



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: 2-2679-L

Luminaire: 92.70.411.00

Report No: 2024418-B005

Ballast type: AC

Test No: 2024418-C005

Voltage(V): 33.620

LampCAT: NICHIA NFCWJ120B-V3

Current(A): 0.576

Lamp flux(lm): 2726.0

Power (W): 19.370

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2319.26, Efficiency(%): 85.08% , Luminous Efficacy(lm/W): 119.73

Central intensity(cd): 7441.926, Maximum intensity(cd): 7441.926

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.8

[C90/270]Total=24.8

Field angle(10%Imax): [C0/180]Total=61.4

[C90/270]Total=61.4

Maximum s/h(1/2): C0_180=0.41 C90_270=0.41

Maximum s/h(1/4): C0_180=0.48 C90_270=0.48

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.08%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.084%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/18
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	7441.926	0.000	0	0.00%	0.00%
1.0	7382.526	7.093	7.093	0.26%	0.31%
2.0	7246.168	20.996	28.09	0.77%	1.21%
3.0	7026.562	34.136	62.225	1.25%	2.68%
4.0	6723.489	46.026	108.251	1.69%	4.67%
5.0	6382.230	56.380	164.631	2.07%	7.10%
6.0	6008.490	65.117	229.748	2.39%	9.91%
7.0	5621.364	72.186	301.934	2.65%	13.02%
8.0	5231.092	77.669	379.603	2.85%	16.37%
9.0	4875.934	81.912	461.515	3.00%	19.90%
10.0	4496.269	84.815	546.33	3.11%	23.56%
11.0	4171.323	86.607	632.937	3.18%	27.29%
12.0	3833.429	87.503	720.441	3.21%	31.06%
13.0	3513.530	87.190	807.63	3.20%	34.82%
14.0	3219.089	86.177	893.807	3.16%	38.54%
15.0	2964.808	84.895	978.703	3.11%	42.20%
16.0	2729.036	83.431	1062.133	3.06%	45.80%
17.0	2497.726	81.395	1143.528	2.99%	49.31%
18.0	2298.603	79.081	1222.609	2.90%	52.72%
19.0	2128.888	77.029	1299.638	2.83%	56.04%
20.0	1974.973	75.112	1374.751	2.76%	59.28%
21.0	1822.010	72.910	1447.66	2.67%	62.42%
22.0	1691.286	70.601	1518.261	2.59%	65.46%
23.0	1575.484	68.546	1586.807	2.51%	68.42%
24.0	1430.239	65.716	1652.523	2.41%	71.25%
25.0	1279.170	61.606	1714.129	2.26%	73.91%
26.0	1223.859	59.084	1773.213	2.17%	76.46%
27.0	1131.664	57.628	1830.842	2.11%	78.94%
28.0	1028.950	54.702	1885.544	2.01%	81.30%
29.0	926.528	51.161	1936.705	1.88%	83.51%
30.0	814.889	47.018	1983.723	1.72%	85.53%
31.0	711.370	42.474	2026.196	1.56%	87.36%
32.0	613.118	37.945	2064.141	1.39%	89.00%
33.0	512.299	33.155	2097.296	1.22%	90.43%
34.0	426.219	28.402	2125.699	1.04%	91.65%
35.0	349.672	24.096	2149.795	0.88%	92.69%
36.0	285.180	20.214	2170.009	0.74%	93.56%
37.0	249.094	17.425	2187.434	0.64%	94.32%

