



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

NT

Client:

LumCAT: 3-2832-L

Luminaire: 92.70.412.00

Report No: 2024322-B026

Ballast type: AC

Test No: 2024322-C026

Voltage(V): 34.750

LampCAT: Fortimo\_SLM\_C\_1208

Current(A): 0.577

Lamp flux(lm): 3486.0

Power (W): 20.050

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2958.25, Efficiency(%): 84.86% , Luminous Efficacy(lm/W): 147.54

Central intensity(cd): 15334.940, Maximum intensity(cd): 15334.940

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

Beam Angle(50%Imax): [C0/180]Total=16.8

[C90/270]Total=16.8

Field angle(10%Imax): [C0/180]Total=48.2

[C90/270]Total=48.2

Maximum s/h(1/2): C0\_180=0.29 C90\_270=0.29

Maximum s/h(1/4): C0\_180=0.33 C90\_270=0.33

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.86%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.996%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/3/22  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15334.943	0.000	0	0.00%	0.00%
1.0	15174.738	14.598	14.598	0.42%	0.49%
2.0	14600.486	42.736	57.335	1.23%	1.94%
3.0	13576.064	67.389	124.724	1.93%	4.22%
4.0	12485.731	87.237	211.961	2.50%	7.17%
5.0	11732.035	104.184	316.144	2.99%	10.69%
6.0	10537.005	117.030	433.174	3.36%	14.64%
7.0	9286.160	123.042	556.216	3.53%	18.80%
8.0	8093.179	124.381	680.597	3.57%	23.01%
9.0	6941.968	121.852	802.448	3.50%	27.13%
10.0	6058.498	117.649	920.098	3.37%	31.10%
11.0	5301.729	113.512	1033.61	3.26%	34.94%
12.0	4687.243	109.194	1142.804	3.13%	38.63%
13.0	4207.724	105.561	1248.364	3.03%	42.20%
14.0	3784.826	102.304	1350.668	2.93%	45.66%
15.0	3434.568	99.111	1449.779	2.84%	49.01%
16.0	3102.600	95.788	1545.567	2.75%	52.25%
17.0	2879.702	93.161	1638.728	2.67%	55.40%
18.0	2732.884	92.539	1731.267	2.65%	58.52%
19.0	2408.472	89.449	1820.716	2.57%	61.55%
20.0	2175.998	83.909	1904.625	2.41%	64.38%
21.0	2010.745	80.394	1985.019	2.31%	67.10%
22.0	1841.323	77.409	2062.428	2.22%	69.72%
23.0	1700.796	74.323	2136.751	2.13%	72.23%
24.0	1551.344	71.103	2207.854	2.04%	74.63%
25.0	1382.148	66.701	2274.555	1.91%	76.89%
26.0	1245.659	62.030	2336.585	1.78%	78.99%
27.0	1182.432	59.404	2395.989	1.70%	80.99%
28.0	1120.128	58.296	2454.285	1.67%	82.96%
29.0	1046.521	56.686	2510.971	1.63%	84.88%
30.0	954.487	54.027	2564.997	1.55%	86.71%
31.0	839.359	49.920	2614.918	1.43%	88.39%
32.0	713.404	44.485	2659.402	1.28%	89.90%
33.0	571.867	37.865	2697.267	1.09%	91.18%
34.0	444.076	30.745	2728.012	0.88%	92.22%
35.0	315.824	23.600	2751.612	0.68%	93.01%
36.0	249.394	17.997	2769.609	0.52%	93.62%
37.0	171.376	13.723	2783.332	0.39%	94.09%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	134.697	10.216	2793.548	0.29%	94.43%
39.0	100.556	8.030	2801.578	0.23%	94.70%
40.0	93.204	6.758	2808.336	0.19%	94.93%
41.0	87.045	6.419	2814.754	0.18%	95.15%
42.0	80.710	6.095	2820.849	0.17%	95.36%
43.0	75.004	5.768	2826.617	0.17%	95.55%
44.0	70.008	5.473	2832.09	0.16%	95.74%
45.0	65.362	5.202	2837.293	0.15%	95.91%
46.0	61.295	4.953	2842.246	0.14%	96.08%
47.0	57.813	4.737	2846.983	0.14%	96.24%
48.0	54.865	4.555	2851.538	0.13%	96.39%
49.0	52.165	4.395	2855.934	0.13%	96.54%
50.0	50.015	4.260	2860.194	0.12%	96.69%
51.0	48.244	4.157	2864.351	0.12%	96.83%
52.0	46.759	4.077	2868.428	0.12%	96.96%
53.0	45.552	4.016	2872.443	0.12%	97.10%
54.0	44.580	3.973	2876.416	0.11%	97.23%
55.0	43.585	3.935	2880.351	0.11%	97.37%
56.0	42.568	3.893	2884.244	0.11%	97.50%
57.0	41.207	3.830	2888.075	0.11%	97.63%
58.0	39.795	3.746	2891.821	0.11%	97.75%
59.0	37.871	3.631	2895.452	0.10%	97.88%
60.0	36.123	3.496	2898.947	0.10%	98.00%
61.0	33.855	3.340	2902.287	0.10%	98.11%
62.0	31.675	3.158	2905.444	0.09%	98.22%
63.0	29.386	2.970	2908.414	0.09%	98.32%
64.0	27.308	2.782	2911.196	0.08%	98.41%
65.0	25.508	2.614	2913.81	0.07%	98.50%
66.0	23.731	2.457	2916.267	0.07%	98.58%
67.0	22.473	2.323	2918.59	0.07%	98.66%
68.0	21.244	2.215	2920.804	0.06%	98.73%
69.0	20.380	2.123	2922.928	0.06%	98.81%
70.0	19.671	2.057	2924.985	0.06%	98.88%
71.0	19.108	2.004	2926.989	0.06%	98.94%
72.0	18.596	1.960	2928.95	0.06%	99.01%
73.0	18.149	1.921	2930.871	0.06%	99.07%
74.0	17.747	1.887	2932.758	0.05%	99.14%
75.0	17.315	1.853	2934.611	0.05%	99.20%

