



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

Nata

Client:

LumCAT: 2-2565-L

Luminaire: 92.70.412.00

Report No: 2024819-B003

Ballast type: AC

Test No: 2024819-C003

Voltage(V): 36.630

LampCAT: CREE CXA1830 LES14

Current(A): 0.795

Lamp flux(lm): 3681.0

Power (W): 29.120

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 3361.16, Efficiency(%): 91.31% , Luminous Efficacy(lm/W): 115.42

Central intensity(cd): 10303.490, Maximum intensity(cd): 10303.490

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=26.0

[C90/270]Total=26.0

Field angle(10%Imax): [C0/180]Total=62.4

[C90/270]Total=62.4

Maximum s/h(1/2): C0_180=0.43 C90_270=0.43

Maximum s/h(1/4): C0_180=0.49 C90_270=0.49

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.31%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.231%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10303.485	0.000	0	0.00%	0.00%
1.0	10258.216	9.838	9.838	0.27%	0.29%
2.0	10092.466	29.209	39.048	0.79%	1.16%
3.0	9848.149	47.691	86.739	1.30%	2.58%
4.0	9507.229	64.789	151.528	1.76%	4.51%
5.0	9086.361	79.989	231.516	2.17%	6.89%
6.0	8621.130	93.058	324.574	2.53%	9.66%
7.0	8161.682	104.171	428.744	2.83%	12.76%
8.0	7621.024	112.954	541.698	3.07%	16.12%
9.0	7100.353	119.309	661.007	3.24%	19.67%
10.0	6570.562	123.717	784.724	3.36%	23.35%
11.0	6052.756	126.133	910.857	3.43%	27.10%
12.0	5578.458	127.146	1038.003	3.45%	30.88%
13.0	5156.000	127.391	1165.393	3.46%	34.67%
14.0	4716.394	126.366	1291.759	3.43%	38.43%
15.0	4321.708	124.079	1415.838	3.37%	42.12%
16.0	3997.588	121.901	1537.739	3.31%	45.75%
17.0	3635.216	118.863	1656.603	3.23%	49.29%
18.0	3386.175	115.768	1772.37	3.15%	52.73%
19.0	3109.611	113.013	1885.383	3.07%	56.09%
20.0	2872.961	109.498	1994.881	2.97%	59.35%
21.0	2651.896	106.088	2100.97	2.88%	62.51%
22.0	2463.230	102.791	2203.76	2.79%	65.57%
23.0	2281.745	99.562	2303.323	2.70%	68.53%
24.0	2115.279	96.135	2399.457	2.61%	71.39%
25.0	1968.544	92.857	2492.315	2.52%	74.15%
26.0	1812.460	89.251	2581.566	2.42%	76.81%
27.0	1661.967	85.003	2666.568	2.31%	79.33%
28.0	1478.885	79.520	2746.088	2.16%	81.70%
29.0	1362.473	74.338	2820.426	2.02%	83.91%
30.0	1199.371	69.169	2889.595	1.88%	85.97%
31.0	1061.611	62.920	2952.515	1.71%	87.84%
32.0	929.456	57.042	3009.557	1.55%	89.54%
33.0	790.579	50.673	3060.23	1.38%	91.05%
34.0	661.972	43.958	3104.188	1.19%	92.35%
35.0	544.153	37.458	3141.646	1.02%	93.47%
36.0	445.362	31.506	3173.152	0.86%	94.41%
37.0	357.254	26.177	3199.329	0.71%	95.19%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	292.385	21.684	3221.013	0.59%	95.83%
39.0	231.236	17.873	3238.886	0.49%	96.36%
40.0	185.920	14.549	3253.435	0.40%	96.79%
41.0	157.339	12.223	3265.658	0.33%	97.16%
42.0	107.379	9.618	3275.276	0.26%	97.44%
43.0	87.372	7.214	3282.49	0.20%	97.66%
44.0	70.894	5.973	3288.463	0.16%	97.84%
45.0	60.690	5.057	3293.52	0.14%	97.99%
46.0	52.221	4.416	3297.936	0.12%	98.12%
47.0	45.710	3.895	3301.831	0.11%	98.23%
48.0	40.631	3.490	3305.321	0.09%	98.34%
49.0	36.643	3.173	3308.494	0.09%	98.43%
50.0	33.489	2.924	3311.418	0.08%	98.52%
51.0	31.064	2.731	3314.15	0.07%	98.60%
52.0	29.218	2.587	3316.736	0.07%	98.68%
53.0	27.733	2.477	3319.214	0.07%	98.75%
54.0	26.715	2.400	3321.614	0.07%	98.82%
55.0	25.920	2.350	3323.963	0.06%	98.89%
56.0	25.315	2.315	3326.278	0.06%	98.96%
57.0	24.941	2.298	3328.576	0.06%	99.03%
58.0	24.396	2.281	3330.858	0.06%	99.10%
59.0	23.804	2.253	3333.111	0.06%	99.17%
60.0	23.036	2.213	3335.324	0.06%	99.23%
61.0	22.096	2.154	3337.478	0.06%	99.30%
62.0	20.716	2.063	3339.541	0.06%	99.36%
63.0	19.369	1.950	3341.49	0.05%	99.41%
64.0	17.917	1.830	3343.32	0.05%	99.47%
65.0	16.110	1.684	3345.004	0.05%	99.52%
66.0	14.770	1.541	3346.544	0.04%	99.57%
67.0	13.292	1.411	3347.956	0.04%	99.61%
68.0	11.912	1.277	3349.232	0.03%	99.65%
69.0	10.769	1.157	3350.389	0.03%	99.68%
70.0	9.757	1.054	3351.443	0.03%	99.71%
71.0	8.909	0.965	3352.408	0.03%	99.74%
72.0	8.233	0.891	3353.3	0.02%	99.77%
73.0	7.668	0.831	3354.131	0.02%	99.79%
74.0	7.089	0.776	3354.907	0.02%	99.81%
75.0	6.597	0.723	3355.63	0.02%	99.84%

