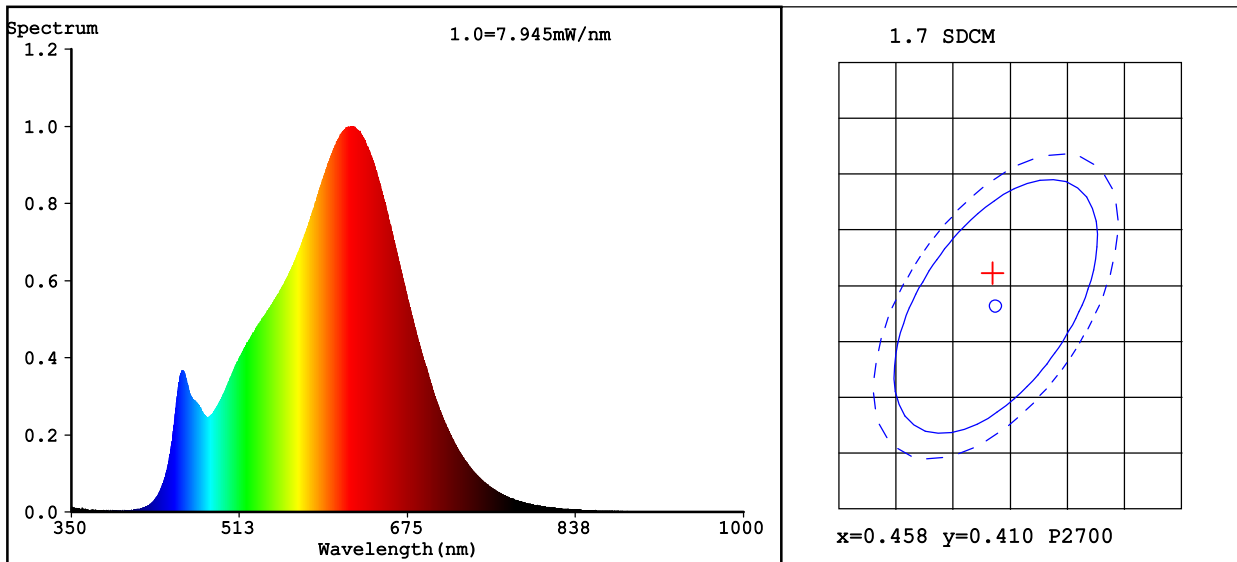


**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4575$   $y=0.4131$  /  $u'=0.2599$   $v'=0.5279$   
 CCT=2753K (Duv=0.0011) Dominant WL:Ld =583.6nm Purity=61.3%  
 Ratio:R=26.0% G=71.2% B=2.8% Peak WL:Lp=620.1nm FWHM=145.4nm  
 Render Index:Ra=92.5  
 R1 =93 R2 =98 R3 =98 R4 =92 R5 =93 R6 =98 R7 =90  
 R8 =79 R9 =56 R10=95 R11=93 R12=84 R13=95 R14=99 R15=88

**Photo Parameters:**

Flux = 368.8 lm Eff. : 101.89 lm/W Fe = 1.288 W

**Electrical parameters:**

V = 120.03 V I = 0.03913 A P = 3.619 W PF = 0.7695

Status: Integral T = 1743 ms Ip = 48999 (75%)

Model:G16.5-3-E26-927-F-F Number:1  
 Tester:XXL Date:2018-09-30  
 Temperature:25.0Deg Humidity:65.0%  
 Manufacturer:RAB Lighting Inc. Remarks:

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G25-3-E26-950-F-C

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Client:

LumCAT: G16.5-3-E26-927-F-F

Luminaire:

Report No:

Voltage(V): 120.0000

Test No: 255183-01-001

Current(A): 0.0400

LampCAT:

Power (W): 3.7370

Lamp flux(lm)

PF: 0.7695

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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### Photometric Results

