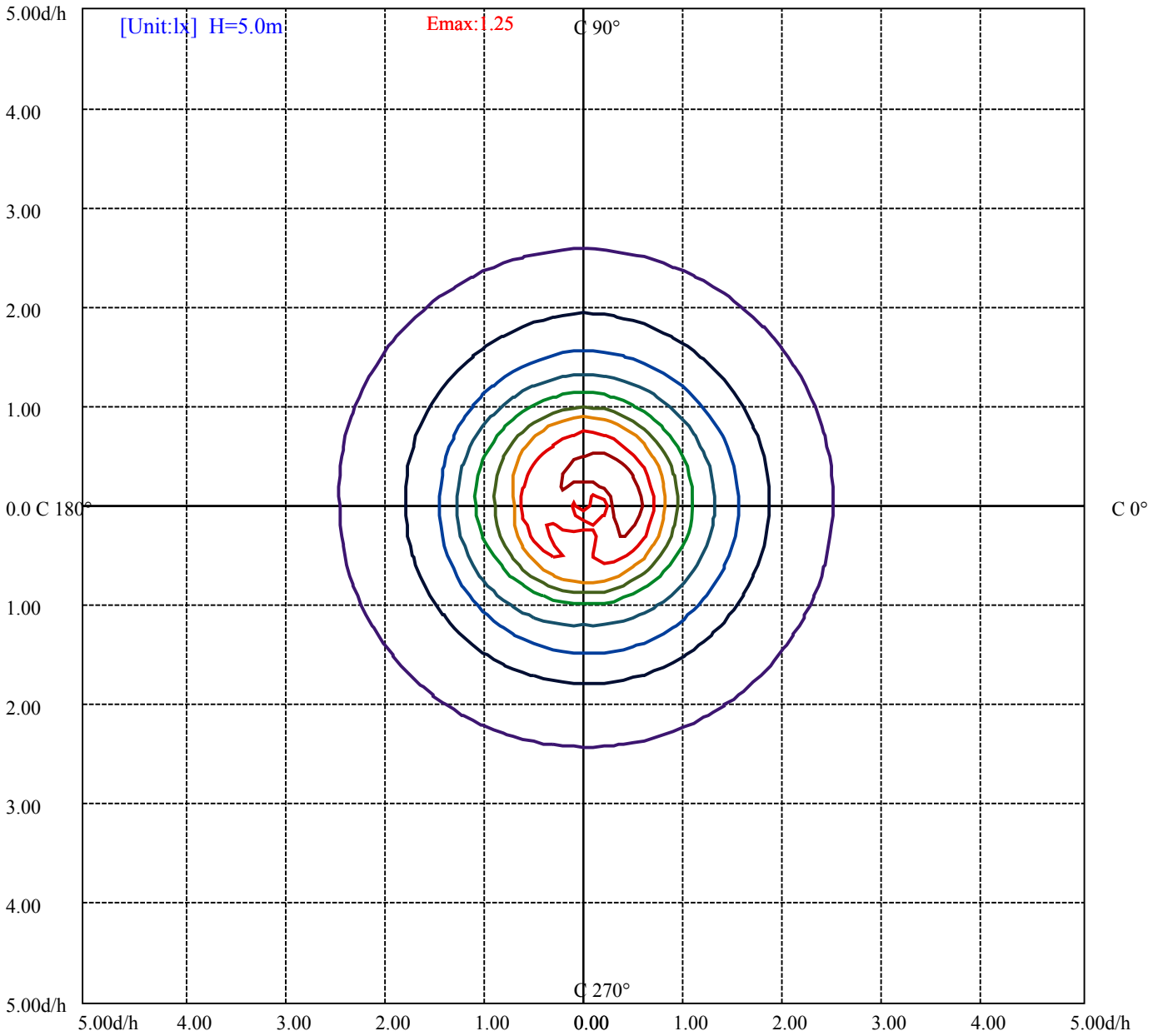
Beam Angle(50%Imax):C0/180Left:203.5 Right:43.5
 :C90/270Left:192.8 Right:64.1



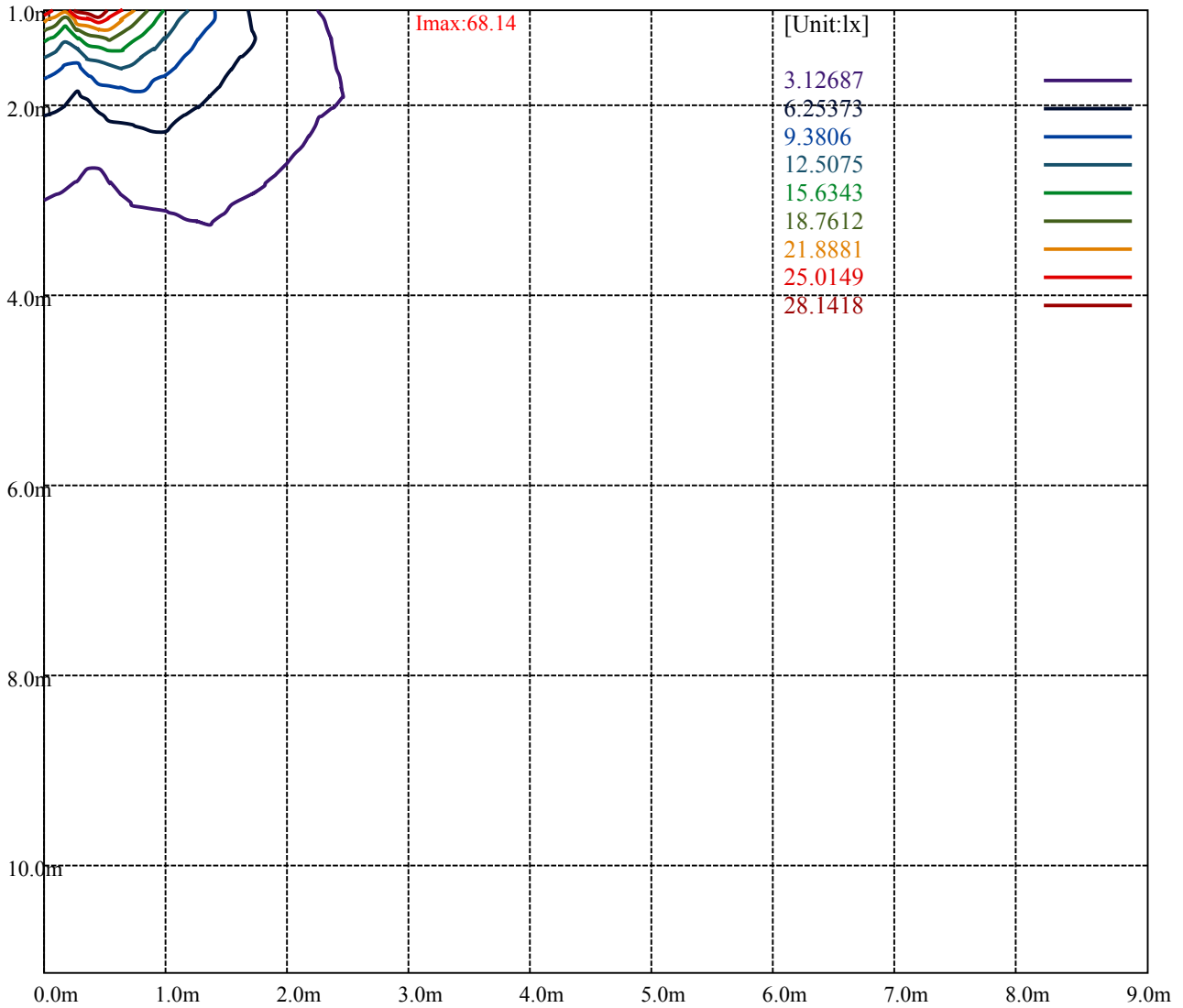
Max , Ave Beam angle of C90 plane 287.36







- (10%Emax) 0.1250744
- (20%Emax) 0.2501484
- (30%Emax) 0.3752228
- (40%Emax) 0.500296
- (50%Emax) 0.625372
- (60%Emax) 0.7504441
- (70%Emax) 0.87552
- (80%Emax) 1.000596
- (90%Emax) 1.125668



Luminance Table

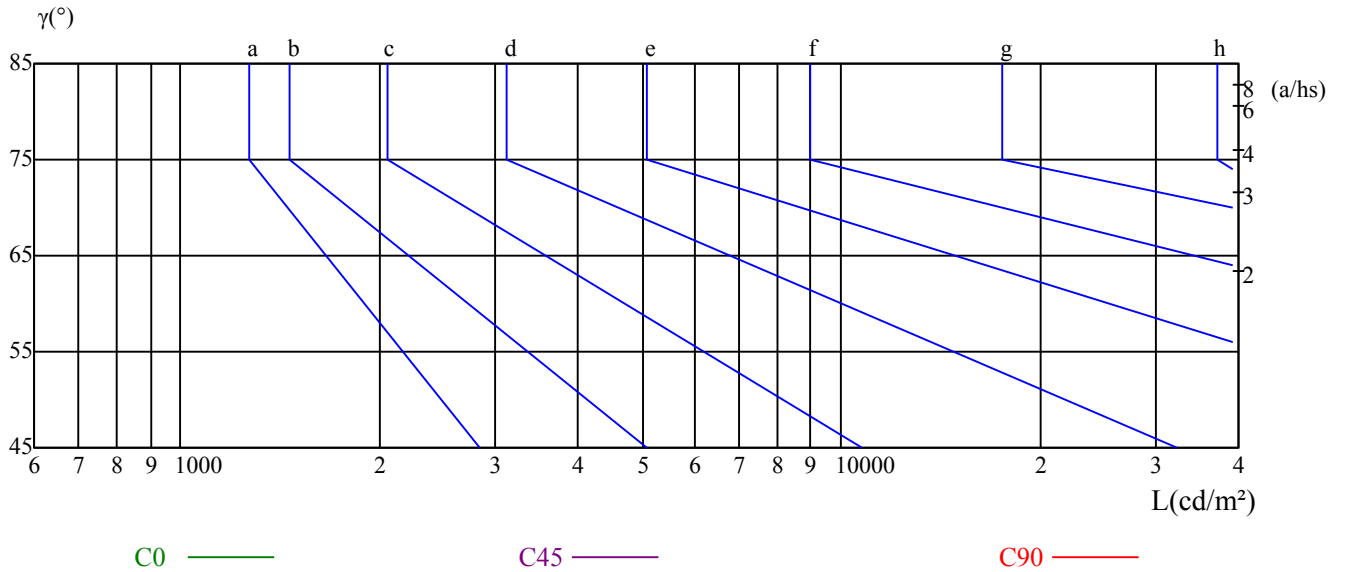
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

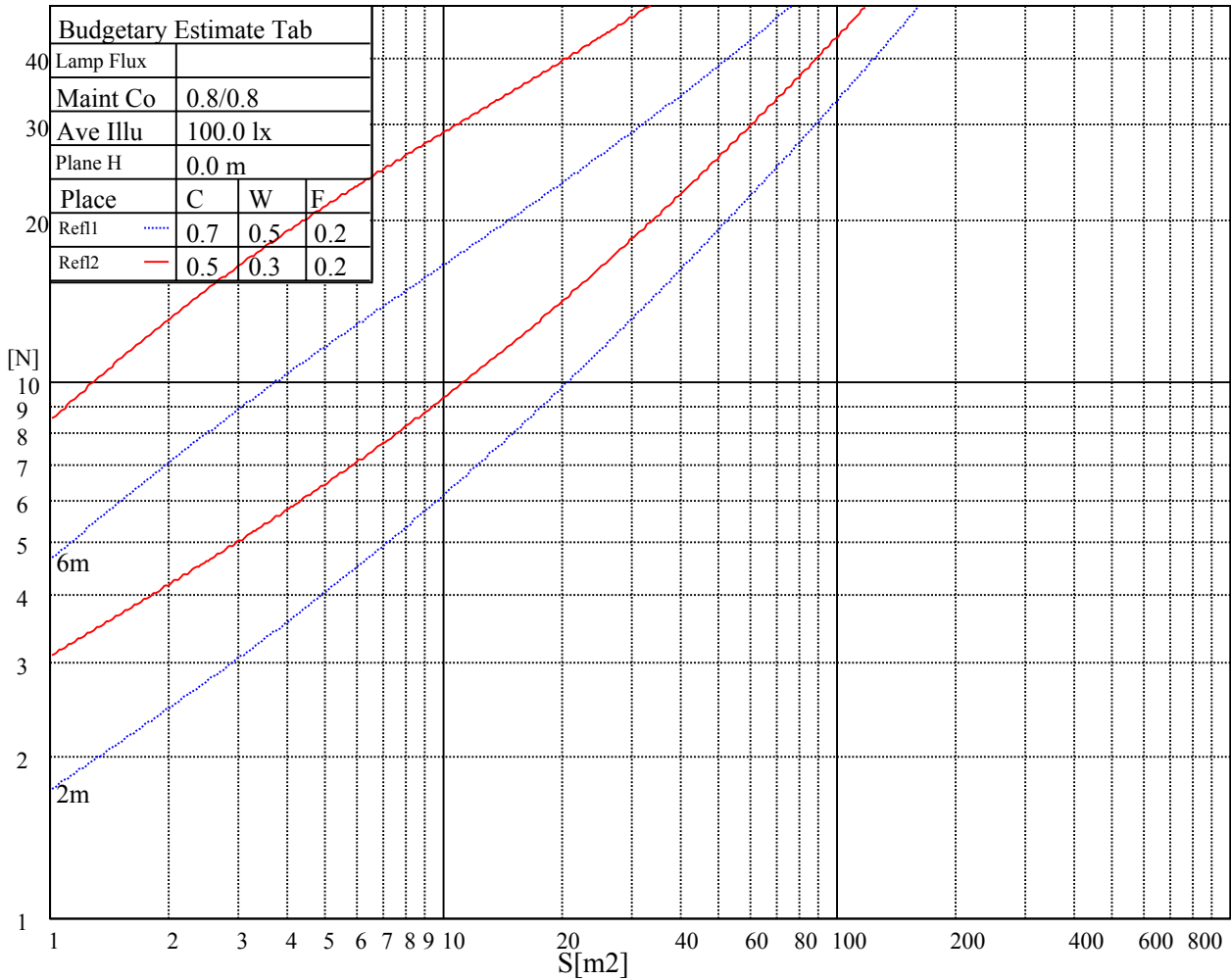
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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	1.09	1.09	1.09	1.02	1.02	1.02	0.89	0.89	0.89	0.76	0.76	0.76	0.65	0.65	0.65	0.59
