



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: 2-2456-L

Luminaire: 92.70.411.00

Report No: 2024906-B007

Ballast type: AC

Test No: 2024906-C007

Voltage(V): 34.320

LampCAT: NICHIA NFCWJ108B-V3

Current(A): 0.563

Lamp flux(lm): 2557.0

Power (W): 19.320

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2275.24, Efficiency(%): 88.98% , Luminous Efficacy(lm/W): 117.77

Central intensity(cd): 4858.746, Maximum intensity(cd): 4858.746

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.2

[C90/270]Total=38.2

Field angle(10%Imax): [C0/180]Total=66.4

[C90/270]Total=66.4

Maximum s/h(1/2): C0_180=0.62 C90_270=0.62

Maximum s/h(1/4): C0_180=0.63 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 88.98%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.136%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/6
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	4858.746	0.000	0	0.00%	0.00%
1.0	4849.692	4.645	4.645	0.18%	0.20%
2.0	4820.027	13.879	18.524	0.54%	0.81%
3.0	4777.964	22.955	41.479	0.90%	1.82%
4.0	4721.335	31.797	73.277	1.24%	3.22%
5.0	4636.867	40.258	113.535	1.57%	4.99%
6.0	4540.480	48.229	161.765	1.89%	7.11%
7.0	4441.781	55.753	217.517	2.18%	9.56%
8.0	4303.259	62.587	280.104	2.45%	12.31%
9.0	4176.012	68.720	348.824	2.69%	15.33%
10.0	4027.188	74.236	423.06	2.90%	18.59%
11.0	3867.628	78.885	501.945	3.09%	22.06%
12.0	3697.417	82.697	584.642	3.23%	25.70%
13.0	3535.564	85.837	670.479	3.36%	29.47%
14.0	3341.950	88.032	758.511	3.44%	33.34%
15.0	3180.931	89.549	848.06	3.50%	37.27%
16.0	2992.252	90.454	938.514	3.54%	41.25%
17.0	2802.547	90.241	1028.755	3.53%	45.22%
18.0	2632.613	89.614	1118.369	3.50%	49.15%
19.0	2445.326	88.346	1206.714	3.46%	53.04%
20.0	2264.879	86.210	1292.924	3.37%	56.83%
21.0	2082.625	83.481	1376.405	3.26%	60.49%
22.0	1921.455	80.464	1456.869	3.15%	64.03%
23.0	1748.597	77.008	1533.876	3.01%	67.42%
24.0	1577.269	72.715	1606.592	2.84%	70.61%
25.0	1445.291	68.726	1675.318	2.69%	73.63%
26.0	1301.421	64.836	1740.155	2.54%	76.48%
27.0	1162.597	60.283	1800.437	2.36%	79.13%
28.0	1034.936	55.637	1856.074	2.18%	81.58%
29.0	933.917	51.511	1907.585	2.01%	83.84%
30.0	816.020	47.248	1954.833	1.85%	85.92%
31.0	705.014	42.328	1997.161	1.66%	87.78%
32.0	600.619	37.405	2034.566	1.46%	89.42%
33.0	506.223	32.608	2067.174	1.28%	90.86%
34.0	421.742	28.083	2095.257	1.10%	92.09%
35.0	347.031	23.875	2119.132	0.93%	93.14%
36.0	303.016	20.698	2139.83	0.81%	94.05%
37.0	254.954	18.198	2158.028	0.71%	94.85%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	198.128	15.123	2173.151	0.59%	95.51%
39.0	158.706	12.180	2185.331	0.48%	96.05%
40.0	116.459	9.597	2194.927	0.38%	96.47%
41.0	94.067	7.497	2202.424	0.29%	96.80%
42.0	76.288	6.189	2208.613	0.24%	97.07%
43.0	64.087	5.200	2213.813	0.20%	97.30%
44.0	54.113	4.461	2218.274	0.17%	97.50%
45.0	47.852	3.919	2222.193	0.15%	97.67%
46.0	42.490	3.533	2225.726	0.14%	97.82%
47.0	38.055	3.204	2228.93	0.13%	97.96%
48.0	34.678	2.940	2231.87	0.11%	98.09%
49.0	31.656	2.724	2234.594	0.11%	98.21%
50.0	29.028	2.530	2237.124	0.10%	98.32%
51.0	26.853	2.364	2239.488	0.09%	98.43%
52.0	24.816	2.217	2241.705	0.09%	98.53%
53.0	22.976	2.079	2243.784	0.08%	98.62%
54.0	21.597	1.965	2245.749	0.08%	98.70%
55.0	20.072	1.860	2247.609	0.07%	98.79%
56.0	18.811	1.757	2249.366	0.07%	98.86%
57.0	17.707	1.670	2251.036	0.07%	98.94%
58.0	16.649	1.589	2252.624	0.06%	99.01%
59.0	15.703	1.512	2254.137	0.06%	99.07%
60.0	14.823	1.442	2255.579	0.06%	99.14%
61.0	14.001	1.376	2256.955	0.05%	99.20%
62.0	13.318	1.316	2258.271	0.05%	99.25%
63.0	12.589	1.260	2259.531	0.05%	99.31%
64.0	11.919	1.203	2260.734	0.05%	99.36%
65.0	11.308	1.149	2261.883	0.04%	99.41%
66.0	10.696	1.098	2262.981	0.04%	99.46%
67.0	10.164	1.049	2264.03	0.04%	99.51%
68.0	9.514	0.997	2265.027	0.04%	99.55%
69.0	8.936	0.941	2265.968	0.04%	99.59%
70.0	8.357	0.888	2266.856	0.03%	99.63%
71.0	7.733	0.832	2267.688	0.03%	99.67%
72.0	7.142	0.773	2268.461	0.03%	99.70%
73.0	6.616	0.719	2269.181	0.03%	99.73%
74.0	6.064	0.667	2269.847	0.03%	99.76%
75.0	5.631	0.618	2270.465	0.02%	99.79%