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Lumens(lm): 393.19

Lumens(lm)/Power(W): 105.22

Central intensity(cd): 28.546

Maximum intensity(cd): 45.122

Angle of maximum intensity: C=180.0  $\gamma$ =70.0

Beam Angle(50%Imax): [C0/180]Total=279.2

[C90/270]Total=283.1

Field angle(10%Imax): [C0/180]Total=346.0

[C90/270]Total=341.9

Maximum s/h(1/2): C0\_180=1.65 C90\_270=2.04

Maximum s/h(1/4): C0\_180=2.05 C90\_270=2.07

Up flux rate of LUM(%): 43.35%

Down flux rate of LUM(%): 53.94%

CIE Type : General diffuse lighting

Output flux ratio in  $\pi$  solid angle : 26.775%

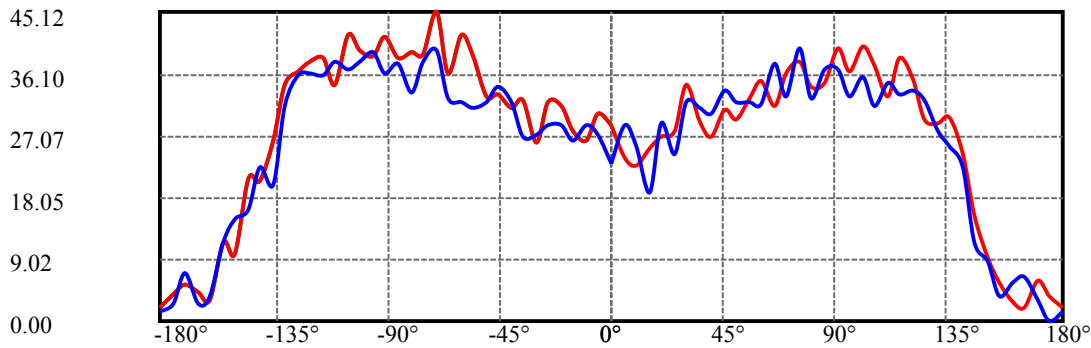
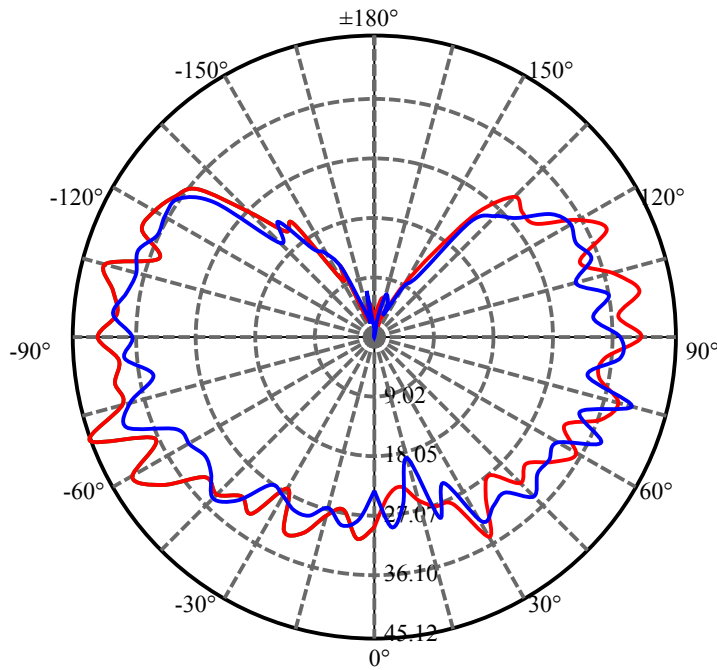
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	25.784	0.154	0.154	.039%	.039%
5.0	27.549	1.316	1.47	.335%	.374%
10.0	25.784	2.454	3.924	.624%	.998%
15.0	24.479	3.473	7.397	.883%	1.881%
20.0	28.930	5.424	12.821	1.379%	3.261%
25.0	28.086	6.506	19.327	1.655%	4.915%
30.0	29.928	8.202	27.529	2.086%	7.002%
35.0	29.851	9.385	36.914	2.387%	9.388%
40.0	30.081	10.599	47.513	2.696%	12.084%
45.0	32.920	12.760	60.273	3.245%	15.329%
50.0	31.539	13.243	73.516	3.368%	18.697%
55.0	33.534	15.057	88.573	3.829%	22.527%
60.0	35.069	16.647	105.221	4.234%	26.761%
65.0	34.378	17.079	122.299	4.344%	31.104%
70.0	38.446	19.803	142.102	5.036%	36.141%
75.0	38.599	20.437	162.538	5.198%	41.338%
80.0	34.839	18.806	181.345	4.783%	46.121%
85.0	36.834	20.113	201.458	5.115%	51.237%
90.0	38.599	21.158	222.616	5.381%	56.617%
95.0	36.834	20.113	242.729	5.115%	61.733%
100.0	38.292	20.670	263.399	5.257%	66.990%
105.0	36.757	19.462	282.861	4.950%	71.940%
110.0	34.916	17.984	300.845	4.574%	76.513%
115.0	36.450	18.108	318.953	4.605%	81.119%
120.0	35.760	16.975	335.928	4.317%	85.436%
125.0	33.534	15.057	350.985	3.829%	89.266%
130.0	30.542	12.824	363.81	3.262%	92.527%
135.0	25.400	9.845	373.655	2.504%	95.031%
140.0	22.407	7.895	381.549	2.008%	97.039%
145.0	15.961	5.018	386.568	1.276%	98.315%
150.0	10.590	2.902	389.47	.738%	99.053%
155.0	7.981	1.849	391.319	.470%	99.524%
160.0	3.760	0.705	392.024	.179%	99.703%
165.0	3.760	0.533	392.557	.136%	99.838%
170.0	5.295	0.504	393.061	.128%	99.967%
175.0	2.532	0.121	393.182	.031%	99.997%
180.0	1.688	0.010	393.192	.003%	100.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	27.53	7.00%
0-40	47.51	12.08%
0-60	105.22	26.76%
0-90	222.62	56.62%
0-120	335.93	85.44%
0-180	393.19	100.00%
60-90	134.04	34.09%
90-120	134.47	34.20%
90-130	162.35	41.29%
90-150	188.01	47.82%
90-180	191.72	48.76%
0-113.79	314.55	80.00%