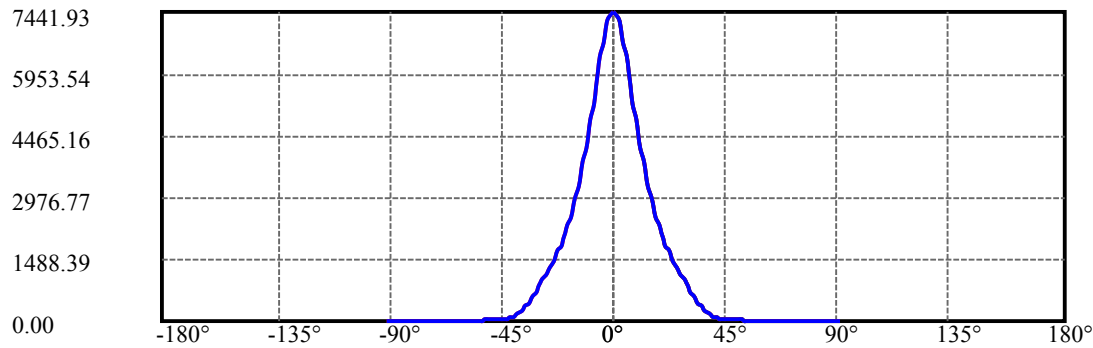
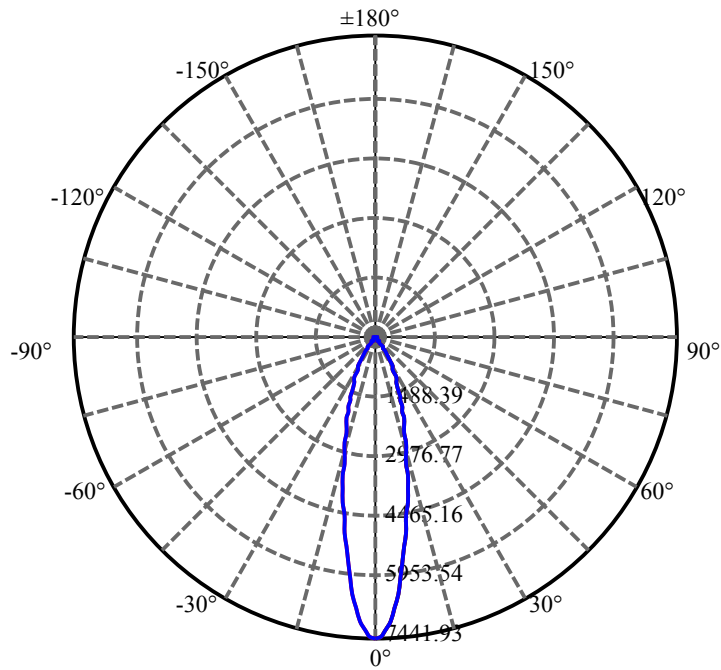
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	190.878	14.686	2202.12	0.54%	94.95%
39.0	127.542	10.869	2212.988	0.40%	95.42%
40.0	97.659	7.854	2220.842	0.29%	95.76%
41.0	75.084	6.151	2226.994	0.23%	96.02%
42.0	60.008	4.908	2231.902	0.18%	96.23%
43.0	48.954	4.036	2235.938	0.15%	96.41%
44.0	42.085	3.436	2239.374	0.13%	96.56%
45.0	37.052	3.041	2242.416	0.11%	96.69%
46.0	33.182	2.747	2245.162	0.10%	96.81%
47.0	30.278	2.524	2247.686	0.09%	96.91%
48.0	28.164	2.363	2250.049	0.09%	97.02%
49.0	26.474	2.244	2252.293	0.08%	97.11%
50.0	24.945	2.144	2254.436	0.08%	97.21%
51.0	23.863	2.065	2256.501	0.08%	97.29%
52.0	23.051	2.013	2258.514	0.07%	97.38%
53.0	22.509	1.982	2260.496	0.07%	97.47%
54.0	22.158	1.969	2262.465	0.07%	97.55%
55.0	22.041	1.973	2264.438	0.07%	97.64%
56.0	22.114	1.995	2266.433	0.07%	97.72%
57.0	22.312	2.031	2268.465	0.07%	97.81%
58.0	22.590	2.076	2270.541	0.08%	97.90%
59.0	22.860	2.125	2272.666	0.08%	97.99%
60.0	22.941	2.164	2274.83	0.08%	98.08%
61.0	22.685	2.177	2277.007	0.08%	98.18%
62.0	22.129	2.159	2279.166	0.08%	98.27%
63.0	21.127	2.104	2281.27	0.08%	98.36%
64.0	19.854	2.011	2283.281	0.07%	98.45%
65.0	18.625	1.904	2285.185	0.07%	98.53%
66.0	17.410	1.798	2286.983	0.07%	98.61%
67.0	16.277	1.694	2288.677	0.06%	98.68%
68.0	15.450	1.607	2290.284	0.06%	98.75%
69.0	14.843	1.545	2291.83	0.06%	98.82%
70.0	14.404	1.502	2293.332	0.06%	98.88%
71.0	14.067	1.472	2294.803	0.05%	98.95%
72.0	13.936	1.456	2296.259	0.05%	99.01%
73.0	13.928	1.457	2297.716	0.05%	99.07%
74.0	13.994	1.468	2299.184	0.05%	99.13%
75.0	13.965	1.477	2300.661	0.05%	99.20%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.797	1.474	2302.135	0.05%	99.26%
77.0	13.511	1.456	2303.591	0.05%	99.32%
78.0	13.087	1.424	2305.015	0.05%	99.39%
79.0	12.465	1.373	2306.388	0.05%	99.45%
80.0	11.807	1.309	2307.696	0.05%	99.50%
81.0	11.470	1.259	2308.955	0.05%	99.56%
82.0	11.207	1.230	2310.185	0.05%	99.61%
83.0	10.988	1.207	2311.392	0.04%	99.66%
84.0	10.775	1.186	2312.577	0.04%	99.71%
85.0	10.585	1.166	2313.743	0.04%	99.76%
86.0	10.315	1.142	2314.885	0.04%	99.81%
87.0	10.117	1.118	2316.004	0.04%	99.86%
88.0	9.942	1.099	2317.102	0.04%	99.91%
89.0	9.810	1.083	2318.185	0.04%	99.95%
90.0	9.773	1.074	2319.259	0.04%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1983.72	72.77%	85.53%
0-40	2220.84	81.47%	95.76%
0-60	2274.83	83.45%	98.08%
0-90	2318.18	85.04%	99.95%
0-120	2318.18	85.04%	99.95%
0-180	2319.26	85.08%	100.00%
60-90	43.36	1.59%	1.87%
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%
0-27.45	1855.41	68.06%	80.00%

ZONAL LUMEN SUMMARY

0-10	546.33
10-20	828.42
20-30	608.97
30-40	237.12
40-50	33.59
50-60	20.39
60-70	18.50
70-80	14.36
80-90	10.49
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:

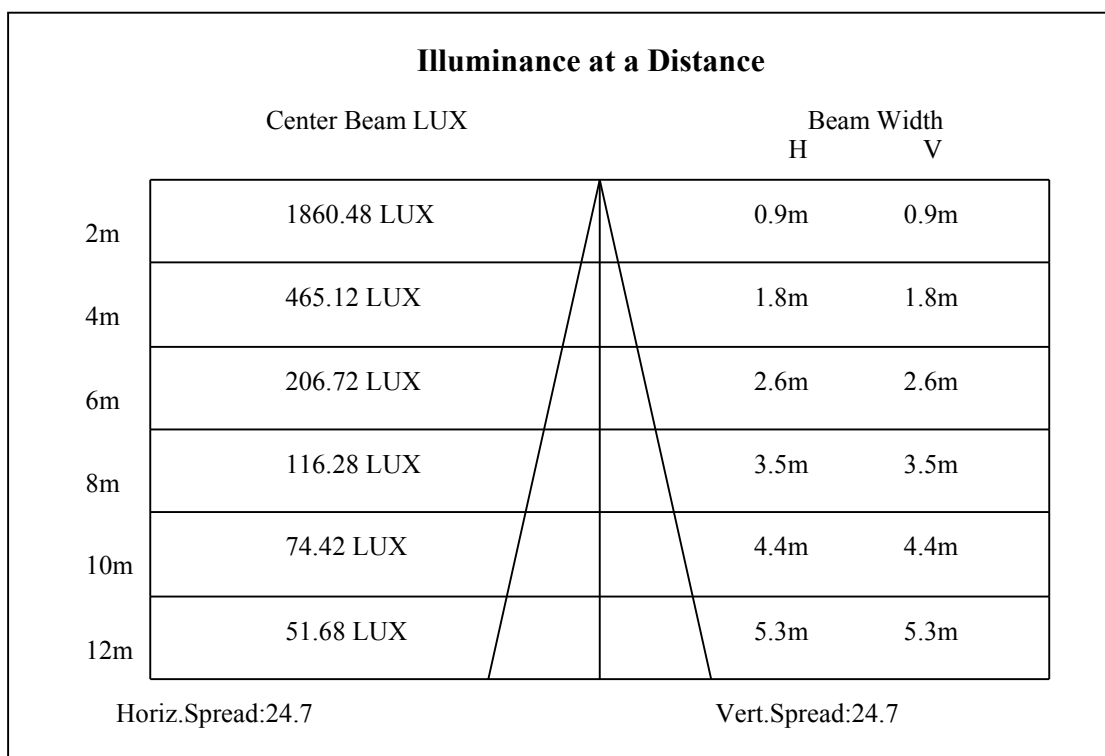
C90/C270:

