



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: 92.70.411.00

Report No: 2024407-B007

Ballast type: AC

Test No: 2024407-C007

Voltage(V): 34.460

LampCAT: Fortimo_SLM_C_1208

Current(A): 0.578

Lamp flux(lm): 3484.0

Power (W): 19.917

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2940.57, Efficiency(%): 84.40% , Luminous Efficacy(lm/W): 147.64

Central intensity(cd): 14673.640, Maximum intensity(cd): 14673.640

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=17.2

[C90/270]Total=17.2

Field angle(10%Imax): [C0/180]Total=49.2

[C90/270]Total=49.2

Maximum s/h(1/2): C0_180=0.29 C90_270=0.29

Maximum s/h(1/4): C0_180=0.34 C90_270=0.34

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.40%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.904%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/07
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	14673.639	0.000	0	0.00%	0.00%
1.0	14515.628	13.967	13.967	0.40%	0.47%
2.0	14013.066	40.947	54.914	1.18%	1.87%
3.0	12822.741	64.182	119.096	1.84%	4.05%
4.0	12240.303	83.894	202.99	2.41%	6.90%
5.0	11408.040	101.734	304.724	2.92%	10.36%
6.0	10268.826	113.918	418.642	3.27%	14.24%
7.0	9061.580	119.983	538.625	3.44%	18.32%
8.0	7931.437	121.616	660.241	3.49%	22.45%
9.0	6863.694	119.907	780.148	3.44%	26.53%
10.0	5963.033	116.077	896.225	3.33%	30.48%
11.0	5258.568	112.127	1008.352	3.22%	34.29%
12.0	4658.274	108.405	1116.757	3.11%	37.98%
13.0	4182.267	104.915	1221.672	3.01%	41.55%
14.0	3770.488	101.795	1323.466	2.92%	45.01%
15.0	3412.988	98.618	1422.084	2.83%	48.36%
16.0	3109.257	95.569	1517.653	2.74%	51.61%
17.0	2876.337	93.212	1610.865	2.68%	54.78%
18.0	2735.590	92.529	1703.394	2.66%	57.93%
19.0	2477.228	90.692	1794.086	2.60%	61.01%
20.0	2189.970	85.423	1879.509	2.45%	63.92%
21.0	2021.426	80.867	1960.376	2.32%	66.67%
22.0	1859.172	77.982	2038.358	2.24%	69.32%
23.0	1711.183	74.916	2113.274	2.15%	71.87%
24.0	1560.415	71.529	2184.803	2.05%	74.30%
25.0	1399.061	67.292	2252.095	1.93%	76.59%
26.0	1252.433	62.589	2314.684	1.80%	78.72%
27.0	1189.777	59.749	2374.433	1.71%	80.75%
28.0	1123.449	58.566	2432.999	1.68%	82.74%
29.0	1048.196	56.816	2489.815	1.63%	84.67%
30.0	949.615	53.941	2543.756	1.55%	86.51%
31.0	829.513	49.511	2593.266	1.42%	88.19%
32.0	699.775	43.812	2637.079	1.26%	89.68%
33.0	569.578	37.396	2674.474	1.07%	90.95%
34.0	437.134	30.466	2704.94	0.87%	91.99%
35.0	319.972	23.513	2728.453	0.67%	92.79%
36.0	244.492	17.973	2746.426	0.52%	93.40%
37.0	195.070	14.336	2760.762	0.41%	93.89%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	122.583	10.603	2771.365	0.30%	94.25%
39.0	103.219	7.707	2779.072	0.22%	94.51%
40.0	95.816	6.942	2786.014	0.20%	94.74%
41.0	89.210	6.589	2792.602	0.19%	94.97%
42.0	82.882	6.252	2798.855	0.18%	95.18%
43.0	76.979	5.922	2804.777	0.17%	95.38%
44.0	71.961	5.621	2810.398	0.16%	95.57%
45.0	67.147	5.346	2815.744	0.15%	95.76%
46.0	62.948	5.088	2820.832	0.15%	95.93%
47.0	59.583	4.873	2825.705	0.14%	96.09%
48.0	56.313	4.685	2830.39	0.13%	96.25%
49.0	53.636	4.515	2834.905	0.13%	96.41%
50.0	51.383	4.379	2839.284	0.13%	96.56%
51.0	49.459	4.266	2843.551	0.12%	96.70%
52.0	47.981	4.181	2847.732	0.12%	96.84%
53.0	46.657	4.117	2851.848	0.12%	96.98%
54.0	45.640	4.068	2855.917	0.12%	97.12%
55.0	44.543	4.026	2859.942	0.12%	97.26%
56.0	43.372	3.973	2863.915	0.11%	97.39%
57.0	42.026	3.905	2867.819	0.11%	97.53%
58.0	40.622	3.822	2871.641	0.11%	97.66%
59.0	38.800	3.713	2875.354	0.11%	97.78%
60.0	37.023	3.582	2878.937	0.10%	97.90%
61.0	34.784	3.427	2882.363	0.10%	98.02%
62.0	32.560	3.245	2885.608	0.09%	98.13%
63.0	30.410	3.063	2888.671	0.09%	98.24%
64.0	28.405	2.886	2891.557	0.08%	98.33%
65.0	26.525	2.718	2894.276	0.08%	98.43%
66.0	24.850	2.563	2896.839	0.07%	98.51%
67.0	23.489	2.431	2899.27	0.07%	98.60%
68.0	22.260	2.318	2901.587	0.07%	98.67%
69.0	21.368	2.226	2903.813	0.06%	98.75%
70.0	20.607	2.156	2905.969	0.06%	98.82%
71.0	20.007	2.099	2908.068	0.06%	98.89%
72.0	19.451	2.052	2910.119	0.06%	98.96%
73.0	18.969	2.009	2912.129	0.06%	99.03%
74.0	18.486	1.969	2914.098	0.06%	99.10%
75.0	18.083	1.932	2916.03	0.06%	99.17%

