



NATA LIGHTING CO.,LTD.  
www.nata.cn  
Email:info@nata.com  
Tel:+86-750-3770000 Fax:+86-750-3771111  
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

---

## Nata

---

### Client:

LumCAT: 1-1061-N

Luminaire: 92.70.246.00

Report No: 200826-B013

Test No: 200826-C013

LampCAT: LUMINUS CXM-9-AC40

Lamp flux(lm): 1460.9

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V):

Current(A):

Power (W): 10.1090

PF:

Ballast type:

Width(mm): 0

Height(mm): 0

---

## Photometric Results

---

Lumens(lm): 1213.07, Efficiency(%): 83.03% , Luminous Efficacy(lm/W): 120.00

Central intensity(cd): 4817.391, Maximum intensity(cd): 4817.391

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.6

[C90/270]Total=24.6

Field angle(10%Imax): [C0/180]Total=51.8

[C90/270]Total=51.8

Maximum s/h(1/2): C0\_180=0.41 C90\_270=0.41

Maximum s/h(1/4): C0\_180=0.43 C90\_270=0.43

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.03%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 98.077%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4817.391	0.000	0	.000%	.000%
1.0	4794.188	4.599	4.599	.315%	.379%
2.0	4730.414	13.671	18.27	.936%	1.506%
3.0	4631.977	22.392	40.661	1.533%	3.352%
4.0	4493.672	30.546	71.208	2.091%	5.870%
5.0	4309.594	37.871	109.079	2.592%	8.992%
6.0	4094.719	44.167	153.246	3.023%	12.633%
7.0	3849.680	49.311	202.557	3.375%	16.698%
8.0	3594.938	53.280	255.836	3.647%	21.090%
9.0	3310.031	55.961	311.797	3.831%	25.703%
10.0	3024.914	57.329	369.126	3.924%	30.429%
11.0	2751.047	57.714	426.84	3.951%	35.187%
12.0	2487.797	57.268	484.108	3.920%	39.908%
13.0	2217.024	55.834	539.942	3.822%	44.510%
14.0	1977.188	53.686	593.628	3.675%	48.936%
15.0	1766.321	51.393	645.02	3.518%	53.172%
16.0	1575.703	48.970	693.99	3.352%	57.209%
17.0	1392.694	46.226	740.216	3.164%	61.020%
18.0	1237.423	43.365	783.581	2.968%	64.595%
19.0	1122.005	41.049	824.631	2.810%	67.979%
20.0	988.264	38.624	863.254	2.644%	71.163%
21.0	886.887	36.007	899.261	2.465%	74.131%
22.0	795.797	33.814	933.075	2.315%	76.918%
23.0	701.564	31.419	964.494	2.151%	79.508%
24.0	619.010	28.872	993.366	1.976%	81.888%
25.0	543.326	26.429	1019.795	1.809%	84.067%
26.0	472.374	23.976	1043.771	1.641%	86.043%
27.0	401.660	21.383	1065.155	1.464%	87.806%
28.0	344.208	18.884	1084.038	1.293%	89.363%
29.0	275.063	16.202	1100.24	1.109%	90.699%
30.0	220.760	13.387	1113.627	.916%	91.802%
31.0	179.128	11.128	1124.756	.762%	92.719%
32.0	128.679	8.818	1133.574	.604%	93.446%
33.0	96.898	6.646	1140.22	.455%	93.994%
34.0	74.496	5.187	1145.406	.355%	94.422%
35.0	60.005	4.177	1149.584	.286%	94.766%
36.0	50.928	3.532	1153.116	.242%	95.057%
37.0	44.803	3.122	1156.238	.214%	95.315%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	39.396	2.810	1159.048	.192%	95.546%
39.0	34.566	2.525	1161.573	.173%	95.754%
40.0	31.114	2.291	1163.863	.157%	95.943%
41.0	28.069	2.107	1165.971	.144%	96.117%
42.0	25.320	1.940	1167.911	.133%	96.277%
43.0	23.098	1.794	1169.704	.123%	96.425%
44.0	21.220	1.673	1171.377	.114%	96.563%
45.0	19.498	1.565	1172.942	.107%	96.692%
46.0	18.070	1.469	1174.411	.101%	96.813%
47.0	16.763	1.385	1175.796	.095%	96.927%
48.0	15.708	1.313	1177.109	.090%	97.035%
49.0	14.745	1.251	1178.359	.086%	97.138%
50.0	13.845	1.192	1179.551	.082%	97.237%
51.0	13.142	1.142	1180.693	.078%	97.331%
52.0	12.551	1.102	1181.796	.075%	97.422%
53.0	11.960	1.066	1182.862	.073%	97.509%
54.0	11.510	1.034	1183.896	.071%	97.595%
55.0	11.138	1.011	1184.907	.069%	97.678%
56.0	10.828	0.993	1185.9	.068%	97.760%
57.0	10.540	0.977	1186.877	.067%	97.840%
58.0	10.336	0.965	1187.842	.066%	97.920%
59.0	10.139	0.957	1188.8	.066%	97.999%
60.0	9.928	0.948	1189.748	.065%	98.077%
61.0	9.760	0.940	1190.687	.064%	98.155%
62.0	9.542	0.930	1191.617	.064%	98.231%
63.0	9.345	0.919	1192.536	.063%	98.307%
64.0	9.155	0.908	1193.443	.062%	98.382%
65.0	8.916	0.894	1194.338	.061%	98.455%
66.0	8.705	0.879	1195.217	.060%	98.528%
67.0	8.508	0.865	1196.082	.059%	98.599%
68.0	8.318	0.852	1196.935	.058%	98.670%
69.0	8.107	0.838	1197.773	.057%	98.739%
70.0	7.973	0.826	1198.599	.057%	98.807%
71.0	7.784	0.814	1199.413	.056%	98.874%
72.0	7.615	0.801	1200.214	.055%	98.940%
73.0	7.496	0.790	1201.004	.054%	99.005%
74.0	7.369	0.781	1201.785	.053%	99.069%
75.0	7.228	0.771	1202.557	.053%	99.133%

