



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: 2-2689-L

Luminaire: 92.70.412.00

Report No: 2024315-B007

Ballast type: AC

Test No: 2024315-C007

Voltage(V): 34.640

LampCAT: BRIDGELUX V13B LES13

Current(A): 0.450

Lamp flux(lm): 2626.0

Power (W): 15.588

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2176.64, Efficiency(%): 82.89% , Luminous Efficacy(lm/W): 139.64

Central intensity(cd): 4100.438, Maximum intensity(cd): 4100.438

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=42.8

[C90/270]Total=42.8

Field angle(10%Imax): [C0/180]Total=66.6

[C90/270]Total=66.6

Maximum s/h(1/2): C0_180=0.69 C90_270=0.69

Maximum s/h(1/4): C0_180=0.67 C90_270=0.67

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 82.89%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.926%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/15
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	4100.437	0.000	0	0.00%	0.00%
1.0	4097.585	3.923	3.923	0.15%	0.18%
2.0	4089.465	11.751	15.673	0.45%	0.72%
3.0	4071.249	19.518	35.191	0.74%	1.62%
4.0	4044.914	27.167	62.359	1.03%	2.86%
5.0	4005.338	34.632	96.99	1.32%	4.46%
6.0	3949.962	41.807	138.798	1.59%	6.38%
7.0	3882.075	48.613	187.411	1.85%	8.61%
8.0	3802.997	55.001	242.411	2.09%	11.14%
9.0	3714.116	60.922	303.334	2.32%	13.94%
10.0	3609.434	66.275	369.609	2.52%	16.98%
11.0	3499.631	71.034	440.643	2.71%	20.24%
12.0	3369.565	75.090	515.733	2.86%	23.69%
13.0	3243.229	78.477	594.211	2.99%	27.30%
14.0	3103.507	81.238	675.448	3.09%	31.03%
15.0	2966.857	83.337	758.785	3.17%	34.86%
16.0	2827.280	84.900	843.685	3.23%	38.76%
17.0	2693.630	85.975	929.661	3.27%	42.71%
18.0	2554.273	86.527	1016.187	3.29%	46.69%
19.0	2411.844	86.400	1102.587	3.29%	50.66%
20.0	2261.368	85.533	1188.12	3.26%	54.59%
21.0	2114.038	84.017	1272.137	3.20%	58.45%
22.0	1968.317	82.037	1354.173	3.12%	62.21%
23.0	1817.036	79.427	1433.6	3.02%	65.86%
24.0	1670.291	76.245	1509.846	2.90%	69.37%
25.0	1471.358	71.434	1581.28	2.72%	72.65%
26.0	1304.349	65.521	1646.801	2.50%	75.66%
27.0	1203.332	61.351	1708.152	2.34%	78.48%
28.0	1068.255	57.512	1765.664	2.19%	81.12%
29.0	919.264	51.999	1817.663	1.98%	83.51%
30.0	783.624	45.978	1863.64	1.75%	85.62%
31.0	653.499	39.993	1903.634	1.52%	87.46%
32.0	541.816	34.244	1937.878	1.30%	89.03%
33.0	435.042	28.779	1966.656	1.10%	90.35%
34.0	346.995	23.667	1990.323	0.90%	91.44%
35.0	284.610	19.615	2009.938	0.75%	92.34%
36.0	246.307	16.904	2026.843	0.64%	93.12%
37.0	190.191	14.236	2041.079	0.54%	93.77%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	138.779	10.981	2052.06	0.42%	94.28%
39.0	106.306	8.365	2060.425	0.32%	94.66%
40.0	86.840	6.736	2067.161	0.26%	94.97%
41.0	73.007	5.692	2072.853	0.22%	95.23%
42.0	62.941	4.939	2077.793	0.19%	95.46%
43.0	55.911	4.403	2082.195	0.17%	95.66%
44.0	50.929	4.032	2086.228	0.15%	95.85%
45.0	47.162	3.770	2089.997	0.14%	96.02%
46.0	44.067	3.568	2093.565	0.14%	96.18%
47.0	41.471	3.402	2096.967	0.13%	96.34%
48.0	39.342	3.267	2100.234	0.12%	96.49%
49.0	37.293	3.147	2103.381	0.12%	96.63%
50.0	35.465	3.034	2106.415	0.12%	96.77%
51.0	33.753	2.928	2109.343	0.11%	96.91%
52.0	32.143	2.828	2112.171	0.11%	97.04%
53.0	30.571	2.728	2114.899	0.10%	97.16%
54.0	29.144	2.632	2117.531	0.10%	97.28%
55.0	27.827	2.543	2120.074	0.10%	97.40%
56.0	26.459	2.453	2122.527	0.09%	97.51%
57.0	25.260	2.365	2124.892	0.09%	97.62%
58.0	24.111	2.283	2127.175	0.09%	97.73%
59.0	22.992	2.202	2129.377	0.08%	97.83%
60.0	21.836	2.118	2131.495	0.08%	97.93%
61.0	20.688	2.029	2133.524	0.08%	98.02%
62.0	19.598	1.941	2135.465	0.07%	98.11%
63.0	18.566	1.856	2137.321	0.07%	98.19%
64.0	17.571	1.773	2139.095	0.07%	98.28%
65.0	16.745	1.698	2140.793	0.06%	98.35%
66.0	16.189	1.643	2142.436	0.06%	98.43%
67.0	15.889	1.613	2144.049	0.06%	98.50%
68.0	15.750	1.603	2145.652	0.06%	98.58%
69.0	15.728	1.606	2147.258	0.06%	98.65%
70.0	15.735	1.616	2148.874	0.06%	98.72%
71.0	15.728	1.626	2150.5	0.06%	98.80%
72.0	15.808	1.640	2152.14	0.06%	98.87%
73.0	15.991	1.663	2153.802	0.06%	98.95%
74.0	15.764	1.669	2155.472	0.06%	99.03%
75.0	15.369	1.645	2157.117	0.06%	99.10%