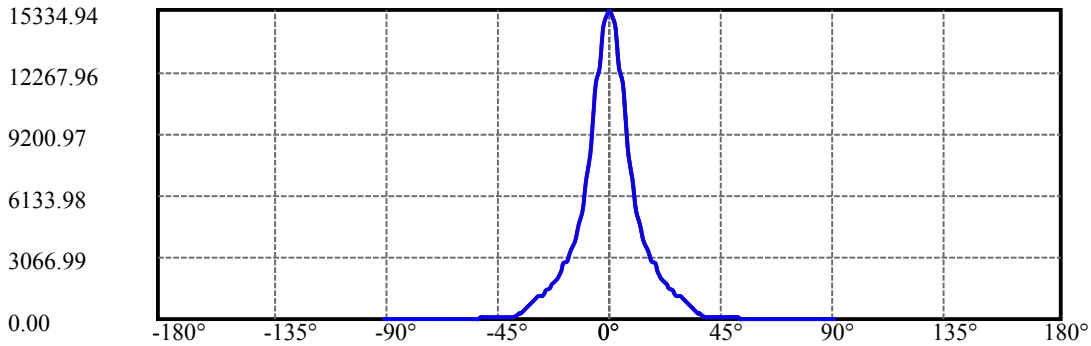
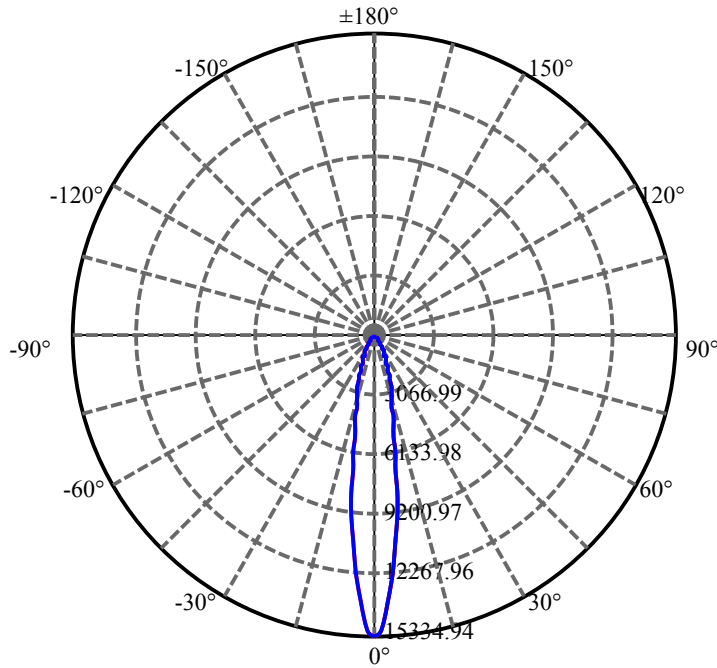
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	16.906	1.817	2936.427	0.05%	99.26%
77.0	16.533	1.783	2938.21	0.05%	99.32%
78.0	16.145	1.749	2939.959	0.05%	99.38%
79.0	15.808	1.717	2941.676	0.05%	99.44%
80.0	15.508	1.688	2943.365	0.05%	99.50%
81.0	15.165	1.659	2945.023	0.05%	99.55%
82.0	14.675	1.618	2946.641	0.05%	99.61%
83.0	14.155	1.567	2948.209	0.04%	99.66%
84.0	13.804	1.523	2949.732	0.04%	99.71%
85.0	13.475	1.489	2951.221	0.04%	99.76%
86.0	13.182	1.457	2952.678	0.04%	99.81%
87.0	12.904	1.428	2954.105	0.04%	99.86%
88.0	12.641	1.399	2955.505	0.04%	99.91%
89.0	12.487	1.377	2956.882	0.04%	99.95%
90.0	12.414	1.365	2958.247	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2565.00	73.58%	86.71%
0-40	2808.34	80.56%	94.93%
0-60	2898.95	83.16%	98.00%
0-90	2956.88	84.82%	99.95%
0-120	2956.88	84.82%	99.95%
0-180	2958.25	84.86%	100.00%
60-90	57.93	1.66%	1.96%
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%
0-26.51	2366.60	67.89%	80.00%

ZONAL LUMEN SUMMARY

0-10	920.10
10-20	984.53
20-30	660.37
30-40	243.34
40-50	51.86
50-60	38.75
60-70	26.04
70-80	18.38
80-90	13.52
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