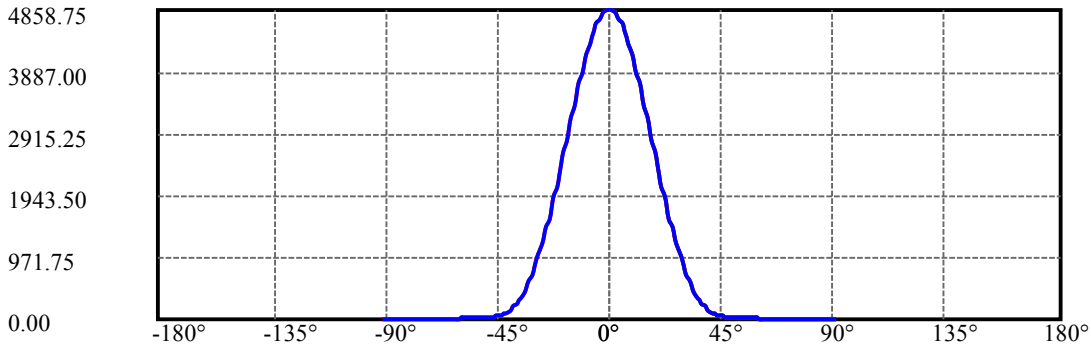
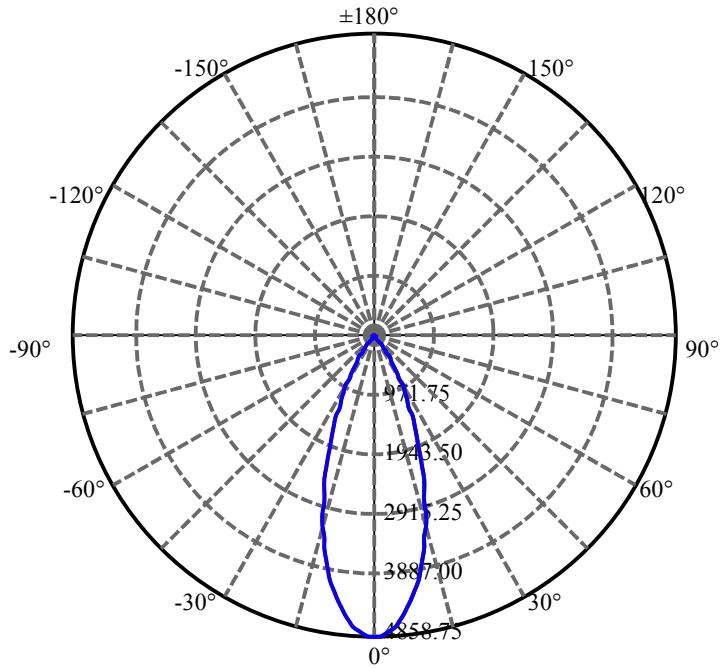
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.184	0.574	2271.039	0.02%	99.82%
77.0	4.816	0.533	2271.572	0.02%	99.84%
78.0	4.409	0.494	2272.066	0.02%	99.86%
79.0	3.995	0.452	2272.518	0.02%	99.88%
80.0	3.627	0.411	2272.929	0.02%	99.90%
81.0	3.298	0.374	2273.303	0.01%	99.91%
82.0	2.963	0.340	2273.643	0.01%	99.93%
83.0	2.608	0.303	2273.946	0.01%	99.94%
84.0	2.300	0.267	2274.213	0.01%	99.95%
85.0	2.017	0.236	2274.449	0.01%	99.97%
86.0	1.781	0.208	2274.656	0.01%	99.97%
87.0	1.524	0.181	2274.837	0.01%	99.98%
88.0	1.307	0.155	2274.992	0.01%	99.99%
89.0	1.104	0.132	2275.124	0.01%	99.99%
90.0	1.005	0.116	2275.24	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1954.83	76.45%	85.92%
0-40	2194.93	85.84%	96.47%
0-60	2255.58	88.21%	99.14%
0-90	2275.12	88.98%	99.99%
0-120	2275.12	88.98%	99.99%
0-180	2275.24	88.98%	100.00%
60-90	19.55	0.76%	0.86%
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%
0-27.36	1820.19	71.18%	80.00%

ZONAL LUMEN SUMMARY

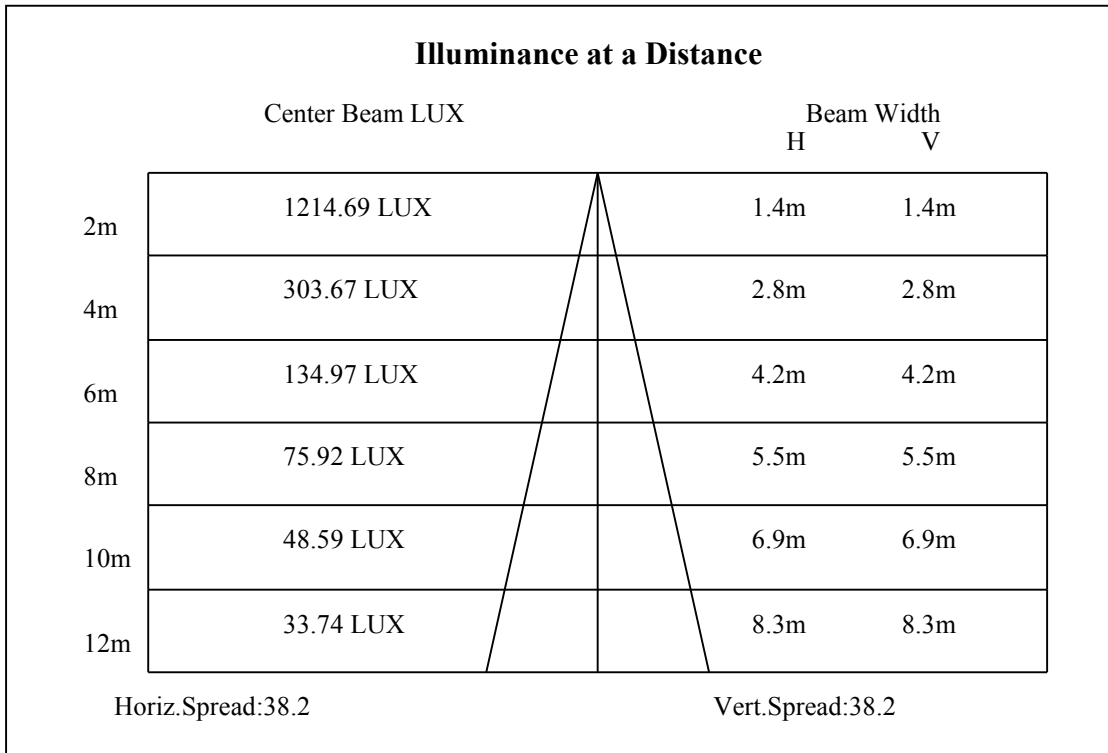
0-10	423.06
10-20	869.86
20-30	661.91
30-40	240.09
40-50	42.20
50-60	18.46
60-70	11.28
70-80	6.07
80-90	2.20
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