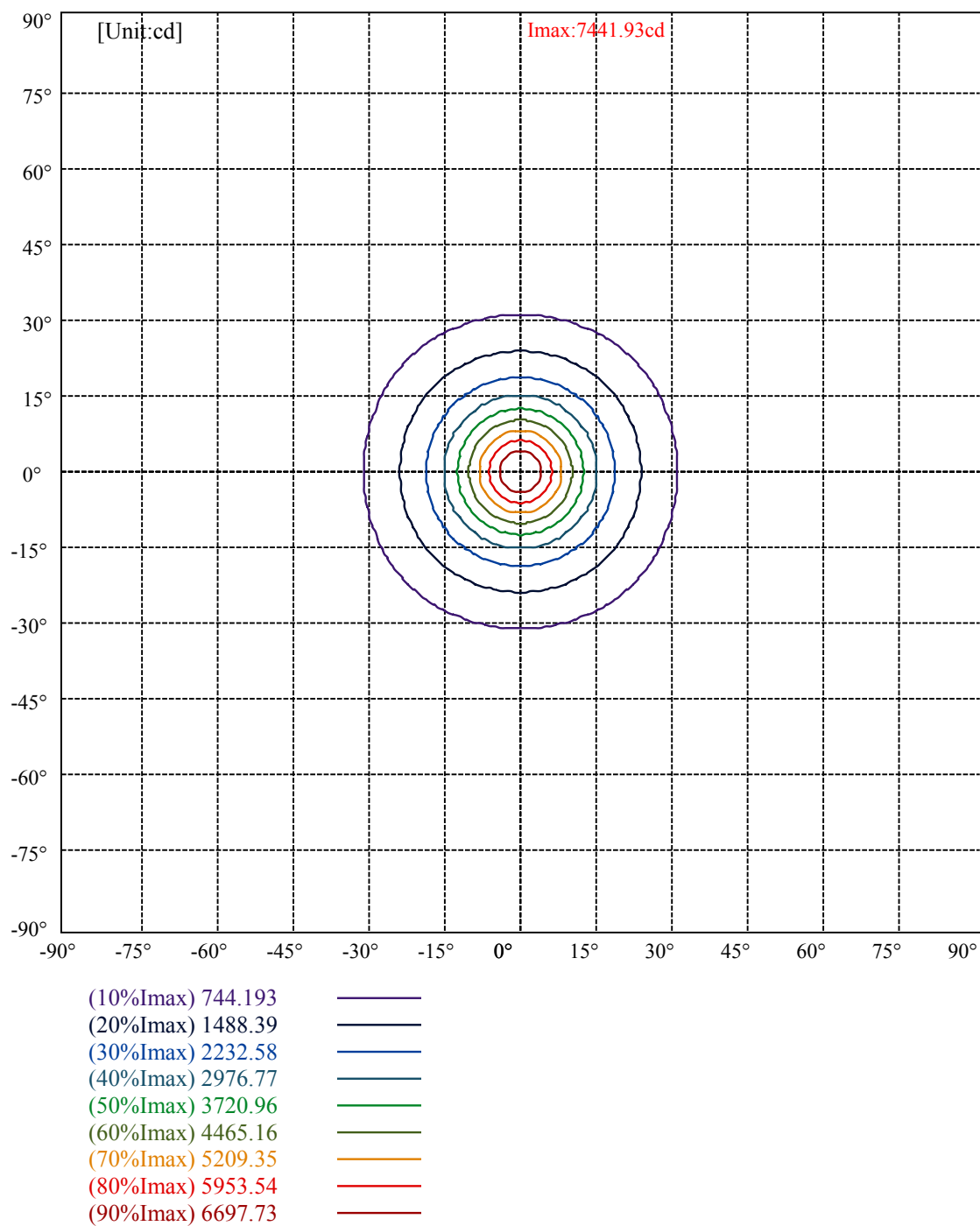
Field angle(10%Imax):C0/180Left:30.7 Right:30.7