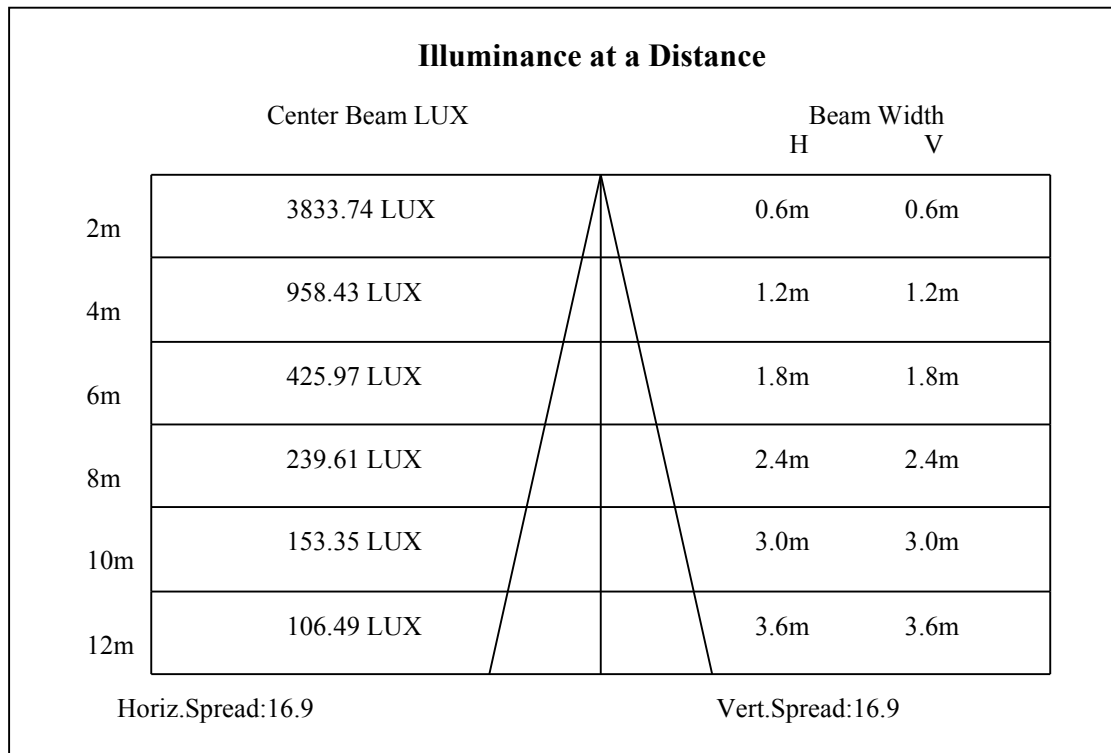
C0(Max): —————

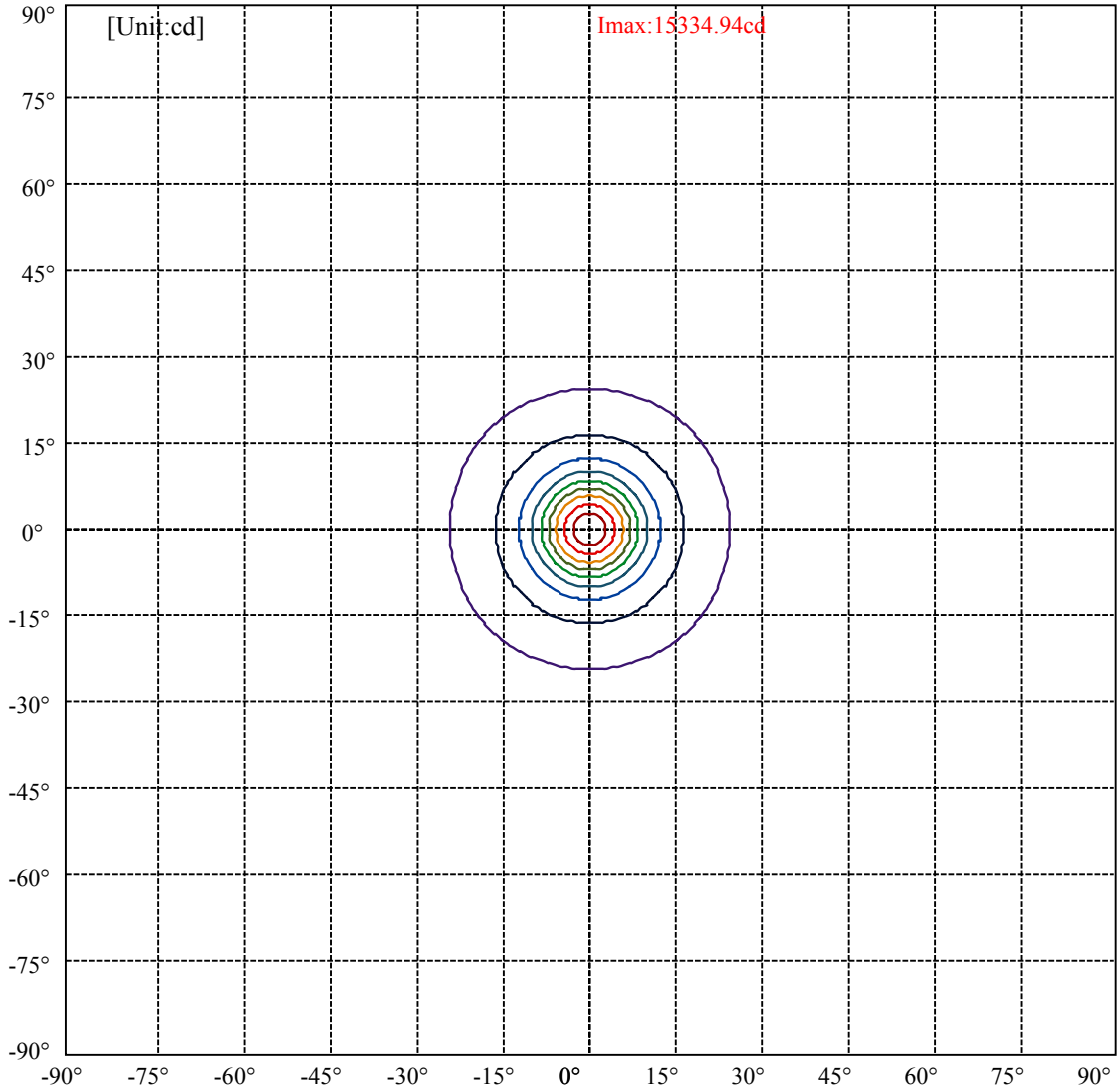
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:24.1 Right:24.1  
:C90/270Left:24.1 Right:24.1

