



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: 2-2561-L

Luminaire: 92.70.411.00

Report No: 2024910-B003

Ballast type: AC

Test No: 2024910-C003

Voltage(V): 33.620

LampCAT: NICHIA NFCWJ120B-V3

Current(A): 0.580

Lamp flux(lm): 2597.0

Power (W): 19.490

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2411.68, Efficiency(%): 92.86% , Luminous Efficacy(lm/W): 123.74

Central intensity(cd): 9383.472, Maximum intensity(cd): 9383.472

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=22.2

[C90/270]Total=22.2

Field angle(10%Imax): [C0/180]Total=56.2

[C90/270]Total=56.2

Maximum s/h(1/2): C0_180=0.38 C90_270=0.38

Maximum s/h(1/4): C0_180=0.41 C90_270=0.41

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.86%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.035%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/10
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	9383.471	0.000	0	0.00%	0.00%
1.0	9345.934	8.962	8.962	0.35%	0.37%
2.0	9184.633	26.597	35.558	1.02%	1.47%
3.0	8942.051	43.353	78.912	1.67%	3.27%
4.0	8665.979	58.940	137.851	2.27%	5.72%
5.0	8232.582	72.697	210.548	2.80%	8.73%
6.0	7706.832	83.766	294.314	3.23%	12.20%
7.0	7167.639	92.326	386.639	3.56%	16.03%
8.0	6559.550	98.243	484.882	3.78%	20.11%
9.0	5934.628	101.259	586.141	3.90%	24.30%
10.0	5319.384	101.845	687.986	3.92%	28.53%
11.0	4746.696	100.581	788.566	3.87%	32.70%
12.0	4225.263	98.076	886.643	3.78%	36.76%
13.0	3759.467	94.759	981.401	3.65%	40.69%
14.0	3350.301	91.004	1072.406	3.50%	44.47%
15.0	2993.645	87.093	1159.498	3.35%	48.08%
16.0	2714.511	83.640	1243.139	3.22%	51.55%
17.0	2419.498	79.950	1323.089	3.08%	54.86%
18.0	2197.875	76.130	1399.22	2.93%	58.02%
19.0	2012.901	73.259	1472.478	2.82%	61.06%
20.0	1825.693	70.257	1542.735	2.71%	63.97%
21.0	1682.644	67.367	1610.102	2.59%	66.76%
22.0	1540.357	64.768	1674.87	2.49%	69.45%
23.0	1415.758	62.027	1736.897	2.39%	72.02%
24.0	1311.999	59.639	1796.536	2.30%	74.49%
25.0	1225.508	57.697	1854.233	2.22%	76.89%
26.0	1102.873	54.962	1909.195	2.12%	79.16%
27.0	1030.619	52.196	1961.391	2.01%	81.33%
28.0	945.540	50.032	2011.423	1.93%	83.40%
29.0	852.978	47.054	2058.478	1.81%	85.35%
30.0	759.686	43.542	2102.019	1.68%	87.16%
31.0	667.018	39.703	2141.722	1.53%	88.81%
32.0	576.709	35.631	2177.354	1.37%	90.28%
33.0	491.755	31.477	2208.831	1.21%	91.59%
34.0	412.760	27.373	2236.204	1.05%	92.72%
35.0	351.209	23.726	2259.93	0.91%	93.71%
36.0	301.111	20.770	2280.7	0.80%	94.57%
37.0	220.900	17.025	2297.726	0.66%	95.27%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	184.297	13.525	2311.251	0.52%	95.84%
39.0	150.690	11.434	2322.685	0.44%	96.31%
40.0	121.906	9.507	2332.192	0.37%	96.70%
41.0	86.301	7.414	2339.606	0.29%	97.01%
42.0	68.850	5.637	2345.243	0.22%	97.25%
43.0	55.276	4.598	2349.841	0.18%	97.44%
44.0	45.414	3.800	2353.641	0.15%	97.59%
45.0	38.712	3.233	2356.874	0.12%	97.73%
46.0	33.831	2.837	2359.711	0.11%	97.85%
47.0	30.296	2.550	2362.262	0.10%	97.95%
48.0	27.733	2.346	2364.607	0.09%	98.05%
49.0	25.788	2.198	2366.805	0.08%	98.14%
50.0	24.343	2.090	2368.896	0.08%	98.23%
51.0	23.272	2.015	2370.91	0.08%	98.31%
52.0	22.536	1.966	2372.876	0.08%	98.39%
53.0	22.030	1.939	2374.814	0.07%	98.47%
54.0	21.715	1.928	2376.742	0.07%	98.55%
55.0	21.537	1.931	2378.673	0.07%	98.63%
56.0	21.432	1.942	2380.615	0.07%	98.71%
57.0	21.308	1.954	2382.569	0.08%	98.79%
58.0	21.104	1.961	2384.53	0.08%	98.87%
59.0	20.703	1.954	2386.485	0.08%	98.96%
60.0	20.026	1.924	2388.409	0.07%	99.03%
61.0	19.297	1.877	2390.286	0.07%	99.11%
62.0	18.029	1.799	2392.084	0.07%	99.19%
63.0	16.886	1.698	2393.782	0.07%	99.26%
64.0	15.519	1.590	2395.372	0.06%	99.32%
65.0	14.008	1.461	2396.834	0.06%	99.38%
66.0	12.799	1.337	2398.171	0.05%	99.44%
67.0	11.564	1.225	2399.396	0.05%	99.49%
68.0	10.532	1.119	2400.515	0.04%	99.54%
69.0	9.685	1.031	2401.547	0.04%	99.58%
70.0	8.975	0.958	2402.505	0.04%	99.62%
71.0	8.311	0.893	2403.399	0.03%	99.66%
72.0	7.694	0.832	2404.231	0.03%	99.69%
73.0	7.194	0.779	2405.009	0.03%	99.72%
74.0	6.649	0.728	2405.737	0.03%	99.75%
75.0	6.104	0.674	2406.411	0.03%	99.78%