## ZONAL LUMEN SUMMARY

0-10	3.92
10-20	8.90
20-30	14.71
30-40	19.98
40-50	26.00
50-60	31.70
60-70	36.88
70-80	39.24
80-90	41.27
90-100	40.78
100-110	37.45
110-120	35.08
120-130	27.88
130-140	17.74
140-150	7.92
150-160	2.55
160-170	1.04
170-180	0.12



C180(Max): —————

C0/C180: —————

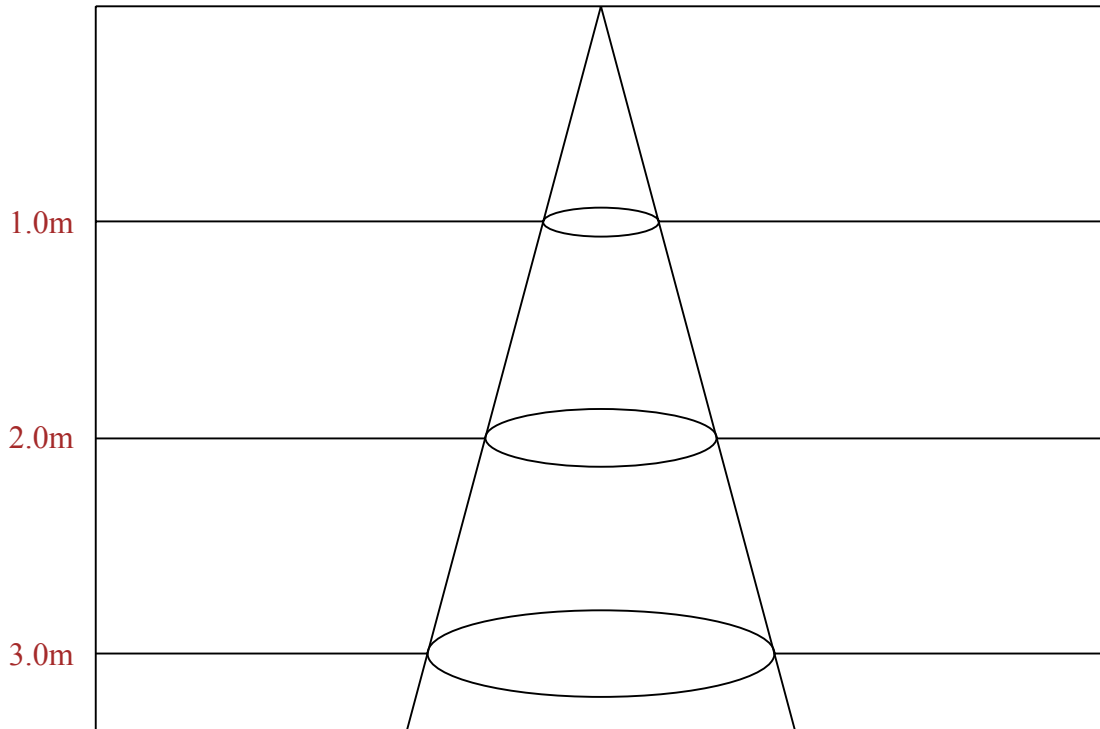
C90/C270: —————

Field angle(10%Imax):C0/180Left:102.9 Right:243.1

:C90/270Left:248.3 Right:93.6

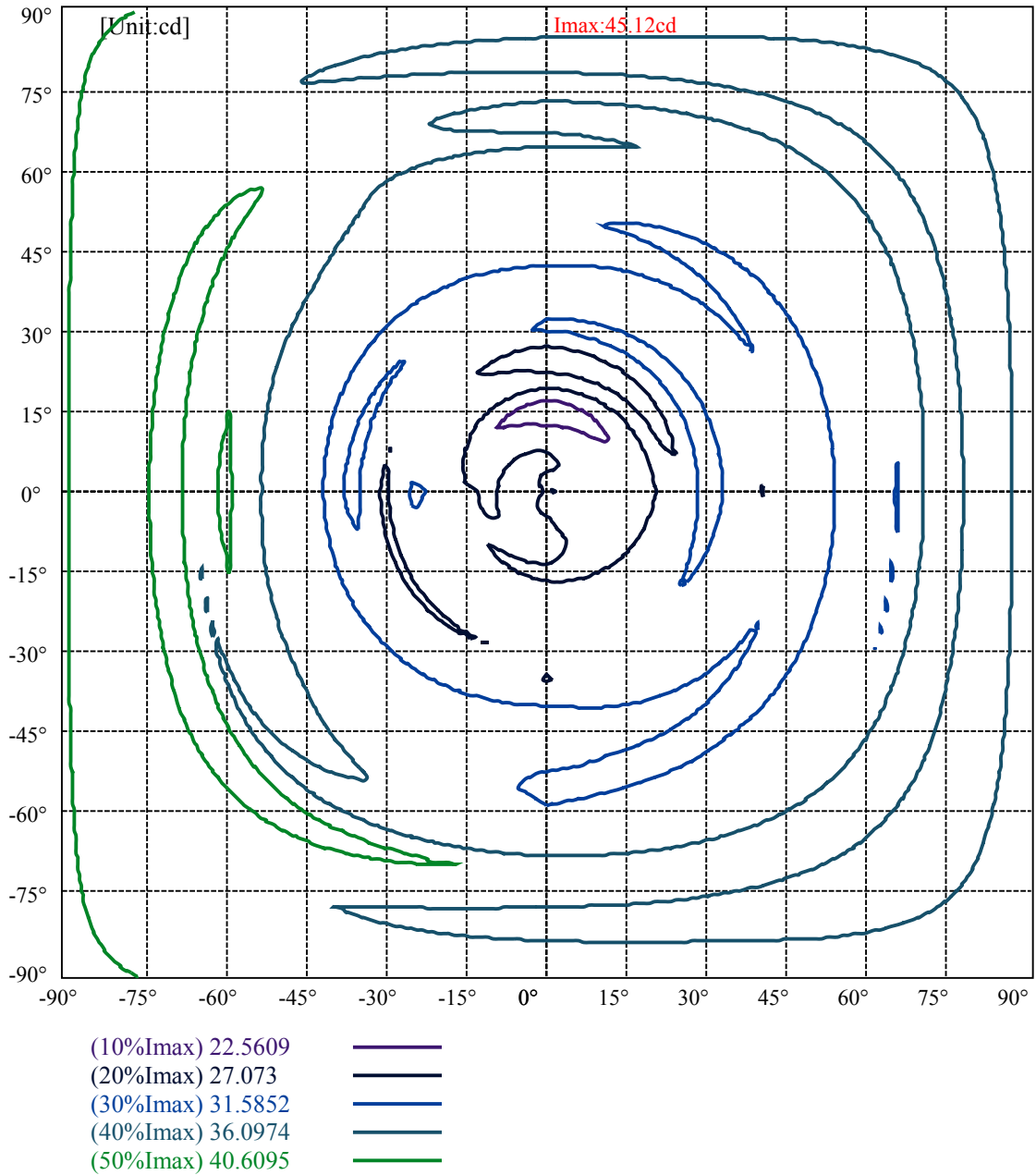
Beam Angle(50%Imax):C0/180Left:68.3 Right:210.9