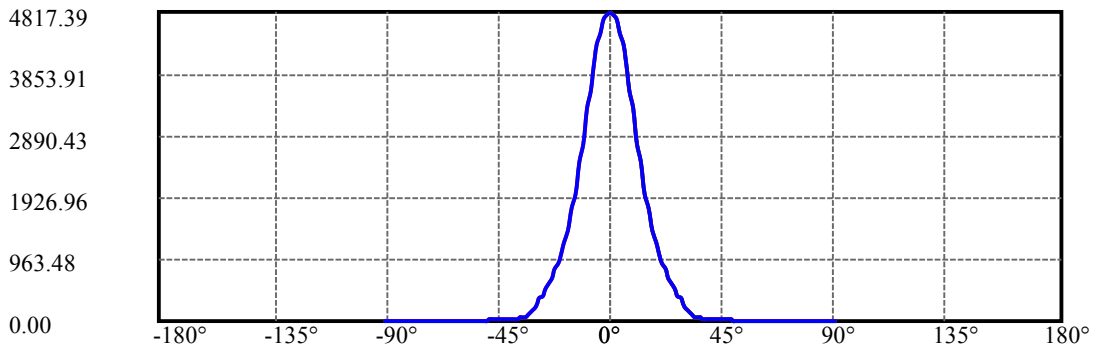
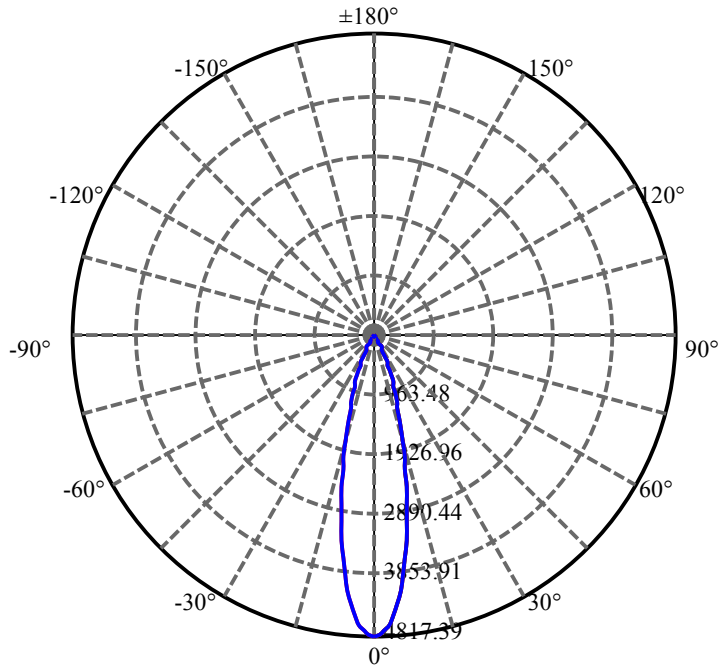
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.116	0.761	1203.318	.052%	99.196%
77.0	7.011	0.753	1204.071	.052%	99.258%
78.0	6.898	0.745	1204.816	.051%	99.319%
79.0	6.792	0.736	1205.551	.050%	99.380%
80.0	6.701	0.727	1206.279	.050%	99.440%
81.0	6.624	0.721	1206.999	.049%	99.499%
82.0	6.539	0.714	1207.713	.049%	99.558%
83.0	6.455	0.706	1208.419	.048%	99.616%
84.0	6.378	0.699	1209.118	.048%	99.674%
85.0	6.279	0.691	1209.809	.047%	99.731%
86.0	6.082	0.676	1210.485	.046%	99.787%
87.0	5.984	0.660	1211.145	.045%	99.841%
88.0	5.885	0.650	1211.795	.045%	99.895%
89.0	5.829	0.642	1212.437	.044%	99.948%
90.0	5.780	0.636	1213.074	.044%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1113.63	76.23%	91.80%
0-40	1163.86	79.67%	95.94%
0-60	1189.75	81.44%	98.08%
0-90	1212.44	82.99%	99.95%
0-120	1212.44	82.99%	99.95%
0-180	1213.07	83.03%	100.00%
60-90	23.64	1.62%	1.95%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-23.21	970.46	66.43%	80.00%

ZONAL LUMEN SUMMARY

0-10	369.13
10-20	494.13
20-30	250.37
30-40	50.24
40-50	15.69
50-60	10.20
60-70	8.85
70-80	7.68
80-90	6.16
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C0(Max): —————

C0/C180: —————

C90/C270: —————

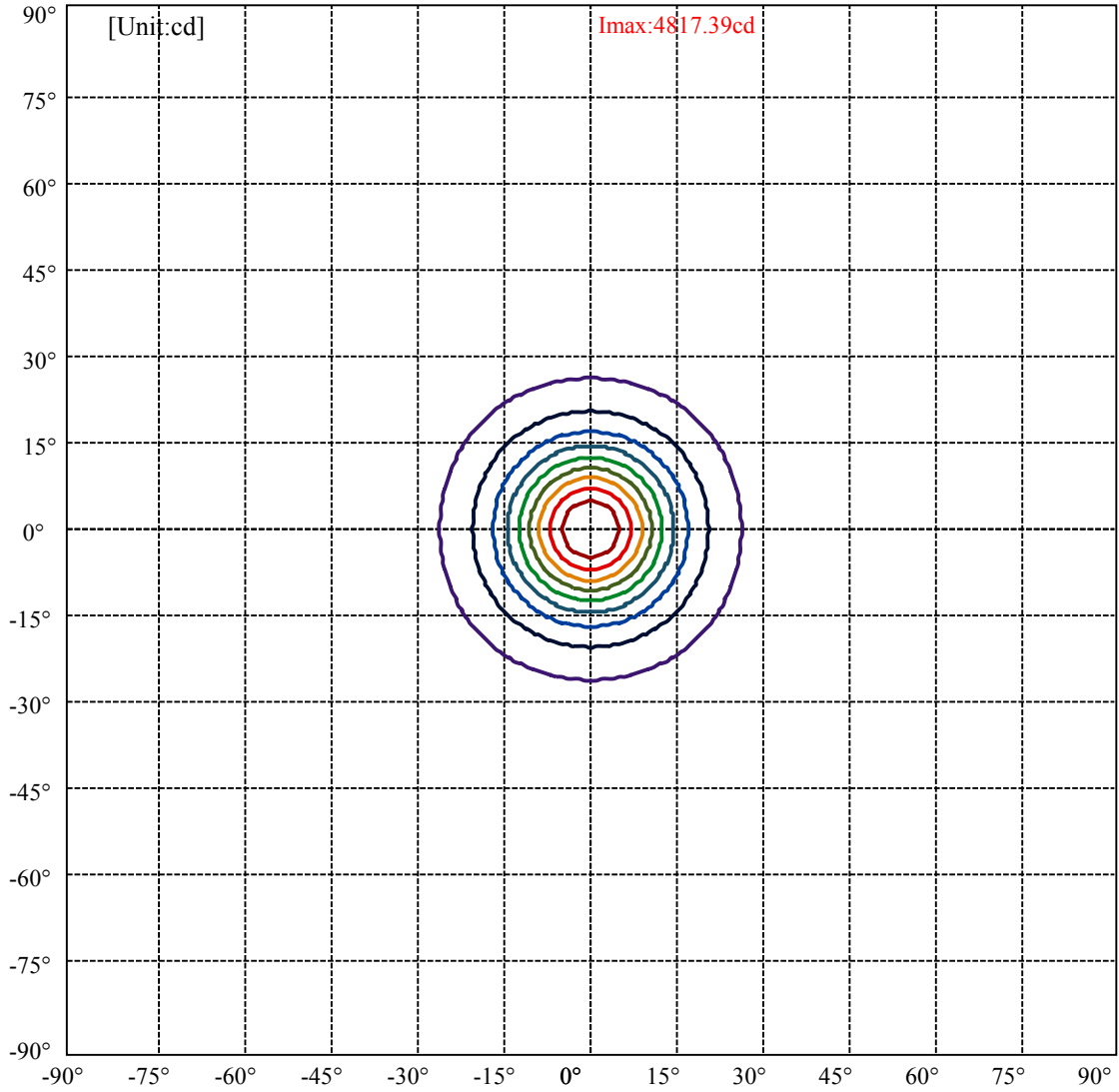
Field angle(10%Imax):C0/180Left:25.9 Right:25.9

