



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: 2-2751-L

Luminaire: 92.70.411.00

Report No: 2024910-B011

Ballast type: AC

Test No: 2024910-C011

Voltage(V): 33.870

LampCAT: NICHIA NFCWJ120B-V3

Current(A): 0.580

Lamp flux(lm): 2597.0

Power (W): 19.640

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2449.45, Efficiency(%): 94.32% , Luminous Efficacy(lm/W): 124.72

Central intensity(cd): 11223.780, Maximum intensity(cd): 11223.780

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=19.8

[C90/270]Total=19.8

Field angle(10%Imax): [C0/180]Total=50.0

[C90/270]Total=50.0

Maximum s/h(1/2): C0_180=0.34 C90_270=0.34

Maximum s/h(1/4): C0_180=0.37 C90_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.32%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.912%

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	11223.776	0.000	0	0.00%	0.00%
1.0	11177.567	10.719	10.719	0.41%	0.44%
2.0	10971.147	31.790	42.509	1.22%	1.74%
3.0	10532.480	51.430	93.938	1.98%	3.84%
4.0	10106.389	69.085	163.023	2.66%	6.66%
5.0	9446.854	84.117	247.14	3.24%	10.09%
6.0	8728.187	95.515	342.655	3.68%	13.99%
7.0	7869.585	103.022	445.677	3.97%	18.19%
8.0	7110.320	107.208	552.885	4.13%	22.57%
9.0	6258.341	108.346	661.231	4.17%	27.00%
10.0	5499.844	106.407	767.638	4.10%	31.34%
11.0	4893.083	103.847	871.485	4.00%	35.58%
12.0	4244.685	99.889	971.374	3.85%	39.66%
13.0	3703.061	94.320	1065.693	3.63%	43.51%
14.0	3275.504	89.325	1155.018	3.44%	47.15%
15.0	2953.815	85.519	1240.537	3.29%	50.65%
16.0	2569.577	80.933	1321.47	3.12%	53.95%
17.0	2338.985	76.440	1397.91	2.94%	57.07%
18.0	2080.358	72.865	1470.775	2.81%	60.05%
19.0	1933.538	69.834	1540.609	2.69%	62.90%
20.0	1721.159	66.891	1607.5	2.58%	65.63%
21.0	1579.444	63.378	1670.878	2.44%	68.21%
22.0	1449.983	60.878	1731.756	2.34%	70.70%
23.0	1337.519	58.489	1790.245	2.25%	73.09%
24.0	1237.775	56.305	1846.55	2.17%	75.39%
25.0	1122.748	53.673	1900.223	2.07%	77.58%
26.0	1048.957	51.263	1951.487	1.97%	79.67%
27.0	966.040	49.297	2000.784	1.90%	81.68%
28.0	874.949	46.610	2047.394	1.79%	83.59%
29.0	786.144	43.459	2090.853	1.67%	85.36%
30.0	688.634	39.819	2130.672	1.53%	86.99%
31.0	603.155	35.949	2166.62	1.38%	88.45%
32.0	517.616	32.109	2198.729	1.24%	89.76%
33.0	447.097	28.421	2227.15	1.09%	90.92%
34.0	372.537	24.805	2251.954	0.96%	91.94%
35.0	320.020	21.508	2273.463	0.83%	92.82%
36.0	272.070	18.852	2292.315	0.73%	93.58%
37.0	227.057	16.279	2308.594	0.63%	94.25%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	187.891	13.850	2322.444	0.53%	94.81%
39.0	163.515	11.994	2334.439	0.46%	95.30%
40.0	143.042	10.692	2345.13	0.41%	95.74%
41.0	112.149	9.087	2354.217	0.35%	96.11%
42.0	94.691	7.515	2361.732	0.29%	96.42%
43.0	80.697	6.497	2368.229	0.25%	96.68%
44.0	68.936	5.648	2373.877	0.22%	96.91%
45.0	59.087	4.920	2378.797	0.19%	97.12%
46.0	51.971	4.343	2383.14	0.17%	97.29%
47.0	45.874	3.892	2387.032	0.15%	97.45%
48.0	41.505	3.532	2390.564	0.14%	97.60%
49.0	37.891	3.260	2393.824	0.13%	97.73%
50.0	35.131	3.045	2396.869	0.12%	97.85%
51.0	33.095	2.887	2399.755	0.11%	97.97%
52.0	31.446	2.769	2402.525	0.11%	98.08%
53.0	30.105	2.677	2405.202	0.10%	98.19%
54.0	29.100	2.610	2407.812	0.10%	98.30%
55.0	28.311	2.563	2410.375	0.10%	98.40%
56.0	27.714	2.532	2412.906	0.10%	98.51%
57.0	27.214	2.511	2415.418	0.10%	98.61%
58.0	26.721	2.494	2417.912	0.10%	98.71%
59.0	26.078	2.468	2420.38	0.10%	98.81%
60.0	25.204	2.423	2422.803	0.09%	98.91%
61.0	24.014	2.349	2425.152	0.09%	99.01%
62.0	22.510	2.242	2427.393	0.09%	99.10%
63.0	20.618	2.098	2429.491	0.08%	99.19%
64.0	18.791	1.934	2431.425	0.07%	99.26%
65.0	16.682	1.756	2433.18	0.07%	99.34%
66.0	14.908	1.576	2434.756	0.06%	99.40%
67.0	13.423	1.425	2436.181	0.05%	99.46%
68.0	11.892	1.282	2437.463	0.05%	99.51%
69.0	10.815	1.158	2438.622	0.04%	99.56%
70.0	9.882	1.063	2439.685	0.04%	99.60%
71.0	9.133	0.983	2440.667	0.04%	99.64%
72.0	8.436	0.914	2441.581	0.04%	99.68%
73.0	7.819	0.850	2442.431	0.03%	99.71%
74.0	7.240	0.792	2443.223	0.03%	99.75%
75.0	6.715	0.737	2443.96	0.03%	99.78%