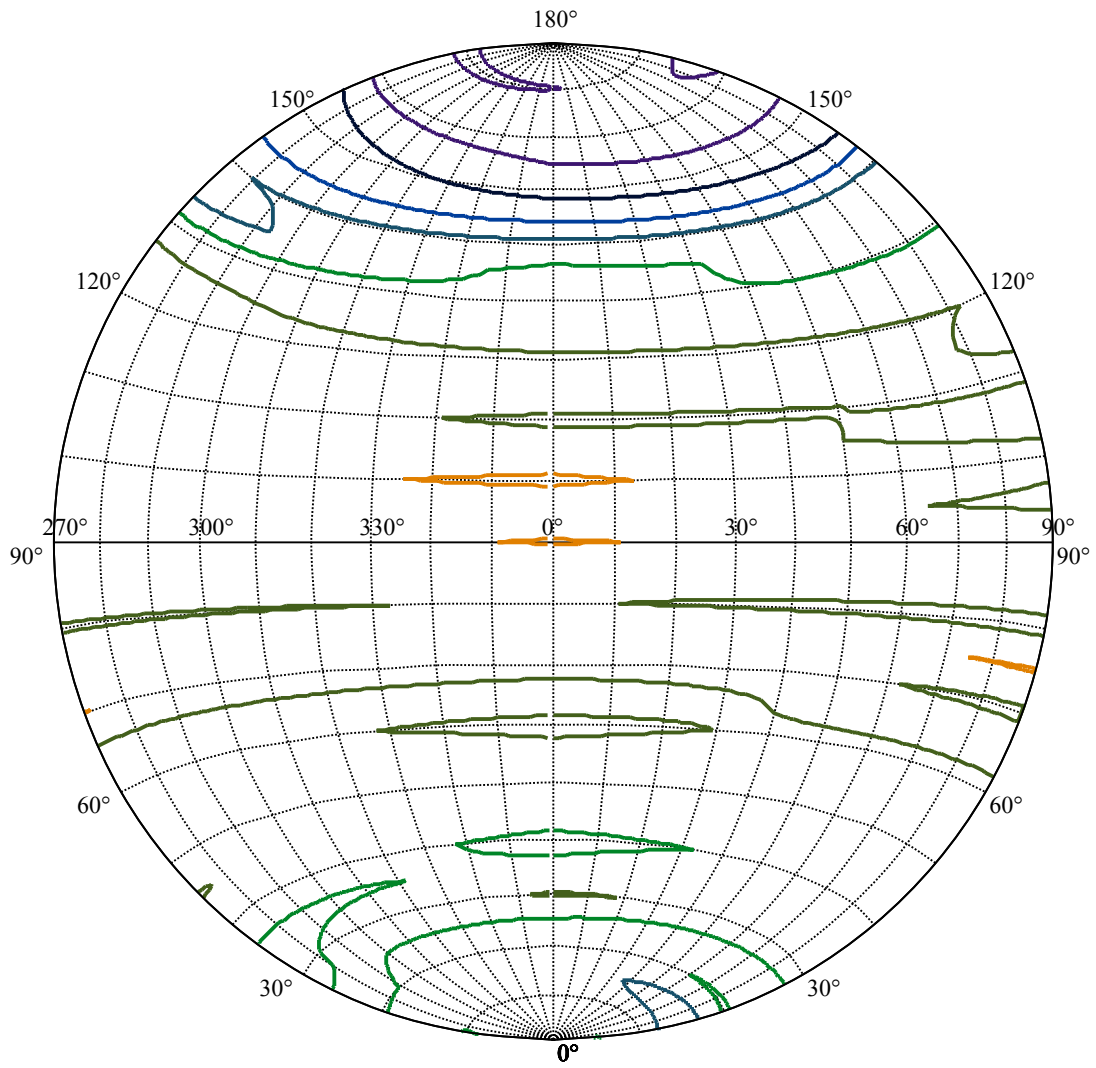
:C90/270Left:217.0 Right:66.1



Max , Ave      Beam angle of C180 plane 296.78

ISO-Intensity(V-H)





House

[Unit:cd]