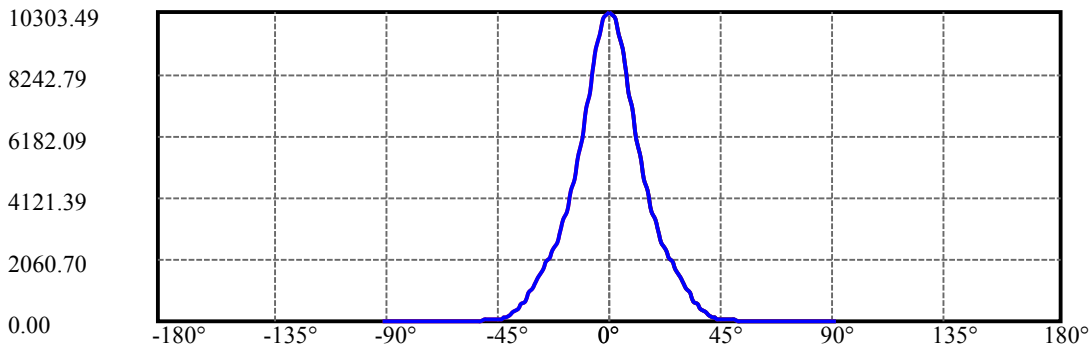
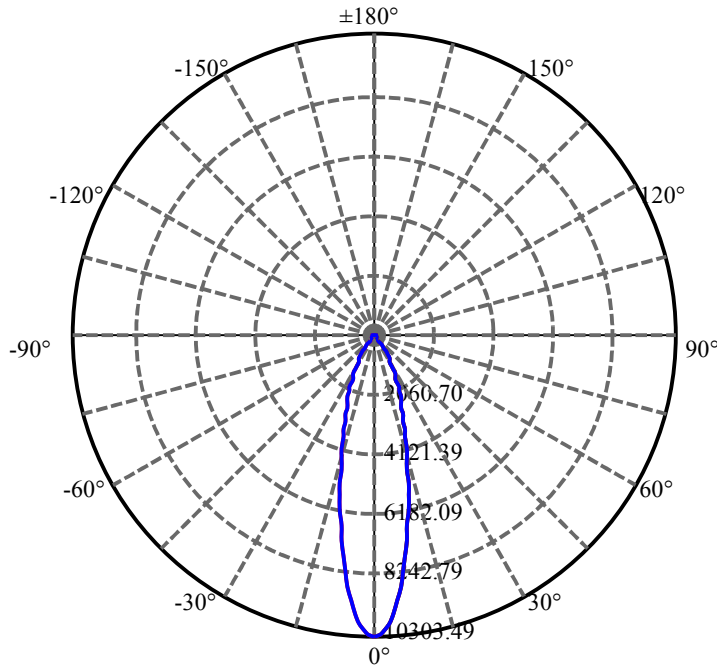
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.084	0.673	3356.303	0.02%	99.86%
77.0	5.585	0.622	3356.925	0.02%	99.87%
78.0	5.164	0.575	3357.501	0.02%	99.89%
79.0	4.652	0.527	3358.028	0.01%	99.91%
80.0	4.244	0.480	3358.508	0.01%	99.92%
81.0	3.844	0.437	3358.945	0.01%	99.93%
82.0	3.430	0.394	3359.339	0.01%	99.95%
83.0	3.055	0.353	3359.692	0.01%	99.96%
84.0	2.700	0.314	3360.006	0.01%	99.97%
85.0	2.339	0.275	3360.281	0.01%	99.97%
86.0	2.024	0.238	3360.519	0.01%	99.98%
87.0	1.741	0.206	3360.725	0.01%	99.99%
88.0	1.445	0.175	3360.9	0.00%	99.99%
89.0	1.183	0.144	3361.044	0.00%	100.00%
90.0	0.986	0.119	3361.163	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2889.60	78.50%	85.97%
0-40	3253.43	88.38%	96.79%
0-60	3335.32	90.61%	99.23%
0-90	3361.04	91.31%	100.00%
0-120	3361.04	91.31%	100.00%
0-180	3361.16	91.31%	100.00%
60-90	25.72	0.70%	0.77%
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%
0-27.28	2688.93	73.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	784.72
10-20	1210.16
20-30	894.71
30-40	363.84
40-50	57.98
50-60	23.91
60-70	16.12
70-80	7.06
80-90	2.54
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: —————