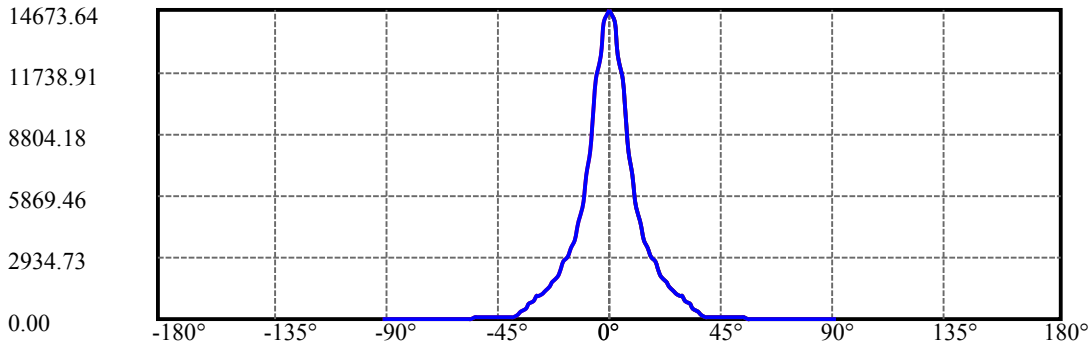
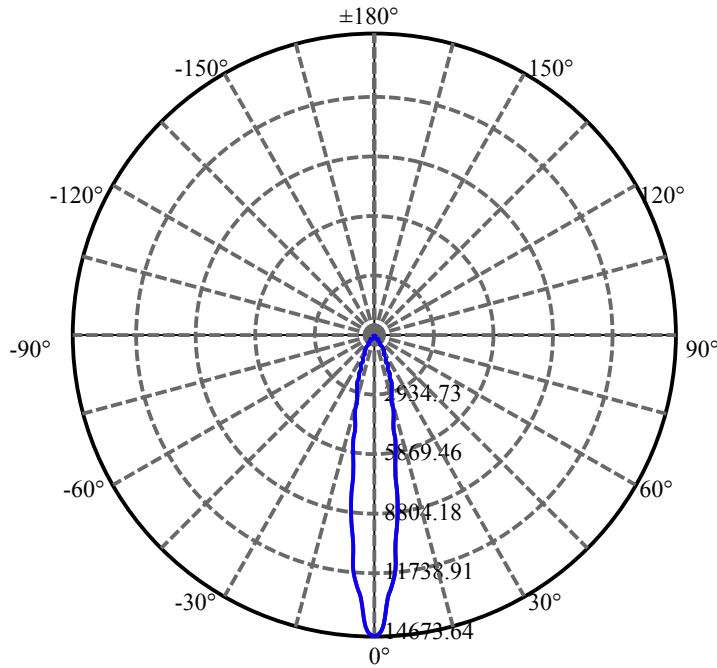
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.784	1.904	2917.934	0.05%	99.23%
77.0	17.462	1.879	2919.813	0.05%	99.29%
78.0	17.162	1.853	2921.666	0.05%	99.36%
79.0	16.847	1.827	2923.494	0.05%	99.42%
80.0	16.496	1.798	2925.291	0.05%	99.48%
81.0	15.845	1.749	2927.04	0.05%	99.54%
82.0	15.084	1.677	2928.717	0.05%	99.60%
83.0	14.536	1.610	2930.328	0.05%	99.65%
84.0	14.126	1.561	2931.889	0.04%	99.70%
85.0	13.811	1.525	2933.414	0.04%	99.76%
86.0	13.475	1.491	2934.905	0.04%	99.81%
87.0	13.146	1.457	2936.362	0.04%	99.86%
88.0	12.868	1.425	2937.787	0.04%	99.91%
89.0	12.655	1.399	2939.186	0.04%	99.95%
90.0	12.597	1.385	2940.571	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2543.76	73.01%	86.51%
0-40	2786.01	79.97%	94.74%
0-60	2878.94	82.63%	97.90%
0-90	2939.19	84.36%	99.95%
0-120	2939.19	84.36%	99.95%
0-180	2940.57	84.40%	100.00%
60-90	60.25	1.73%	2.05%
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%
0-26.63	2352.46	67.52%	80.00%