:C90/270Left:25.9 Right:25.9

Beam Angle(50%Imax):C0/180Left:12.3 Right:12.3

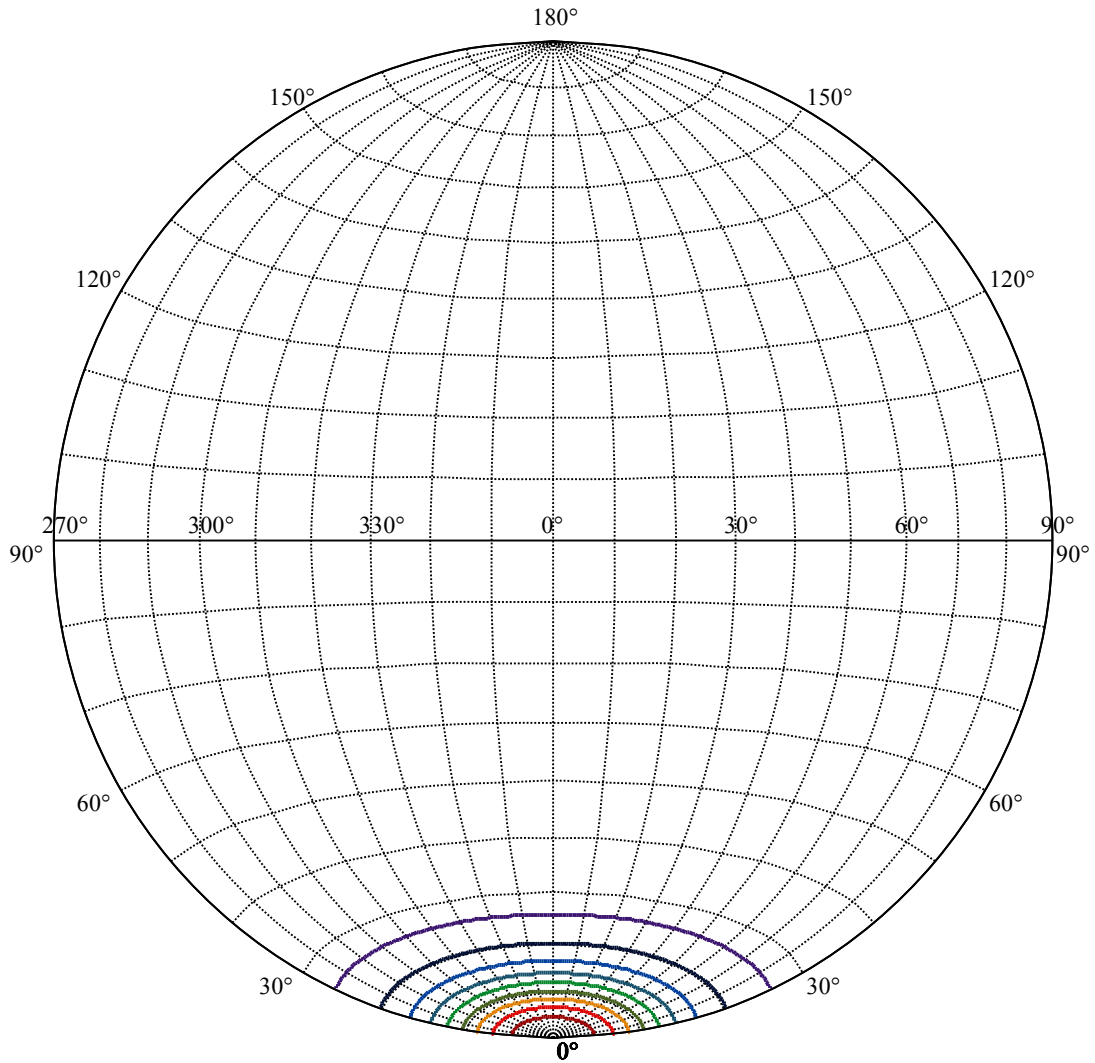
:C90/270Left:12.3 Right:12.3





(10%Imax) 481.739	—
(20%Imax) 963.478	—
(30%Imax) 1445.22	—
(40%Imax) 1926.96	—
(50%Imax) 2408.7	—
(60%Imax) 2890.43	—
(70%Imax) 3372.17	—
(80%Imax) 3853.91	—
(90%Imax) 4335.65	—