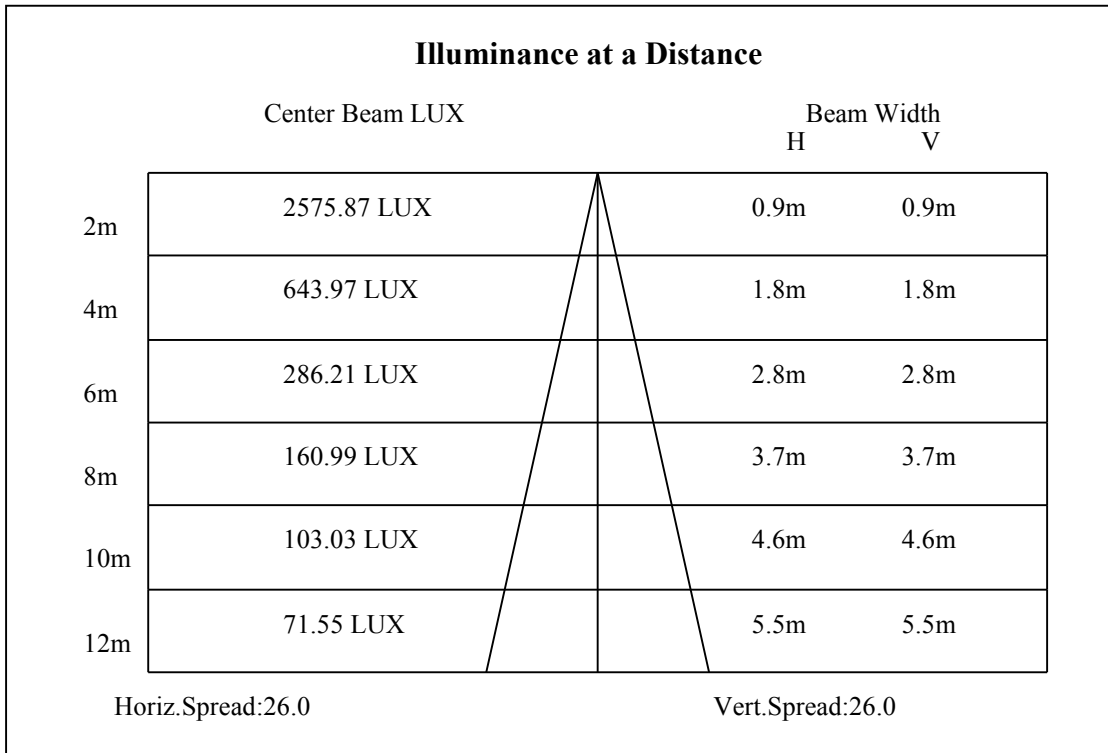
C90/C270: —————

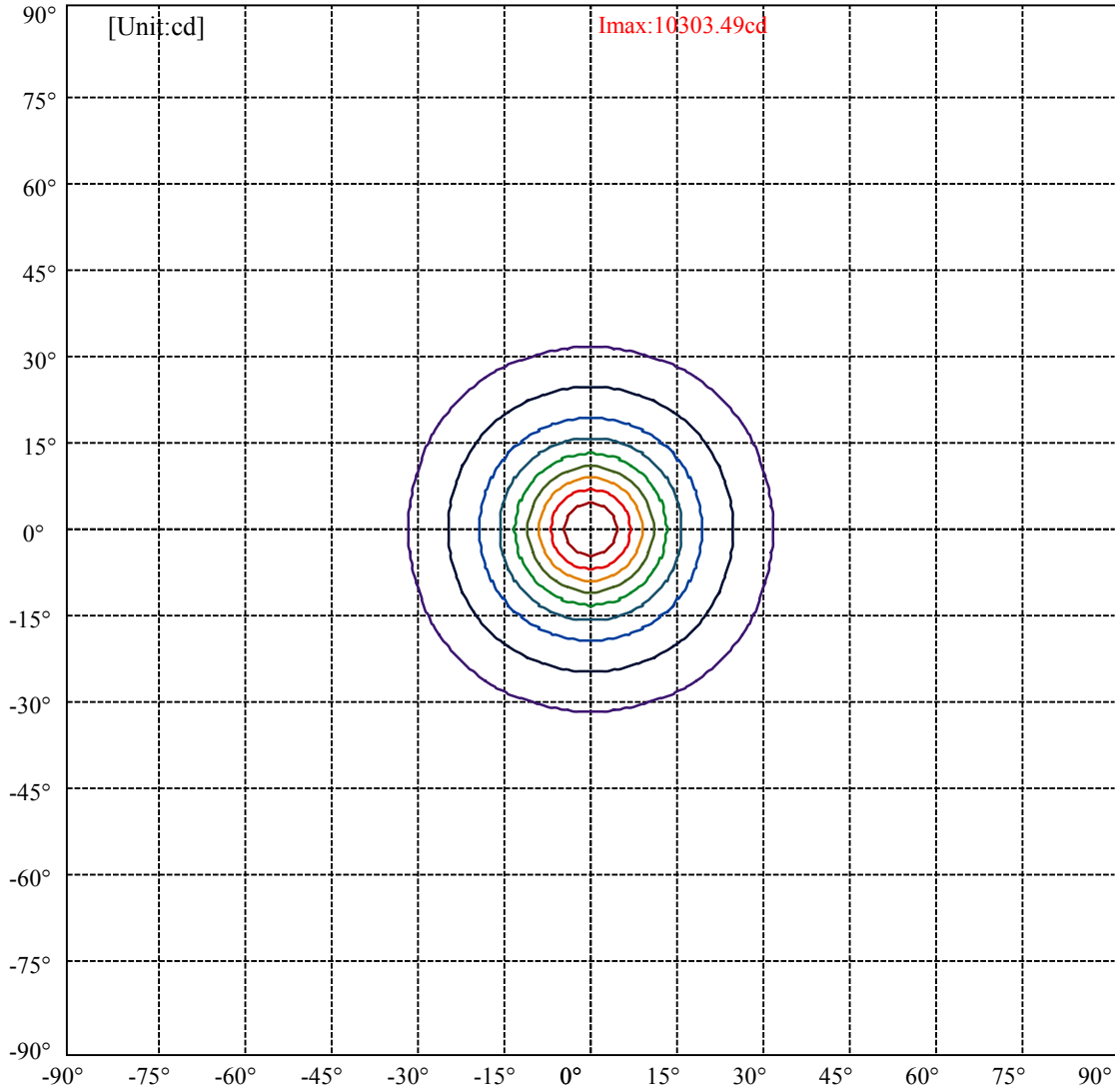
Field angle(10%Imax):C0/180Left:31.2 Right:31.2