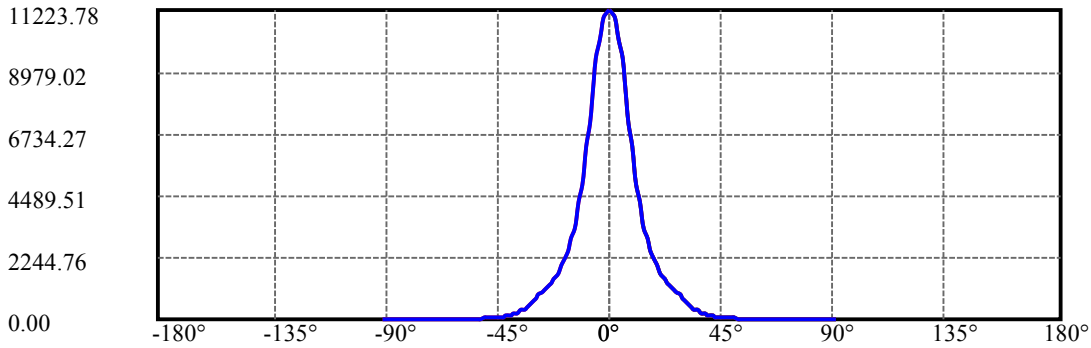
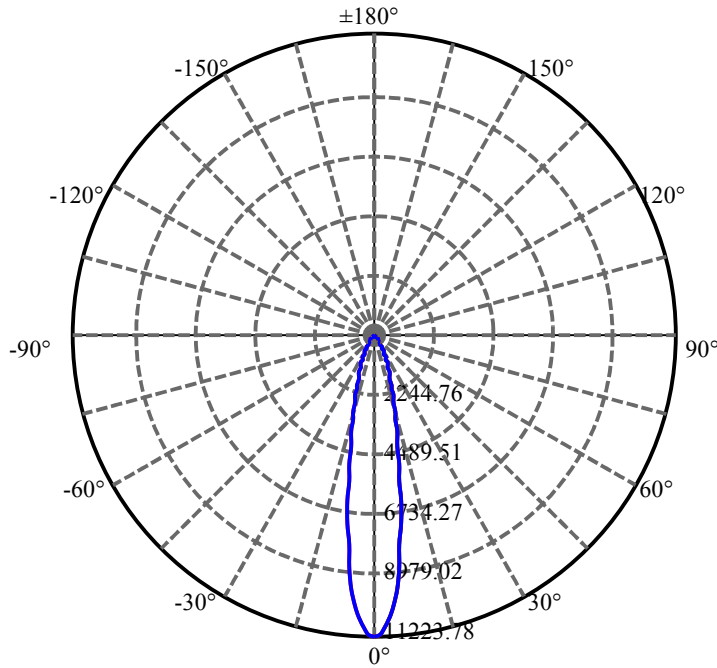
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.202	0.686	2444.646	0.03%	99.80%
77.0	5.742	0.637	2445.283	0.02%	99.83%
78.0	5.263	0.589	2445.872	0.02%	99.85%
79.0	4.777	0.539	2446.411	0.02%	99.88%
80.0	4.310	0.490	2446.901	0.02%	99.90%
81.0	3.857	0.442	2447.343	0.02%	99.91%
82.0	3.410	0.394	2447.737	0.02%	99.93%
83.0	2.976	0.347	2448.084	0.01%	99.94%
84.0	2.562	0.302	2448.386	0.01%	99.96%
85.0	2.168	0.258	2448.644	0.01%	99.97%
86.0	1.846	0.219	2448.863	0.01%	99.98%
87.0	1.537	0.185	2449.048	0.01%	99.98%
88.0	1.314	0.156	2449.205	0.01%	99.99%
89.0	1.104	0.133	2449.337	0.01%	100.00%
90.0	1.025	0.117	2449.454	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2130.67	82.04%	86.99%
0-40	2345.13	90.30%	95.74%
0-60	2422.80	93.29%	98.91%
0-90	2449.34	94.31%	100.00%
0-120	2449.34	94.31%	100.00%
0-180	2449.45	94.32%	100.00%
60-90	26.53	1.02%	1.08%
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%
0-26.16	1959.56	75.45%	80.00%

ZONAL LUMEN SUMMARY

0-10	767.64
10-20	839.86
20-30	523.17
30-40	214.46
40-50	51.74
50-60	25.93
60-70	16.88
70-80	7.22
80-90	2.44
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