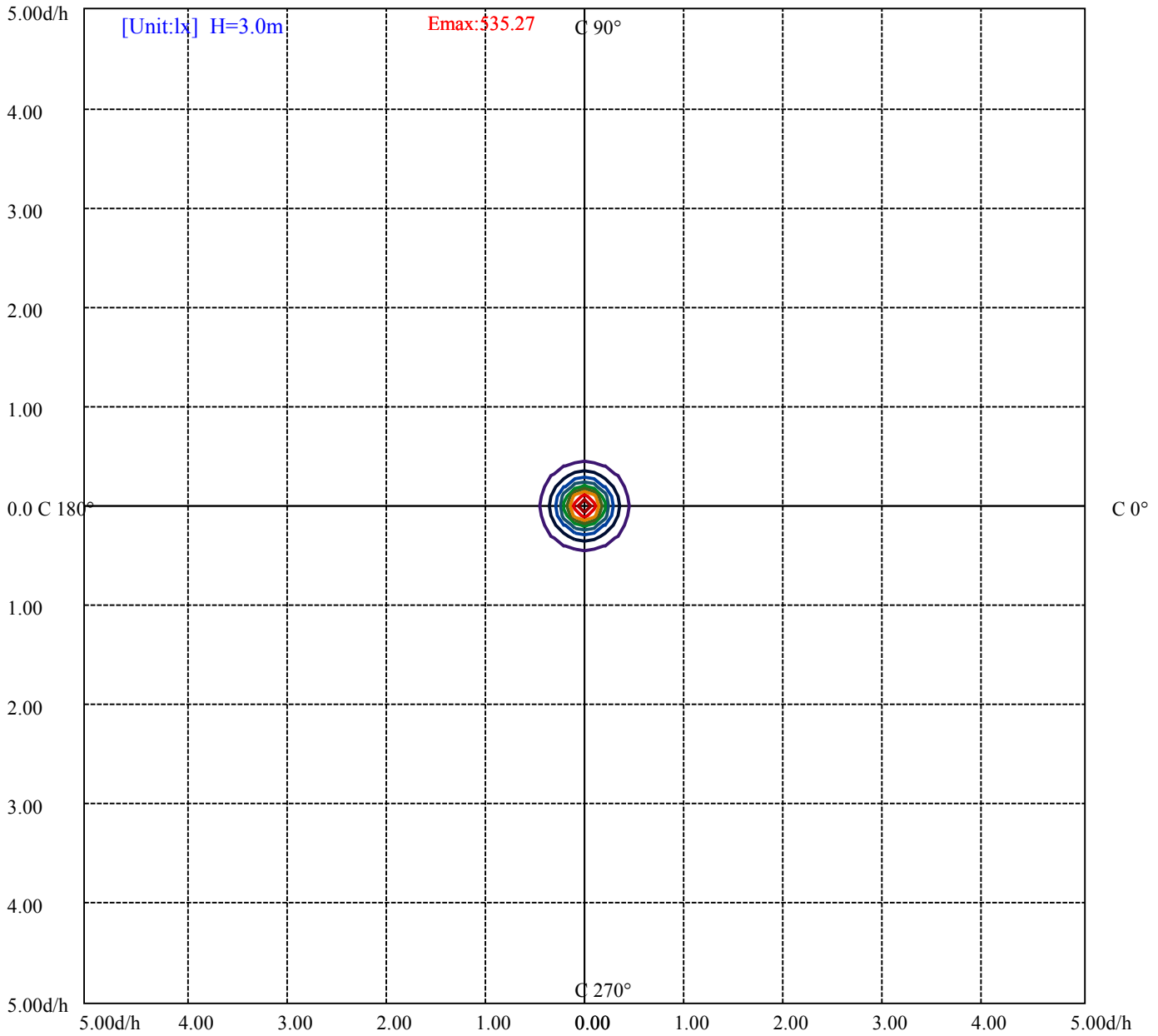
House

[Unit:cd]

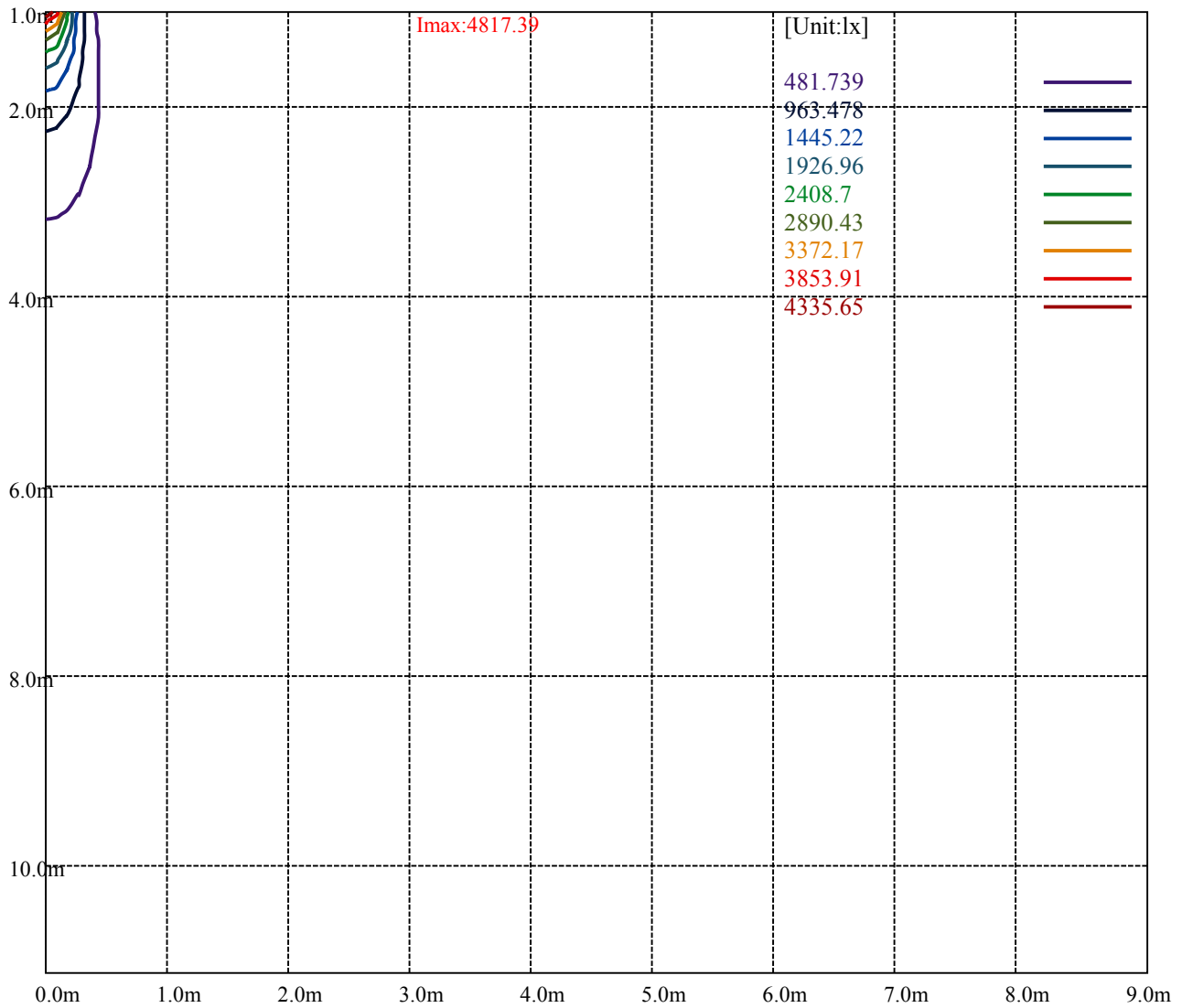
Road

**Imax:4817.39**

(10%Imax) 481.739	—
(20%Imax) 963.478	—
(30%Imax) 1445.22	—
(40%Imax) 1926.96	—
(50%Imax) 2408.7	—
(60%Imax) 2890.43	—
(70%Imax) 3372.17	—
(80%Imax) 3853.91	—
(90%Imax) 4335.65	—