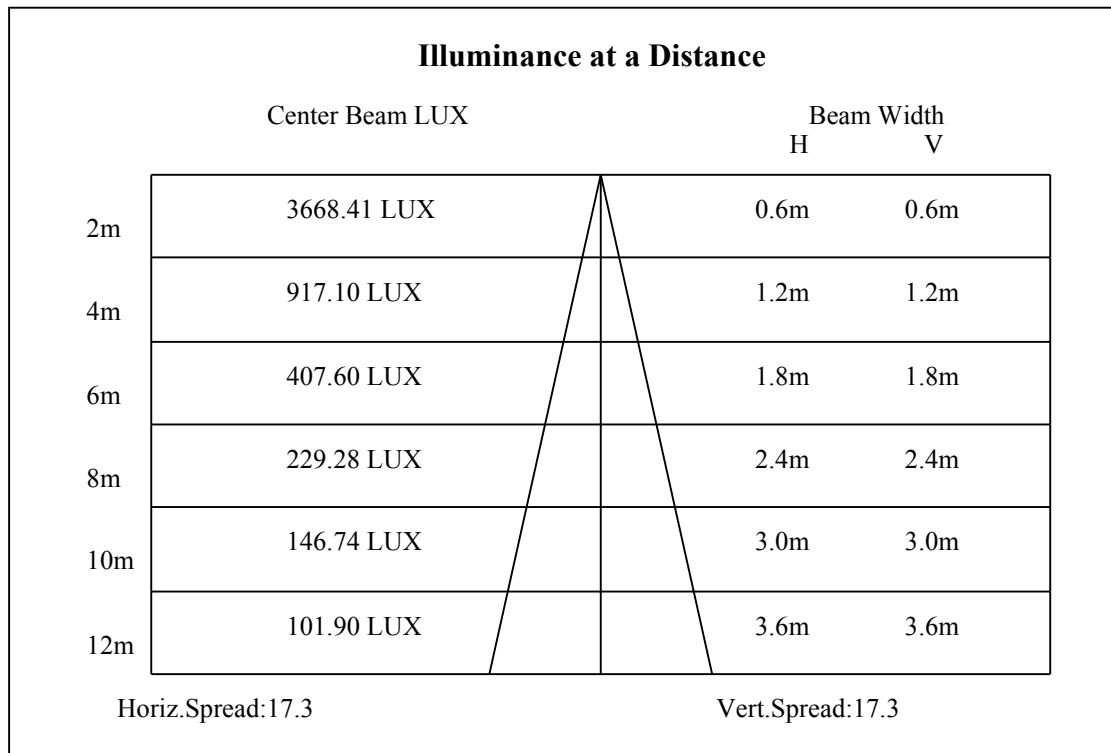
ZONAL LUMEN SUMMARY

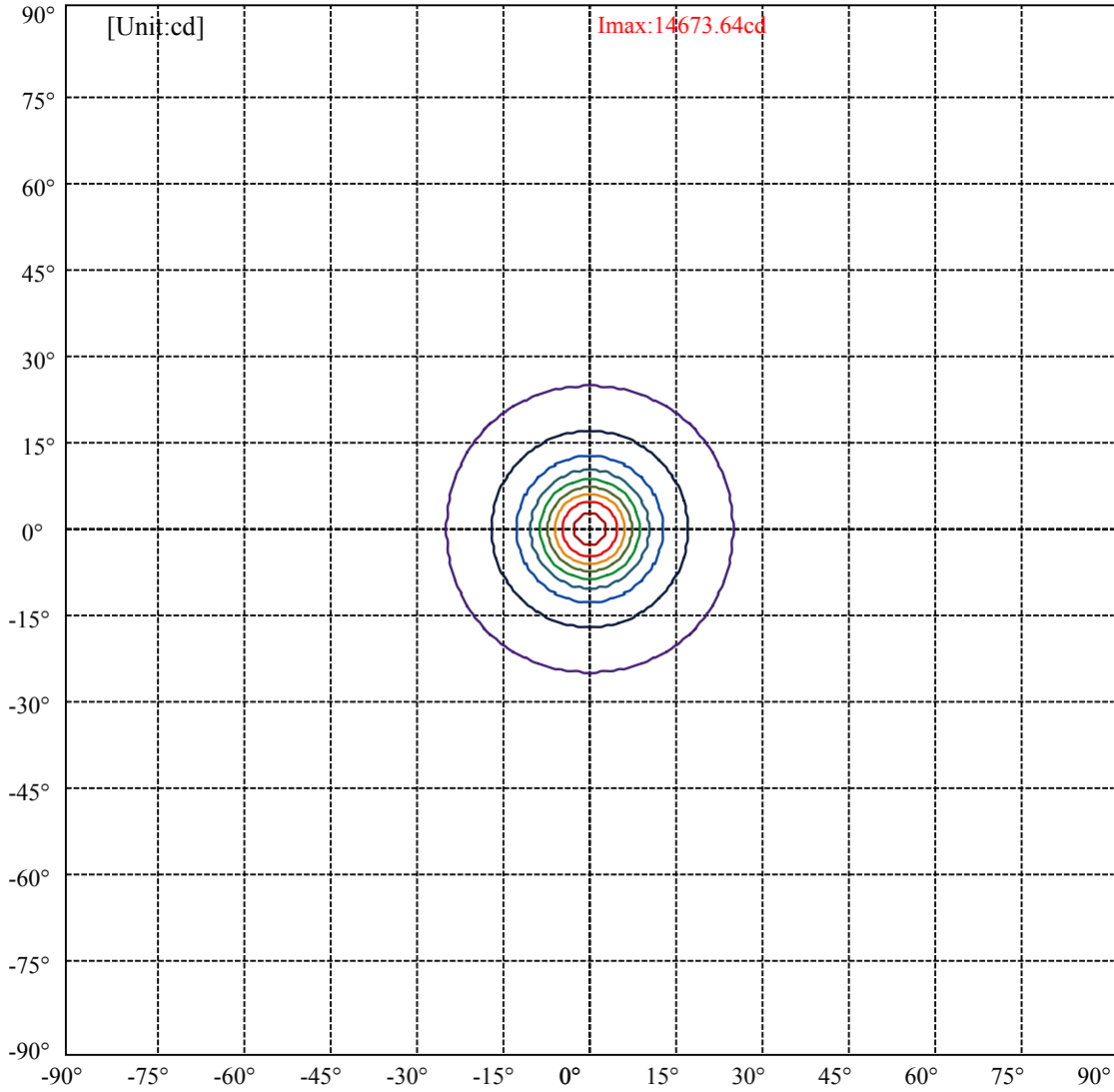
0-10	896.22
10-20	983.28
20-30	664.25
30-40	242.26
40-50	53.27
50-60	39.65
60-70	27.03
70-80	19.32
80-90	13.89
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