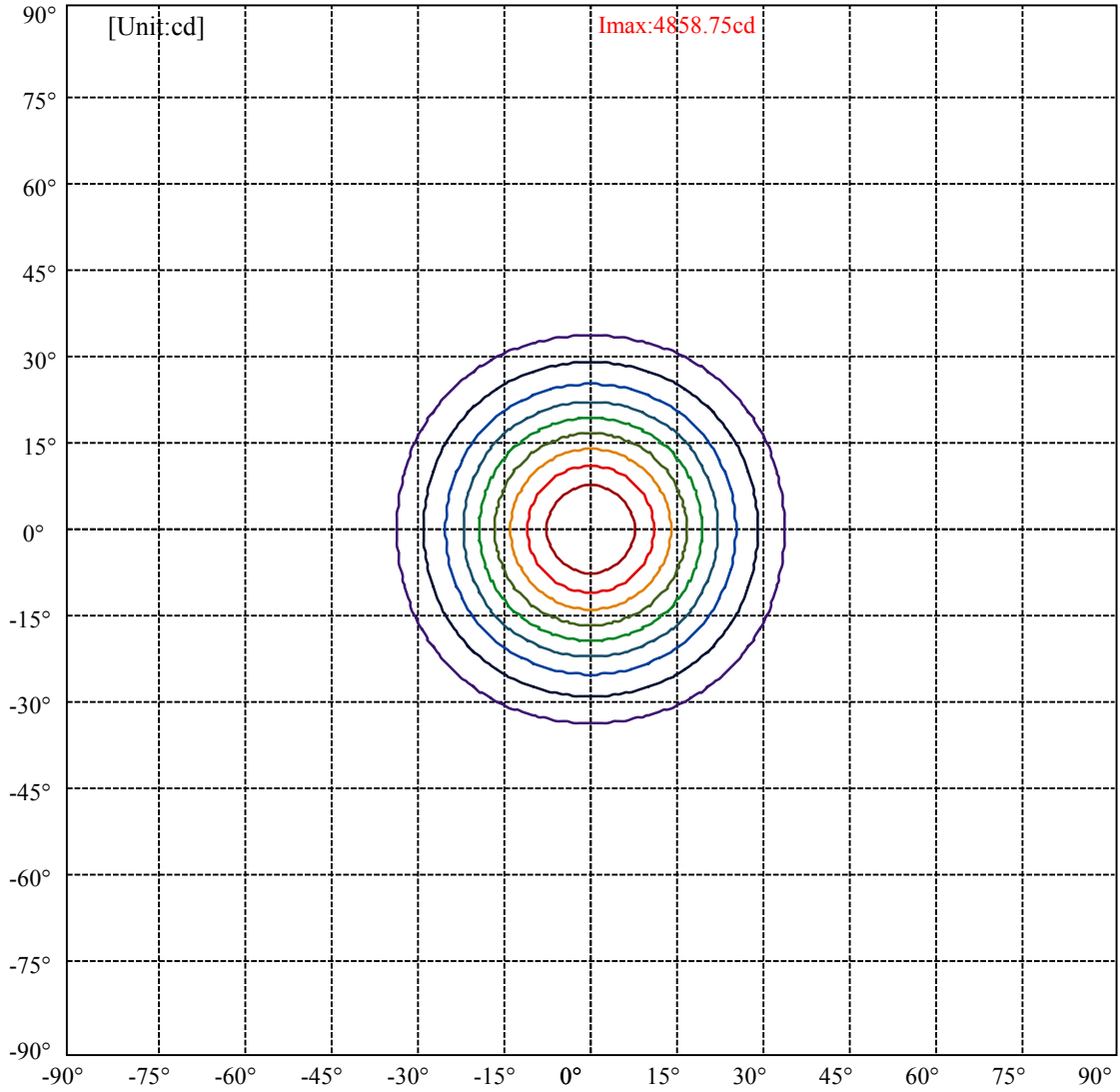


C0(Max): —————
C0/C180: —————
C90/C270: —————

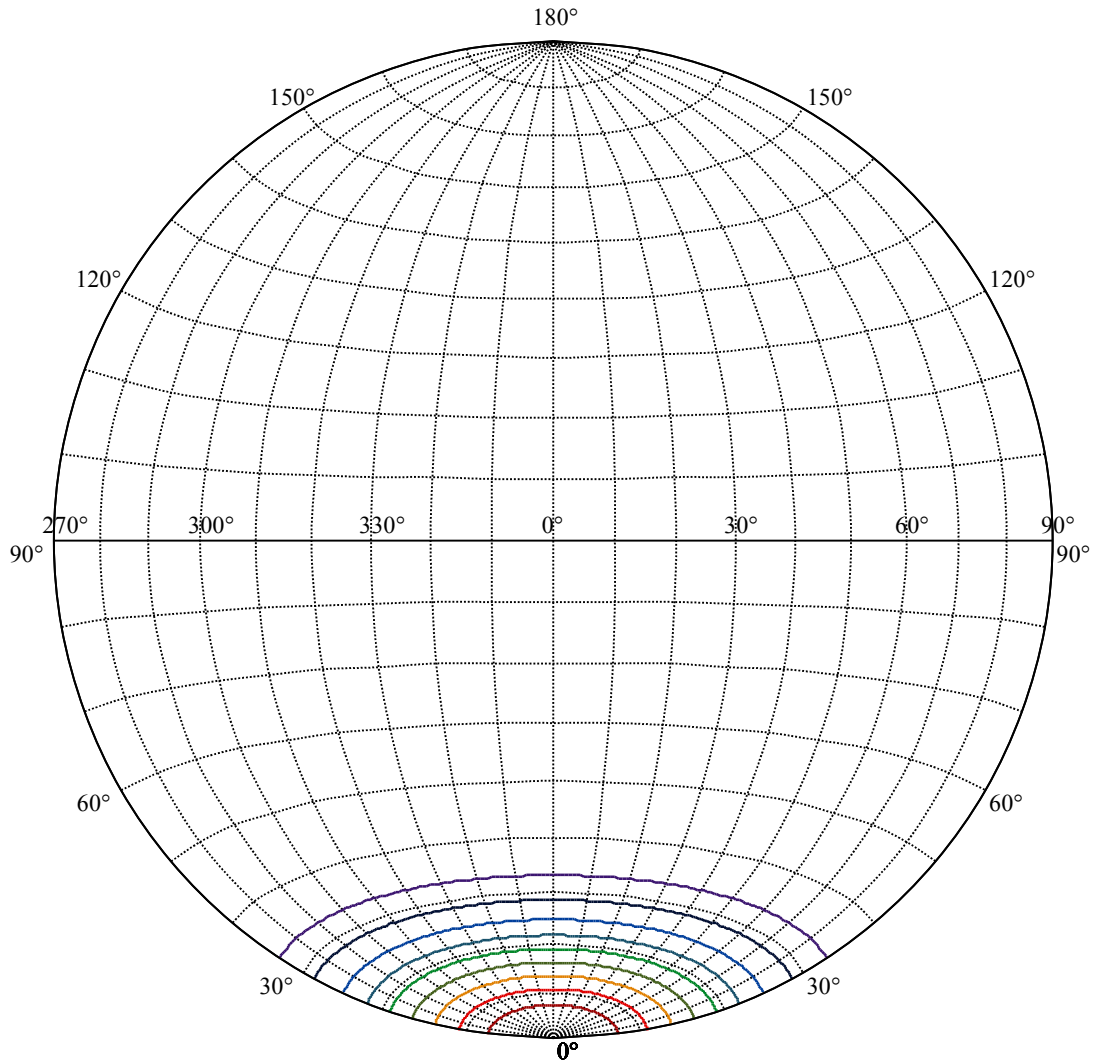
Field angle(10%Imax):C0/180Left:33.2 Right:33.2
:C90/270Left:33.2 Right:33.2

Beam Angle(50%Imax):C0/180Left:19.1 Right:19.1