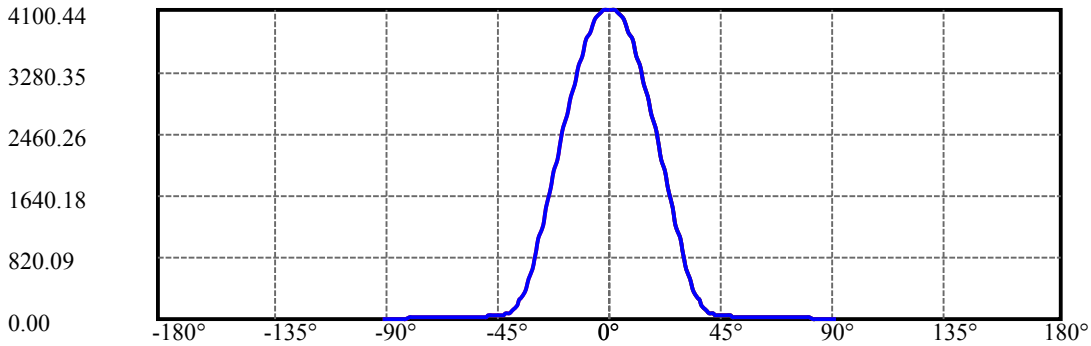
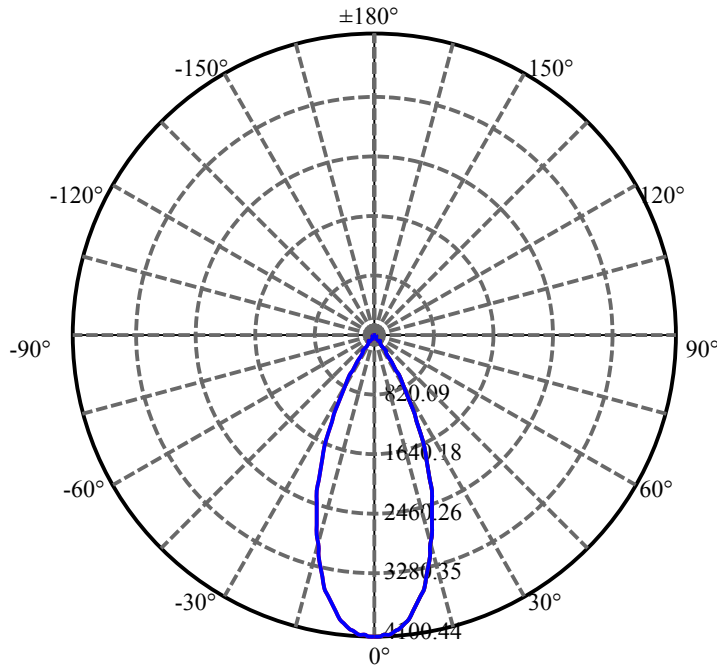
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.091	1.617	2158.734	0.06%	99.18%
77.0	14.755	1.591	2160.325	0.06%	99.25%
78.0	14.338	1.557	2161.883	0.06%	99.32%
79.0	13.797	1.512	2163.394	0.06%	99.39%
80.0	13.175	1.454	2164.848	0.06%	99.46%
81.0	12.641	1.396	2166.244	0.05%	99.52%
82.0	12.195	1.347	2167.591	0.05%	99.58%
83.0	11.763	1.302	2168.894	0.05%	99.64%
84.0	11.273	1.255	2170.149	0.05%	99.70%
85.0	10.636	1.196	2171.344	0.05%	99.76%
86.0	10.095	1.133	2172.478	0.04%	99.81%
87.0	9.642	1.080	2173.558	0.04%	99.86%
88.0	9.437	1.045	2174.603	0.04%	99.91%
89.0	9.232	1.023	2175.626	0.04%	99.95%
90.0	9.188	1.010	2176.636	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1863.64	70.97%	85.62%
0-40	2067.16	78.72%	94.97%
0-60	2131.49	81.17%	97.93%
0-90	2175.63	82.85%	99.95%
0-120	2175.63	82.85%	99.95%
0-180	2176.64	82.89%	100.00%
60-90	44.13	1.68%	2.03%
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%
0-27.58	1741.31	66.31%	80.00%