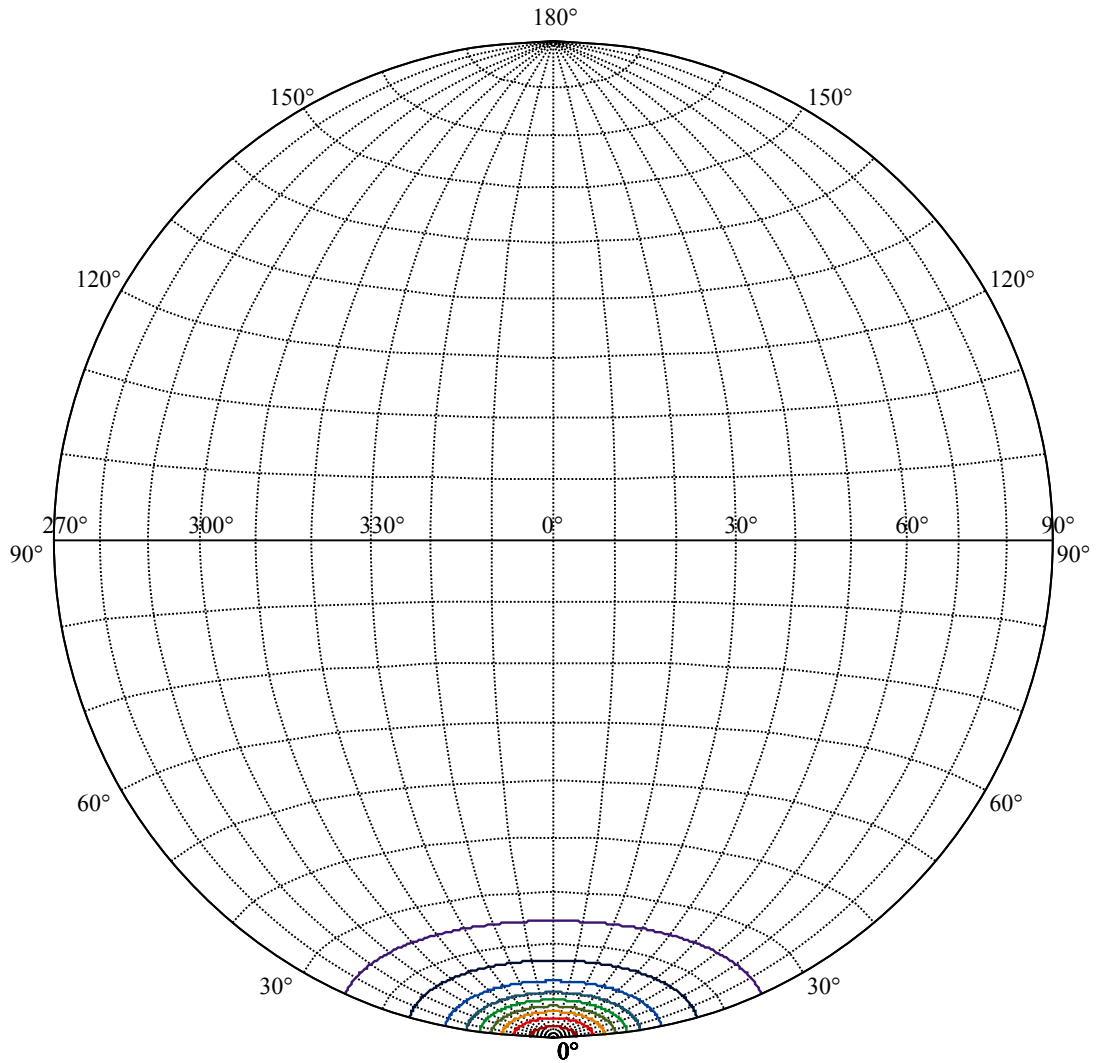
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:24.6 Right:24.6
:C90/270Left:24.6 Right:24.6
Beam Angle(50%Imax):C0/180Left:8.6 Right:8.6
:C90/270Left:8.6 Right:8.6





(10%Imax) 1467.36	—
(20%Imax) 2934.73	—
(30%Imax) 4402.09	—
(40%Imax) 5869.46	—
(50%Imax) 7336.82	—
(60%Imax) 8804.18	—
(70%Imax) 10271.5	—
(80%Imax) 11738.9	—
(90%Imax) 13206.3	—



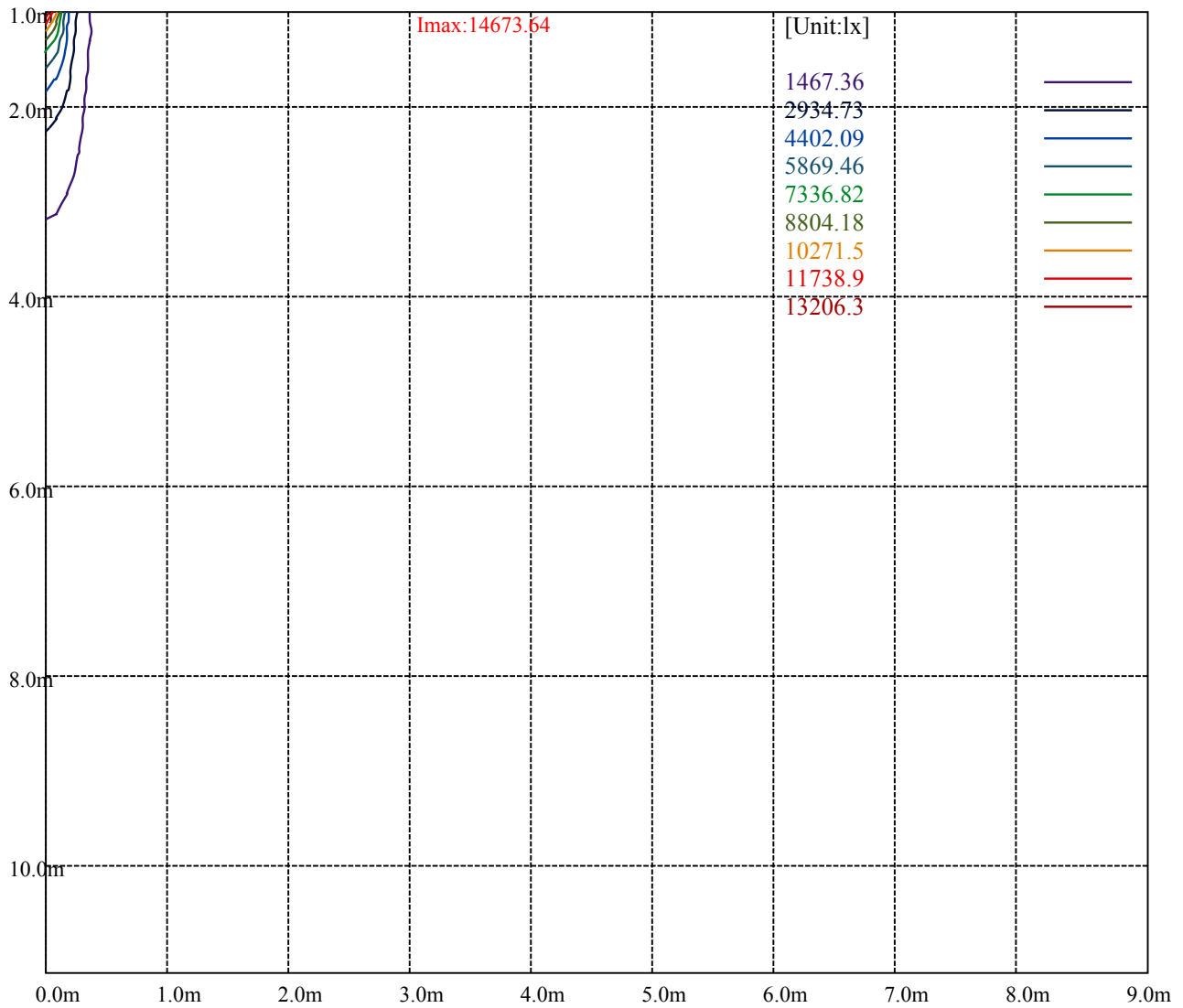
House

[Unit:cd]