:C90/270Left:19.1 Right:19.1





(10%Imax) 485.875	—
(20%Imax) 971.749	—
(30%Imax) 1457.62	—
(40%Imax) 1943.5	—
(50%Imax) 2429.37	—
(60%Imax) 2915.25	—
(70%Imax) 3401.12	—
(80%Imax) 3887	—
(90%Imax) 4372.87	—



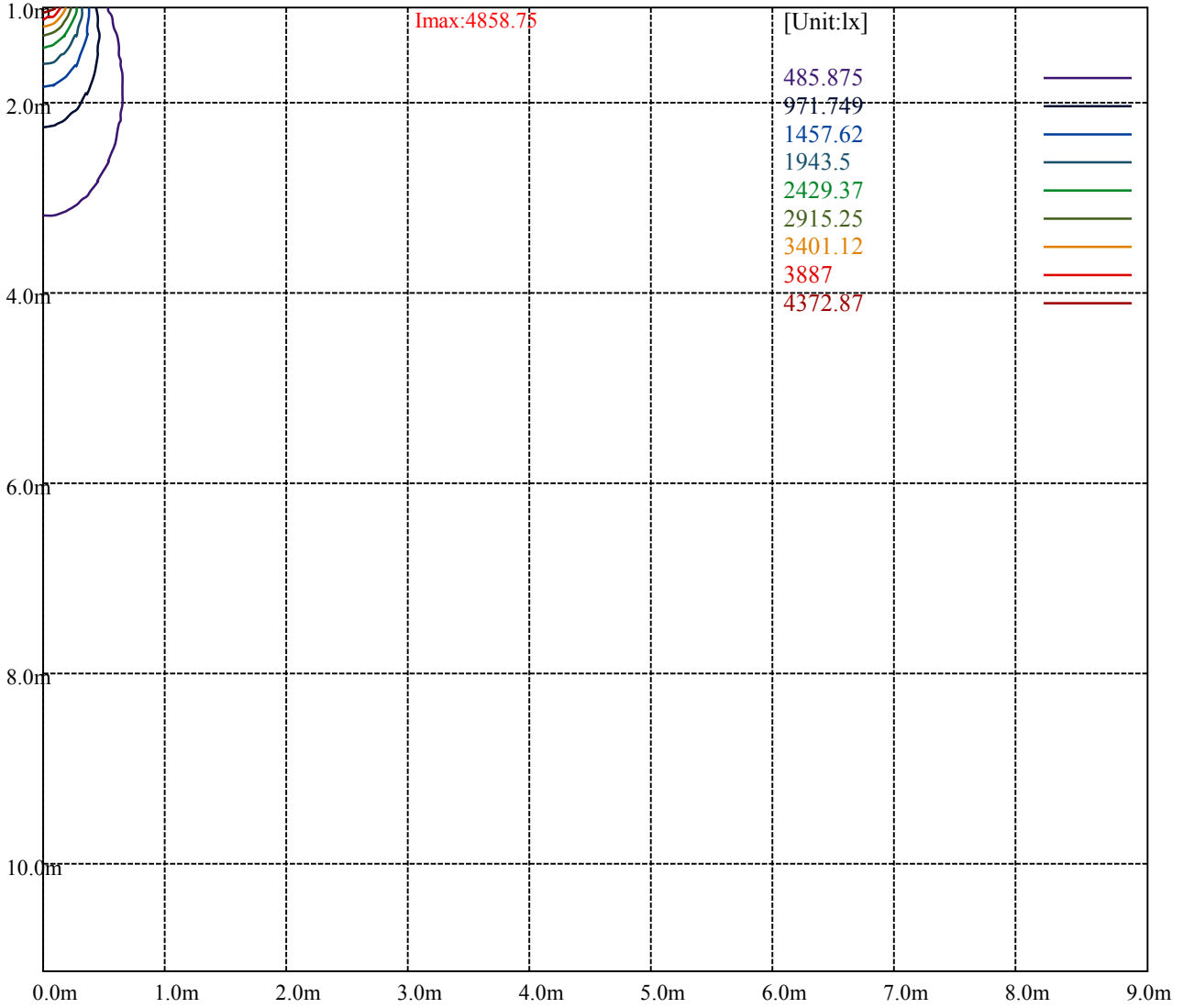
House

[Unit:cd]