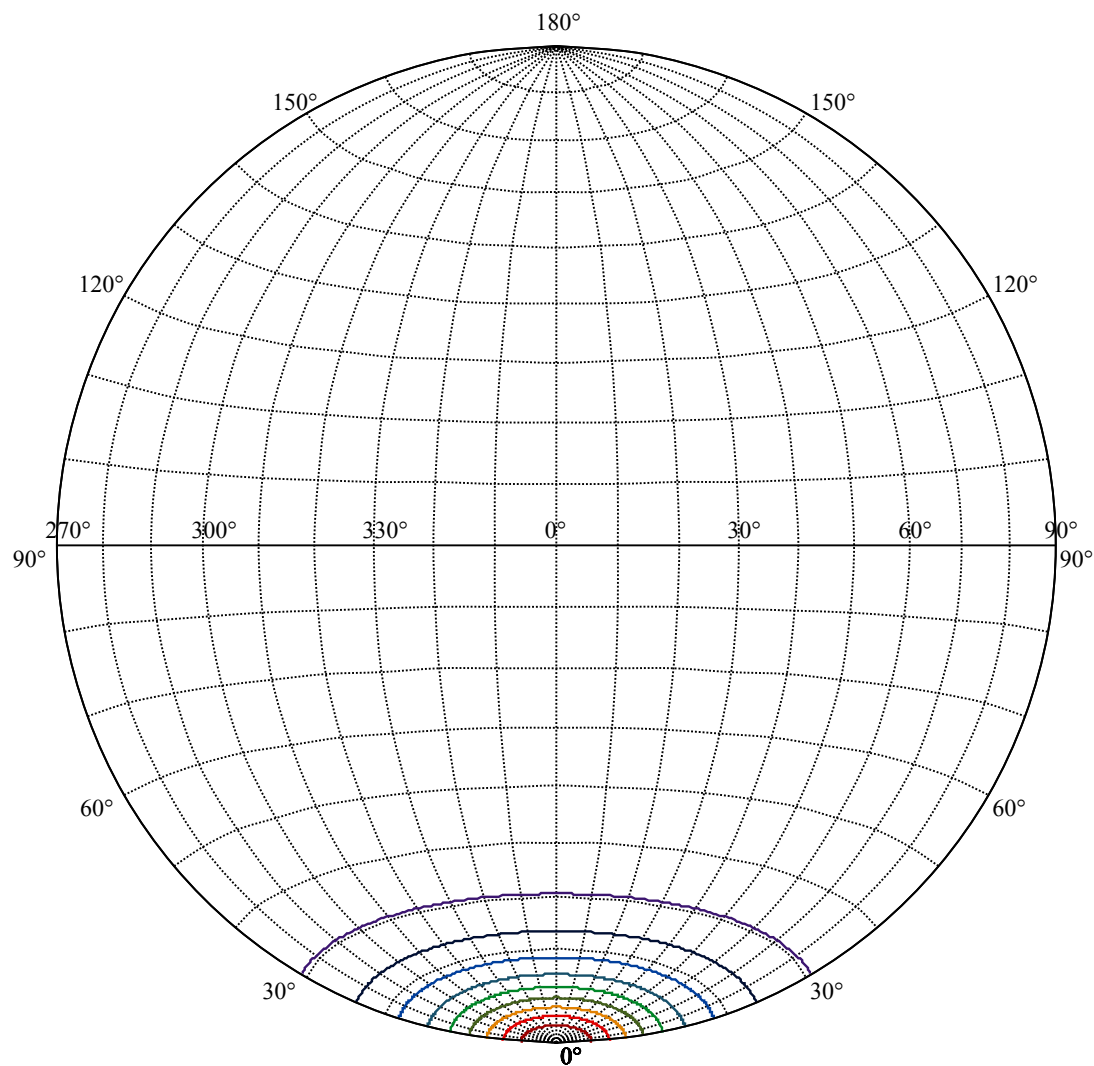
:C90/270Left:30.7 Right:30.7

Beam Angle(50%Imax):C0/180Left:12.4 Right:12.4

:C90/270Left:12.4 Right:12.4





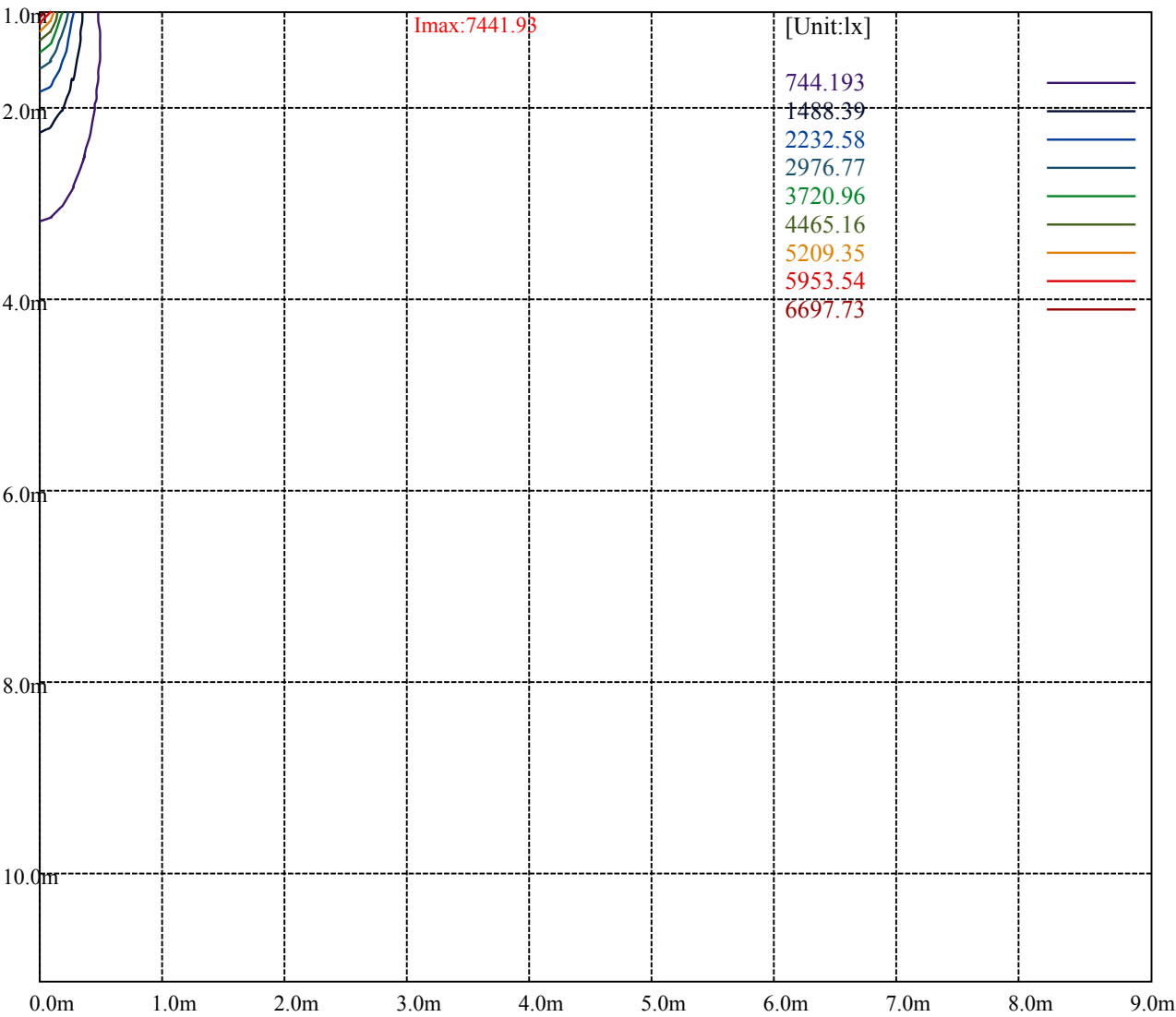


House

[Unit:cd]