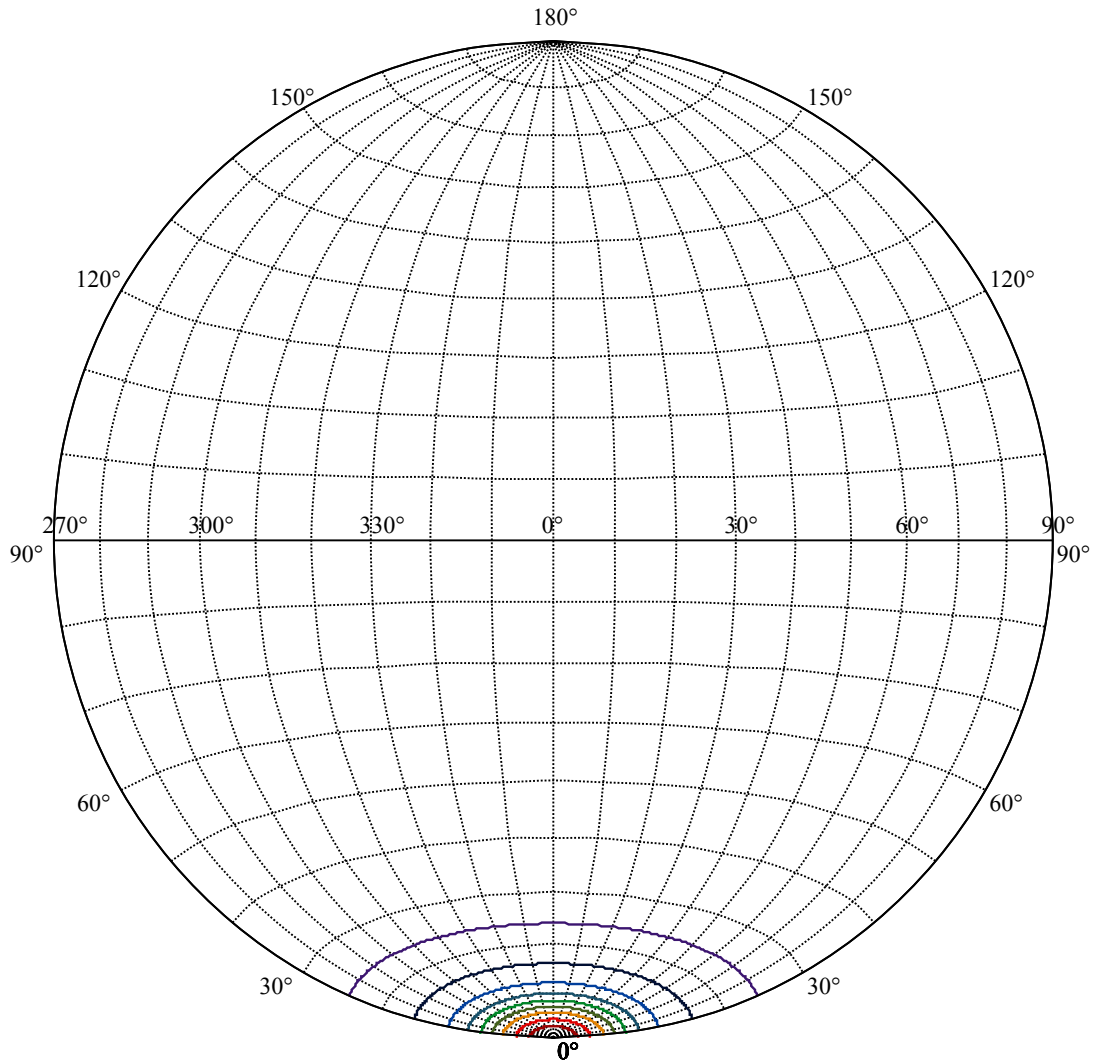
Beam Angle(50%Imax):C0/180Left:8.4 Right:8.4  
:C90/270Left:8.4 Right:8.4





(10%Imax) 1533.49	—
(20%Imax) 3066.99	—
(30%Imax) 4600.48	—
(40%Imax) 6133.98	—
(50%Imax) 7667.47	—
(60%Imax) 9200.97	—
(70%Imax) 10734.5	—
(80%Imax) 12268	—
(90%Imax) 13801.5	—





House

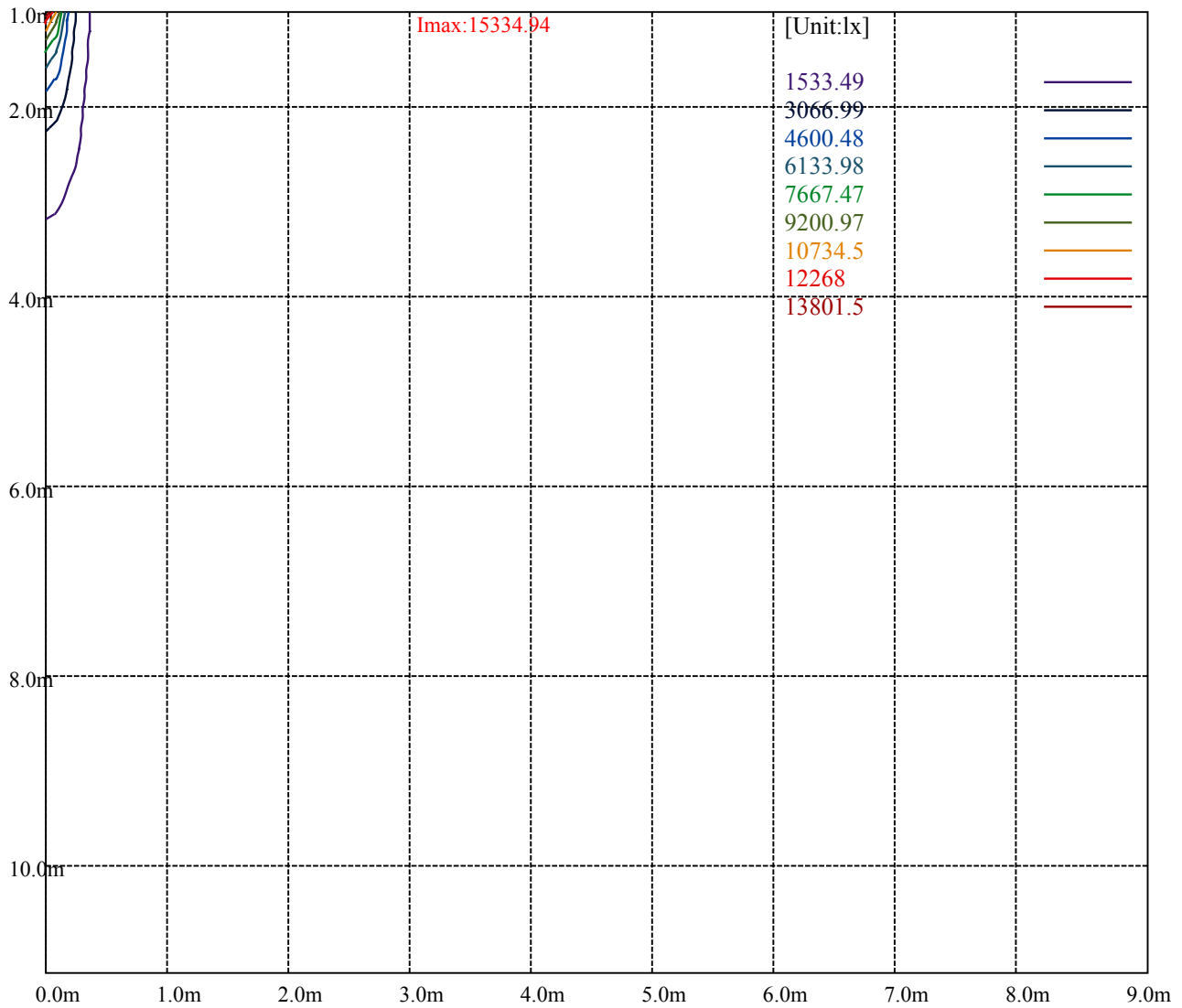
[Unit:cd]