Road

Imax:14673.64

(10%Imax) 1467.36	—
(20%Imax) 2934.73	—
(30%Imax) 4402.09	—
(40%Imax) 5869.46	—
(50%Imax) 7336.82	—
(60%Imax) 8804.18	—
(70%Imax) 10271.5	—
(80%Imax) 11738.9	—
(90%Imax) 13206.3	—



Luminance Table

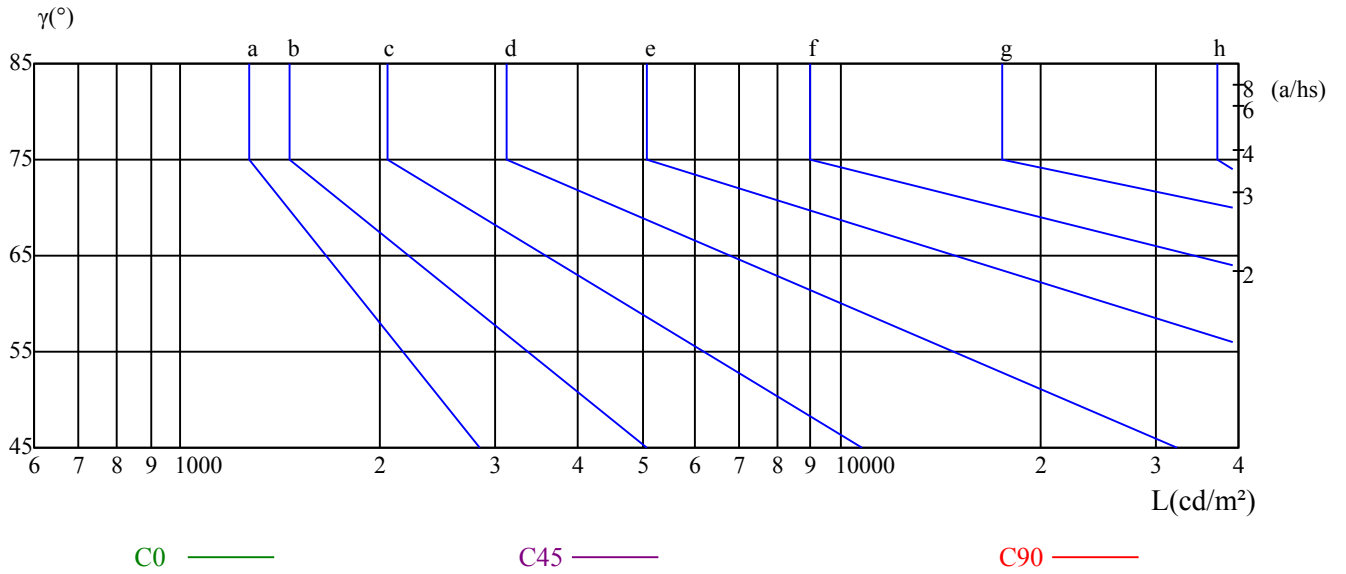
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

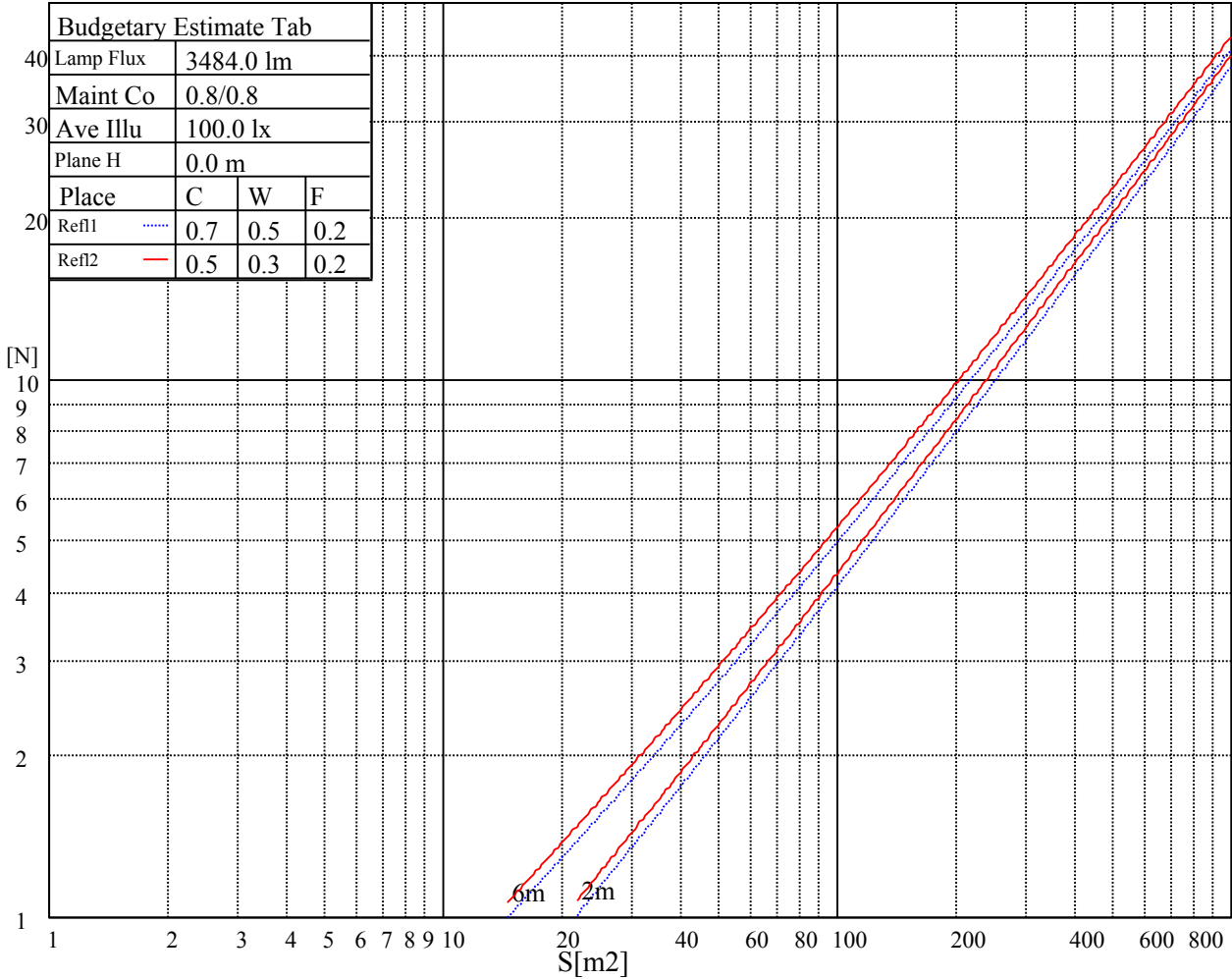
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