Road

Imax:4858.75

- (10%Imax) 485.875
- (20%Imax) 971.749
- (30%Imax) 1457.62
- (40%Imax) 1943.5
- (50%Imax) 2429.37
- (60%Imax) 2915.25
- (70%Imax) 3401.12
- (80%Imax) 3887
- (90%Imax) 4372.87



Luminance Table

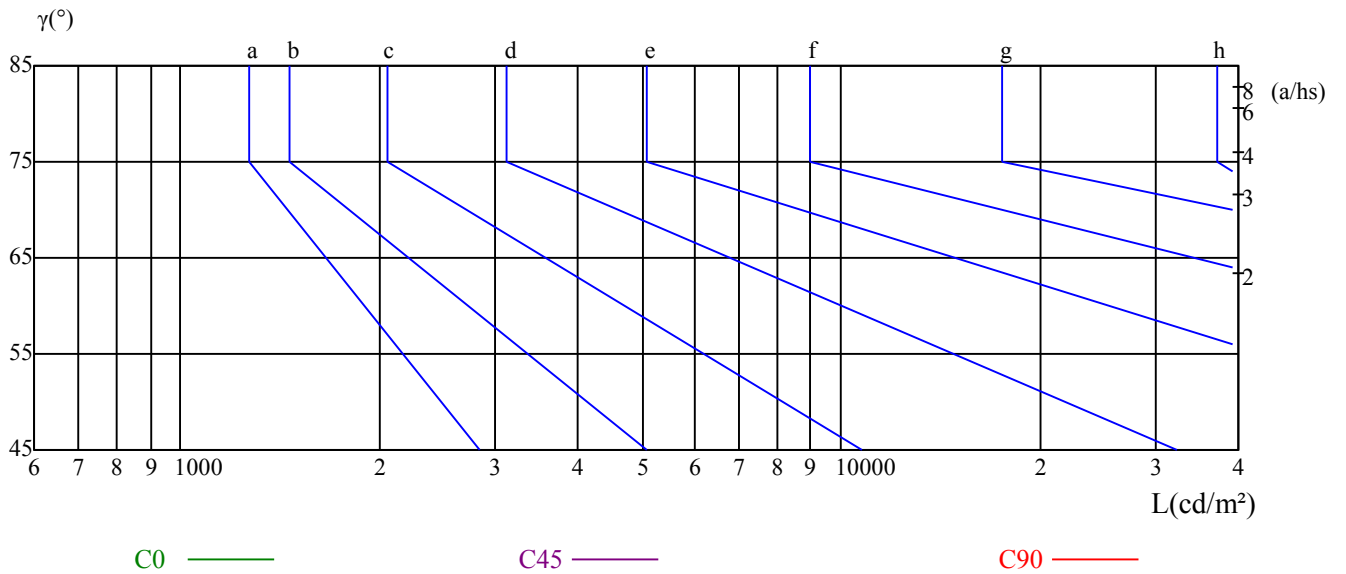
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

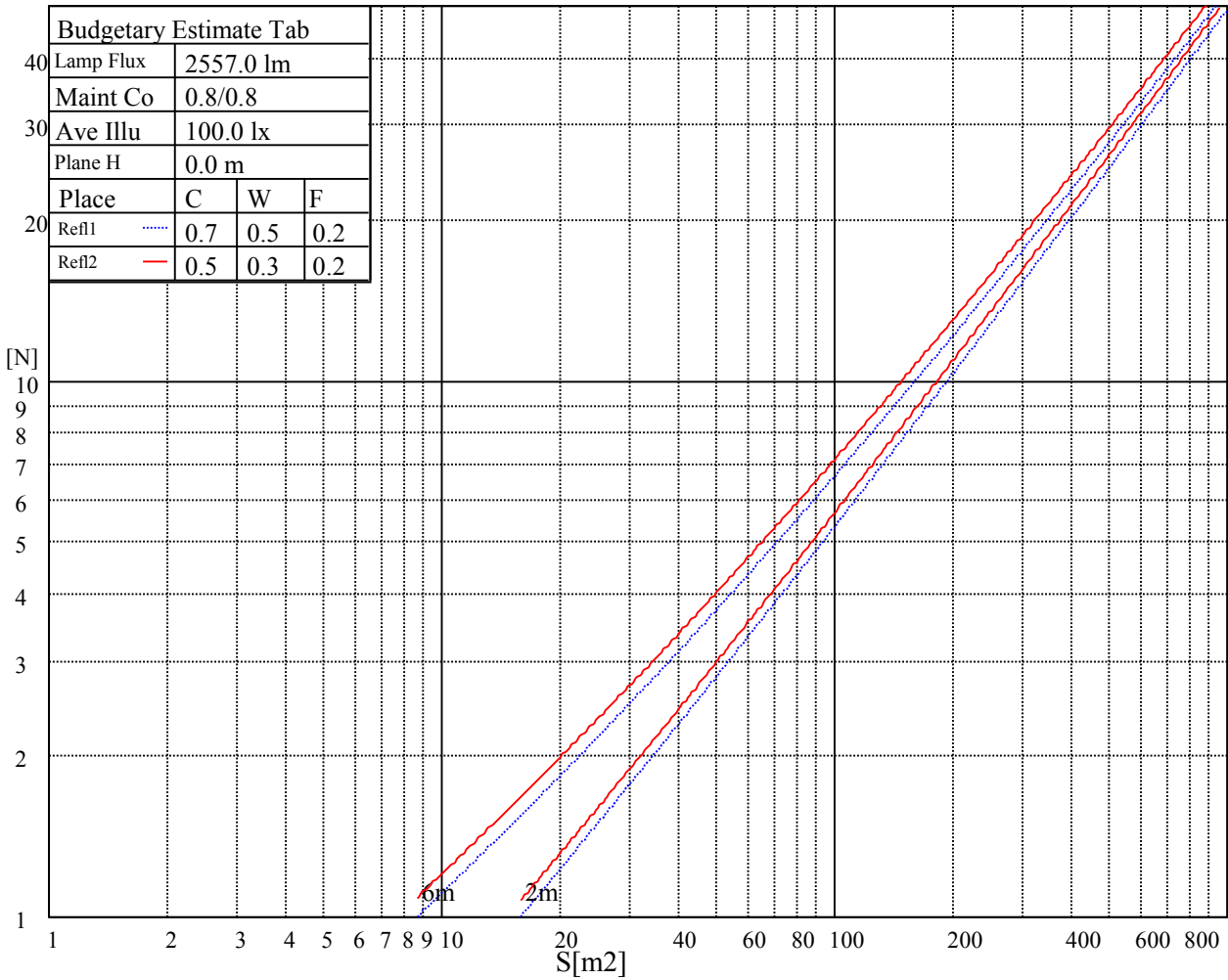
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