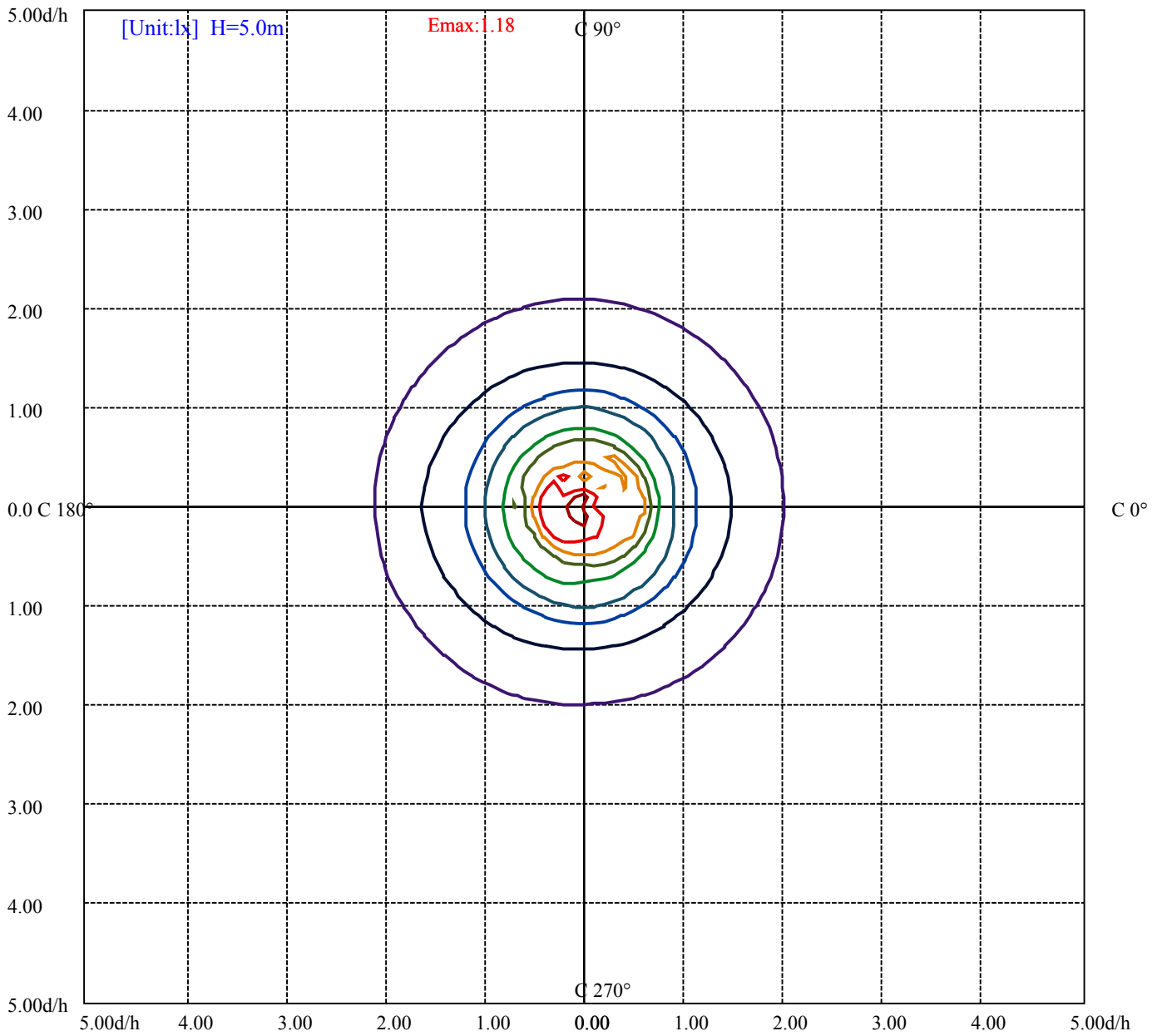
Road

I<sub>max</sub>:45.12

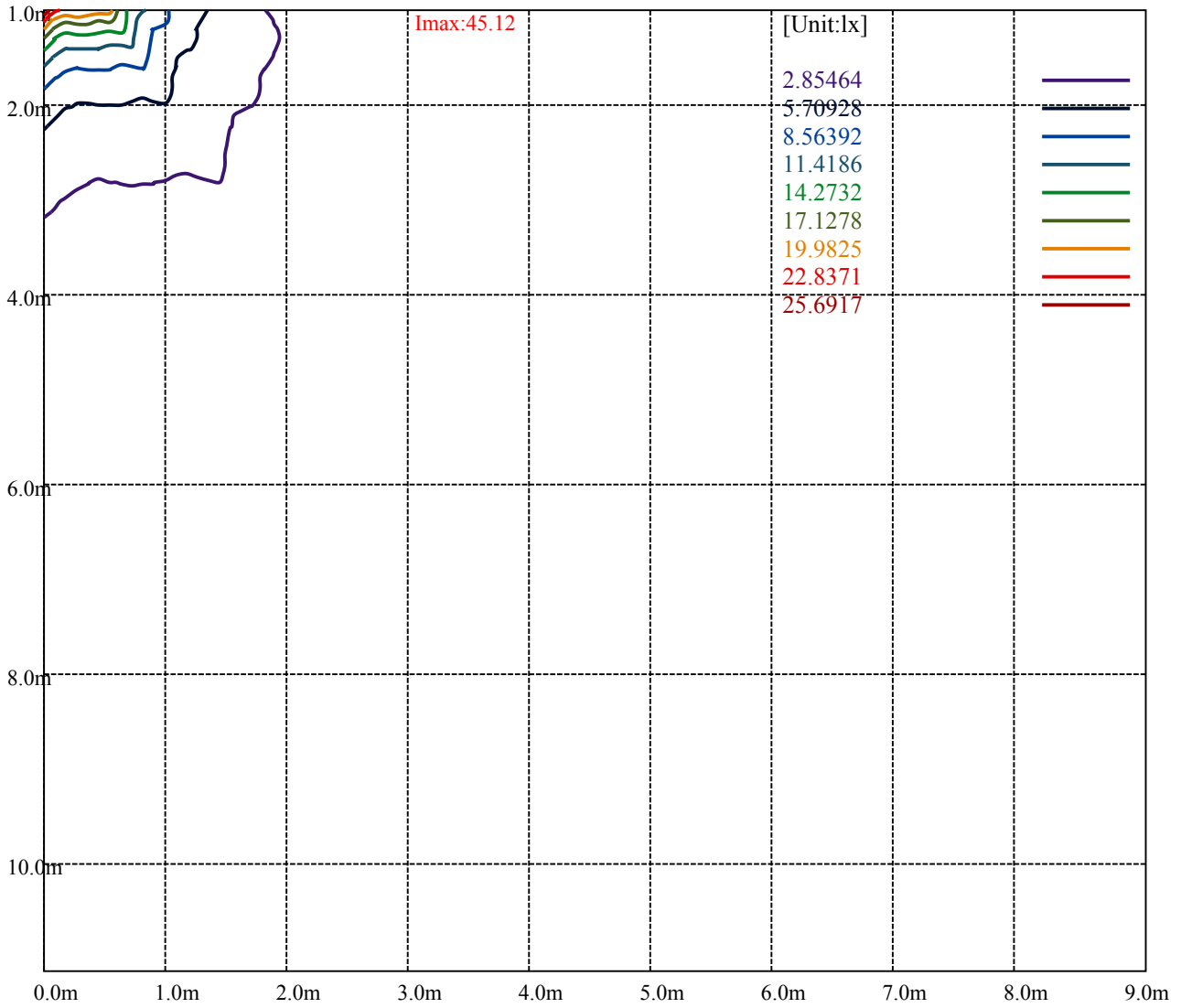
- (10%I<sub>max</sub>) 5.64789
- (20%I<sub>max</sub>) 11.2958
- (30%I<sub>max</sub>) 16.9437
- (40%I<sub>max</sub>) 22.5915
- (50%I<sub>max</sub>) 28.2394
- (60%I<sub>max</sub>) 33.8873
- (70%I<sub>max</sub>) 39.5352







- (10%Emax) 0.1175152 ———
- (20%Emax) 0.23503 ———
- (30%Emax) 0.3525452 ———
- (40%Emax) 0.47006 ———
- (50%Emax) 0.587576 ———
- (60%Emax) 0.705092 ———
- (70%Emax) 0.822604 ———
- (80%Emax) 0.94012 ———
- (90%Emax) 1.057636 ———