Road

**Imax:15334.94**

(10%Imax)	1533.49	—
(20%Imax)	3066.99	—
(30%Imax)	4600.48	—
(40%Imax)	6133.98	—
(50%Imax)	7667.47	—
(60%Imax)	9200.97	—
(70%Imax)	10734.5	—
(80%Imax)	12268	—
(90%Imax)	13801.5	—





Luminance Table

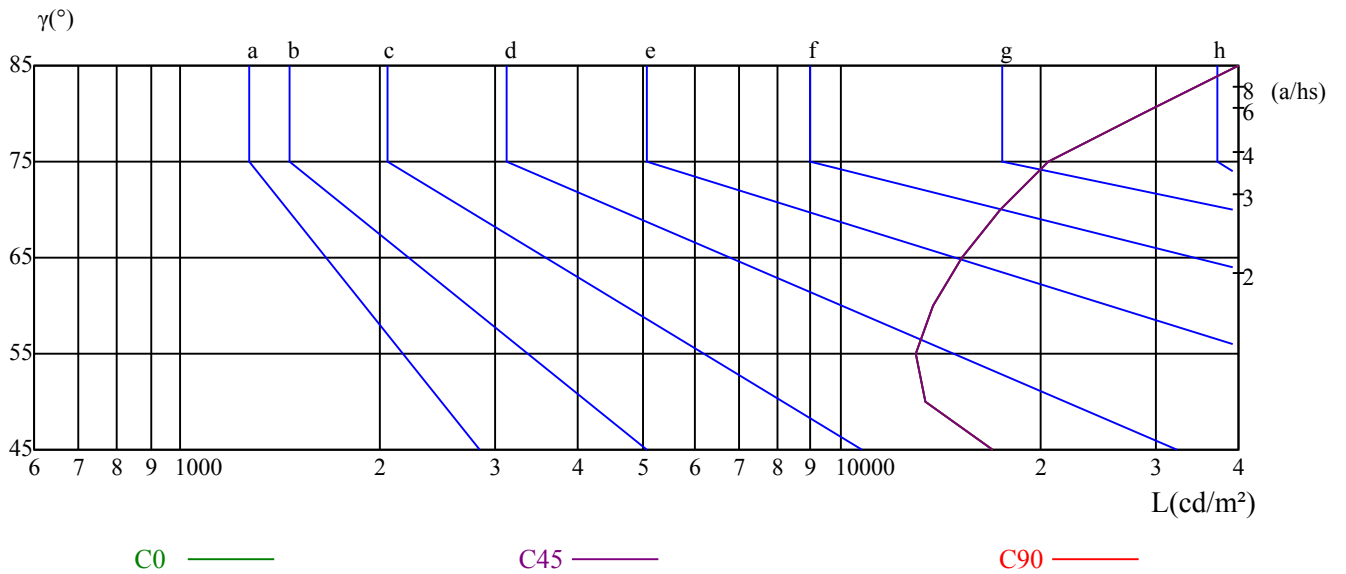
$\gamma$	45	50	55	60	65	70	75	80	85
C0	16916	13424	12973	13807	15255	17397	20571	28543	54228
C45	16916	13424	12973	13807	15255	17397	20571	28543	54228
C90	16916	13424	12973	13807	15255	17397	20571	28543	54228

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
15255	15255	15255	20571	20571	20571	54228	54228	54228

Glare Table

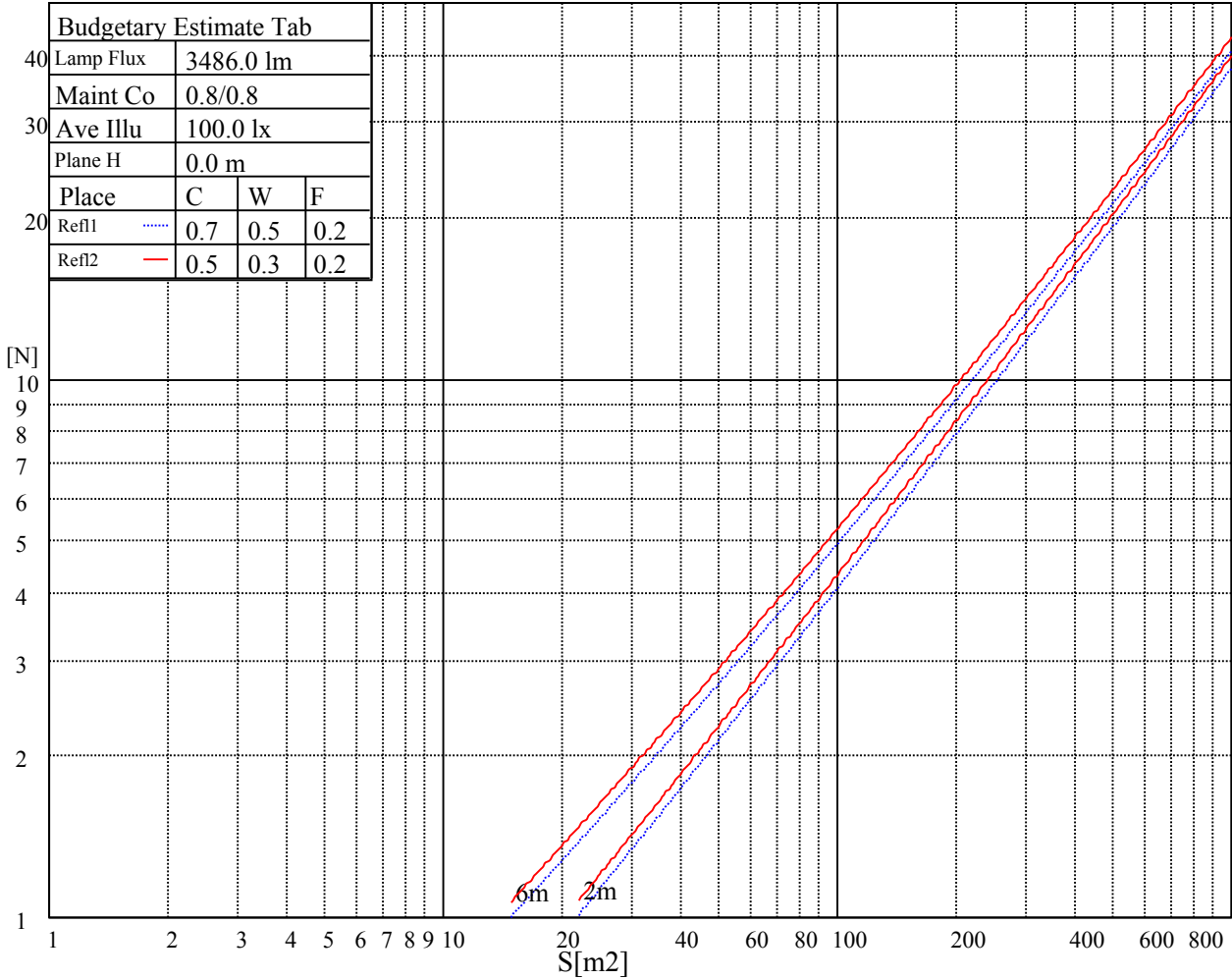
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