- (10%Emax) 53.52656 ———
- (20%Emax) 107.053 ———
- (30%Emax) 160.58 ———
- (40%Emax) 214.1055 ———
- (50%Emax) 267.6322 ———
- (60%Emax) 321.1589 ———
- (70%Emax) 374.6855 ———
- (80%Emax) 428.2122 ———
- (90%Emax) 481.7389 ———



Luminance Table

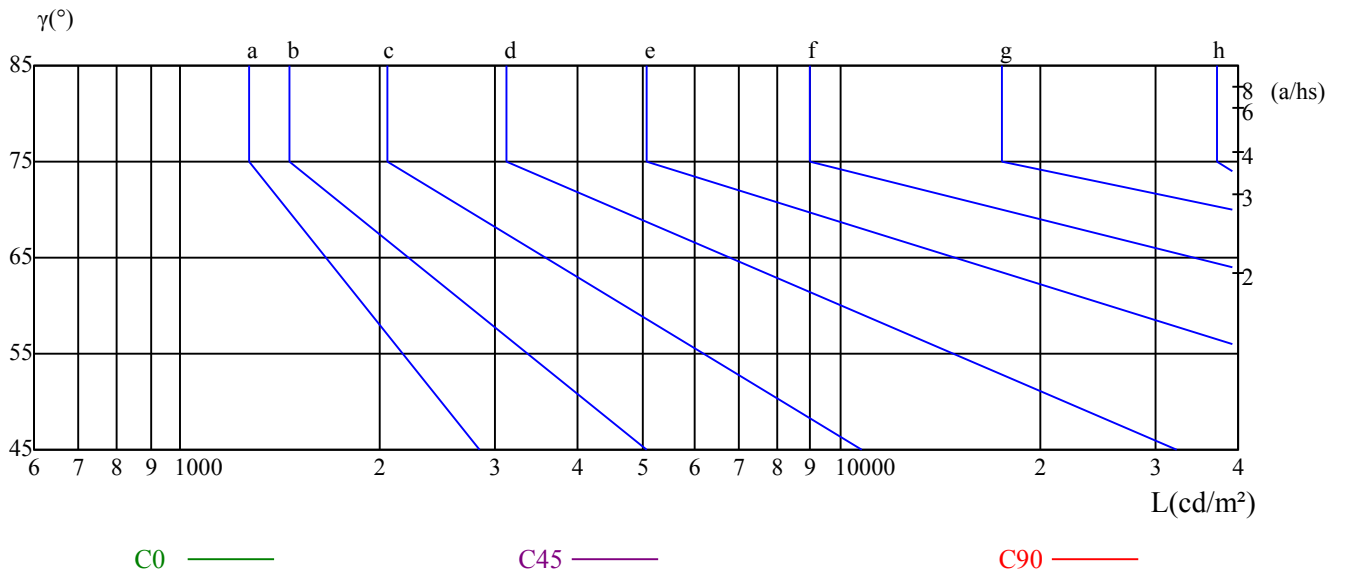
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

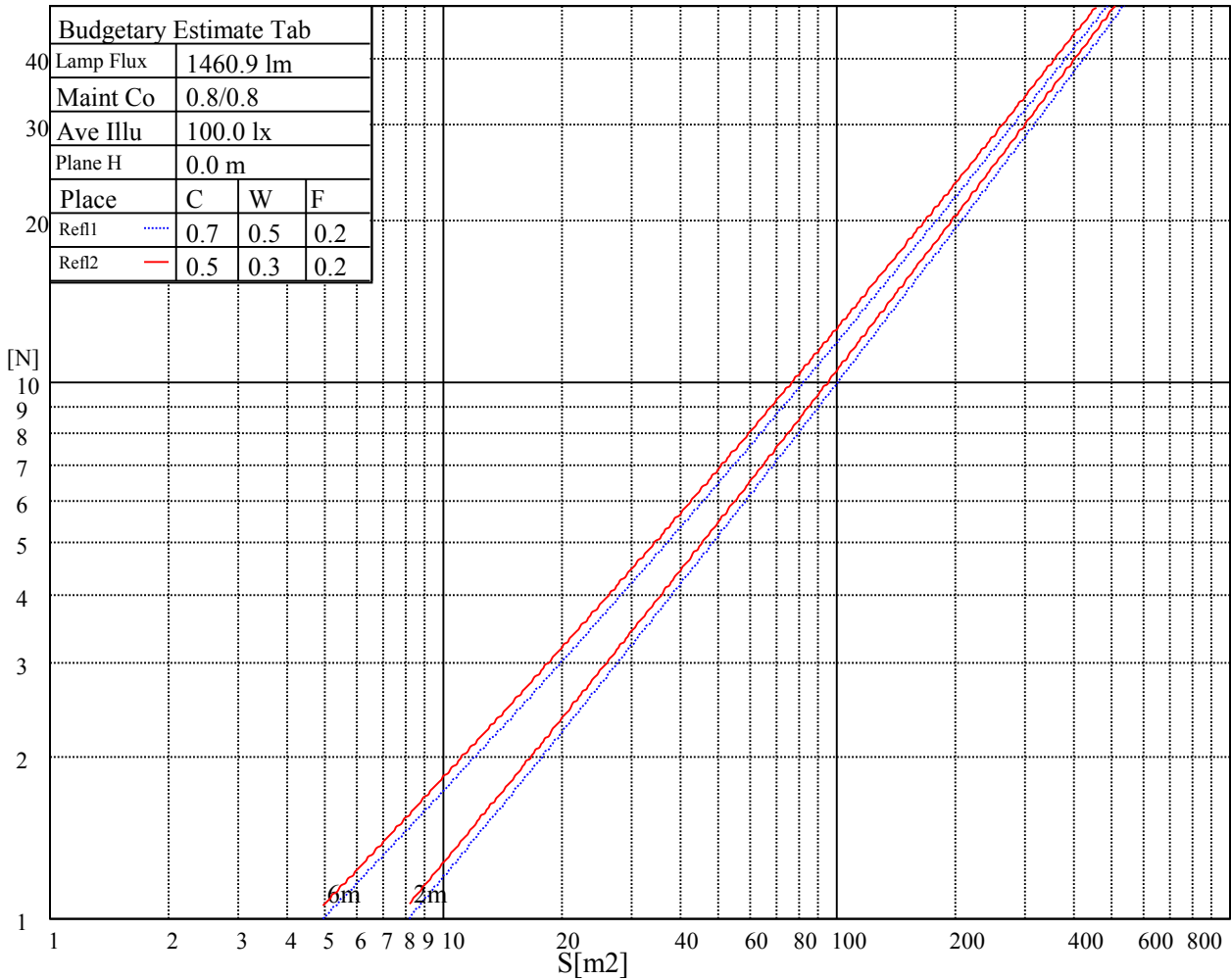
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