1	0.89	0.83	0.78	0.82	0.77	0.73	0.71	0.67	0.63	0.60	0.57	0.54	0.50	0.47	0.45	0.40
2	0.74	0.66	0.59	0.69	0.61	0.55	0.59	0.53	0.48	0.49	0.45	0.40	0.40	0.37	0.34	0.29
3	0.63	0.54	0.46	0.59	0.50	0.43	0.50	0.43	0.37	0.42	0.36	0.32	0.34	0.30	0.26	0.22
4	0.55	0.45	0.38	0.51	0.42	0.35	0.43	0.36	0.30	0.36	0.30	0.26	0.29	0.25	0.21	0.17
5	0.48	0.38	0.31	0.45	0.36	0.29	0.38	0.31	0.25	0.32	0.26	0.21	0.26	0.21	0.17	0.14
6	0.43	0.33	0.26	0.40	0.31	0.25	0.34	0.27	0.21	0.28	0.22	0.18	0.23	0.18	0.15	0.12
7	0.38	0.29	0.23	0.35	0.27	0.21	0.30	0.23	0.18	0.25	0.20	0.15	0.21	0.16	0.13	0.10
8	0.34	0.26	0.20	0.32	0.24	0.18	0.27	0.21	0.16	0.23	0.17	0.13	0.19	0.14	0.11	0.08
9	0.31	0.23	0.17	0.29	0.21	0.16	0.25	0.18	0.14	0.21	0.16	0.12	0.17	0.13	0.10	0.07