:C90/270Left:31.2 Right:31.2

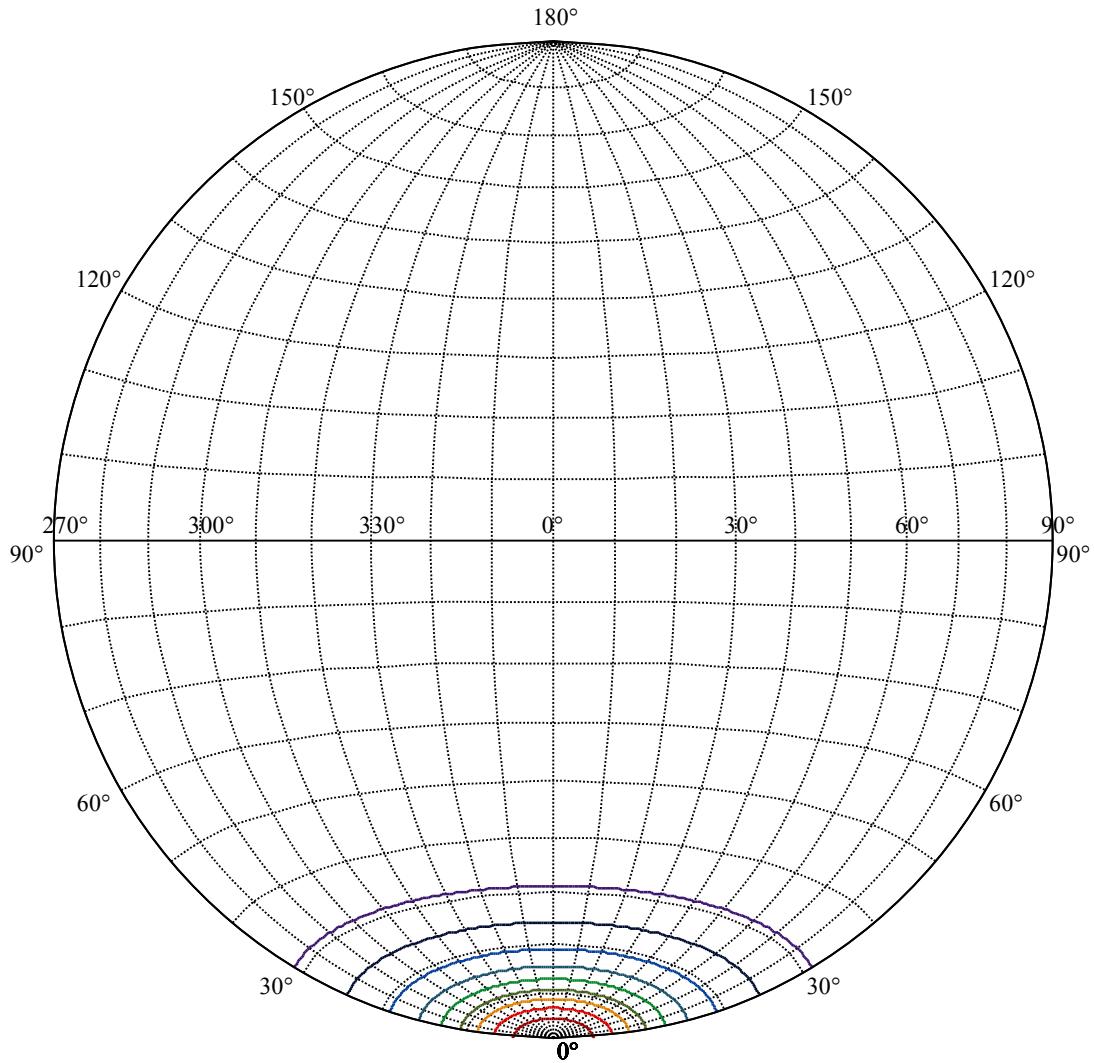
Beam Angle(50%Imax):C0/180Left:13.0 Right:13.0

:C90/270Left:13.0 Right:13.0





(10%Imax) 1030.35	—
(20%Imax) 2060.7	—
(30%Imax) 3091.05	—
(40%Imax) 4121.39	—
(50%Imax) 5151.74	—
(60%Imax) 6182.09	—
(70%Imax) 7212.44	—
(80%Imax) 8242.79	—
(90%Imax) 9273.14	—



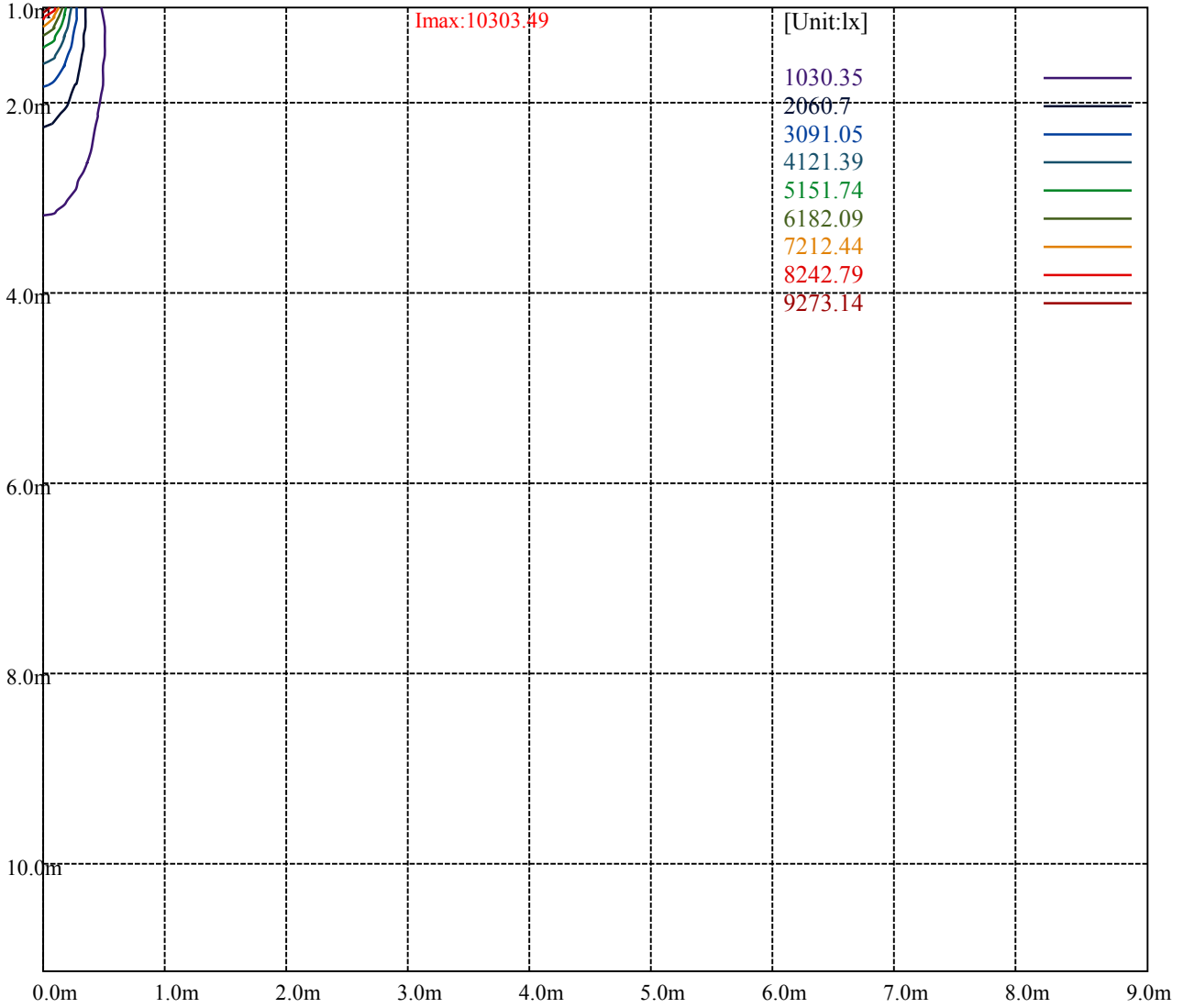
House

[Unit:cd]