Road

Imax:7441.93	
(10%Imax) 744.193	—
(20%Imax) 1488.39	—
(30%Imax) 2232.58	—
(40%Imax) 2976.77	—
(50%Imax) 3720.96	—
(60%Imax) 4465.16	—
(70%Imax) 5209.35	—
(80%Imax) 5953.54	—
(90%Imax) 6697.73	—



Luminance Limiting Curve(no luminous side)

Luminance Table

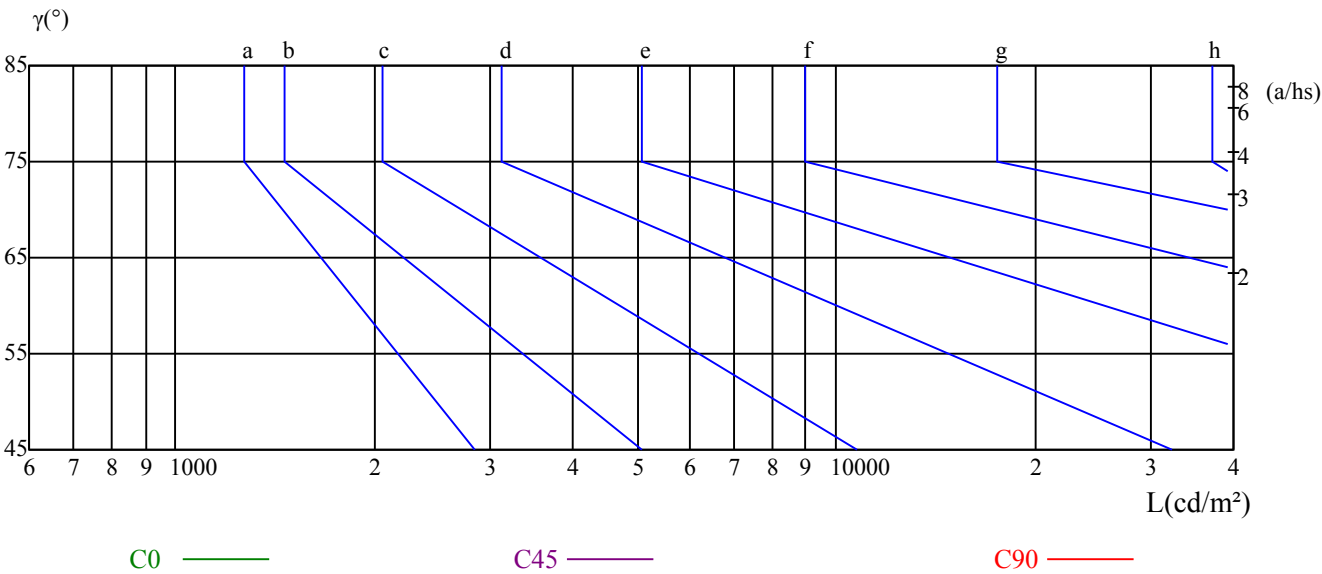
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

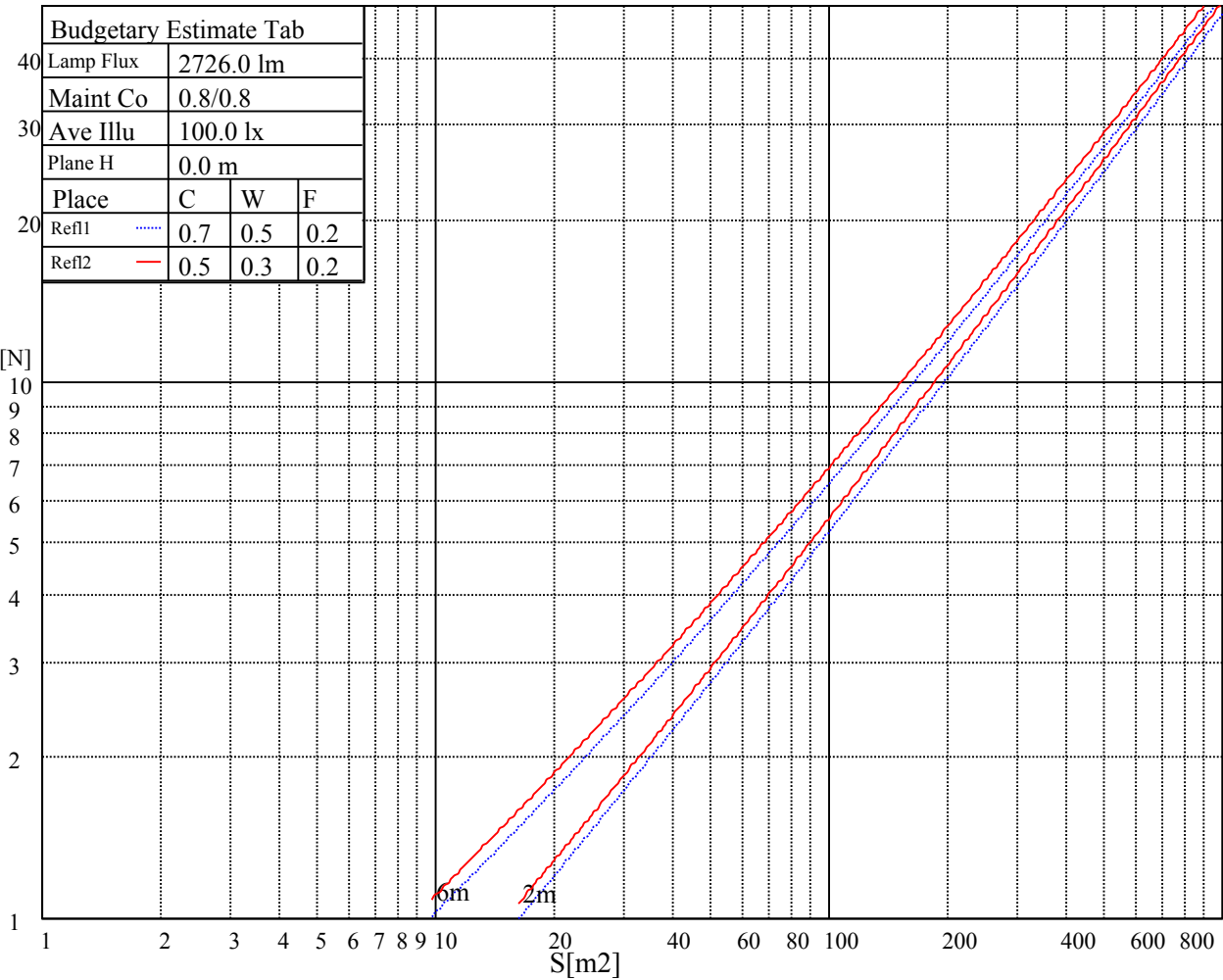
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