10	0.29	0.20	0.15	0.27	0.19	0.14	0.23	0.17	0.12	0.19	0.14	0.10	0.16	0.12	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	27.63	25.48	21.49	31.92	35.91	43.89	43.28	45.74	47.27
90.0	24.56	26.70	28.24	31.62	36.22	37.45	43.28	46.35	53.72
180.0	27.63	24.86	26.40	31.92	30.39	34.99	41.44	38.98	43.59
270.0	24.56	23.94	27.93	26.40	27.93	31.92	37.75	43.59	44.81
360.0	27.63	25.48	21.49	31.92	35.91	43.89	43.28	45.74	47.27
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	49.42	52.18	59.86	57.71	59.86	60.78	64.46	66.30	58.32
90.0	52.49	55.25	58.01	61.39	68.14	66.30	60.78	59.86	61.39
180.0	46.66	53.72	49.42	53.10	51.26	62.00	57.40	59.86	58.63
270.0	42.05	47.27	53.72	53.10	55.86	56.48	58.32	58.93	57.71
360.0	49.42	52.18	59.86	57.71	59.86	60.78	64.46	66.30	58.32
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	62.62	54.64	55.86	51.87	50.65	47.88	40.21	30.08	30.70
90.0	64.46	60.16	52.80	57.71	54.02	42.05	44.81	36.83	33.46
180.0	56.17	55.86	52.80	51.26	49.42	44.20	42.05	29.47	29.47
270.0	57.09	56.48	58.01	54.33	46.04	46.04	40.21	39.90	29.47
360.0	62.62	54.64	55.86	51.87	50.65	47.88	40.21	30.08	30.70
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	20.87	18.72	9.82	4.91	7.37	0.61	2.15	1.84	4.60
90.0	26.70	18.42	9.82	9.21	2.46	3.38	3.38	2.76	2.46
180.0	24.56	21.49	15.65	8.59	9.52	5.22	3.99	6.45	1.23
270.0	21.18	15.96	10.44	4.91	5.53	0.92	2.46	2.76	5.22
360.0	20.87	18.72	9.82	4.91	7.37	0.61	2.15	1.84	4.60
C/γ(°)	180.0								
0.0	5.22								
90.0	0.61								
180.0	5.22								
270.0	0.61								
360.0	5.22								