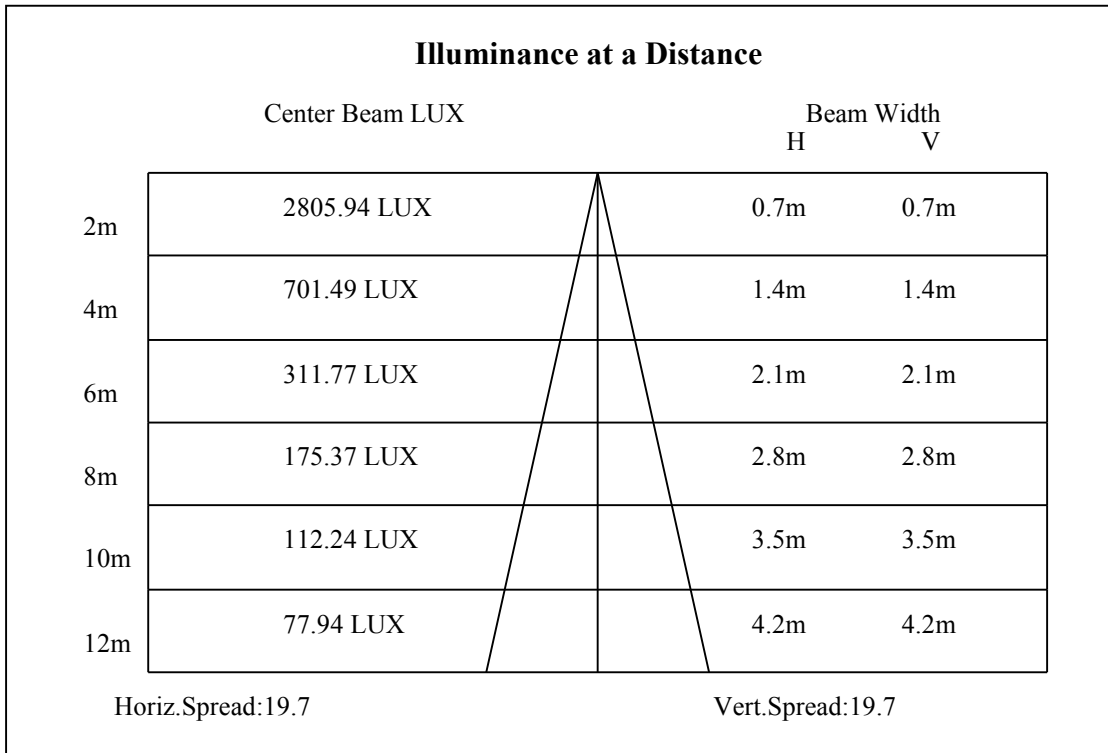
C0(Max): —————

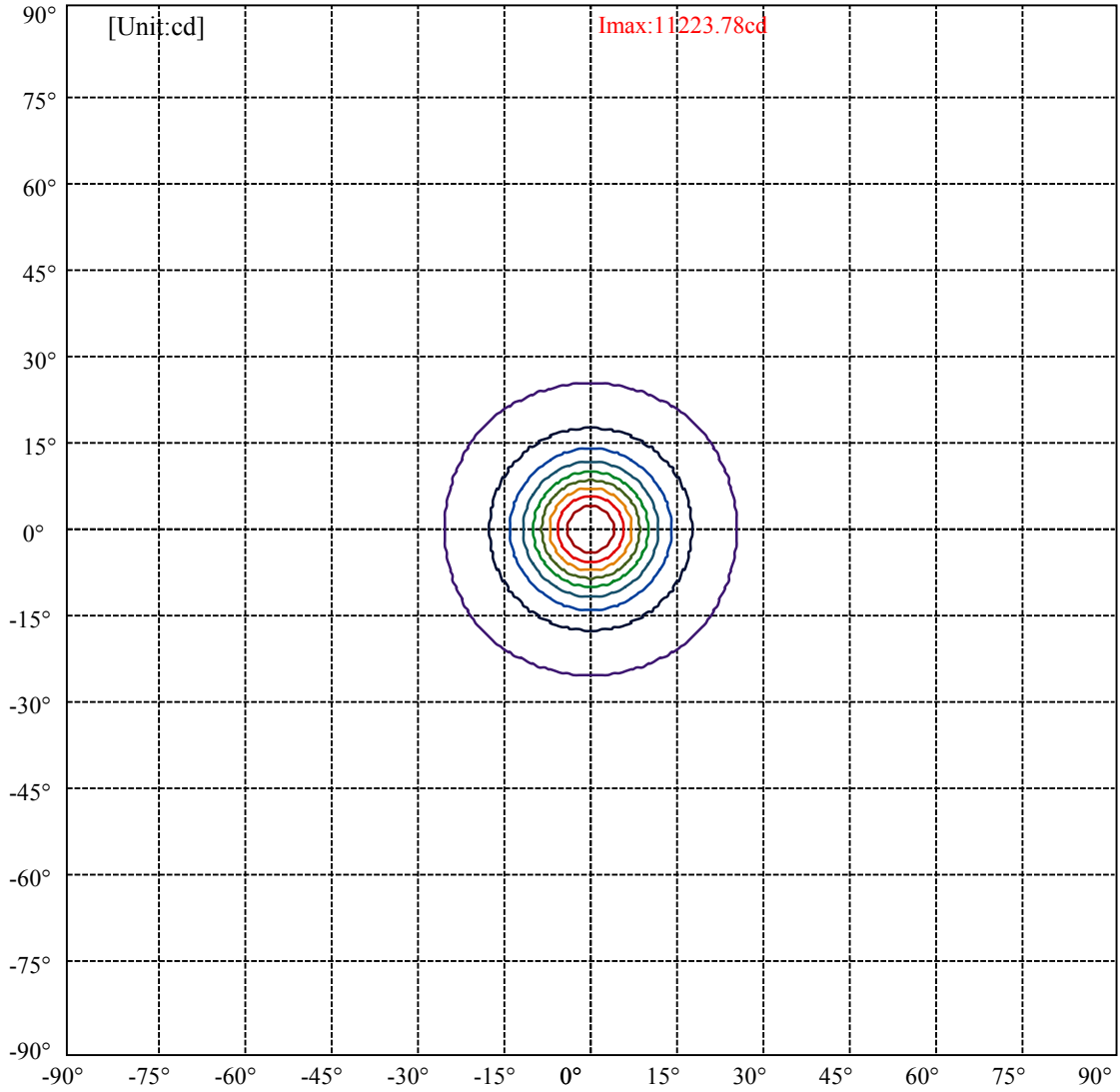
C0/C180: —————

C90/C270: —————

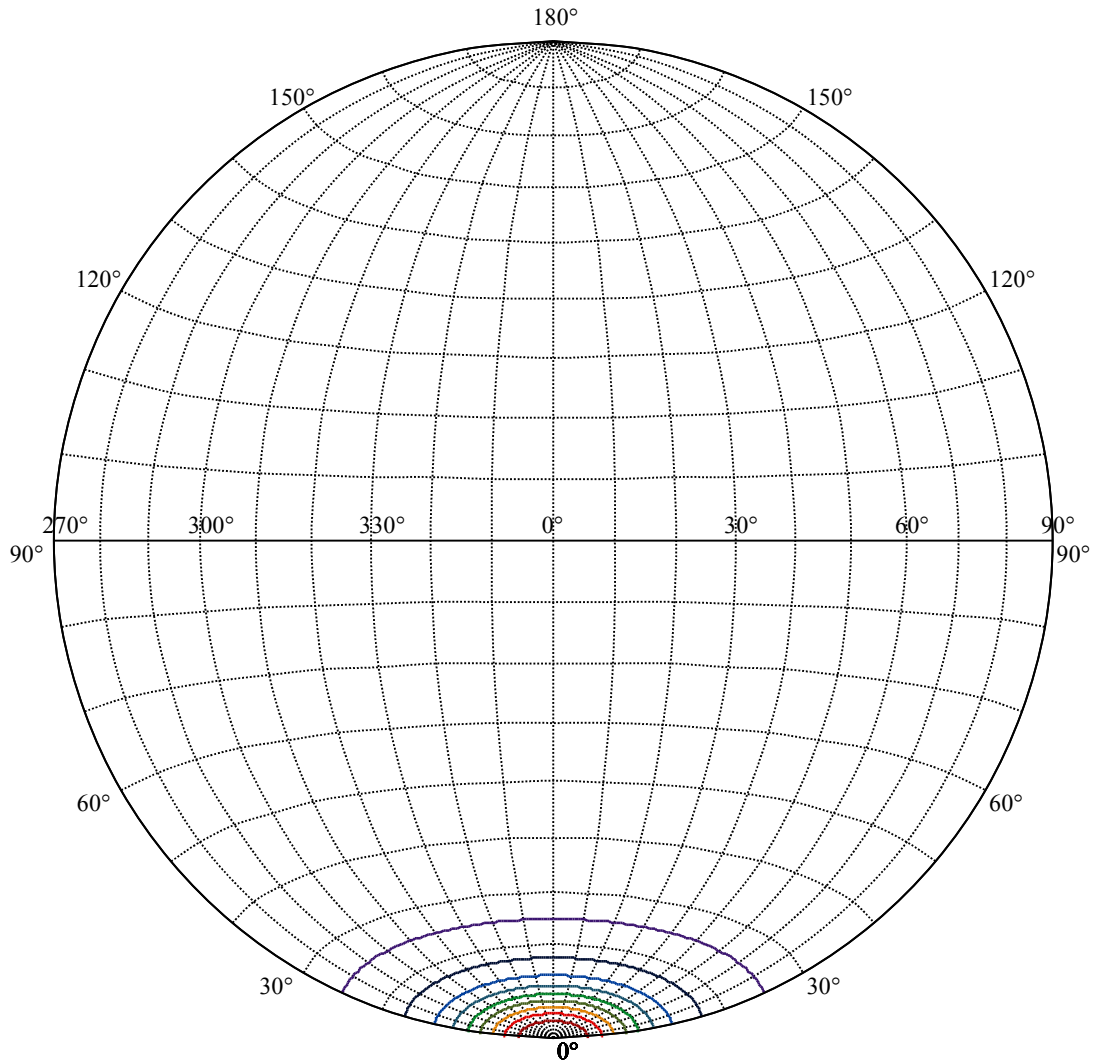
Field angle(10%Imax):C0/180Left:25.0 Right:25.0
:C90/270Left:25.0 Right:25.0

Beam Angle(50%Imax):C0/180Left:9.9 Right:9.9