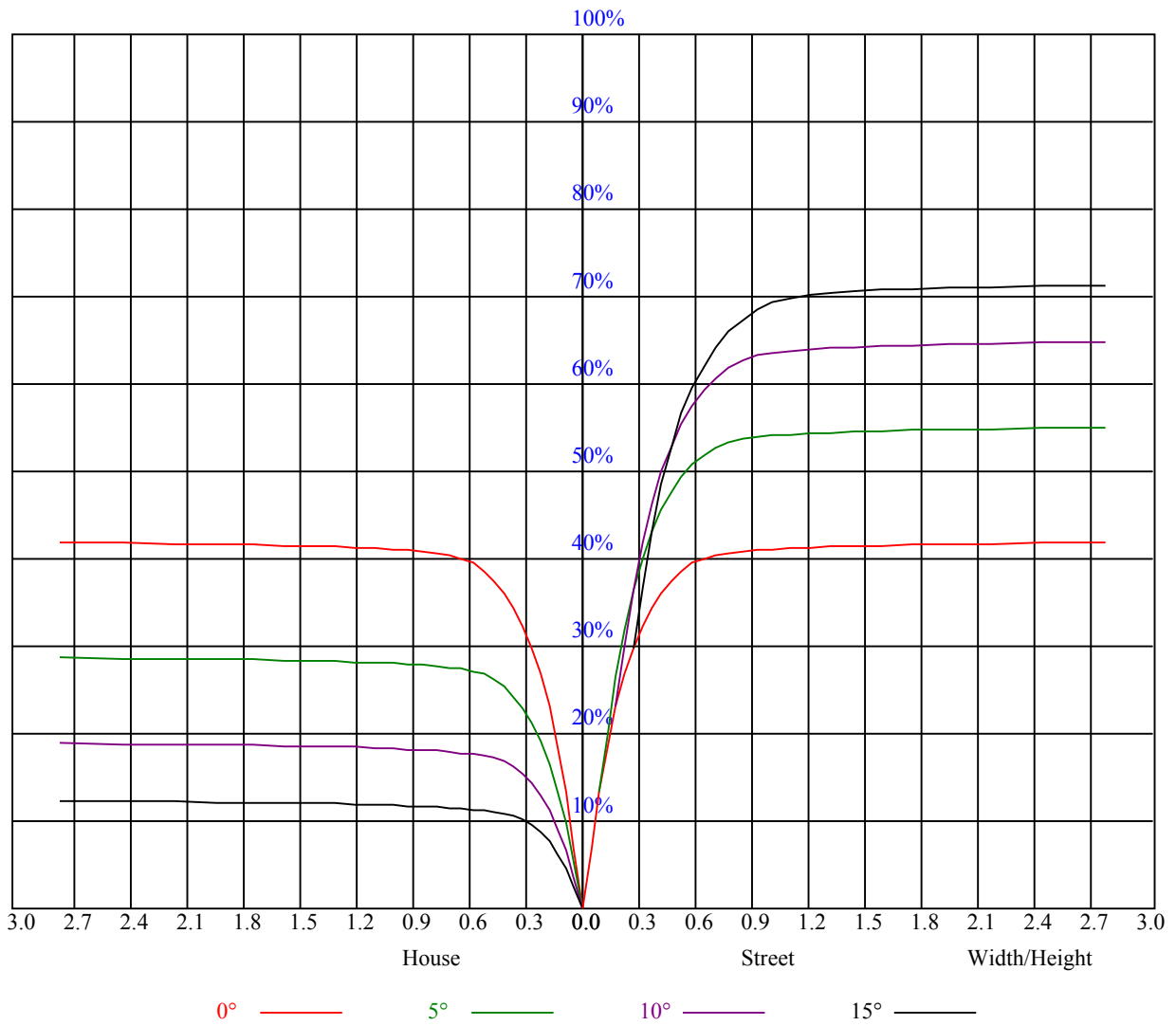


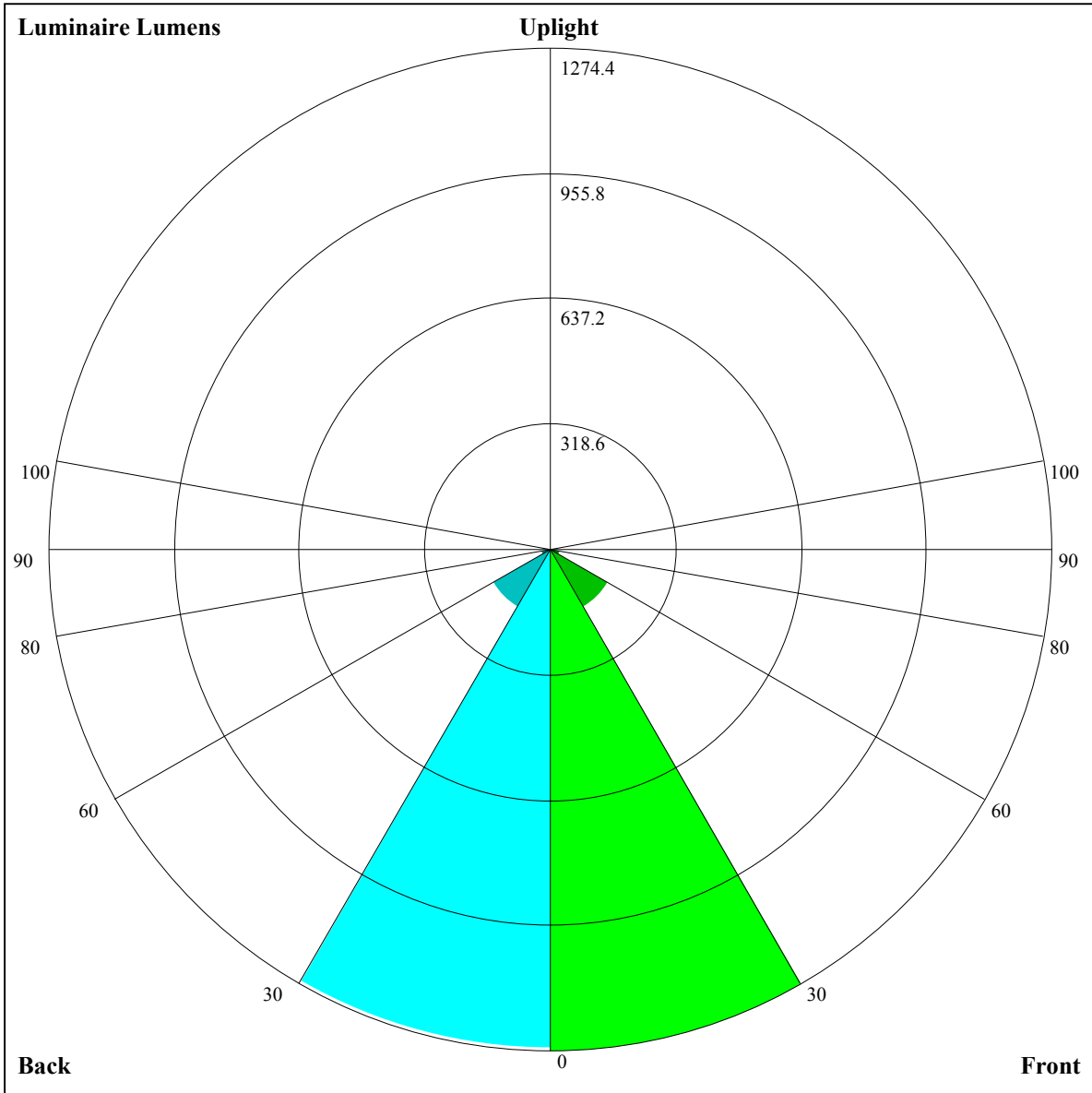
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
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	1.00	1.00	1.00	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.84
1	0.94	0.92	0.91	0.92	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.82	0.81	0.79	0.80	0.79	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	0.72	0.76	0.74	0.71	0.75	0.72	0.71	0.70
5	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.71	0.68	0.72	0.70	0.68	0.67
6	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
7	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
9	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.57
10	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.56	0.56





Luminaire Lumens:

FL=1274.4,FM=168.81,FH=23.41,FVH=7.7

BL=1268.12,BM=167.12,BH=23.04,BVH=7.63

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	14721.92	14546.35	13961.13	11578.15	11578.15	11040.91	9947.13	8829.35	7509.08
45.0	14599.02	14751.18	14610.73	14089.88	13405.16	12544.88	11555.85	10180.57	9086.20
90.0	14733.62	14517.09	14072.32	12860.90	11515.53	11245.74	10165.42	9061.10	7737.90
135.0	14639.99	14686.81	14528.80	13908.46	13188.63	12275.68	11005.74	9934.78	8840.41
180.0	14721.92	14610.73	14212.77	13615.84	12825.79	11637.78	10566.82	9443.19	8342.97
225.0	14599.02	14107.43	12919.43	11608.58	11349.33	10251.44	9109.67	7750.78	6763.50
270.0	14733.62	14593.17	14230.33	13393.46	12533.18	11555.85	10484.89	9086.20	8003.54
315.0	14639.99	14312.26	13569.03	11526.65	11526.65	10712.02	9315.08	8206.67	7167.89
360.0	14721.92	14546.35	13961.13	11578.15	11578.15	11040.91	9947.13	8829.35	7509.08
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6576.23	5780.33	5138.33	4611.63	4077.91	3713.31	3402.56	3118.14	2812.06
45.0	8003.54	7014.51	5966.95	5299.80	4749.69	4187.87	3807.47	3473.90	3111.06
90.0	6755.90	5734.09	5099.71	4587.05	4150.47	3775.34	3373.30	3095.90	2847.76
135.0	7523.65	6587.29	5803.09	5024.74	4515.60	4082.53	3707.99	3310.03	3029.12
180.0	7073.03	6195.19	5457.81	4720.42	4263.95	3848.44	3421.23	3134.47	3005.72
225.0	5918.44	5095.03	4570.08	4118.87	3734.38	3319.45	3039.13	2789.83	2564.51
270.0	6991.10	5925.99	5223.72	4667.75	4111.79	3713.84	3397.82	3052.53	2982.31