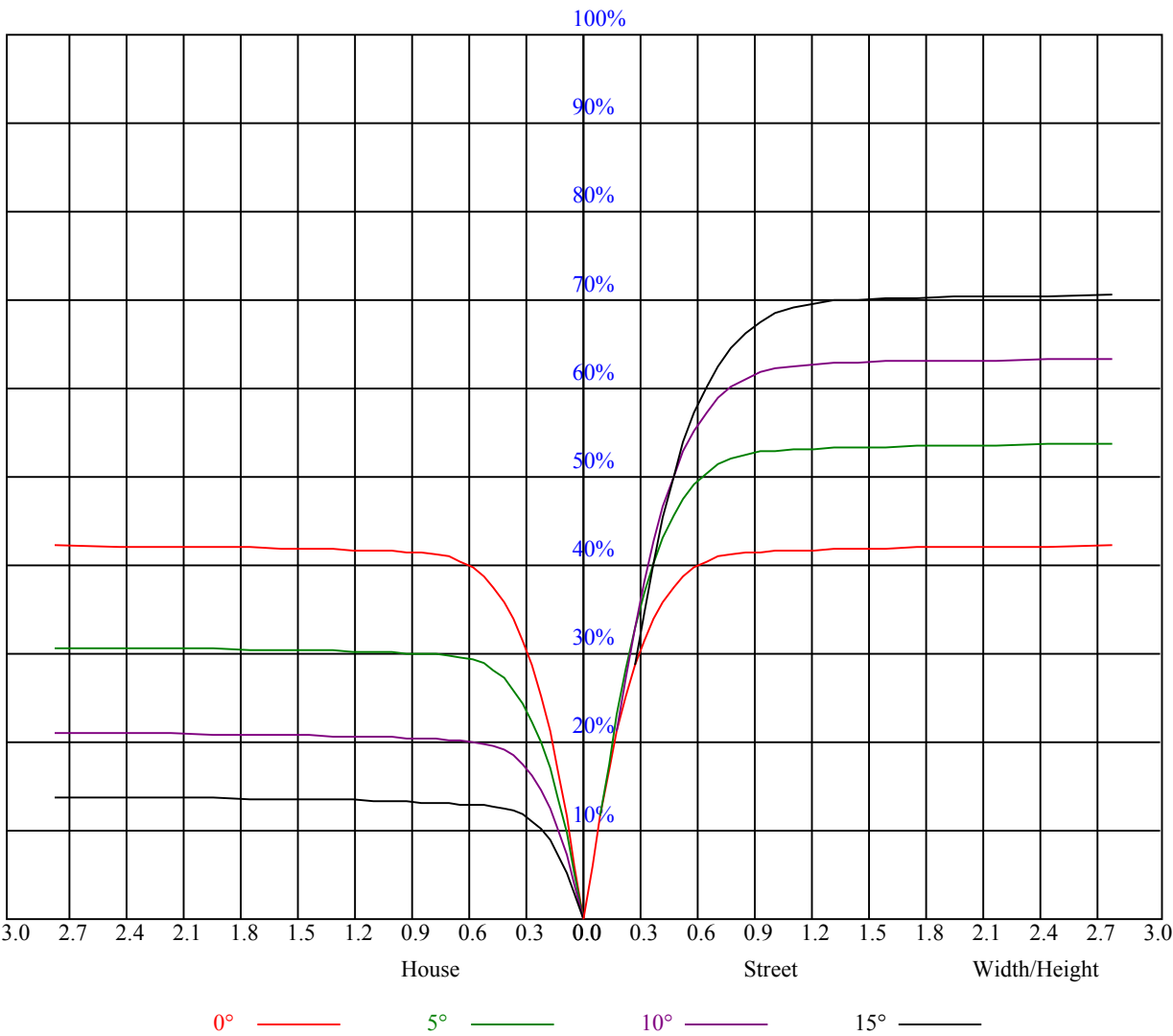


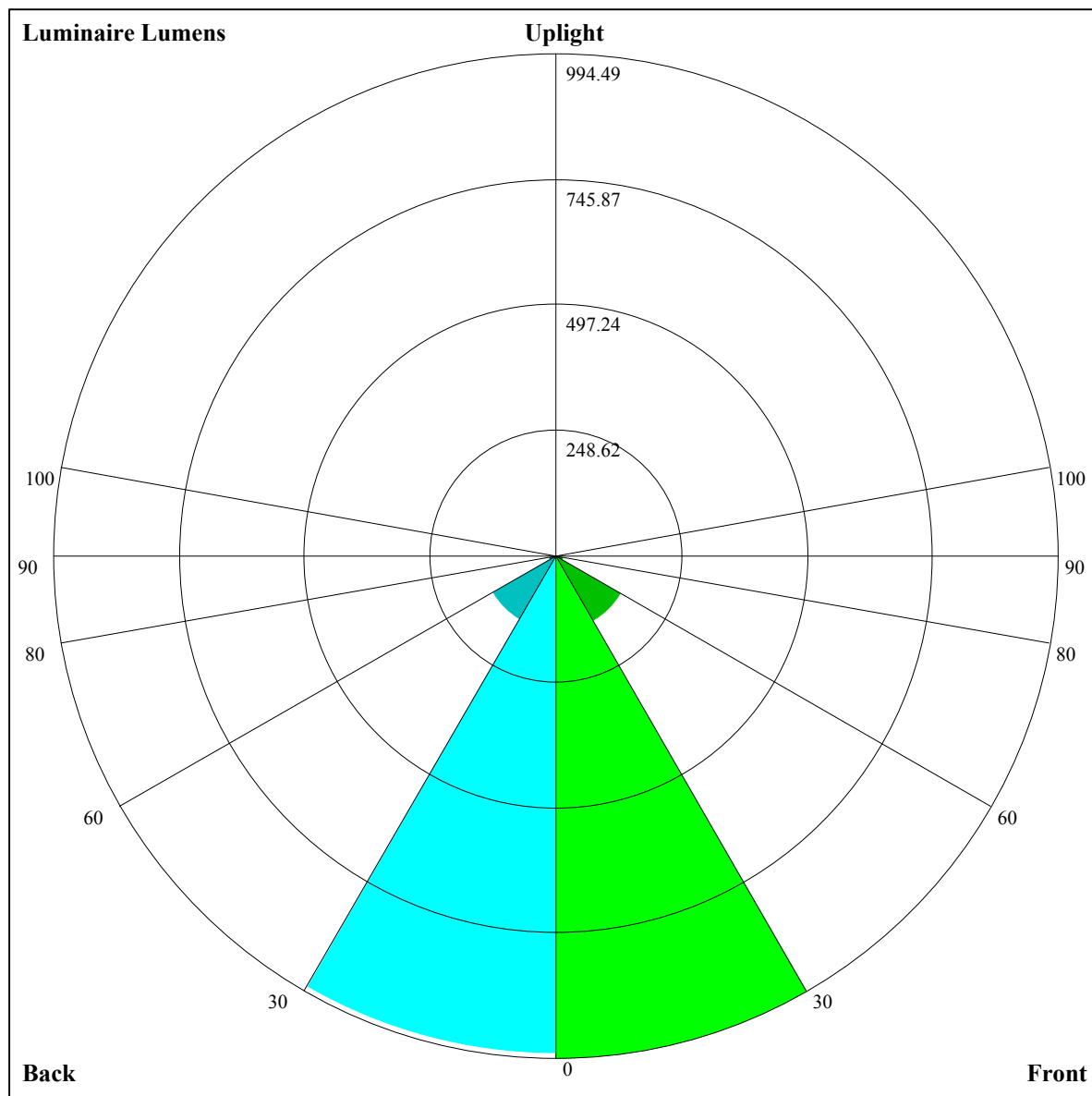
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字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



RHOC	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	0.95	0.95	0.95	0.91	0.91	0.91	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	0.80
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.78	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	0.72
4	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.67	0.71	0.69	0.67	0.66
6	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
7	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
8	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58
9	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.56	0.55
10	0.62	0.57	0.55	0.61	0.57	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53





Luminaire Lumens:

FL=994.49,FM=148.65,FH=16.58,FVH=5.81

BL=984.25,BM=145.77,BH=16.37,BVH=5.78

UL=0,UH=0

BUG Rating:B2-U0-G0

Intensity data(cd)									Appendix Page: 18 Total:20
C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	7469.29	7411.93	7273.82	7053.78	6774.04	6357.36	6011.49	5570.82	5213.83
45.0	7399.64	7458.75	7447.63	7339.37	7159.70	6890.50	6474.40	6144.34	5701.91
90.0	7468.70	7424.81	7279.67	7054.95	6769.36	6441.63	6012.66	5657.43	5296.93
135.0	7430.08	7448.80	7410.18	7262.12	6944.34	6640.02	6320.49	5882.15	5524.58
180.0	7469.29	7433.59	7296.06	7079.53	6717.86	6402.42	6055.38	5696.05	5251.87
225.0	7399.64	7186.62	6927.37	6620.12	6296.49	5955.31	5504.10	5144.77	4794.22
270.0	7468.70	7408.42	7256.85	7011.05	6648.80	6316.98	5981.06	5627.00	5179.88
315.0	7430.08	7287.28	7077.77	6791.59	6477.33	6053.63	5708.34	5248.36	4885.52
360.0	7469.29	7411.93	7273.82	7053.78	6774.04	6357.36	6011.49	5570.82	5213.83
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4865.62	4457.72	4132.33	3818.65	3457.57	3190.71	2948.42	2721.94	2469.12
45.0	5354.28	5002.56	4664.30	4266.93	3952.08	3644.84	3355.15	3027.43	2791.00
90.0	4942.28	4534.38	4203.73	3885.37	3585.15	3235.18	2988.80	2756.47	2494.87
135.0	5168.18	4745.65	4425.53	4095.46	3713.90	3431.23	3163.20	2916.82	2633.57
180.0	4905.41	4495.76	4163.93	3850.25	3479.81	3212.36	2965.98	2734.23	2482.00
225.0	4386.91	4067.96	3759.54	3405.48	3140.38	2844.25	2630.64	2438.11	2260.20