:C90/270Left:9.9 Right:9.9





(10%Imax) 1122.38	—
(20%Imax) 2244.76	—
(30%Imax) 3367.13	—
(40%Imax) 4489.51	—
(50%Imax) 5611.89	—
(60%Imax) 6734.27	—
(70%Imax) 7856.64	—
(80%Imax) 8979.02	—
(90%Imax) 10101.4	—



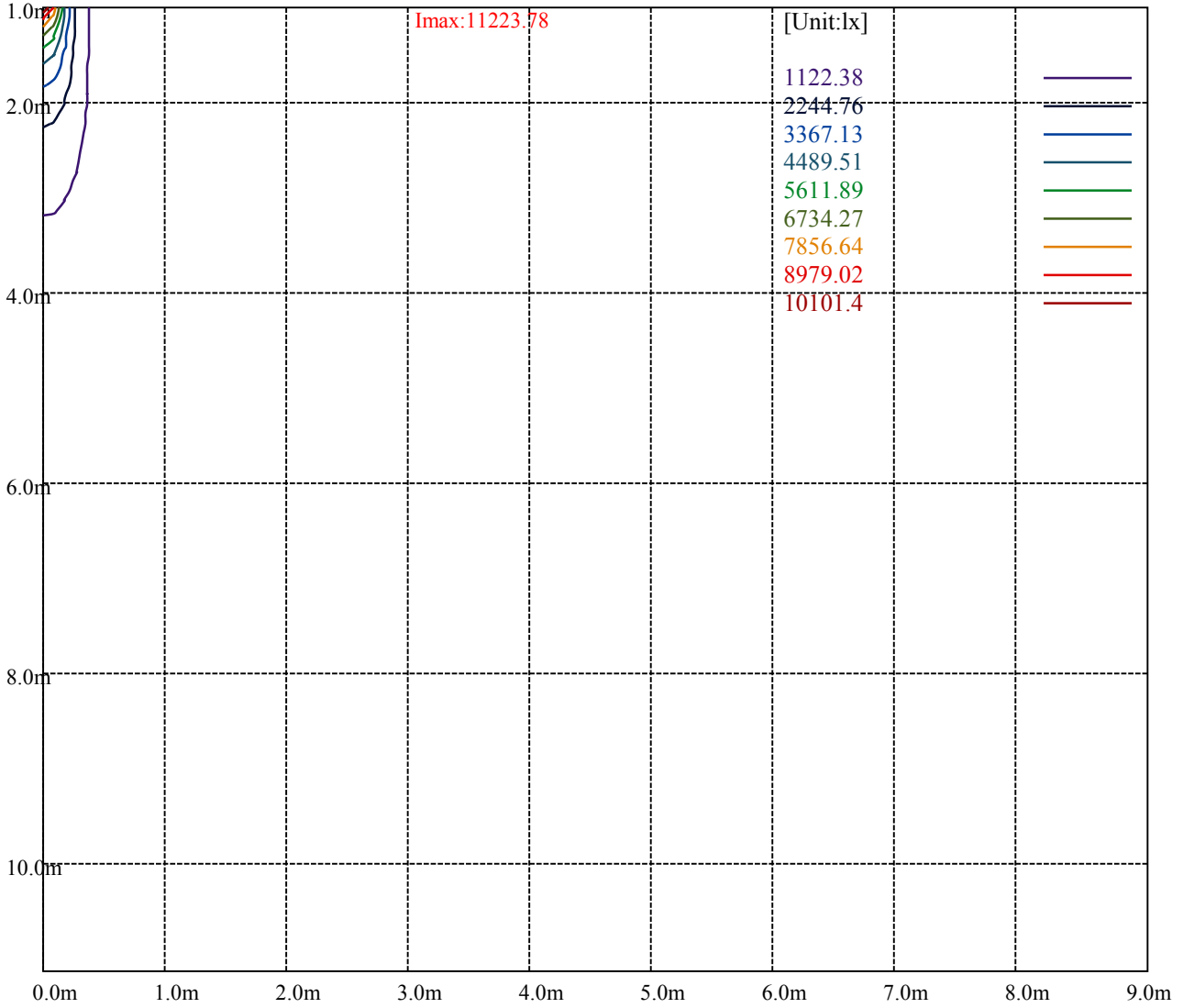
House

[Unit:cd]