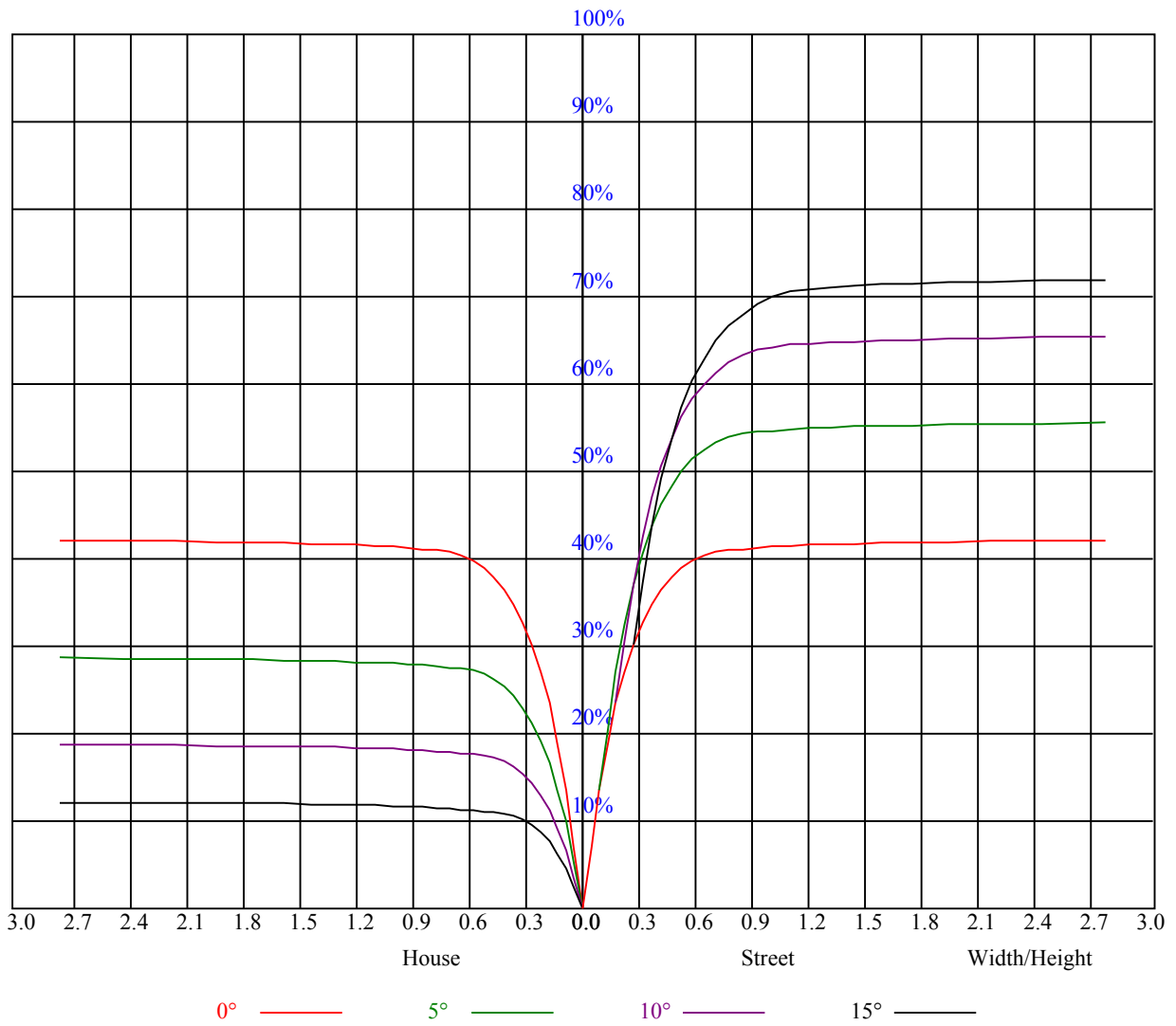


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
4H	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	
	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	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	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	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	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				