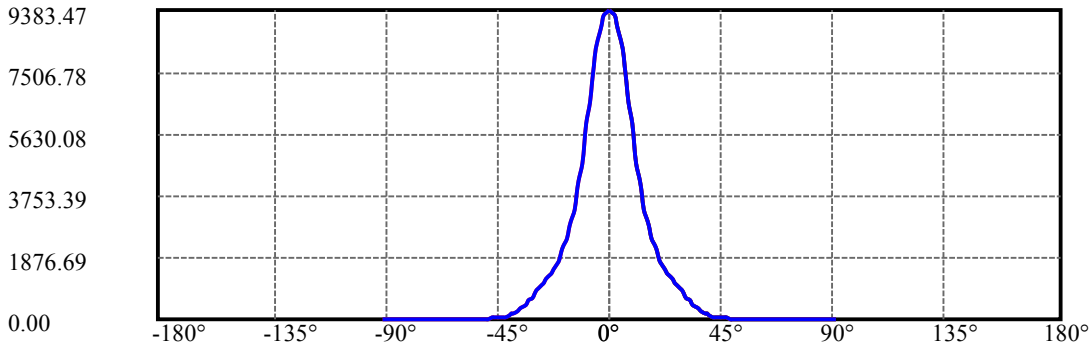
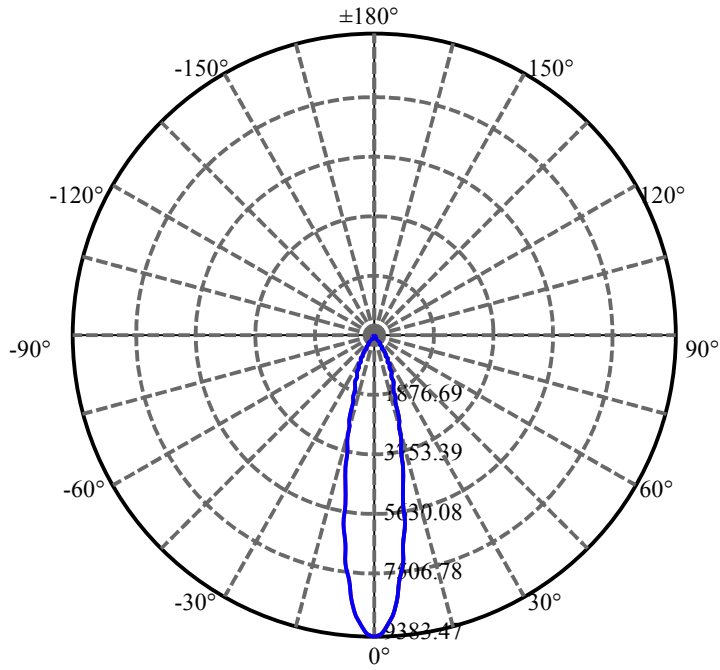
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.624	0.623	2407.034	0.02%	99.81%
77.0	5.145	0.574	2407.608	0.02%	99.83%
78.0	4.770	0.531	2408.138	0.02%	99.85%
79.0	4.323	0.489	2408.627	0.02%	99.87%
80.0	3.962	0.447	2409.074	0.02%	99.89%
81.0	3.620	0.410	2409.484	0.02%	99.91%
82.0	3.259	0.373	2409.857	0.01%	99.92%
83.0	2.944	0.337	2410.194	0.01%	99.94%
84.0	2.622	0.303	2410.497	0.01%	99.95%
85.0	2.300	0.269	2410.766	0.01%	99.96%
86.0	2.024	0.236	2411.002	0.01%	99.97%
87.0	1.741	0.206	2411.208	0.01%	99.98%
88.0	1.531	0.179	2411.387	0.01%	99.99%
89.0	1.327	0.157	2411.544	0.01%	99.99%
90.0	1.196	0.138	2411.682	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2102.02	80.94%	87.16%
0-40	2332.19	89.80%	96.70%
0-60	2388.41	91.97%	99.03%
0-90	2411.54	92.86%	99.99%
0-120	2411.54	92.86%	99.99%
0-180	2411.68	92.86%	100.00%
60-90	23.13	0.89%	0.96%
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%
0-26.39	1929.35	74.29%	80.00%

ZONAL LUMEN SUMMARY

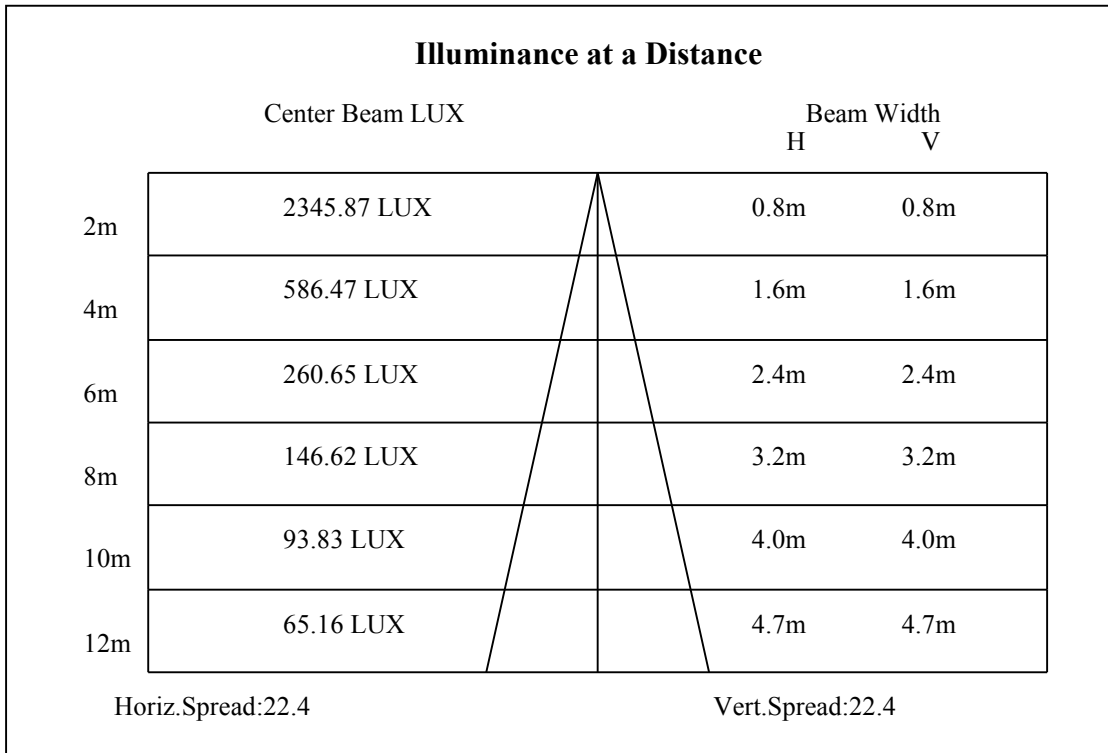
0-10	687.99
10-20	854.75
20-30	559.28
30-40	230.17
40-50	36.70
50-60	19.51
60-70	14.10
70-80	6.57
80-90	2.47
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