Road

Imax:11223.78

(10%Imax)	1122.38	—
(20%Imax)	2244.76	—
(30%Imax)	3367.13	—
(40%Imax)	4489.51	—
(50%Imax)	5611.89	—
(60%Imax)	6734.27	—
(70%Imax)	7856.64	—
(80%Imax)	8979.02	—
(90%Imax)	10101.4	—



Luminance Table

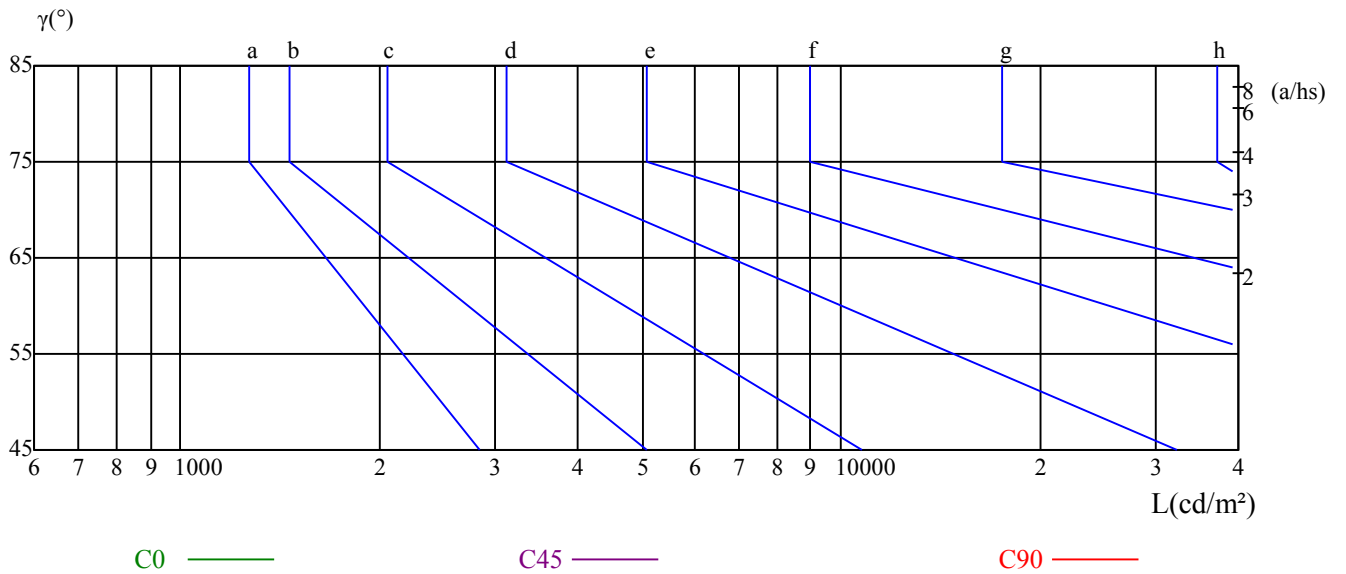
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

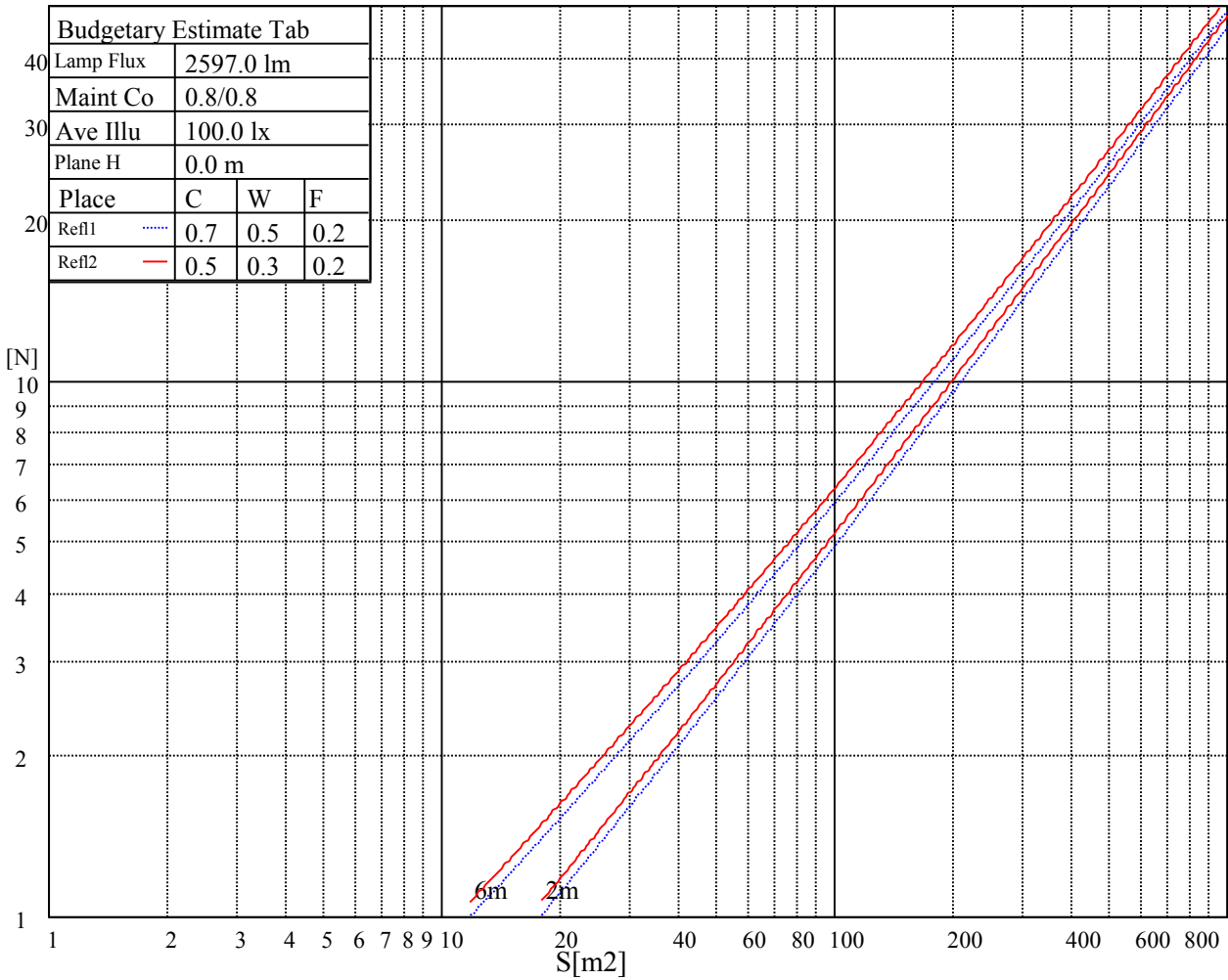
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