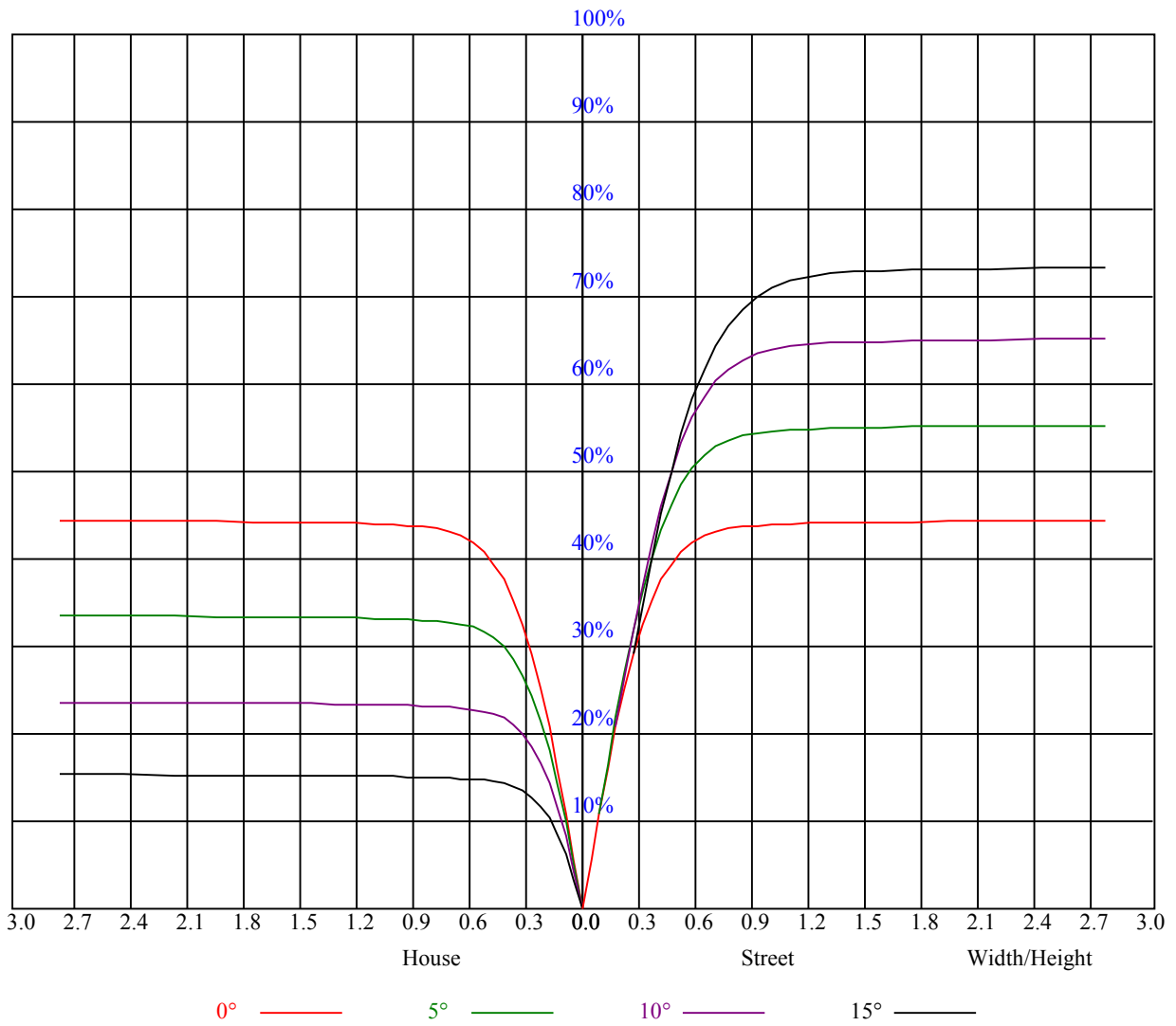


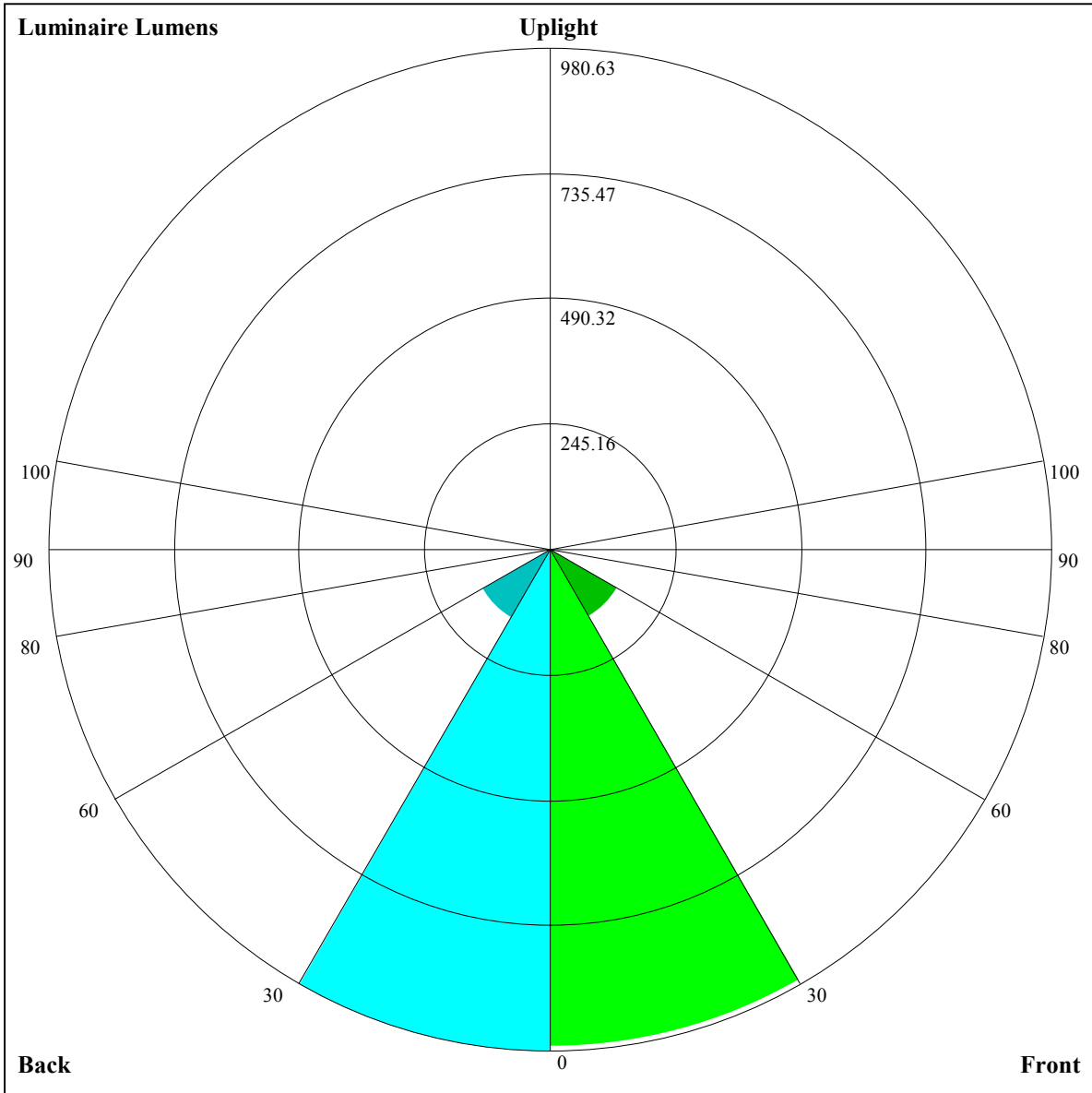
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOFC=20 CU															
0	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.99	0.97	0.96	0.97	0.96	0.94	0.94	0.92	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.84
2	0.93	0.90	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
5	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.72	0.70	0.74	0.72	0.69	0.68
6	0.75	0.71	0.68	0.75	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.63	0.60	0.59
9	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.56
10	0.63	0.59	0.56	0.63	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54





Luminaire Lumens:

FL=973.32,FM=151.39,FH=8.78,FVH=1.16

BL=980.63,BM=154.71,BH=8.65,BVH=1.16

UL=0,UH=0

BUG Rating:B2-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	4860.40	4832.02	4785.18	4731.73	4646.47	4542.82	4443.11	4362.32	4155.59
45.0	4866.55	4860.40	4833.12	4803.06	4720.59	4641.48	4557.33	4439.22	4298.25
90.0	4837.59	4815.83	4754.02	4686.58	4618.04	4501.61	4347.29	4234.75	4093.20
135.0	4870.44	4857.62	4832.54	4789.13	4714.44	4637.01	4533.94	4409.10	4278.17
180.0	4860.40	4863.77	4854.30	4815.83	4778.51	4708.34	4626.97	4529.47	4410.26
225.0	4866.55	4851.52	4818.09	4769.63	4728.36	4628.65	4524.47	4460.93	4296.04
270.0	4837.59	4864.87	4854.83	4823.08	4810.26	4750.65	4691.62	4606.89	4503.29
315.0	4870.44	4851.52	4828.13	4804.69	4754.02	4684.37	4599.11	4491.57	4391.28
360.0	4860.40	4832.02	4785.18	4731.73	4646.47	4542.82	4443.11	4362.32	4155.59
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4067.02	3913.80	3759.48	3585.08	3408.47	3229.60	3053.57	2867.44	2680.79
45.0	4152.81	4000.74	3838.59	3659.72	3552.23	3291.46	3177.25	2990.60	2798.37
90.0	3921.58	3757.80	3571.15	3395.06	3207.31	3016.19	2825.65	2634.01	2437.32
135.0	4133.88	3980.09	3811.83	3631.33	3459.72	3278.64	3091.99	2903.66	2713.12
180.0	4270.39	4124.42	3977.88	3820.19	3679.80	3468.65	3293.15	3154.96	2935.98
225.0	4207.42	4055.88	3900.98	3738.88	3564.47	3383.40	3204.53	3018.98	2837.38
270.0	4394.07	4274.28	4124.42	3960.06	3799.59	3633.01	3532.73	3278.06	3103.71