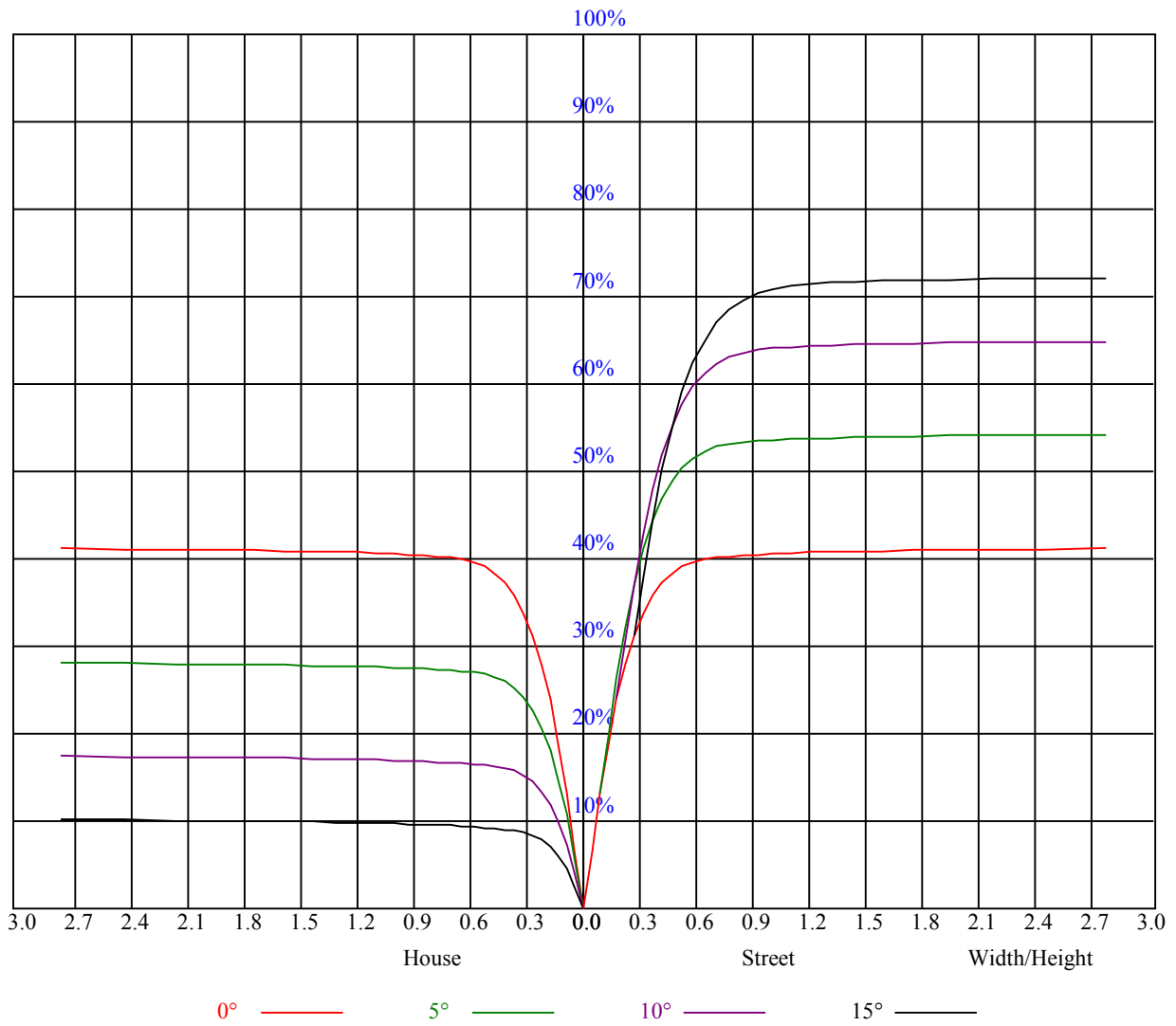


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:										
	S = 1.0H	非数字/非数字					非数字/非数字			
	S = 1.5H	非数字/非数字					非数字/非数字			
	S = 2.0H	非数字/非数字					非数字/非数字			
Standard tables:		BK0					BK0			
Uncorrected UGR		负无穷大					负无穷大			