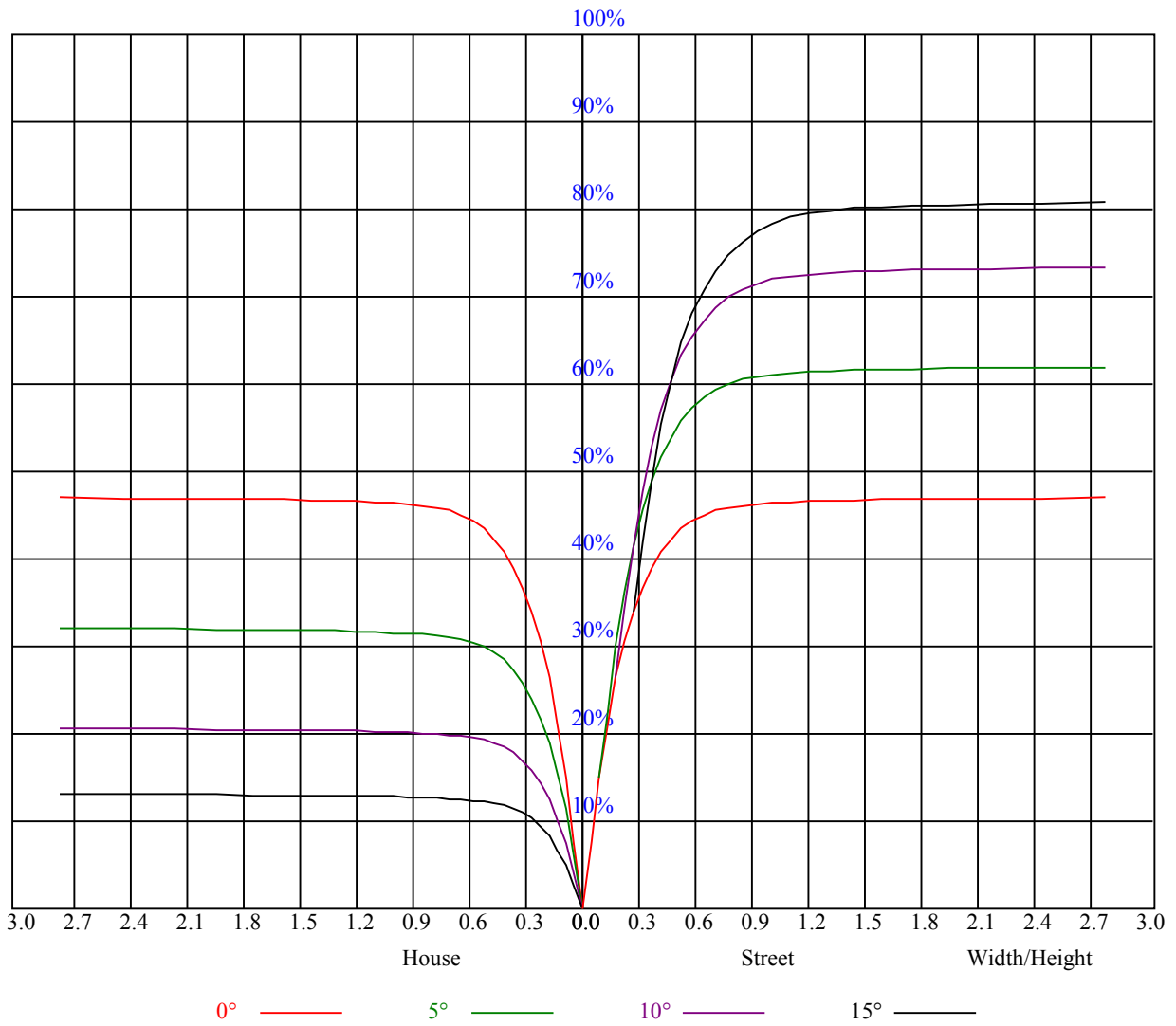


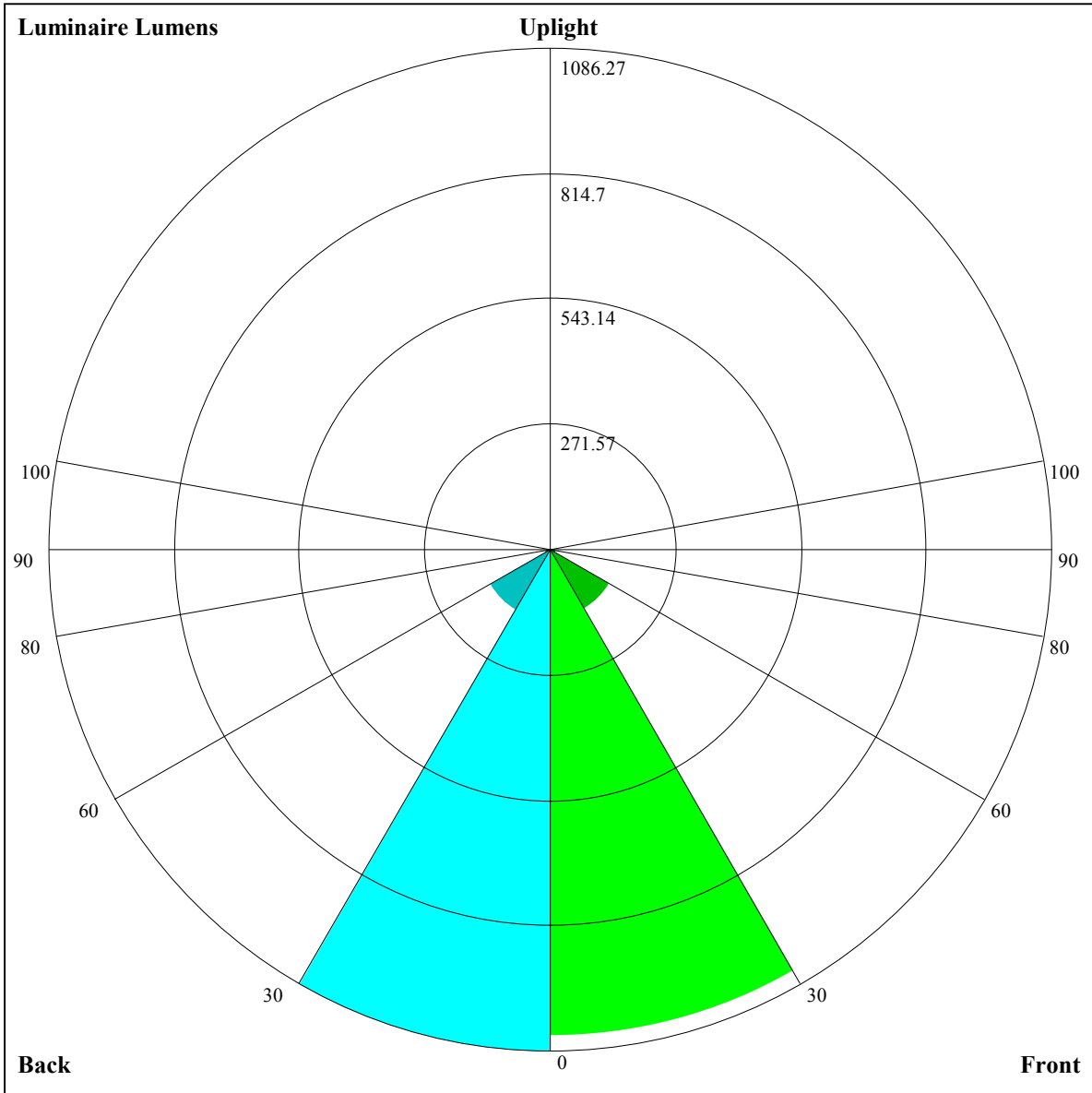
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
8H	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 RHOFC=20 CU															
0	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.90
2	1.00	0.97	0.94	0.98	0.96	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.87	0.86
3	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.82
4	0.91	0.86	0.83	0.90	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.77	0.75
6	0.83	0.79	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
7	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
8	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
9	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.72	0.68	0.66	0.65
10	0.72	0.67	0.65	0.71	0.67	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63





Luminaire Lumens:

FL=1053.74,FM=147.33,FH=11.94,FVH=1.29

BL=1086.27,BM=151.79,BH=12.18,BVH=1.3

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	11044.38	11044.38	10706.19	10142.30	9438.65	8619.04	7754.34	6880.12	6031.02
45.0	11486.48	11274.76	10907.03	10383.30	9703.56	8917.96	8065.51	7174.05	6310.44
90.0	10916.76	10461.57	9751.76	8940.51	8050.16	7128.11	6246.11	5434.86	4989.71
135.0	11447.48	11174.47	10907.03	10099.15	9658.99	8851.10	7959.64	7057.04	6199.01
180.0	11044.38	11430.77	11297.05	11035.18	10556.02	9965.43	9541.99	8405.37	7519.49
225.0	11486.48	11531.06	10993.13	10993.13	10905.61	10379.67	9690.48	8863.61	7979.41
270.0	10916.76	10916.76	11664.78	11692.63	11564.49	11280.33	10812.32	10188.29	9764.85
315.0	11447.48	11586.77	11542.20	10973.63	10973.63	10433.18	9755.13	8953.34	8088.63
360.0	11044.38	11044.38	10706.19	10142.30	9438.65	8619.04	7754.34	6880.12	6031.02
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5239.27	4804.16	4161.16	3625.18	3187.81	2816.77	2505.29	2246.78	2021.66
45.0	5485.84	4755.96	4131.94	3613.78	3168.05	2867.18	2867.18	2290.78	2061.24
90.0	4083.16	3755.59	3284.21	2899.77	2576.04	2305.81	2077.95	1887.41	1735.30
135.0	5391.13	4677.96	4059.51	3552.49	3123.47	2822.61	2822.61	2177.66	1979.87
180.0	6979.04	5781.14	5324.27	4611.10	4003.79	3507.92	3078.90	2861.61	2861.61
225.0	7086.84	6212.10	5392.49	4662.61	4039.74	3524.89	3097.56	2746.55	2446.26