315.0	6067.67	5371.84	4808.85	4235.92	3854.35	3523.11	3154.42	2899.26	2658.15
360.0	6576.23	5780.33	5138.33	4611.63	4077.91	3713.31	3402.56	3118.14	2812.06
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2592.02	2355.59	2180.02	2022.01	1830.06	1691.36	1554.42	1415.13	1155.29
45.0	2994.01	2994.01	2405.92	2224.50	2058.29	1900.87	1718.28	1574.31	1429.18
90.0	2625.38	2376.07	2199.92	2039.57	1856.39	1713.60	1542.13	1401.67	1154.06
135.0	2964.75	2964.75	2328.67	2157.20	2000.36	1824.79	1689.60	1554.42	1384.12
180.0	3005.72	2388.95	2196.99	1994.51	1848.20	1715.35	1576.07	1407.52	1282.29
225.0	2318.13	2144.32	1988.65	1814.84	1679.07	1516.96	1385.29	1161.91	1161.91
270.0	2982.31	2370.22	2162.46	2007.38	1863.41	1725.30	1552.08	1418.06	1298.67
315.0	2402.41	2223.91	2057.12	1911.40	1737.59	1601.23	1465.46	1259.46	1153.95
360.0	2592.02	2355.59	2180.02	2022.01	1830.06	1691.36	1554.42	1415.13	1155.29
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1155.29	1123.81	1055.92	929.69	816.10	694.43	571.59	422.88	309.41
45.0	1298.67	1187.48	1126.62	1052.29	962.17	853.90	702.91	579.43	455.95
90.0	1154.06	1108.07	1041.23	949.64	813.23	687.35	560.59	403.10	292.44
135.0	1266.49	1185.14	1111.99	1040.00	940.52	826.98	674.24	551.34	427.86
180.0	1197.43	1131.30	1061.66	972.70	863.85	708.77	586.45	437.81	325.44
225.0	1116.55	1041.82	944.85	831.72	679.10	555.61	435.35	322.28	205.18
270.0	1192.16	1126.03	1068.68	956.32	845.71	680.68	556.02	426.10	313.74
315.0	1137.56	1083.95	974.63	864.55	715.44	590.49	469.47	354.12	229.76
360.0	1155.29	1123.81	1055.92	929.69	816.10	694.43	571.59	422.88	309.41
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	194.00	133.78	111.54	100.72	94.69	88.54	81.35	76.20	71.40
45.0	340.07	313.74	200.09	119.03	109.67	100.66	94.05	87.43	81.93
90.0	199.09	137.88	111.54	101.36	95.45	88.25	82.34	77.48	71.63
135.0	314.91	314.91	130.45	108.38	98.49	92.70	86.73	79.71	74.79
180.0	299.11	299.11	107.56	99.55	93.05	87.32	79.65	74.85	70.29
225.0	140.16	110.43	102.36	96.21	88.37	81.93	76.66	71.57	65.95
270.0	313.74	132.85	110.26	102.36	94.57	88.54	82.22	75.38	70.81
315.0	154.85	117.86	106.86	98.14	92.23	85.74	80.06	73.21	68.88
360.0	194.00	133.78	111.54	100.72	94.69	88.54	81.35	76.20	71.40