Road

Imax:10303.49

(10%Imax) 1030.35	—
(20%Imax) 2060.7	—
(30%Imax) 3091.05	—
(40%Imax) 4121.39	—
(50%Imax) 5151.74	—
(60%Imax) 6182.09	—
(70%Imax) 7212.44	—
(80%Imax) 8242.79	—
(90%Imax) 9273.14	—



Luminance Table

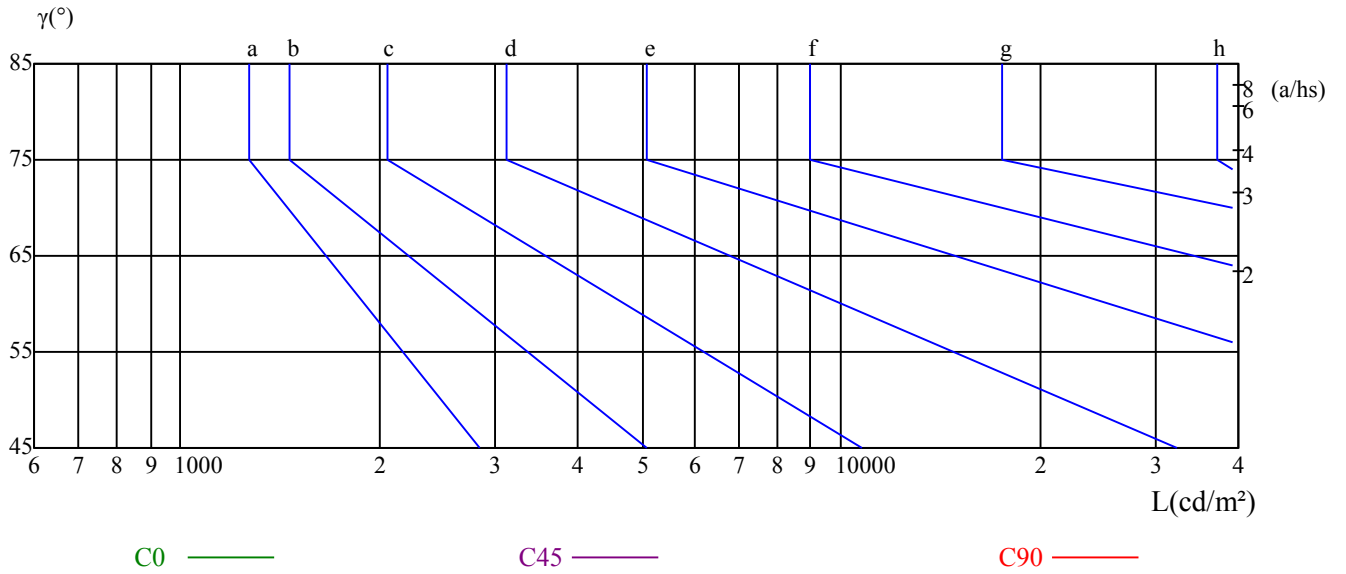
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

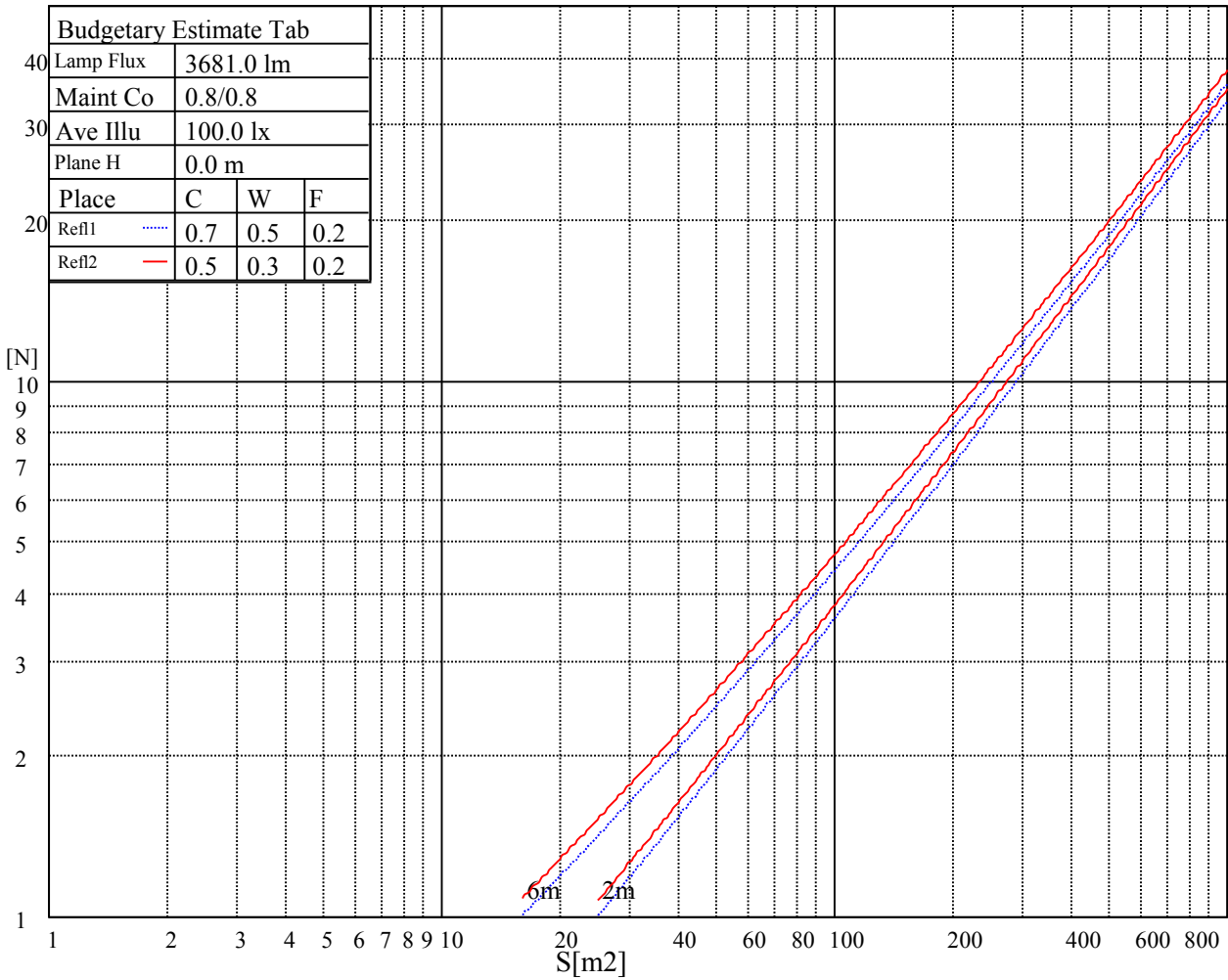
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