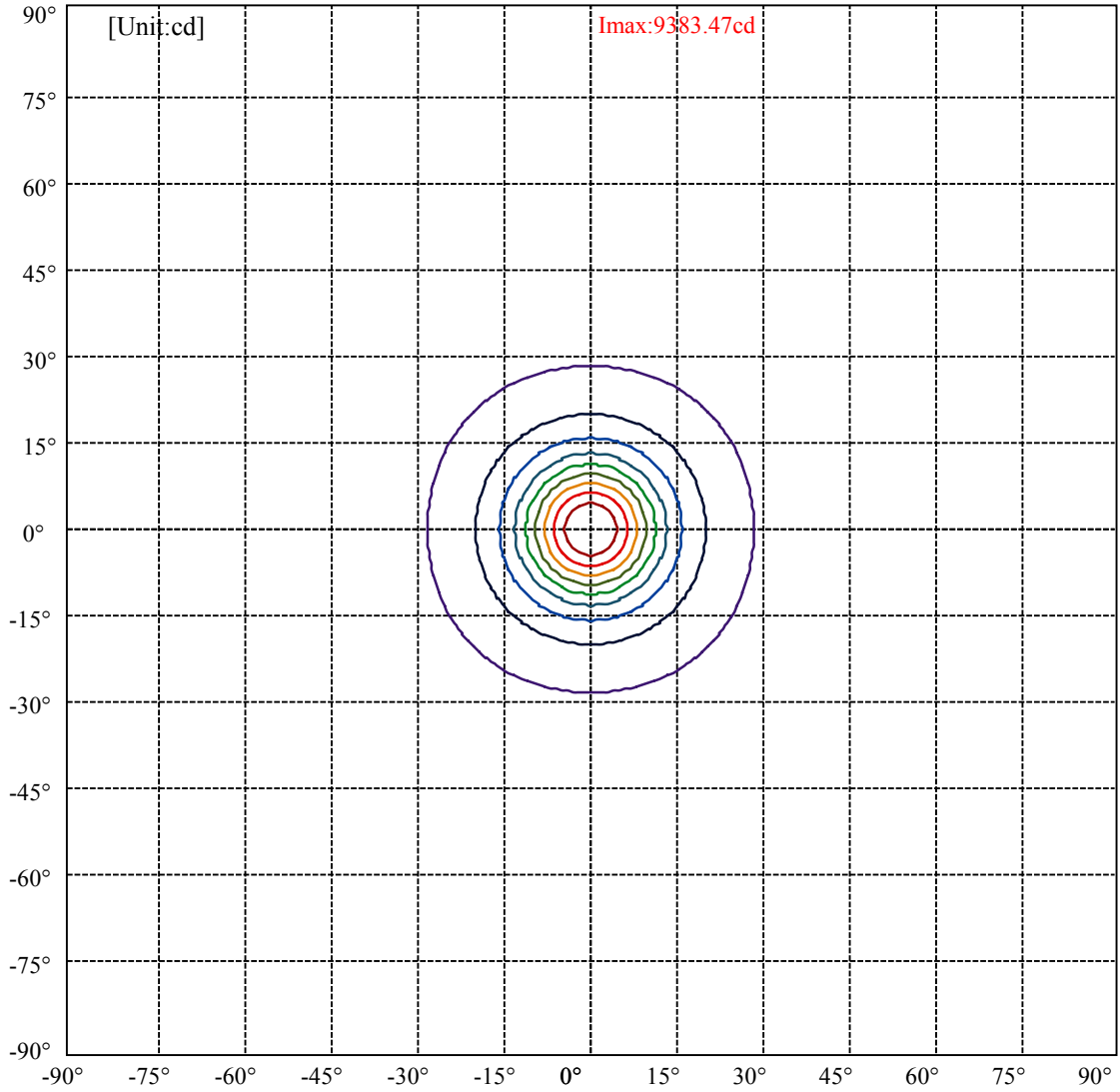


C0(Max): —————
C0/C180: —————
C90/C270: —————

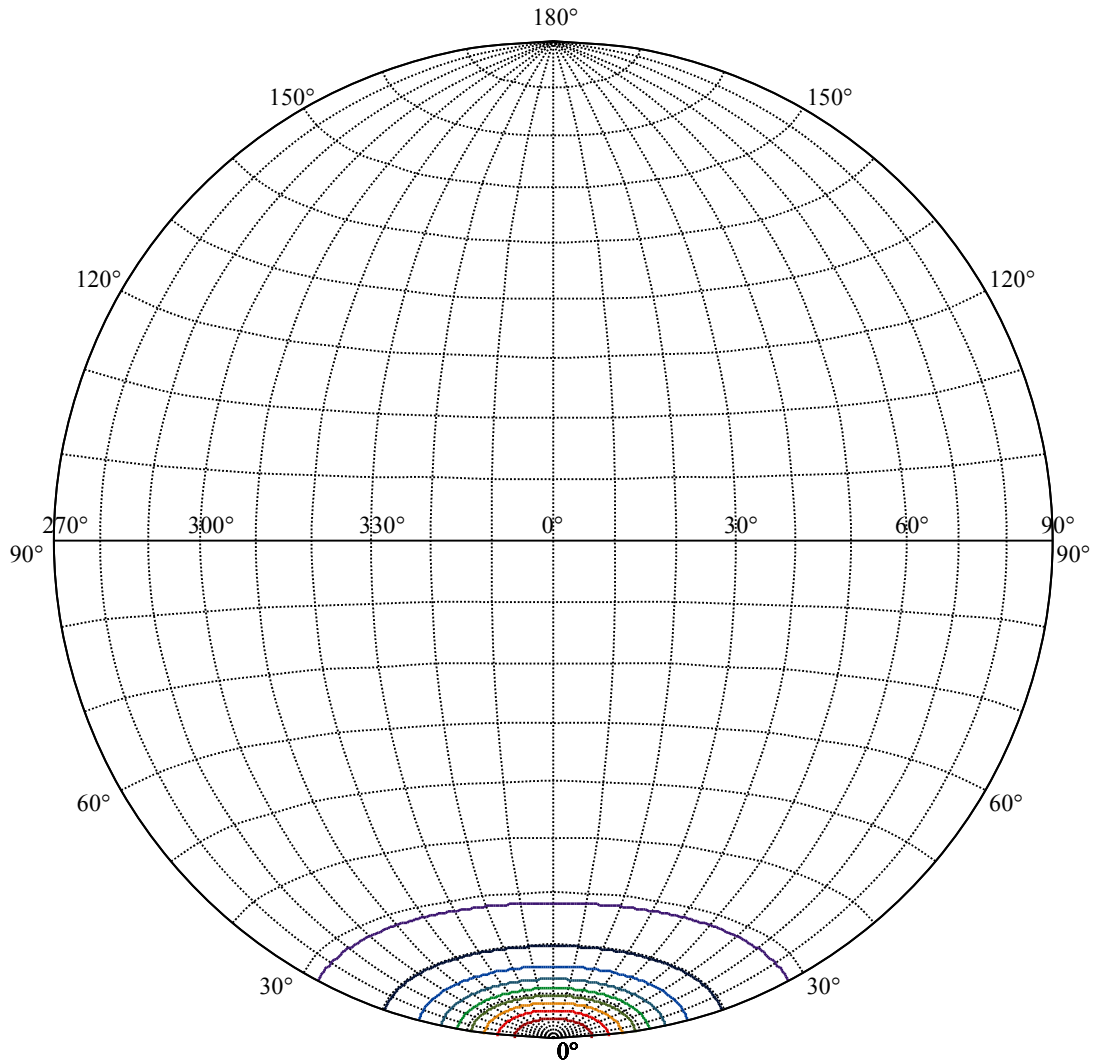
Field angle(10%Imax):C0/180Left:28.1 Right:28.1
:C90/270Left:28.1 Right:28.1

Beam Angle(50%Imax):C0/180Left:11.1 Right:11.1