270.0	4832.85	4509.22	4180.32	3788.81	3500.29	3223.48	2919.16	2697.36	2497.80
315.0	4551.94	4156.91	3840.89	3556.47	3279.07	2970.66	2747.10	2539.94	2353.25
360.0	4865.62	4457.72	4132.33	3818.65	3457.57	3190.71	2948.42	2721.94	2469.12
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2289.46	2127.35	1979.29	1812.50	1689.60	1576.07	1442.05	1163.66	1163.66
45.0	2573.29	2386.61	2173.00	2016.16	1840.01	1712.43	1593.04	1456.10	1350.17
90.0	2313.45	2102.77	1956.47	1817.18	1693.70	1549.15	1440.30	1165.24	1165.24
135.0	2443.37	2267.81	2107.45	1929.55	1797.87	1678.48	1541.54	1435.62	1334.96
180.0	2292.38	2122.67	1986.90	1813.67	1689.02	1582.51	1447.91	1352.51	1254.20
225.0	2066.49	1925.45	1797.28	1677.31	1541.54	1438.54	1165.53	1165.53	1117.49
270.0	2267.81	2103.36	1938.91	1802.55	1682.58	1577.24	1444.98	1345.49	1255.95
315.0	2142.57	1995.09	1860.49	1707.16	1595.97	1489.46	1366.56	1149.21	1149.21
360.0	2289.46	2127.35	1979.29	1812.50	1689.60	1576.07	1442.05	1163.66	1163.66
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1118.07	1017.53	922.55	798.72	700.92	606.00	515.88	413.34	341.60
45.0	1248.34	1148.86	1025.37	928.81	829.91	732.17	613.96	523.83	439.56
90.0	1115.50	1019.17	916.35	819.61	697.47	602.37	490.54	411.24	339.37
135.0	1209.13	1110.23	1007.82	883.16	784.26	685.94	568.90	481.11	400.94
180.0	1131.88	1041.76	940.52	813.52	714.62	616.30	503.35	423.18	350.61
225.0	1020.98	898.55	800.35	703.21	585.05	496.33	417.21	347.80	270.84
270.0	1154.71	1037.66	940.52	836.93	738.61	618.64	527.35	424.35	352.95
315.0	1054.69	957.84	858.76	735.16	640.12	547.19	461.22	384.90	301.51
360.0	1118.07	1017.53	922.55	798.72	700.92	606.00	515.88	413.34	341.60
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	277.86	221.80	164.10	127.70	94.40	74.97	60.75	48.75	42.25
45.0	348.27	299.11	299.11	161.81	124.54	96.74	72.51	58.87	49.51
90.0	259.72	205.82	160.53	116.40	91.00	72.16	58.58	46.94	40.85
135.0	330.13	296.77	296.77	149.17	114.47	83.39	67.18	52.09	44.30
180.0	301.45	301.45	165.15	128.11	98.96	72.80	58.58	48.52	40.20
225.0	216.94	171.88	134.72	99.37	78.36	63.20	50.21	43.31	38.27
270.0	304.96	304.96	167.37	129.80	100.37	73.86	59.63	49.74	42.90
315.0	242.11	190.96	139.28	107.97	79.18	63.56	52.61	43.42	38.39
360.0	277.86	221.80	164.10	127.70	94.40	74.97	60.75	48.75	42.25