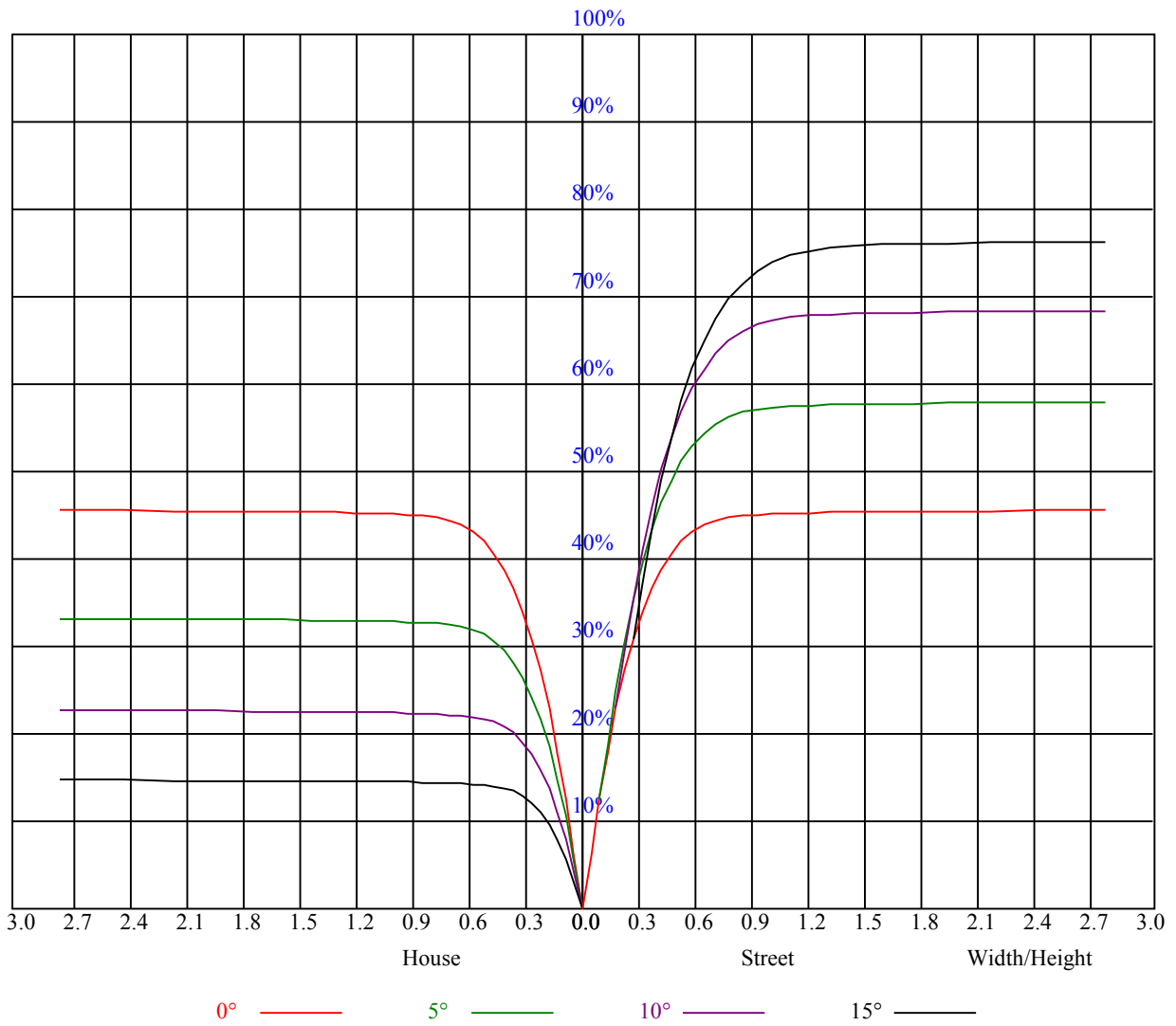


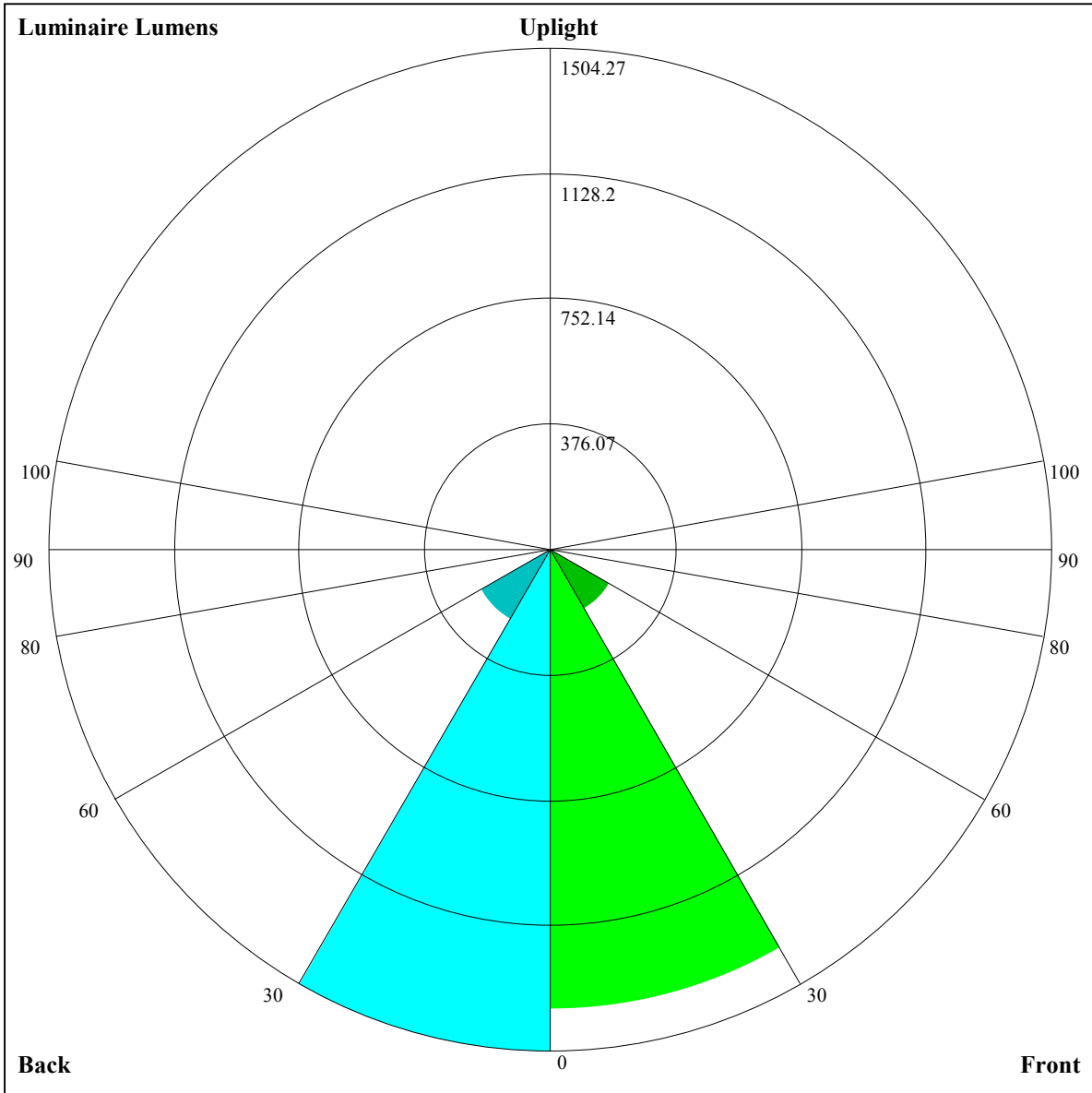
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.86	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.86	0.82	0.79	0.85	0.82	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
7	0.75	0.70	0.67	0.75	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
8	0.72	0.67	0.64	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
9	0.69	0.65	0.62	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.60
10	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58





Luminaire Lumens:

FL=1381.46,FM=206.12,FH=10.99,FVH=1.2

BL=1504.27,BM=243.86,BH=12.1,BVH=1.46

UL=0,UH=0

BUG Rating:B3-U0-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	10199.70	10026.45	9562.33	9332.79	8860.30	8147.13	7834.55	7303.61	6752.55
45.0	10393.60	10272.71	9999.70	9682.12	9294.89	8829.08	8318.17	7799.43	7250.10
90.0	10216.42	9926.17	9621.93	9241.38	8786.77	8484.80	7725.37	7408.32	6856.20
135.0	10404.22	10386.93	10263.77	10005.27	9704.40	9353.92	8919.91	8443.01	7941.51
180.0	10199.70	10358.49	10377.47	10311.71	10086.59	9783.51	9426.93	9010.74	8523.75
225.0	10393.60	10412.53	10337.89	10064.88	9791.29	9356.18	8899.83	8495.89	7855.73
270.0	10216.42	10381.36	10433.18	10344.04	10104.98	9773.47	9388.50	8915.44	8387.82
315.0	10404.22	10301.09	10143.46	9803.01	9428.61	8962.80	8455.78	7917.02	7400.54
360.0	10199.70	10026.45	9562.33	9332.79	8860.30	8147.13	7834.55	7303.61	6752.55
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6215.99	5736.83	5279.43	4843.69	4442.00	4060.35	3694.30	3413.46	3152.70
45.0	6680.12	6173.10	5678.91	5211.99	4956.80	4362.32	3980.09	3772.31	3334.35
90.0	6337.46	5869.44	5388.60	4951.23	4530.05	4143.34	3782.29	3451.94	3172.20
135.0	7408.32	6848.95	6296.25	5824.29	5362.43	4917.27	4511.07	4119.95	3779.51
180.0	8037.38	7501.35	6955.91	6392.60	5896.72	5439.33	5000.85	4751.76	4200.16
225.0	7411.10	6853.41	6283.43	5821.51	5374.15	4952.33	4542.82	4173.46	3816.30
270.0	7851.84	7284.64	6718.01	6204.32	5740.19	5294.99	4882.69	4460.93	4101.03
315.0	6860.62	6296.78	5821.51	5378.04	4945.66	4561.22	4179.56	3836.90	3525.47