270.0	8611.52	7692.21	7135.04	6238.01	5418.98	4677.96	4037.22	3507.92	3084.47
315.0	7189.92	6319.64	5656.04	4754.54	4106.60	3680.90	3143.82	2837.90	2521.48
360.0	5239.27	4804.16	4161.16	3625.18	3187.81	2816.77	2505.29	2246.78	2021.66
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1844.52	1689.62	1557.58	1446.15	1336.35	1110.17	1072.96	1072.96	965.89
45.0	1874.01	1714.12	1583.18	1460.08	1350.86	1247.78	1150.86	1060.55	968.10
90.0	1598.22	1475.11	1366.99	1270.07	1089.78	1089.78	998.16	918.11	824.97
135.0	1807.73	1715.22	1584.29	1420.50	1358.11	1257.82	1162.00	1067.28	974.19
180.0	2196.64	1988.23	1813.88	1667.34	1539.71	1450.04	1325.78	1227.18	1152.49
225.0	2198.32	1985.44	1809.41	1688.52	1553.64	1436.11	1320.79	1085.89	1085.89
270.0	2867.18	2867.18	2204.42	1990.49	1812.72	1666.23	1538.08	1441.11	1330.25
315.0	2256.25	2033.38	1849.52	1692.41	1558.69	1442.21	1333.56	1108.91	1089.88
360.0	1844.52	1689.62	1557.58	1446.15	1336.35	1110.17	1072.96	1072.96	965.89
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	895.98	805.05	711.38	618.40	528.04	443.63	372.20	312.43	264.81
45.0	877.27	785.91	691.72	600.37	511.22	427.65	383.08	321.21	280.53
90.0	727.73	631.33	535.19	445.62	369.93	311.75	263.02	221.76	186.39
135.0	880.05	785.91	688.94	590.91	497.82	413.72	344.60	288.88	288.88
180.0	1062.24	968.62	877.27	782.55	687.83	591.43	498.98	414.25	345.76
225.0	1026.60	931.30	839.63	747.86	653.77	561.10	508.17	395.27	331.51
270.0	1204.89	1127.99	1035.48	943.02	853.88	763.05	670.01	577.50	488.36
315.0	1053.56	963.47	909.54	780.34	722.73	628.59	536.72	448.99	373.93
360.0	895.98	805.05	711.38	618.40	528.04	443.63	372.20	312.43	264.81
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	223.39	186.54	155.64	130.09	108.91	91.51	77.37	65.91	56.71
45.0	280.53	185.55	155.22	130.36	109.59	92.46	78.69	67.12	57.77
90.0	156.48	131.35	110.49	93.04	79.00	67.65	58.24	50.99	47.57
135.0	203.94	177.24	147.70	123.15	103.50	86.94	73.38	62.23	53.88
180.0	290.57	290.57	204.68	171.25	152.96	127.15	98.34	88.25	74.22
225.0	299.24	236.43	213.93	180.50	151.64	127.15	107.33	90.67	77.00
270.0	408.15	342.39	290.57	290.57	280.53	172.93	154.53	128.41	107.02
315.0	314.27	266.39	224.91	189.17	158.21	131.41	109.65	91.98	77.32
360.0	223.39	186.54	155.64	130.09	108.91	91.51	77.37	65.91	56.71