Intensity data(cd)

Appendix Page: 19 Total:20

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	37.45	33.83	30.49	28.38	26.74	25.05	24.05	23.23	22.65
45.0	42.78	36.93	33.53	30.90	28.73	26.57	25.22	24.11	23.12
90.0	36.40	33.01	29.85	27.92	25.98	24.64	23.76	22.82	22.36
135.0	39.03	34.00	31.13	28.97	27.15	25.28	24.17	23.23	22.59
180.0	35.64	31.60	29.20	27.33	25.81	24.35	23.41	22.71	22.18
225.0	33.59	30.96	28.38	26.63	25.34	24.29	23.29	22.77	22.53
270.0	36.87	33.42	30.72	28.09	26.45	25.05	23.76	23.00	22.47
315.0	34.65	31.72	28.91	27.10	25.57	24.35	23.23	22.53	22.18
360.0	37.45	33.83	30.49	28.38	26.74	25.05	24.05	23.23	22.65
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.24	22.12	22.18	22.36	22.65	23.00	23.06	22.82	22.36
45.0	22.59	22.12	22.00	22.06	22.24	22.47	22.77	22.94	22.82
90.0	22.06	21.95	22.00	22.12	22.41	22.71	22.82	22.65	22.18
135.0	22.06	21.83	21.77	21.89	22.12	22.41	22.77	22.82	22.53
180.0	21.83	21.77	21.89	22.18	22.47	22.82	22.88	22.71	22.12
225.0	22.41	22.53	22.77	23.00	23.29	23.35	23.00	22.12	21.01
270.0	22.12	22.06	22.18	22.47	22.77	23.12	23.23	22.88	22.24
315.0	21.95	21.95	22.12	22.41	22.77	23.00	23.00	22.53	21.77
360.0	22.24	22.12	22.18	22.36	22.65	23.00	23.06	22.82	22.36
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.19	20.01	18.79	17.56	16.56	15.51	14.98	14.46	14.28
45.0	22.24	21.36	20.31	19.02	17.38	16.39	15.39	14.81	14.40
90.0	21.07	20.01	18.73	17.21	16.21	15.45	14.81	14.40	14.05
135.0	21.83	20.78	19.72	18.43	16.91	16.04	15.33	14.86	14.34
180.0	20.95	19.72	18.38	17.21	15.98	15.27	14.69	14.34	13.99
225.0	19.78	18.08	16.91	15.98	15.27	14.57	14.22	13.87	13.58
270.0	21.30	19.72	18.38	17.15	15.98	15.27	14.69	14.22	13.93
315.0	20.66	19.14	17.79	16.74	15.92	15.10	14.63	14.28	13.99
360.0	21.19	20.01	18.79	17.56	16.56	15.51	14.98	14.46	14.28
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.34	13.99	13.64	13.28	12.87	12.58	12.35	12.11	11.82
45.0	13.93	13.64	13.40	13.17	12.93	12.70	12.52	12.23	12.06
90.0	13.81	14.22	14.81	15.16	15.27	14.86	14.10	13.11	11.70
135.0	14.10	13.81	13.93	14.28	14.69	14.81	14.46	13.05	12.23
180.0	13.87	13.75	13.52	13.17	12.76	12.47	12.23	11.94	11.70
225.0	13.28	13.05	12.87	12.70	12.41	12.17	11.88	11.65	11.35
270.0	14.05	14.28	14.75	14.86	14.69	14.22	13.52	12.70	11.82
315.0	14.10	14.69	15.04	15.10	14.75	14.28	13.64	12.93	11.76
360.0	14.34	13.99	13.64	13.28	12.87	12.58	12.35	12.11	11.82
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.59	11.29	11.06	10.77	10.59	10.42	10.18	10.01	9.83
45.0	11.76	11.53	11.24	11.06	10.83	10.65	10.42	10.12	9.95
90.0	11.41	11.18	10.94	10.77	10.53	10.36	10.12	9.95	9.77
135.0	11.70	11.29	11.12	10.94	10.83	10.36	10.24	10.01	9.89
180.0	11.41	11.12	10.89	10.65	10.48	10.24	10.07	9.95	9.83
225.0	11.18	11.00	10.89	10.59	10.24	10.07	9.89	9.77	9.71
270.0	11.41	11.18	10.94	10.83	10.71	10.24	10.07	9.89	9.77
315.0	11.29	11.06	10.83	10.59	10.48	10.18	9.95	9.83	9.71
360.0	11.59	11.29	11.06	10.77	10.59	10.42	10.18	10.01	9.83

Intensity data(cd)

Appendix Page: 20 Total:20

C/ γ (°)	90.0
0.0	9.77
45.0	9.83
90.0	9.77
135.0	9.77
180.0	9.77
225.0	9.71
270.0	9.77
315.0	9.77
360.0	9.77