:C90/270Left:11.1 Right:11.1





(10%Imax) 938.347	—
(20%Imax) 1876.69	—
(30%Imax) 2815.04	—
(40%Imax) 3753.39	—
(50%Imax) 4691.74	—
(60%Imax) 5630.08	—
(70%Imax) 6568.43	—
(80%Imax) 7506.78	—
(90%Imax) 8445.13	—



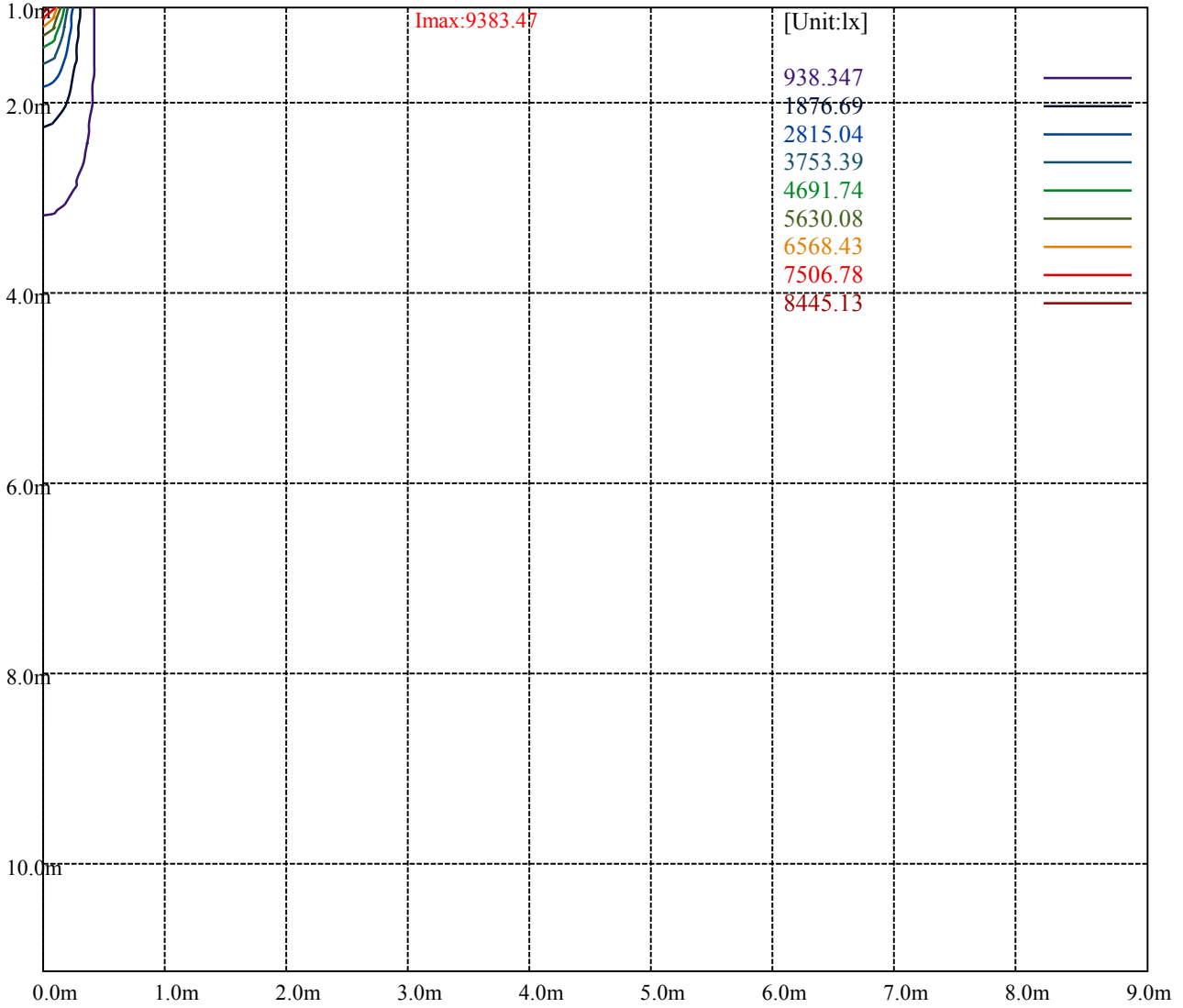
House

[Unit:cd]