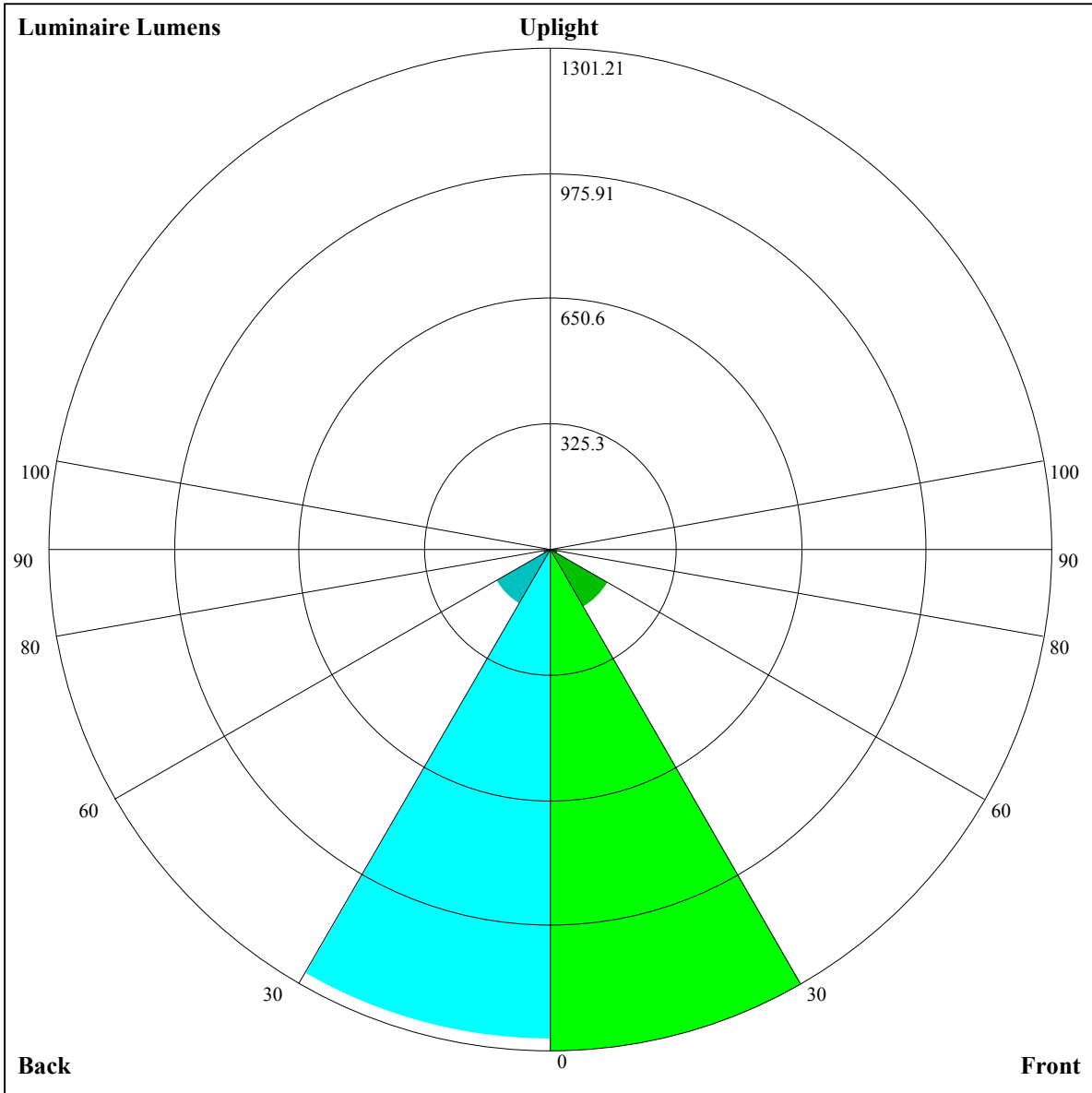
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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 RHOF=20 CU															
0	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.82	0.81
2	0.90	0.87	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.80	0.81	0.79	0.78	0.77
3	0.85	0.81	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.77	0.76	0.78	0.76	0.74	0.73
4	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.74	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	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
8	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56







Luminaire Lumens:

FL=1301.21,FM=171.7,FH=22.53,FVH=7.48

BL=1269.12,BM=162.01,BH=21.96,BVH=7.4

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	15412.49	15277.88	14856.52	13978.68	11394.97	11394.97	10522.40	9335.57	8185.60
45.0	15201.80	15441.75	15394.93	14944.31	14283.00	13399.31	12351.76	10929.66	9753.36
90.0	15424.19	15231.07	14786.29	14089.88	11526.65	11526.65	10663.44	9481.29	8333.66
135.0	15301.29	15383.22	15078.91	14540.50	13750.45	12521.47	11397.84	9928.93	8770.18
180.0	15412.49	15190.10	14704.36	13955.28	12778.97	11702.16	10537.56	9337.85	8184.96
225.0	15201.80	14686.81	13065.73	11603.31	11603.31	10414.14	8913.62	7759.56	6508.35
270.0	15424.19	15254.47	14798.00	13873.34	12925.28	11866.02	10385.40	9173.99	7751.89
315.0	15301.29	14932.60	14119.14	11623.21	11623.21	11031.55	9524.01	8342.44	7257.43
360.0	15412.49	15277.88	14856.52	13978.68	11394.97	11394.97	10522.40	9335.57	8185.60
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6876.45	6013.83	5320.92	4761.45	4180.91	3797.00	3462.83	3162.61	2837.23
45.0	8325.41	7260.30	6329.79	5428.55	4837.47	4351.73	3930.37	3491.45	3181.28
90.0	7014.57	6136.14	5419.83	4704.10	4231.82	3836.21	3408.99	3107.60	2846.59
135.0	7669.96	6692.63	5703.60	5065.71	4544.86	4088.38	3702.13	3280.77	2994.01
180.0	6879.91	6002.07	5153.49	4609.23	4146.90	3678.72	3345.15	3064.24	2994.01
225.0	5702.49	5069.86	4442.50	4026.41	3660.06	3269.71	2995.24	2751.79	2528.82
270.0	6751.16	5902.58	5223.72	4556.56	4117.64	3743.10	3415.37	3070.09	2999.86
315.0	6315.81	5390.57	4819.97	4345.94	3942.13	3513.75	3216.46	2892.24	2655.81
360.0	6876.45	6013.83	5320.92	4761.45	4180.91	3797.00	3462.83	3162.61	2837.23
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2609.58	2404.75	2182.95	2022.60	1875.70	1738.18	1565.54	1428.59	1153.30
45.0	2976.45	2976.45	2420.55	2239.71	2074.68	1926.03	1749.88	1613.52	1440.30
90.0	2561.00	2359.10	2177.68	2014.99	1831.81	1695.46	1563.78	1429.76	1156.23
135.0	2994.01	2484.34	2292.97	2084.63	1933.06	1793.19	1628.15	1496.48	1363.05
180.0	2994.01	2325.16	2152.52	1999.77	1802.55	1674.97	1531.59	1370.07	1259.46
225.0	2281.27	2107.45	1951.20	1804.31	1634.01	1501.75	1371.83	1161.55	1161.55
270.0	2999.86	2390.70	2177.10	2019.67	1820.69	1691.94	1547.98	1389.97	1264.14
315.0	2446.88	2219.82	2053.03	1900.28	1758.07	1584.85	1452.00	1167.23	1167.23
360.0	2609.58	2404.75	2182.95	2022.60	1875.70	1738.18	1565.54	1428.59	1153.30
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1153.30	1126.73	1055.63	966.21	856.36	732.53	606.00	448.69	325.68
45.0	1305.11	1207.96	1127.20	1078.04	1001.96	898.96	750.90	624.49	495.74
90.0	1156.23	1127.08	1061.66	976.45	869.29	714.44	584.64	453.14	303.32
135.0	1252.44	1158.22	1104.38	1040.00	944.61	832.25	676.58	550.17	393.91
180.0	1158.80	1103.21	1044.69	945.78	807.08	676.58	550.76	424.93	309.06
225.0	1108.24	1028.71	927.70	810.30	651.88	520.73	397.60	285.71	173.87
270.0	1186.31	1125.45	1047.03	949.29	834.59	709.94	545.49	420.25	304.38
315.0	1139.02	1083.66	1003.89	869.82	749.09	621.80	462.97	345.22	220.63
360.0	1153.30	1126.73	1055.63	966.21	856.36	732.53	606.00	448.69	325.68
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	222.68	134.84	108.91	101.24	93.75	88.02	81.87	75.73	71.05
45.0	374.02	316.08	316.08	111.54	100.13	94.05	88.66	81.11	76.37
90.0	205.12	135.60	106.80	96.80	91.06	85.44	79.53	73.45	68.88
135.0	308.47	308.47	124.83	105.05	97.56	90.36	83.98	78.36	72.98
180.0	309.06	127.17	107.27	98.08	92.06	85.74	78.24	72.92	67.36
225.0	122.55	106.80	99.78	92.35	86.09	79.94	73.15	68.65	64.26
270.0	304.38	126.41	107.68	100.42	93.34	87.37	80.12	75.14	70.29
315.0	148.88	115.64	106.22	98.96	91.65	85.44	80.12	74.67	68.88
360.0	222.68	134.84	108.91	101.24	93.75	88.02	81.87	75.73	71.05