315.0	4260.93	4110.49	3956.69	3789.02	3612.94	3434.64	3268.60	3090.31	2913.70
360.0	4067.02	3913.80	3759.48	3585.08	3408.47	3229.60	3053.57	2867.44	2680.79
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2504.76	2318.64	2138.66	1969.88	1804.37	1645.05	1489.57	1341.92	1077.43
45.0	2606.68	2415.61	2218.35	2035.06	1849.52	1675.69	1511.86	1364.21	1227.70
90.0	2248.47	2053.98	1868.44	1699.66	1536.93	1389.28	1063.92	1063.92	1038.27
135.0	2522.00	2332.04	2182.71	1957.06	1816.09	1651.15	1495.14	1350.28	1210.46
180.0	2792.80	2606.68	2413.35	2232.28	2050.10	1879.06	1716.38	1560.90	1408.25
225.0	2660.77	2472.96	2291.36	2116.38	1939.24	1775.98	1621.66	1469.54	1330.78
270.0	2990.60	2804.47	2629.54	2454.04	2280.74	2109.70	1952.01	1791.59	1644.47
315.0	2734.83	2558.22	2376.61	2196.64	2094.67	1862.87	1767.62	1619.98	1474.01
360.0	2504.76	2318.64	2138.66	1969.88	1804.37	1645.05	1489.57	1341.92	1077.43
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1077.43	974.67	852.30	734.98	627.65	528.78	441.05	364.31	297.66
45.0	1089.57	962.52	842.16	732.98	631.54	535.72	451.04	375.82	307.86
90.0	912.43	801.00	694.98	594.32	503.02	422.02	349.80	287.62	231.49
135.0	1079.53	951.91	830.49	721.26	617.61	524.05	438.79	364.68	300.03
180.0	1265.60	1126.89	997.64	870.59	753.59	644.94	546.86	457.71	377.50
225.0	1044.68	1044.68	966.89	845.10	728.83	616.87	516.27	427.49	350.43
270.0	1499.61	1367.57	1236.64	1107.91	980.92	854.40	734.61	622.08	520.11
315.0	1331.93	1050.25	1050.25	921.00	796.95	678.16	571.35	474.22	391.17
360.0	1077.43	974.67	852.30	734.98	627.65	528.78	441.05	364.31	297.66
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	239.74	189.86	149.44	117.48	93.09	75.85	63.23	54.40	47.67
45.0	307.86	284.47	166.52	131.72	105.60	85.26	70.70	59.92	52.09
90.0	184.81	146.44	116.27	93.51	76.69	64.34	55.56	50.04	43.63
135.0	287.78	287.78	165.31	128.99	100.81	79.90	64.91	54.19	46.62
180.0	310.64	298.92	298.92	174.56	136.93	108.17	86.20	70.12	58.45
225.0	284.47	227.39	179.55	141.34	111.54	89.09	72.69	65.28	52.88
270.0	462.18	347.96	305.60	305.60	181.45	141.29	110.54	87.88	71.96
315.0	346.65	256.82	203.42	176.45	125.57	108.65	86.47	70.85	59.61
360.0	239.74	189.86	149.44	117.48	93.09	75.85	63.23	54.40	47.67