Road

Imax:9383.47

(10%Imax) 938.347	—
(20%Imax) 1876.69	—
(30%Imax) 2815.04	—
(40%Imax) 3753.39	—
(50%Imax) 4691.74	—
(60%Imax) 5630.08	—
(70%Imax) 6568.43	—
(80%Imax) 7506.78	—
(90%Imax) 8445.13	—



Luminance Table

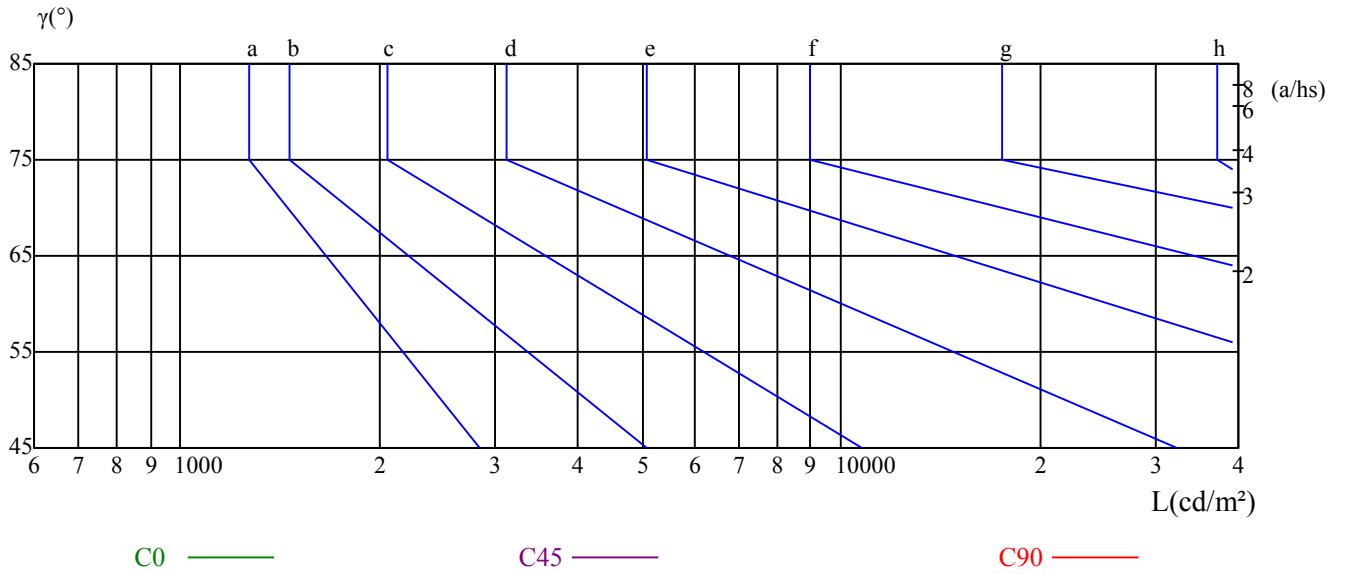
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

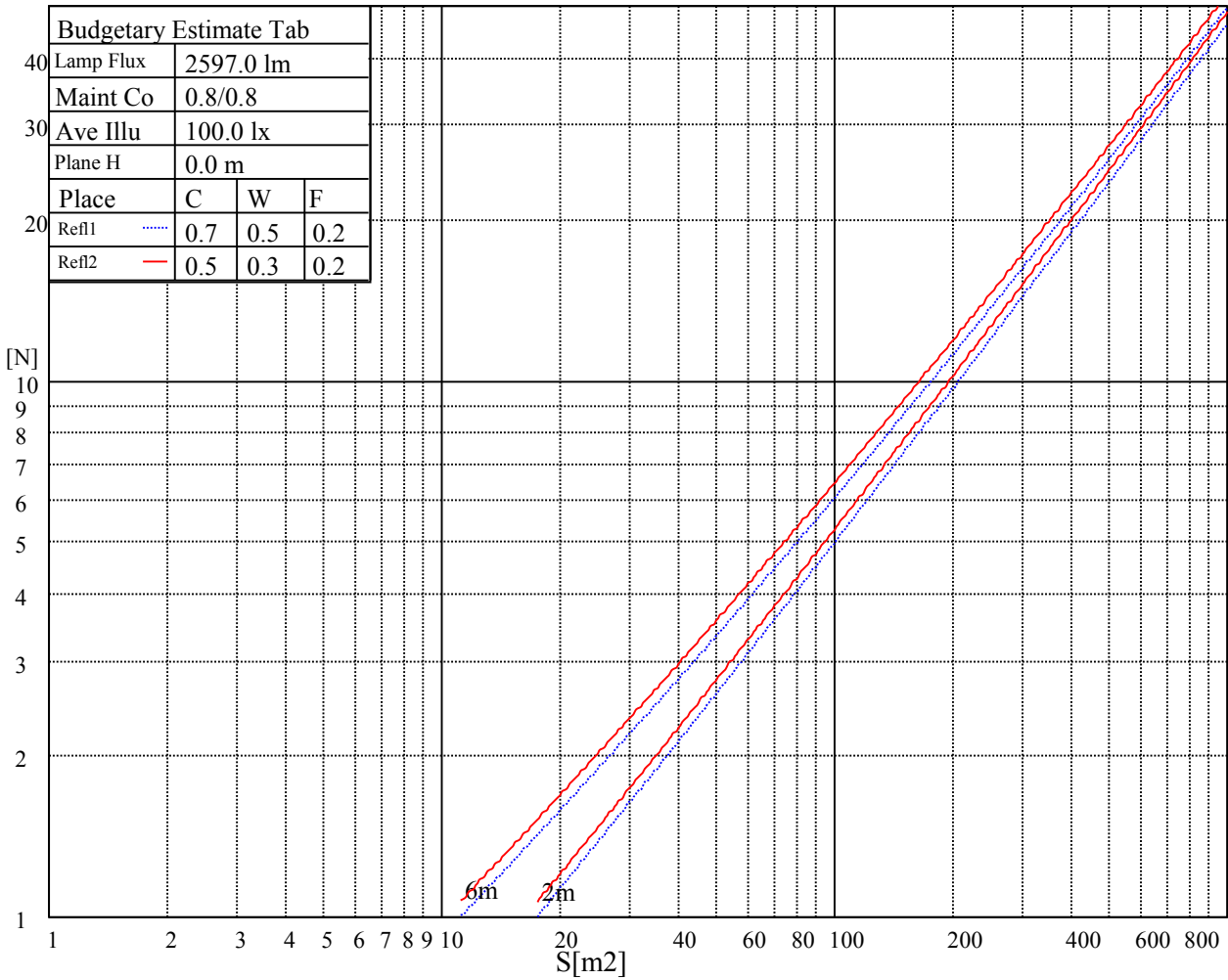
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