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	66.95	62.09	58.46	55.77	53.20	50.91	48.98	47.81	46.41
45.0	75.14	70.58	66.25	61.45	58.29	54.66	52.61	50.50	48.81
90.0	67.24	63.67	60.16	56.71	54.02	52.14	50.15	48.81	47.52
135.0	69.35	65.08	61.74	58.46	55.25	52.79	50.97	49.33	47.87
180.0	66.07	61.39	58.17	55.60	52.67	50.74	48.40	47.11	45.88
225.0	62.21	58.70	56.06	52.73	50.91	48.87	47.23	45.65	44.83
270.0	66.48	61.92	58.58	55.83	52.85	50.97	49.16	47.87	46.12
315.0	63.73	60.16	57.24	53.96	51.91	49.98	48.16	46.76	45.82
360.0	66.95	62.09	58.46	55.77	53.20	50.91	48.98	47.81	46.41
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	45.53	44.18	43.25	41.90	40.79	38.27	36.93	34.59	32.54
45.0	47.46	46.47	45.41	44.36	42.72	41.79	39.97	37.81	35.64
90.0	46.58	45.30	44.59	42.72	41.49	39.50	38.04	35.17	33.30
135.0	46.82	45.94	44.59	43.66	42.14	40.56	38.51	37.04	34.00
180.0	45.00	43.60	42.60	41.32	40.20	37.81	36.52	34.53	32.25
225.0	43.54	42.60	40.73	39.44	37.63	36.17	33.94	31.78	29.44
270.0	45.30	44.30	43.31	41.43	40.26	38.57	36.52	34.18	32.07
315.0	44.89	43.95	42.49	41.38	39.74	37.75	35.76	33.18	31.25
360.0	45.53	44.18	43.25	41.90	40.79	38.27	36.93	34.59	32.54
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	29.96	28.09	26.51	24.40	23.29	22.06	21.07	20.42	19.84
45.0	33.36	31.02	28.79	27.21	24.99	23.76	22.53	21.54	20.72
90.0	31.08	28.68	26.86	25.16	23.94	22.36	21.59	20.83	20.25
135.0	32.42	30.20	28.56	26.16	24.87	23.64	22.41	21.48	20.78
180.0	30.08	28.27	26.10	24.58	23.47	21.95	21.19	20.48	19.78
225.0	27.86	25.98	24.17	23.00	21.77	20.83	20.13	19.49	19.02
270.0	29.61	28.03	26.10	24.29	23.00	21.89	21.19	20.31	19.84
315.0	28.91	26.98	25.11	23.99	22.59	21.59	20.83	20.31	19.84
360.0	29.96	28.09	26.51	24.40	23.29	22.06	21.07	20.42	19.84
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.25	18.79	18.38	17.97	17.50	17.09	16.68	16.27	15.80
45.0	20.13	19.61	18.96	18.55	18.08	17.67	17.15	16.80	16.39
90.0	19.61	19.14	18.55	18.14	17.79	17.26	16.91	16.56	16.33
135.0	20.19	19.55	19.02	18.49	18.08	17.67	17.32	17.15	17.44
180.0	19.31	18.84	18.38	17.85	17.38	16.91	16.44	15.98	15.57
225.0	18.55	18.02	17.62	17.21	16.80	16.33	15.92	15.57	15.22
270.0	19.31	18.90	18.43	18.02	17.79	17.62	17.50	17.26	17.03
315.0	19.25	18.90	18.55	18.43	18.84	19.14	19.37	19.20	18.20
360.0	19.25	18.79	18.38	17.97	17.50	17.09	16.68	16.27	15.80
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.39	14.86	14.51	14.16	13.87	13.58	13.23	12.93	12.70
45.0	15.92	15.51	14.98	14.57	14.16	13.87	13.52	13.17	12.87
90.0	15.98	15.27	14.63	14.16	13.93	13.58	13.28	12.93	12.70
135.0	17.03	15.68	14.98	14.34	13.99	13.69	13.34	13.05	12.76
180.0	15.10	14.75	14.34	13.99	13.69	13.34	13.11	12.82	12.52
225.0	14.75	14.34	13.99	13.69	13.34	13.05	12.76	12.52	12.58
270.0	16.50	15.45	14.57	14.16	13.81	13.40	13.05	12.76	12.52
315.0	16.09	14.81	14.28	13.93	13.69	13.28	12.87	12.76	12.58
360.0	15.39	14.86	14.51	14.16	13.87	13.58	13.23	12.93	12.70

Intensity data(cd)

C/ γ (°)	90.0
0.0	12.64
45.0	12.64
90.0	12.58
135.0	12.58
180.0	12.58
225.0	12.58
270.0	12.58
315.0	12.58
360.0	12.64