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	44.52	40.11	35.16	33.27	30.59	28.23	26.07	24.23	22.60
45.0	45.99	41.21	37.37	34.06	31.06	28.54	27.28	25.23	22.86
90.0	40.26	36.69	33.64	30.91	28.70	26.54	24.65	23.13	21.60
135.0	41.05	36.79	33.27	30.38	27.86	25.65	23.71	22.02	20.55
180.0	50.04	43.73	38.95	35.01	31.64	28.86	26.39	24.18	22.34
225.0	49.09	43.73	39.32	35.64	32.38	29.70	27.39	25.23	23.60
270.0	60.34	52.19	46.15	41.42	37.58	34.11	31.27	28.75	26.39
315.0	51.51	45.47	40.58	36.74	33.43	30.59	28.07	25.76	23.86
360.0	44.52	40.11	35.16	33.27	30.59	28.23	26.07	24.23	22.60
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.08	19.76	18.50	17.35	16.40	15.51	14.56	13.82	13.14
45.0	21.92	20.50	19.13	17.87	16.93	16.08	15.09	14.40	13.67
90.0	20.34	18.98	17.82	16.77	15.82	14.88	14.03	13.19	12.51
135.0	19.13	17.98	17.14	15.98	15.24	14.35	13.51	12.98	12.30
180.0	20.97	19.50	17.98	17.03	16.03	15.19	14.35	13.61	12.98
225.0	21.97	20.60	19.08	17.98	16.98	15.98	15.09	14.24	13.56
270.0	25.23	22.65	21.66	20.18	18.92	17.71	16.66	15.66	14.77
315.0	22.13	20.60	19.19	18.50	16.87	15.93	15.30	14.09	13.61
360.0	21.08	19.76	18.50	17.35	16.40	15.51	14.56	13.82	13.14
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.40	11.67	11.09	10.67	10.14	9.25	8.88	8.30	7.62
45.0	12.98	12.14	11.51	10.88	10.30	9.62	8.94	8.36	7.52
90.0	11.77	11.04	10.41	9.72	9.36	8.73	8.04	7.41	6.78
135.0	11.62	11.09	10.57	9.93	9.46	8.88	8.36	7.73	7.25
180.0	12.40	11.83	11.25	10.67	10.20	9.62	9.04	8.46	7.88
225.0	12.72	12.19	11.56	10.99	10.35	9.72	8.99	8.52	7.88
270.0	13.93	13.14	12.40	11.67	11.04	10.46	9.88	9.30	8.73
315.0	12.88	12.25	11.67	11.04	10.46	9.83	9.36	8.78	8.20
360.0	12.40	11.67	11.09	10.67	10.14	9.25	8.88	8.30	7.62
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.99	6.47	5.94	5.47	5.05	4.68	4.26	3.89	3.42
45.0	6.83	6.47	5.78	5.47	4.99	4.57	4.15	3.78	3.36
90.0	6.10	5.62	5.05	4.63	4.21	3.89	3.47	3.05	2.73
135.0	6.68	6.15	5.68	5.15	4.84	4.57	3.99	3.68	3.42
180.0	7.41	6.78	6.25	5.78	5.52	4.99	4.73	4.31	3.84
225.0	7.31	6.73	6.20	5.78	5.31	4.94	4.57	4.10	3.73
270.0	8.20	7.62	7.04	6.73	5.99	5.73	5.31	4.78	4.57
315.0	7.62	7.10	6.57	6.04	5.57	5.15	4.78	4.36	3.94
360.0	6.99	6.47	5.94	5.47	5.05	4.68	4.26	3.89	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	2.89	2.47	2.16	1.94	1.73	1.47	1.31	1.05
45.0	3.00	2.68	2.31	2.05	1.79	1.52	1.26	1.05	0.89
90.0	2.47	2.21	1.89	1.68	1.42	1.26	1.00	0.79	0.84
135.0	2.94	2.63	2.37	2.05	1.79	1.58	1.31	1.16	0.84
180.0	3.63	3.15	2.84	2.52	2.16	1.89	1.68	1.42	1.16
225.0	3.42	3.10	2.73	2.37	2.10	1.89	1.58	1.31	1.16
270.0	4.10	3.68	3.31	2.94	2.52	2.31	2.05	1.84	1.47
315.0	3.68	3.36	2.94	2.63	2.42	2.05	1.84	1.58	1.42
360.0	3.15	2.89	2.47	2.16	1.94	1.73	1.47	1.31	1.05

Intensity data(cd)

C/ γ (°)	90.0
0.0	0.89
45.0	0.84
90.0	0.89
135.0	0.84
180.0	1.00
225.0	1.00
270.0	1.26
315.0	1.31
360.0	0.89