360.0	6215.99	5736.83	5279.43	4843.69	4442.00	4060.35	3694.30	3413.46	3152.70
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2913.12	2717.01	2516.43	2342.03	2176.03	2027.23	1874.59	1757.58	1580.40
45.0	3172.78	2920.95	2693.62	2488.57	2295.82	2117.53	1954.27	1808.31	1661.19
90.0	2914.80	2678.59	2480.21	2299.71	2134.77	1972.67	1823.34	1666.23	1574.30
135.0	3454.72	3157.17	2995.06	2647.36	2518.11	2319.22	2149.81	1992.17	1837.80
180.0	3996.27	3656.41	3336.04	3066.92	2816.77	2600.58	2406.10	2232.28	2076.85
225.0	3496.51	3211.20	2957.17	2723.68	2528.68	2349.28	2185.50	2094.09	1872.91
270.0	3837.48	3521.58	3206.79	3010.10	2793.33	2596.69	2414.46	2236.74	2083.52
315.0	3303.71	3013.99	2798.37	2636.80	2442.32	2270.75	2114.17	1960.95	1812.72
360.0	2913.12	2717.01	2516.43	2342.03	2176.03	2027.23	1874.59	1757.58	1580.40
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1459.50	1107.28	1076.32	1013.67	864.39	722.68	596.22	483.68	383.23
45.0	1530.83	1393.75	1248.89	1105.70	958.63	815.98	680.58	564.15	459.40
90.0	1370.94	1081.47	1081.47	963.47	821.39	690.36	571.51	464.71	369.78
135.0	1699.08	1553.12	1404.36	1251.15	1098.45	950.28	808.73	679.48	562.47
180.0	1920.27	1775.40	1622.76	1462.87	1305.71	1149.17	998.16	856.66	718.48
225.0	1723.05	1635.01	1479.58	1261.71	1058.35	1028.28	883.26	739.92	612.25
270.0	1929.20	1775.40	1627.76	1476.22	1325.78	1173.14	1023.23	873.38	729.62
315.0	1662.87	1509.65	1358.64	1060.19	1060.19	905.76	762.94	633.80	518.00
360.0	1459.50	1107.28	1076.32	1013.67	864.39	722.68	596.22	483.68	383.23
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	300.34	232.54	179.45	139.19	109.17	87.62	77.63	64.70	51.93
45.0	365.26	315.11	315.11	175.35	135.82	106.96	86.62	71.64	60.81
90.0	288.83	222.08	169.78	131.14	113.54	84.36	70.49	64.02	52.35
135.0	458.29	365.78	301.18	301.18	178.77	138.77	109.65	88.73	73.75
180.0	595.90	511.22	393.11	310.64	310.64	281.10	151.64	119.05	95.56
225.0	497.66	395.53	310.01	239.84	185.02	143.34	112.33	93.93	74.32
270.0	603.15	491.14	391.43	337.92	290.04	290.04	151.06	116.48	91.83
315.0	453.46	324.63	279.00	214.61	164.36	126.52	99.61	80.42	66.60
360.0	300.34	232.54	179.45	139.19	109.17	87.62	77.63	64.70	51.93