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	66.89	62.21	58.76	55.95	53.14	50.74	48.87	47.75	46.35
45.0	71.40	66.42	62.74	59.34	55.60	52.85	50.97	49.10	47.58
90.0	63.73	60.16	56.77	53.67	51.32	49.51	47.40	46.23	45.12
135.0	67.48	63.03	59.58	56.36	53.02	50.86	49.04	47.17	45.88
180.0	63.03	59.63	55.89	53.31	50.97	49.10	47.11	45.82	44.71
225.0	59.81	56.53	53.96	50.91	49.28	47.58	46.41	44.89	44.18
270.0	66.01	61.39	57.88	55.30	52.67	50.10	48.34	47.05	45.41
315.0	64.55	60.98	56.94	54.07	51.32	49.39	47.81	46.06	45.18
360.0	66.89	62.21	58.76	55.95	53.14	50.74	48.87	47.75	46.35
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	45.30	44.30	43.89	41.79	40.61	38.27	36.93	34.65	32.25
45.0	46.17	45.47	44.54	43.54	42.08	40.50	38.80	37.10	34.59
90.0	44.36	42.84	42.08	40.67	39.62	37.22	35.82	33.77	31.43
135.0	44.83	43.77	42.78	41.49	40.38	38.92	36.93	34.76	32.42
180.0	43.89	42.96	41.90	40.50	38.86	37.28	35.70	32.66	31.13
225.0	43.37	42.49	40.85	39.62	37.28	35.76	33.24	31.19	28.56
270.0	44.59	43.60	42.60	41.20	40.09	37.75	36.34	34.00	31.89
315.0	44.13	43.25	41.90	40.85	39.44	37.28	35.23	32.71	31.13
360.0	45.30	44.30	43.89	41.79	40.61	38.27	36.93	34.65	32.25
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	29.96	28.03	26.39	24.11	23.06	21.65	20.83	20.13	19.43
45.0	32.42	30.37	28.32	26.22	24.29	23.35	21.95	20.95	20.25
90.0	29.32	27.15	25.34	23.82	22.71	21.19	20.48	19.72	19.20
135.0	30.61	28.15	26.74	24.29	23.12	21.71	20.54	19.84	19.08
180.0	28.50	26.63	24.52	23.17	21.95	20.60	19.90	19.25	18.79
225.0	26.92	24.46	23.17	21.95	20.83	19.96	19.31	18.84	18.49
270.0	29.20	27.15	25.40	23.35	22.18	20.95	20.19	19.37	18.84
315.0	28.15	26.51	24.17	22.94	21.65	20.54	19.84	19.25	18.79
360.0	29.96	28.03	26.39	24.11	23.06	21.65	20.83	20.13	19.43
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.96	18.55	18.02	17.62	17.15	16.80	16.44	16.15	16.15
45.0	19.61	18.96	18.55	18.14	17.62	17.26	16.85	16.33	15.92
90.0	18.67	18.20	17.79	17.44	16.91	16.50	15.98	15.63	15.22
135.0	18.67	18.20	17.79	17.32	16.97	16.62	16.21	15.86	15.45
180.0	18.26	17.91	17.56	17.09	16.74	16.39	15.98	15.92	15.98
225.0	17.97	17.62	17.26	16.80	16.44	16.09	15.80	15.45	15.10
270.0	18.32	17.91	17.56	17.09	16.74	16.39	16.04	15.63	15.22
315.0	18.32	17.85	17.44	17.03	16.68	16.21	15.86	15.51	15.04
360.0	18.96	18.55	18.02	17.62	17.15	16.80	16.44	16.15	16.15
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.92	15.22	14.22	13.87	13.64	13.34	12.99	12.70	12.52
45.0	15.57	15.22	14.75	14.28	13.87	13.58	13.23	12.93	12.70
90.0	14.81	14.46	14.16	13.81	13.46	13.17	12.93	12.76	12.52
135.0	15.16	14.75	14.40	13.99	13.64	13.28	12.99	12.76	12.58
180.0	15.80	14.98	13.93	13.64	13.34	12.99	12.76	12.52	12.29
225.0	14.46	13.99	13.75	13.40	13.11	12.82	12.58	12.29	12.47
270.0	14.86	14.46	14.05	13.75	13.40	13.23	12.93	12.58	12.41
315.0	14.75	14.34	13.99	13.69	13.34	13.05	12.82	12.58	12.41
360.0	15.92	15.22	14.22	13.87	13.64	13.34	12.99	12.70	12.52

Intensity data(cd)

C/ $\gamma$ ( $^{\circ}$ )	90.0
0.0	12.35
45.0	12.41
90.0	12.41
135.0	12.41
180.0	12.41
225.0	12.41
270.0	12.47
315.0	12.47
360.0	12.35