Luminance Table

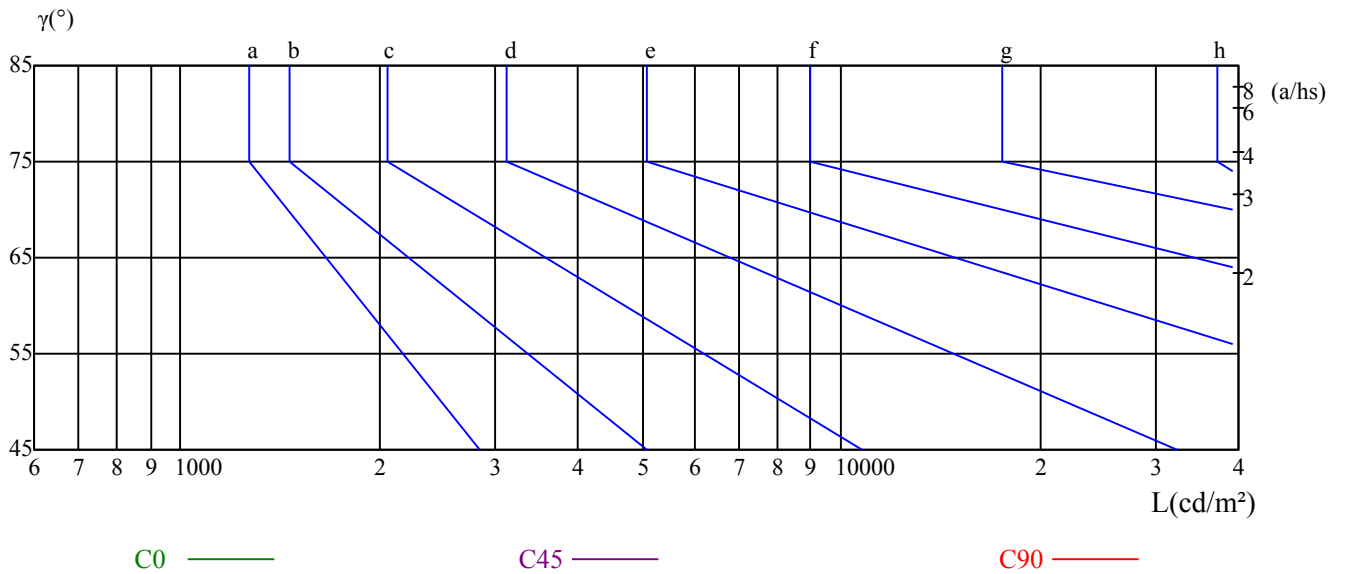
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