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	47.67	41.94	37.37	33.85	31.17	29.12	27.60	26.54	25.76
45.0	52.56	45.83	40.53	36.53	33.32	30.80	28.86	27.91	26.44
90.0	48.52	43.10	38.84	35.48	32.80	30.70	29.01	27.86	26.96
135.0	62.76	54.30	47.78	42.47	38.27	34.90	32.33	30.17	28.54
180.0	78.53	66.28	56.98	49.83	44.15	39.42	35.80	32.85	30.59
225.0	64.76	55.56	48.46	42.79	38.27	34.69	32.06	29.86	28.12
270.0	74.11	61.71	52.56	45.57	40.21	35.95	32.80	30.17	28.23
315.0	56.61	49.04	43.15	38.53	34.95	32.33	30.07	28.38	27.23
360.0	47.67	41.94	37.37	33.85	31.17	29.12	27.60	26.54	25.76
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.12	24.81	24.49	24.23	23.55	22.55	21.39	19.82	18.03
45.0	25.91	25.44	24.91	24.60	24.18	23.65	22.76	21.55	20.03
90.0	26.18	25.65	25.07	24.65	24.07	22.97	21.71	20.34	18.50
135.0	27.23	26.33	25.60	25.02	24.70	24.13	23.50	22.92	21.87
180.0	28.80	27.28	26.18	25.60	24.81	24.34	23.97	23.29	22.50
225.0	26.91	26.12	25.65	25.23	24.65	24.13	23.55	23.13	21.34
270.0	27.12	25.86	25.07	24.81	24.39	24.13	23.71	23.39	22.39
315.0	26.44	25.86	25.55	25.39	24.81	24.55	23.71	22.34	21.08
360.0	25.12	24.81	24.49	24.23	23.55	22.55	21.39	19.82	18.03
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.87	14.88	13.19	12.14	10.78	9.72	8.94	8.25	7.57
45.0	18.40	16.77	14.98	13.30	11.98	10.57	9.46	8.73	7.99
90.0	16.93	15.93	13.46	12.67	11.35	10.09	9.20	8.46	7.78
135.0	20.66	19.03	17.56	15.98	14.40	13.09	11.77	10.62	9.78
180.0	21.45	20.13	18.71	17.19	15.66	14.19	12.83	11.41	10.25
225.0	19.92	18.92	16.71	15.72	14.03	12.62	11.41	10.20	9.30
270.0	21.24	19.87	18.19	16.71	14.98	13.35	12.04	10.72	9.62
315.0	19.50	17.82	16.08	14.45	13.14	11.67	10.51	9.67	8.99
360.0	16.87	14.88	13.19	12.14	10.78	9.72	8.94	8.25	7.57
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.04	6.52	5.94	5.47	4.99	4.57	4.05	3.63	3.26
45.0	7.36	7.04	6.36	5.83	5.57	5.05	4.63	4.15	3.78
90.0	7.15	6.62	6.15	5.62	5.15	4.73	4.26	3.89	3.47
135.0	8.99	8.41	7.83	7.31	6.73	6.20	5.78	5.26	4.99
180.0	9.41	8.67	7.99	7.46	6.94	6.41	5.99	5.47	4.94
225.0	8.67	8.04	7.52	6.99	6.52	5.94	5.47	4.94	4.52
270.0	8.88	8.30	7.67	7.41	6.62	6.15	5.83	5.15	4.84
315.0	8.36	7.73	7.25	6.68	6.15	5.62	5.31	4.73	4.15
360.0	7.04	6.52	5.94	5.47	4.99	4.57	4.05	3.63	3.26
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.89	2.52	2.21	1.89	1.58	1.37	1.10	0.79	0.79
45.0	3.31	2.89	2.52	2.21	1.89	1.52	1.31	1.05	0.89
90.0	3.15	2.89	2.47	2.16	1.89	1.68	1.37	1.10	0.89
135.0	4.47	4.10	3.78	3.36	2.89	2.52	2.37	2.16	1.68
180.0	4.57	4.05	3.57	3.21	2.94	2.47	2.16	1.84	1.52
225.0	3.99	3.68	3.21	2.89	2.42	2.16	1.79	1.47	1.21
270.0	4.36	3.84	3.47	3.10	2.68	2.37	2.00	1.73	1.42
315.0	3.99	3.47	3.21	2.79	2.42	2.10	1.84	1.42	1.05
360.0	2.89	2.52	2.21	1.89	1.58	1.37	1.10	0.79	0.79

Intensity data(cd)

C/γ(°)	90.0
0.0	0.79
45.0	0.84
90.0	0.89
135.0	1.00
180.0	1.31
225.0	1.10
270.0	1.16
315.0	0.79
360.0	0.79