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	49.88	46.47	40.68	38.84	36.06	32.80	31.64	30.17	28.86
45.0	50.83	45.62	41.37	39.47	35.53	33.17	32.12	30.85	29.54
90.0	41.26	39.32	36.53	33.01	32.06	30.64	29.28	28.38	27.86
135.0	47.31	42.05	38.11	35.01	32.38	30.38	29.28	28.33	27.60
180.0	62.60	53.88	47.25	42.10	38.37	35.64	33.27	31.17	30.01
225.0	66.02	57.45	50.62	45.47	41.37	38.27	35.64	33.59	32.06
270.0	89.20	74.85	63.34	54.40	47.73	42.73	38.95	36.16	33.80
315.0	65.60	56.14	49.09	43.73	39.63	37.42	34.59	32.90	31.12
360.0	49.88	46.47	40.68	38.84	36.06	32.80	31.64	30.17	28.86
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.02	27.60	27.17	26.49	26.23	25.70	24.65	23.39	21.55
45.0	28.49	28.12	27.49	26.96	26.65	26.02	24.76	23.13	21.18
90.0	27.12	26.54	26.39	25.70	24.65	23.44	21.66	19.03	16.87
135.0	27.49	27.39	26.81	26.49	26.33	25.65	24.44	23.07	21.03
180.0	29.07	28.02	27.60	27.44	27.07	26.60	26.28	25.55	24.39
225.0	30.80	29.65	29.01	28.70	27.96	27.33	26.86	25.97	24.44
270.0	31.80	30.33	29.07	28.07	27.54	27.23	26.60	26.23	25.97
315.0	30.01	28.86	28.17	27.86	27.33	26.65	26.39	25.76	24.65
360.0	28.02	27.60	27.17	26.49	26.23	25.70	24.65	23.39	21.55
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.87	16.77	14.77	12.93	12.19	10.72	10.14	9.36	8.41
45.0	18.66	16.35	14.40	12.72	11.67	10.62	9.72	8.99	8.41
90.0	14.77	12.88	11.56	10.57	10.04	8.94	8.30	7.94	7.36
135.0	18.50	16.35	14.35	12.62	11.46	10.41	9.51	8.78	8.20
180.0	22.76	21.24	18.61	16.40	14.40	12.67	11.46	10.41	9.57
225.0	22.81	20.76	18.13	15.98	14.19	12.51	11.35	10.41	9.67
270.0	25.28	24.34	22.65	21.29	18.61	16.29	14.40	12.62	11.35
315.0	23.29	21.66	18.98	16.77	14.82	12.98	11.62	10.57	10.09
360.0	18.87	16.77	14.77	12.93	12.19	10.72	10.14	9.36	8.41
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.99	7.52	6.94	6.41	5.89	5.52	4.99	4.52	3.94
45.0	7.99	7.41	6.62	6.36	5.89	5.41	4.84	4.47	3.94
90.0	6.83	6.36	5.89	5.31	4.89	4.47	3.99	3.47	3.00
135.0	7.62	6.99	6.57	6.10	5.68	5.41	4.73	4.36	3.94
180.0	8.83	8.20	7.62	7.10	6.57	6.04	5.62	5.10	4.68
225.0	8.94	8.25	7.62	7.04	6.47	5.94	5.68	5.05	4.57
270.0	10.35	9.51	8.78	8.09	7.57	6.94	6.47	5.94	5.57
315.0	8.94	8.30	7.88	7.31	6.68	6.20	5.78	5.31	4.84
360.0	7.99	7.52	6.94	6.41	5.89	5.52	4.99	4.52	3.94
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.63	3.21	2.73	2.26	1.94	1.68	1.42	1.21	0.89
45.0	3.42	2.94	2.47	2.10	1.73	1.37	1.16	1.00	0.89
90.0	2.63	2.26	1.89	1.52	1.31	1.16	0.95	0.89	0.89
135.0	3.42	2.89	2.47	2.10	1.79	1.47	1.26	1.10	0.89
180.0	4.15	3.68	3.26	2.84	2.26	2.05	1.58	1.37	1.16
225.0	4.15	3.73	3.31	2.94	2.47	2.05	1.68	1.37	1.16
270.0	5.10	4.68	4.21	3.63	3.15	2.73	2.37	1.89	1.58
315.0	4.36	3.89	3.47	3.10	2.68	2.26	1.89	1.68	1.37
360.0	3.63	3.21	2.73	2.26	1.94	1.68	1.42	1.21	0.89

Intensity data(cd)

C/γ(°)	90.0
0.0	0.89
45.0	0.89
90.0	0.89
135.0	0.89
180.0	0.95
225.0	1.05
270.0	1.37
315.0	1.26
360.0	0.89