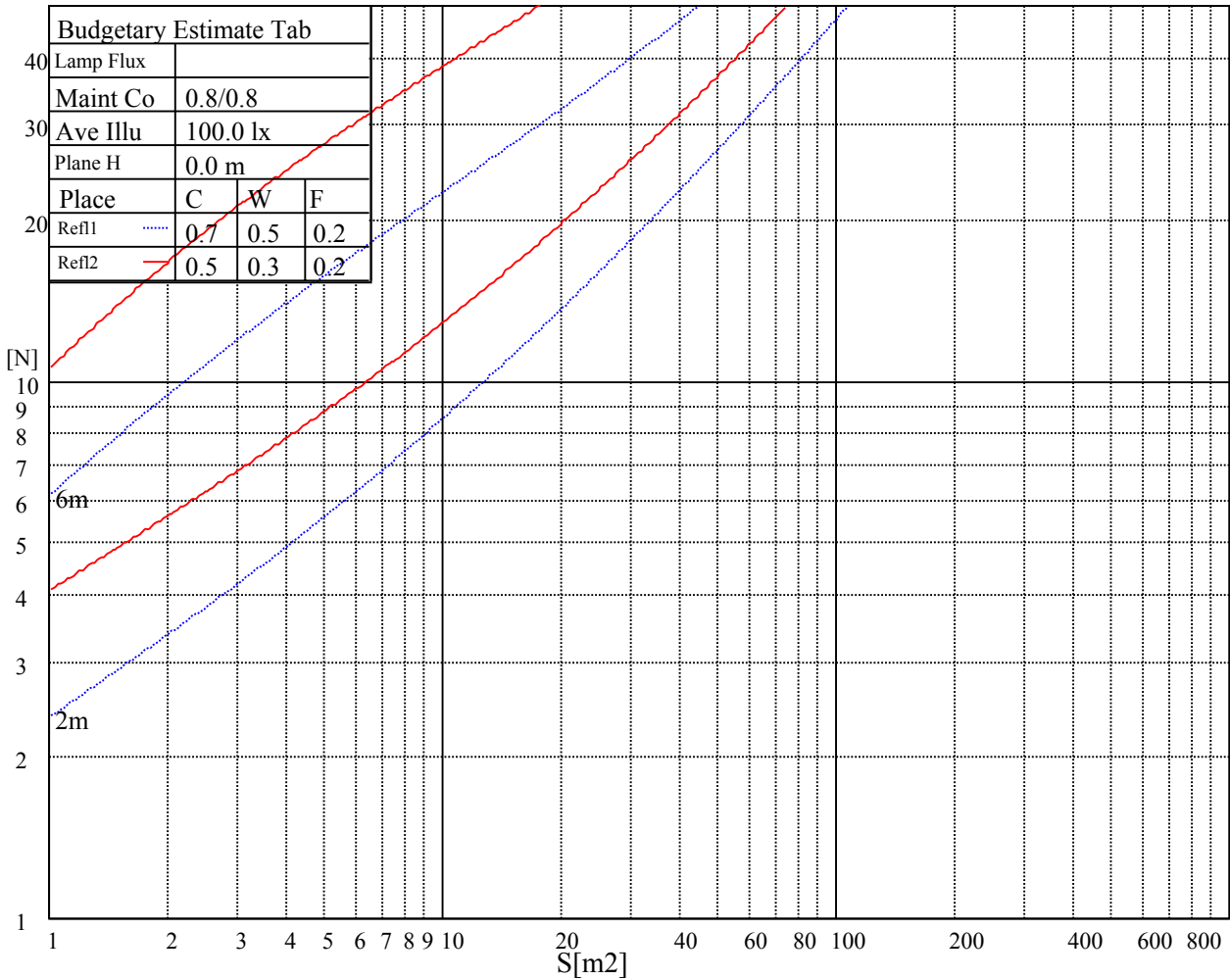
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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	1.08	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	0.54	0.52	0.46	0.44	0.42	0.37
2	0.75	0.67	0.60	0.69	0.62	0.56	0.58	0.52	0.47	0.47	0.43	0.40	0.38	0.35	0.32	0.27
3	0.64	0.55	0.48	0.59	0.51	0.44	0.49	0.43	0.38	0.40	0.36	0.31	0.32	0.28	0.25	0.21
4	0.56	0.46	0.39	0.51	0.43	0.36	0.43	0.36	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	0.30	0.38	0.31	0.26	0.31	0.26	0.22	0.25	0.21	0.17	0.14
6	0.44	0.34	0.28	0.40	0.32	0.26	0.34	0.27	0.22	0.28	0.22	0.18	0.22	0.18	0.15	0.12
7	0.39	0.30	0.24	0.36	0.28	0.22	0.30	0.24	0.19	0.25	0.20	0.16	0.20	0.16	0.13	0.10
8	0.35	0.27	0.21	0.33	0.25	0.20	0.28	0.21	0.17	0.23	0.18	0.14	0.18	0.14	0.11	0.09
9	0.32	0.24	0.18	0.30	0.22	0.17	0.25	0.19	0.15	0.21	0.16	0.12	0.17	0.13	0.10	0.08
10	0.29	0.22	0.16	0.27	0.20	0.15	0.23	0.17	0.13	0.19	0.14	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	23.94	22.71	25.17	27.01	27.63	34.38	29.16	27.01
90.0	23.02	28.55	25.48	18.72	28.85	24.25	31.92	31.00	30.39
180.0	28.55	30.39	26.40	27.63	31.31	31.92	26.09	32.23	31.00
270.0	23.02	27.32	28.55	26.40	28.55	28.55	27.32	27.01	31.92
360.0	28.55	23.94	22.71	25.17	27.01	27.63	34.38	29.16	27.01
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	30.70	29.47	32.54	34.99	31.31	36.22	37.75	34.07	34.69
90.0	33.76	31.92	31.92	31.62	37.45	32.84	39.90	32.54	36.83
180.0	33.15	32.84	38.68	41.75	36.22	45.12	38.98	39.29	38.37
270.0	34.07	31.92	31.00	31.92	32.54	39.60	37.75	33.46	37.45
360.0	30.70	29.47	32.54	34.99	31.31	36.22	37.75	34.07	34.69
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	39.90	36.53	40.21	37.14	32.84	38.37	35.30	29.47	28.85
90.0	36.83	32.84	35.61	31.31	34.69	33.15	33.76	32.23	27.63
180.0	41.44	38.68	39.60	41.75	34.38	38.37	37.75	36.53	34.38
270.0	36.22	39.29	37.75	36.83	37.75	35.91	36.22	35.91	31.31
360.0	39.90	36.53	40.21	37.14	32.84	38.37	35.30	29.47	28.85
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	29.77	24.25	15.35	9.21	5.53	2.76	1.84	5.83	3.68
90.0	25.48	22.41	11.36	8.59	3.68	5.53	6.45	3.07	0.00
180.0	26.40	20.57	20.87	9.82	11.36	3.07	4.30	5.22	3.99
270.0	19.95	22.41	16.27	14.73	11.36	3.68	2.46	7.06	2.46
360.0	29.77	24.25	15.35	9.21	5.53	2.76	1.84	5.83	3.68
C/γ(°)	180.0								
0.0	1.84								
90.0	1.53								
180.0	1.84								
270.0	1.53								
360.0	1.84								