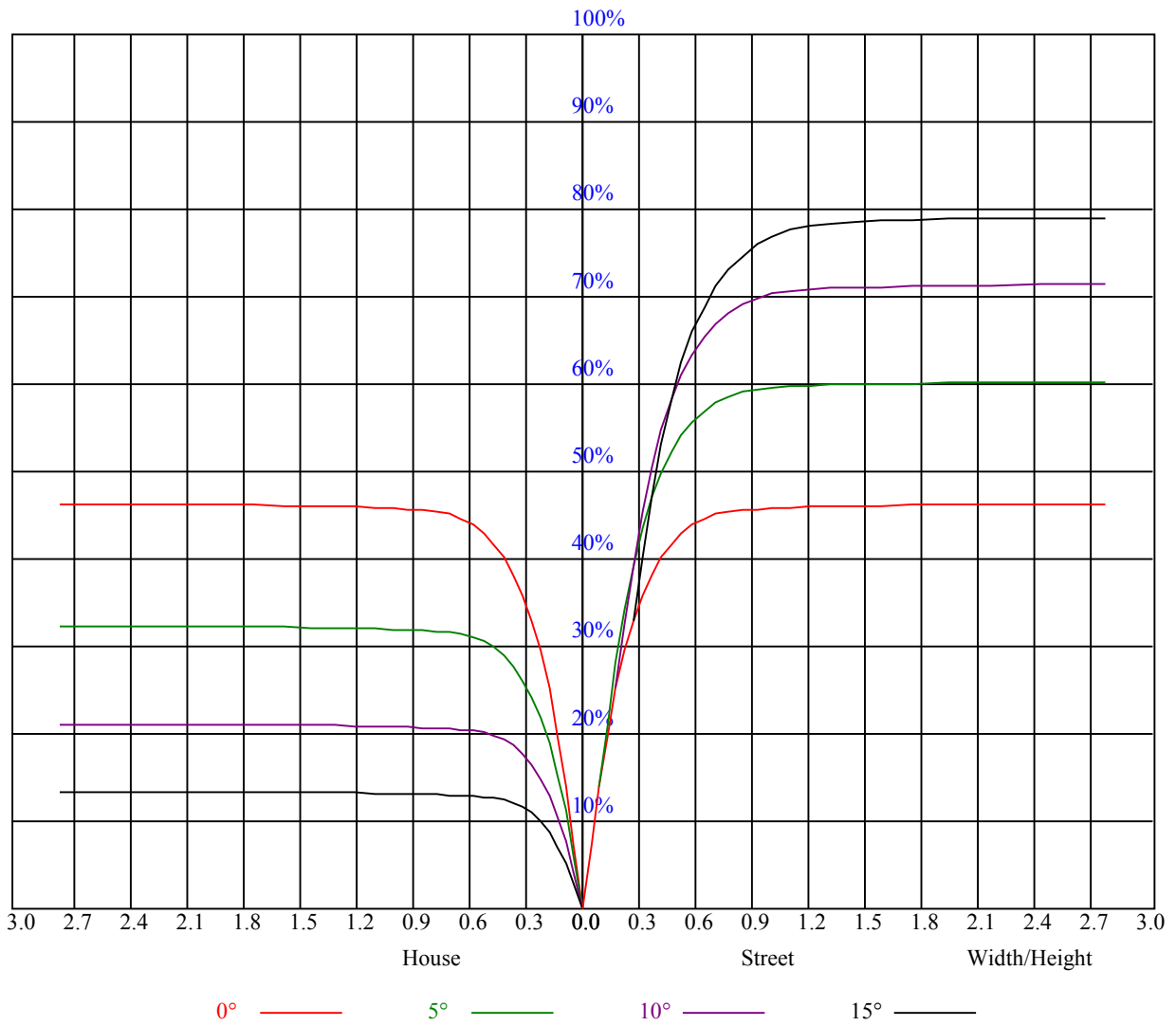


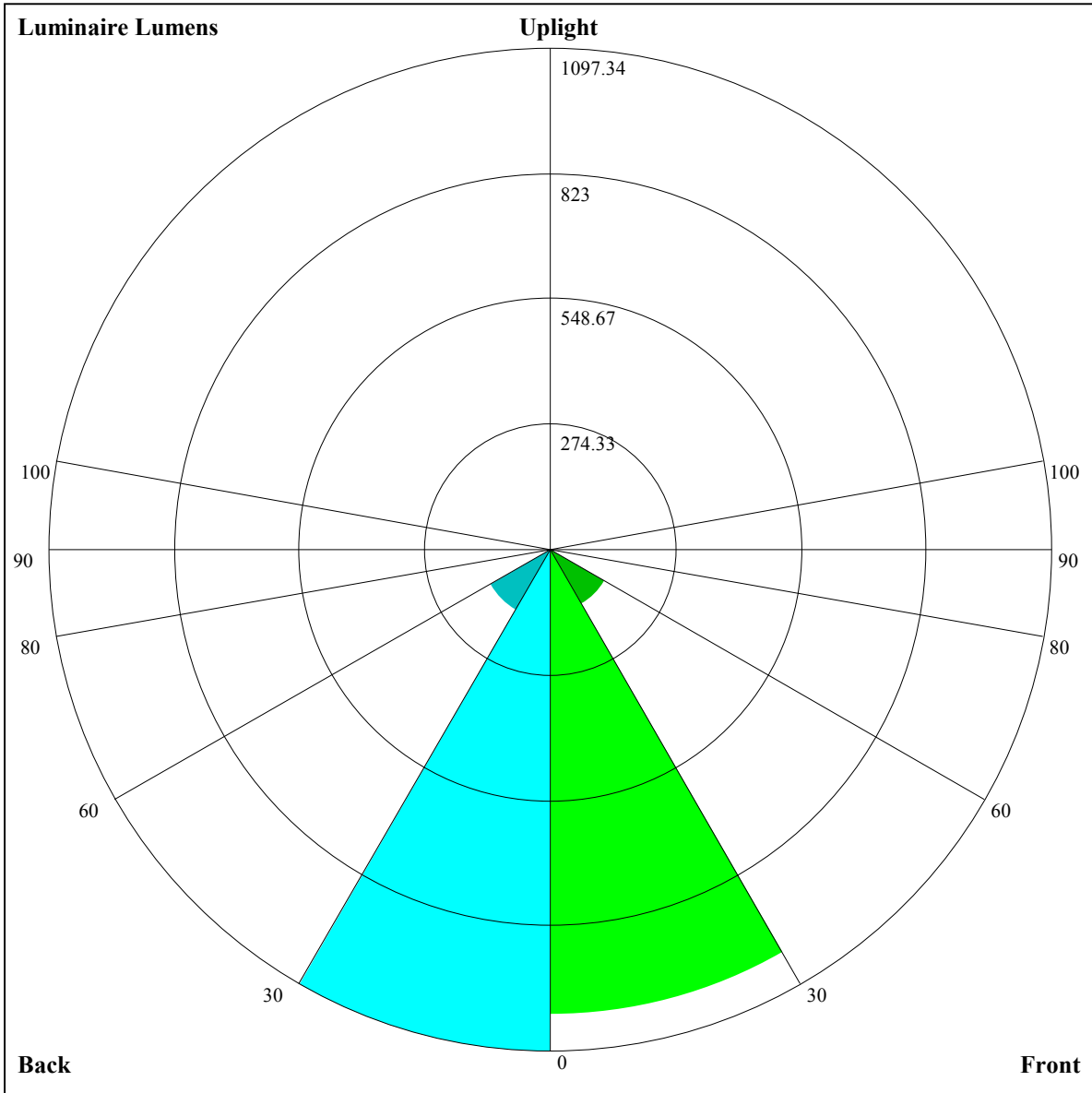
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.02	1.00	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89
2	0.98	0.95	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.89	0.88	0.89	0.87	0.86	0.84
3	0.93	0.90	0.86	0.92	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.77
5	0.85	0.81	0.77	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.81	0.77	0.74	0.81	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.71
7	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
8	0.75	0.71	0.68	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.70	0.67	0.64	0.63
10	0.70	0.65	0.63	0.69	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.61





Luminaire Lumens:

FL=1016.39,FM=138.25,FH=9.69,FVH=1.24

BL=1097.34,BM=154.07,BH=10.86,BVH=1.37

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	9311.60	9177.89	8712.08	8462.46	7959.91	7384.93	6757.54	6126.32	5501.72
45.0	9554.50	9299.36	8929.95	8471.97	7941.51	7366.00	6741.40	6090.63	5461.61
90.0	9132.21	8692.58	8141.56	7545.93	7176.57	6539.14	5599.22	5222.56	4636.43
135.0	9535.57	9379.57	9214.10	8689.79	8382.25	7798.33	7189.92	6507.97	5839.90
180.0	9311.60	9473.18	9516.07	9452.58	9285.95	8976.73	8557.23	8008.42	7389.92
225.0	9554.50	9692.16	9745.09	9693.26	9569.00	9219.67	8876.44	8334.89	7713.07
270.0	9132.21	9462.04	9659.25	9780.15	9808.00	9741.20	9571.26	9254.21	8796.75
315.0	9535.57	9590.71	9558.96	9440.28	9204.64	8834.65	8361.64	7796.12	7136.99
360.0	9311.60	9177.89	8712.08	8462.46	7959.91	7384.93	6757.54	6126.32	5501.72
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4909.44	4361.22	3878.17	3447.47	3067.49	2738.77	2454.04	2213.35	2007.20
45.0	4859.30	4302.14	3804.58	3382.29	3003.95	2679.69	2406.68	2267.39	1983.24
90.0	4114.96	3646.37	3247.99	2904.24	2608.36	2361.00	2143.71	1960.37	1803.84
135.0	5193.60	4608.57	4088.21	3632.44	3244.63	2906.44	2619.50	2377.14	2164.31
180.0	6721.90	6031.60	5382.51	4797.48	4288.21	3826.34	3420.71	3198.95	2752.12
225.0	7038.38	6334.67	5647.68	5016.41	4460.93	3966.16	3527.68	3137.67	2790.02
270.0	8196.70	7501.93	6783.77	6062.24	5360.22	4731.15	4179.56	3705.45	3293.67