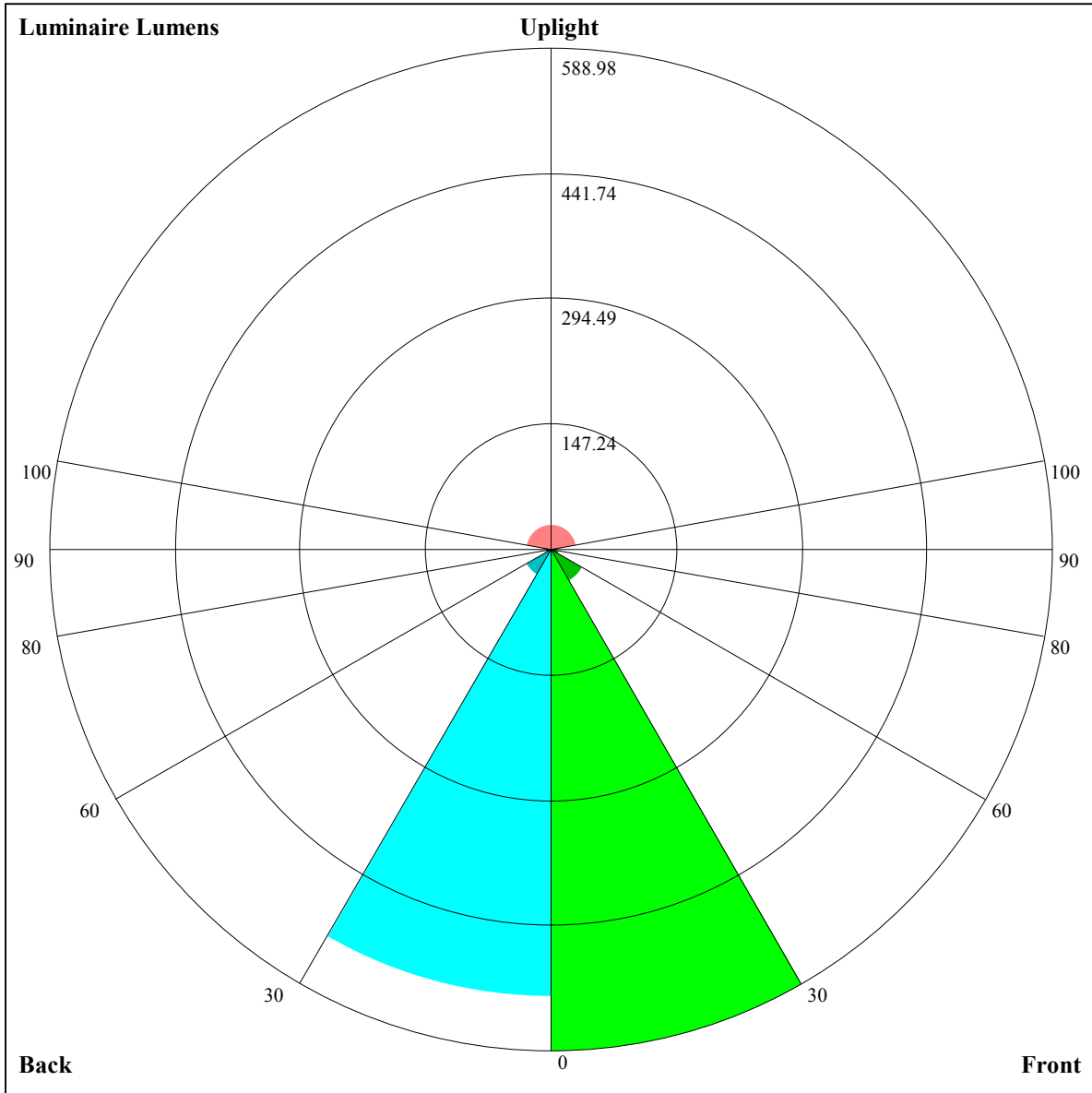
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	0.99	0.99	0.99	0.97	0.97	0.97	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.93	0.91	0.90	0.91	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.81	0.79
2	0.88	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.79	0.79	0.78	0.77	0.76
3	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.77	0.75	0.74	0.73
4	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.72	0.70	0.68	0.67
6	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.70	0.68	0.66	0.65
7	0.71	0.67	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63
8	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.62	0.61
9	0.66	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59
10	0.64	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57







Luminaire Lumens:

FL=588.98,FM=42.98,FH=8.37,FVH=3.45

BL=525.98,BM=34.89,BH=8.18,BVH=3.36

UL=6.31,UH=30.01

BUG Rating:B2-U2-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	4806.56	4850.44	4862.81	4831.88	4754.81	4627.69	4422.94	4228.31	4000.50
45.0	4833.00	4883.63	4898.25	4881.38	4813.88	4689.00	4533.75	4322.25	4073.06
90.0	4791.94	4855.50	4880.25	4867.88	4810.50	4683.38	4541.06	4374.56	4148.44
135.0	4838.06	4821.75	4765.50	4658.06	4534.88	4360.50	4142.25	3914.44	3665.25
180.0	4806.56	4698.56	4575.38	4418.44	4187.81	3998.25	3722.63	3426.75	3164.06
225.0	4833.00	4739.06	4570.88	4416.19	4228.88	3945.94	3696.75	3430.13	3165.19
270.0	4791.94	4692.94	4543.88	4350.38	4149.56	3879.00	3624.75	3327.19	3022.88
315.0	4838.06	4811.63	4746.38	4631.63	4469.06	4293.00	4073.63	3773.81	3520.13
360.0	4806.56	4850.44	4862.81	4831.88	4754.81	4627.69	4422.94	4228.31	4000.50
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3695.63	3439.13	3167.44	2871.56	2566.13	2313.00	2046.94	1829.25	1610.44
45.0	3822.75	3535.31	3227.06	2949.75	2673.00	2347.31	2108.81	1888.88	1665.00
90.0	3885.75	3634.31	3339.00	3074.06	2768.63	2467.69	2222.44	1963.13	1732.50
135.0	3348.00	3086.44	2812.50	2517.19	2242.13	2015.44	1783.69	1585.13	1428.19
180.0	2892.38	2563.88	2317.50	2085.19	1823.63	1640.25	1473.75	1328.06	1121.51
225.0	2831.63	2563.31	2309.63	2049.19	1810.13	1622.81	1436.06	1281.94	1161.56
270.0	2750.06	2457.56	2186.44	1962.56	1759.50	1537.31	1382.06	1247.06	1094.29
315.0	3254.06	2919.38	2648.81	2392.88	2093.06	1873.69	1676.81	1482.19	1328.06
360.0	3695.63	3439.13	3167.44	2871.56	2566.13	2313.00	2046.94	1829.25	1610.44
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1421.44	1281.94	1143.56	1018.69	919.69	826.31	725.06	654.75	580.50
45.0	1474.31	1326.94	1122.19	1050.47	944.72	838.18	749.98	669.15	590.51
90.0	1554.75	1400.06	1230.19	1110.38	1000.69	875.25	781.88	702.56	617.06
135.0	1267.88	1145.81	1019.25	902.81	803.81	703.69	620.44	541.69	474.75
180.0	1050.24	945.06	836.72	736.99	661.39	579.04	497.93	431.04	362.81
225.0	1036.13	936.56	831.38	735.75	655.31	581.06	500.06	432.00	377.44
270.0	985.84	885.38	770.79	693.84	622.29	531.62	471.54	400.95	328.84
315.0	1108.80	1054.29	952.03	846.17	758.48	677.36	605.19	514.46	447.08
360.0	1421.44	1281.94	1143.56	1018.69	919.69	826.31	725.06	654.75	580.50
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	498.94	424.69	364.50	300.38	286.88	184.22	132.58	97.71	74.98
45.0	519.92	451.69	373.39	313.76	255.38	188.49	141.75	104.18	75.83
90.0	531.56	460.13	389.81	331.88	284.63	222.58	161.10	113.91	87.07
135.0	394.88	330.75	289.13	222.41	163.80	119.76	86.68	63.00	55.35
180.0	306.45	246.88	190.41	143.55	104.74	72.73	61.09	53.61	45.45
225.0	296.44	288.56	181.29	130.11	93.21	69.98	56.81	49.16	42.69
270.0	280.86	227.87	158.34	120.21	86.18	63.45	56.03	48.88	42.30
315.0	384.24	323.10	253.63	203.79	158.23	108.23	79.14	65.53	56.36
360.0	498.94	424.69	364.50	300.38	286.88	184.22	132.58	97.71	74.98
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	64.01	55.97	48.99	41.91	37.52	33.69	29.70	27.06	24.86
45.0	63.28	55.24	47.76	41.68	37.18	33.02	29.87	26.94	24.36
90.0	67.39	58.67	51.53	43.99	39.04	34.93	30.66	27.79	25.48
135.0	48.88	42.69	37.46	33.64	30.04	27.23	24.64	22.33	20.53
180.0	40.22	35.78	31.61	28.13	25.54	23.18	21.38	19.74	18.28
225.0	37.58	33.24	29.64	26.38	24.19	22.33	20.25	18.79	17.55
270.0	37.13	33.19	29.53	26.55	24.36	22.22	20.53	18.84	17.49
315.0	48.94	43.65	38.64	34.26	31.05	27.96	25.54	23.29	21.21
360.0	64.01	55.97	48.99	41.91	37.52	33.69	29.70	27.06	24.86