315.0	6442.74	5768.58	5140.67	4559.53	4041.95	3592.86	3197.27	2855.77	2561.58
360.0	4909.44	4361.22	3878.17	3447.47	3067.49	2738.77	2454.04	2213.35	2007.20
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1831.12	1679.00	1550.33	1436.11	1352.54	1218.82	1086.31	1086.31	1000.68
45.0	1817.19	1728.62	1598.22	1484.58	1379.29	1280.11	1188.18	1098.45	1010.99
90.0	1665.65	1545.86	1436.64	1335.82	1219.34	1079.95	1079.95	981.50	884.05
135.0	1982.66	1818.87	1735.30	1555.32	1441.11	1379.82	1281.79	1186.49	1092.35
180.0	2481.32	2330.88	2026.70	1911.91	1739.77	1593.80	1469.54	1362.00	1265.60
225.0	2483.58	2214.46	1982.13	1778.19	1603.79	1460.08	1335.82	1270.07	1079.58
270.0	3009.52	2684.68	2355.96	2169.31	1963.74	1783.76	1636.69	1497.93	1386.49
315.0	2311.96	2100.82	1920.27	1789.91	1623.29	1529.73	1417.72	1321.32	1103.23
360.0	1831.12	1679.00	1550.33	1436.11	1352.54	1218.82	1086.31	1086.31	1000.68
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	916.58	828.91	738.50	646.36	555.69	469.96	391.54	320.47	256.35
45.0	921.84	828.23	734.09	641.58	550.22	462.76	384.18	313.96	287.78
90.0	784.76	686.62	589.02	496.35	411.83	337.35	271.49	213.04	163.89
135.0	998.16	906.23	805.94	707.91	610.41	516.79	430.96	354.11	298.92
180.0	1174.77	1084.52	994.85	898.98	804.26	707.91	612.62	523.47	439.32
225.0	1079.58	989.02	902.81	814.04	724.26	634.32	551.59	470.49	397.32
270.0	1285.68	1194.85	1109.07	1021.55	927.99	831.59	734.09	639.37	547.96
315.0	1083.58	1045.94	949.54	850.72	751.49	652.98	557.58	467.18	418.13
360.0	916.58	828.91	738.50	646.36	555.69	469.96	391.54	320.47	256.35
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	201.42	155.01	118.21	100.45	70.12	55.98	49.62	41.37	35.74
45.0	287.78	155.90	117.42	88.20	67.39	53.09	43.21	36.64	32.17
90.0	124.68	94.40	72.27	56.66	49.57	38.42	33.38	31.01	27.07
135.0	298.92	163.63	123.94	93.67	79.68	62.23	49.99	41.37	35.32
180.0	363.00	294.46	294.46	225.60	144.02	109.01	83.15	64.97	52.30
225.0	331.35	273.06	220.66	175.19	138.45	109.12	90.72	73.32	60.87
270.0	458.82	380.82	311.75	299.50	299.50	167.36	128.36	97.14	74.32
315.0	342.92	249.93	215.66	166.26	126.52	95.19	72.38	56.40	45.52
360.0	201.42	155.01	118.21	100.45	70.12	55.98	49.62	41.37	35.74