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	22.50	20.53	19.01	17.55	16.37	15.24	14.34	13.61	12.83
45.0	22.39	20.64	18.73	17.55	16.37	15.13	14.23	13.56	12.83
90.0	22.89	21.09	19.58	18.06	16.71	15.69	14.68	13.89	13.22
135.0	18.96	17.49	16.48	15.58	14.40	13.67	13.05	12.32	11.76
180.0	17.10	15.92	14.96	14.18	13.56	12.77	12.26	11.87	11.36
225.0	16.20	15.36	14.46	13.67	12.99	12.43	11.87	11.48	10.97
270.0	16.37	15.36	14.29	13.56	12.94	12.21	11.76	11.31	10.91
315.0	19.58	18.17	16.59	15.53	14.63	13.61	12.94	12.38	11.81
360.0	22.50	20.53	19.01	17.55	16.37	15.24	14.34	13.61	12.83
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.26	11.76	11.42	11.08	10.74	10.58	10.29	10.18	9.90
45.0	12.21	11.76	11.31	11.03	10.69	10.46	10.24	10.13	9.84
90.0	12.49	12.04	11.59	11.19	10.91	10.63	10.35	10.13	10.01
135.0	11.36	10.91	10.63	10.35	10.13	9.96	9.84	9.62	9.39
180.0	11.08	10.80	10.52	10.29	10.18	10.01	9.79	9.62	9.39
225.0	10.74	10.46	10.29	10.07	10.01	9.79	9.56	9.45	9.23
270.0	10.63	10.41	10.24	9.96	9.90	9.73	9.51	9.39	9.17
315.0	11.31	10.97	10.63	10.35	10.13	9.96	9.84	9.56	9.39
360.0	12.26	11.76	11.42	11.08	10.74	10.58	10.29	10.18	9.90
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.73	9.62	9.34	9.11	8.94	8.66	8.49	8.33	8.04
45.0	9.62	9.51	9.28	9.06	8.83	8.61	8.33	8.27	7.99
90.0	9.79	9.56	9.34	9.11	8.94	8.78	8.49	8.33	8.16
135.0	9.28	9.06	8.83	8.61	8.38	8.21	8.04	7.93	7.71
180.0	9.17	8.94	8.72	8.49	8.33	8.16	7.93	7.82	7.71
225.0	9.00	8.83	8.61	8.38	8.21	8.04	7.82	7.71	7.54
270.0	8.94	8.78	8.49	8.33	8.16	7.99	7.82	7.71	7.54
315.0	9.23	8.94	8.72	8.55	8.27	8.10	7.93	7.71	7.59
360.0	9.73	9.62	9.34	9.11	8.94	8.66	8.49	8.33	8.04
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.93	7.76	7.65	7.54	7.43	7.31	7.26	7.14	7.09
45.0	7.82	7.71	7.54	7.43	7.31	7.14	7.03	6.92	6.81
90.0	7.93	7.82	7.71	7.54	7.37	7.31	7.14	7.03	6.92
135.0	7.59	7.43	7.26	7.14	7.03	6.92	6.75	6.69	6.58
180.0	7.48	7.37	7.26	7.09	7.03	6.86	6.81	6.64	6.58
225.0	7.37	7.31	7.20	6.98	6.86	6.81	6.69	6.58	6.47
270.0	7.37	7.26	7.14	7.03	6.92	6.86	6.75	6.64	6.58
315.0	7.43	7.31	7.20	7.09	6.98	6.86	6.75	6.69	6.58
360.0	7.93	7.76	7.65	7.54	7.43	7.31	7.26	7.14	7.09
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.03	6.92	6.86	6.98	7.09	6.19	6.13	5.96	5.91
45.0	6.69	6.64	6.53	6.41	6.36	6.24	6.13	6.02	5.96
90.0	6.81	6.69	6.64	6.47	6.41	6.36	6.24	6.13	6.08
135.0	6.41	6.36	6.24	6.13	6.08	5.96	5.91	5.79	5.74
180.0	6.64	6.58	6.53	6.41	5.96	5.91	5.79	5.68	5.63
225.0	6.41	6.30	6.24	6.13	6.08	5.96	5.85	5.79	5.79
270.0	6.53	6.41	6.30	6.24	6.13	6.02	5.91	5.85	5.85
315.0	6.47	6.41	6.30	6.24	6.13	6.02	5.91	5.85	5.68
360.0	7.03	6.92	6.86	6.98	7.09	6.19	6.13	5.96	5.91

Intensity data(cd)

<b>C/γ(°)</b>	<b>90.0</b>
<b>0.0</b>	<b>5.74</b>
<b>45.0</b>	<b>5.85</b>
<b>90.0</b>	<b>6.02</b>
<b>135.0</b>	<b>5.68</b>
<b>180.0</b>	<b>5.68</b>
<b>225.0</b>	<b>5.74</b>
<b>270.0</b>	<b>5.85</b>
<b>315.0</b>	<b>5.68</b>
<b>360.0</b>	<b>5.74</b>