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	31.75	28.86	26.60	24.91	23.60	22.65	21.97	21.50	21.18
45.0	29.01	26.75	25.02	23.76	22.97	22.39	21.87	21.76	21.76
90.0	25.86	24.13	22.86	21.92	21.29	20.76	20.50	20.45	20.45
135.0	31.12	27.91	25.39	23.34	21.76	20.66	19.87	19.34	18.98
180.0	43.68	37.58	33.06	29.86	27.33	25.34	24.02	23.18	22.60
225.0	52.14	45.41	40.58	37.06	34.06	31.91	30.07	28.54	27.49
270.0	58.03	47.04	39.63	34.43	30.75	28.07	26.07	24.55	23.50
315.0	38.11	32.96	29.22	26.60	24.55	22.97	21.81	20.97	20.29
360.0	31.75	28.86	26.60	24.91	23.60	22.65	21.97	21.50	21.18
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.97	20.87	20.87	20.87	20.71	19.92	18.87	17.29	15.45
45.0	21.92	22.23	22.44	22.44	22.34	21.39	19.76	17.77	15.72
90.0	20.66	20.87	21.03	20.66	19.92	18.50	16.71	15.35	12.88
135.0	18.92	19.03	19.24	19.66	19.97	20.18	19.82	19.13	17.82
180.0	22.29	22.02	22.02	22.13	22.29	22.65	22.76	22.97	22.60
225.0	26.49	25.86	25.23	24.60	23.97	23.50	22.86	22.55	21.08
270.0	22.76	22.02	21.50	21.03	20.55	20.34	20.18	20.29	20.13
315.0	19.71	19.40	19.13	19.08	19.08	19.13	19.24	19.03	18.55
360.0	20.97	20.87	20.87	20.87	20.71	19.92	18.87	17.29	15.45
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.03	12.51	11.35	10.41	9.62	8.94	8.41	7.83	7.31
45.0	13.93	12.40	11.25	10.41	9.62	8.94	8.36	7.83	7.36
90.0	11.46	10.72	9.57	9.15	8.52	7.94	7.46	6.99	6.47
135.0	16.14	14.30	12.67	11.41	10.41	9.57	8.83	8.30	7.73
180.0	21.39	19.66	17.71	15.72	13.93	12.51	11.46	10.51	9.72
225.0	20.39	18.82	16.35	15.30	13.51	12.30	11.14	10.51	9.72
270.0	20.08	19.55	18.66	17.08	15.35	13.56	12.19	10.99	9.93
315.0	17.66	16.19	14.51	12.93	11.56	10.51	9.62	8.83	8.25
360.0	14.03	12.51	11.35	10.41	9.62	8.94	8.41	7.83	7.31
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.78	6.36	5.83	5.41	4.89	4.57	4.15	3.78	3.42
45.0	6.83	6.57	5.83	5.41	5.05	4.52	4.26	3.84	3.42
90.0	5.94	5.52	5.05	4.63	4.26	3.89	3.47	3.10	2.73
135.0	7.10	6.62	6.15	5.68	5.15	4.68	4.31	3.94	3.68
180.0	8.99	8.41	7.78	7.10	6.57	5.99	5.47	5.05	4.63
225.0	8.99	8.41	7.94	7.10	6.57	5.99	5.47	4.99	4.63
270.0	9.25	8.57	7.99	7.36	6.78	6.25	5.99	5.31	5.05
315.0	7.67	7.10	6.62	6.15	5.73	5.26	5.05	4.57	4.15
360.0	6.78	6.36	5.83	5.41	4.89	4.57	4.15	3.78	3.42
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.15	2.84	2.52	2.21	1.89	1.79	1.52	1.31	1.10
45.0	3.05	2.52	2.31	1.94	1.73	1.42	1.21	1.05	1.05
90.0	2.47	2.21	1.89	1.58	1.47	1.26	0.95	0.95	0.95
135.0	3.26	2.94	2.68	2.31	2.00	1.73	1.47	1.31	0.89
180.0	4.31	3.89	3.47	3.15	2.73	2.42	2.10	1.79	1.52
225.0	4.26	3.89	3.47	3.21	2.79	2.47	2.16	1.84	1.58
270.0	4.63	4.21	3.89	3.57	3.15	2.84	2.42	2.16	1.94
315.0	3.84	3.57	3.31	3.00	2.63	2.26	2.10	1.84	1.58
360.0	3.15	2.84	2.52	2.21	1.89	1.79	1.52	1.31	1.10

Intensity data(cd)

C/γ(°)	90.0
0.0	1.00
45.0	1.00
90.0	0.95
135.0	0.89
180.0	1.31
225.0	1.37
270.0	1.58
315.0	1.47
360.0	1.00