ZONAL LUMEN SUMMARY

0-10	369.61
10-20	818.51
20-30	675.52
30-40	203.52
40-50	39.25
50-60	25.08
60-70	17.38
70-80	15.97
80-90	10.78
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: —————

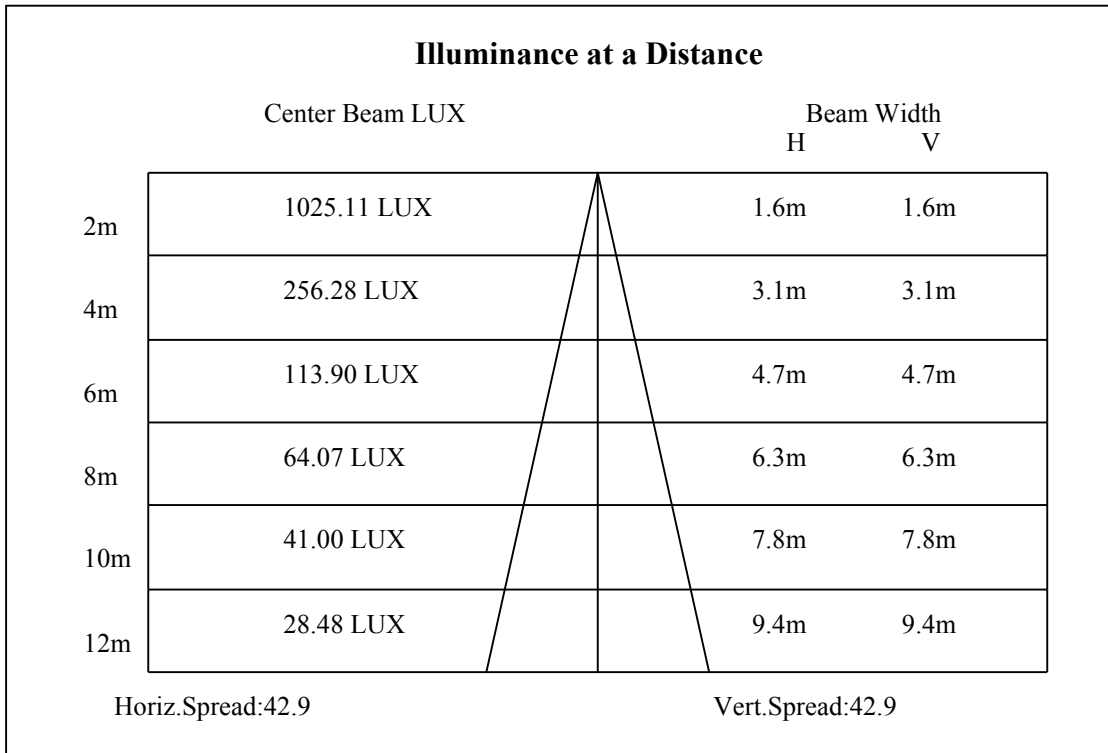
C90/C270: —————

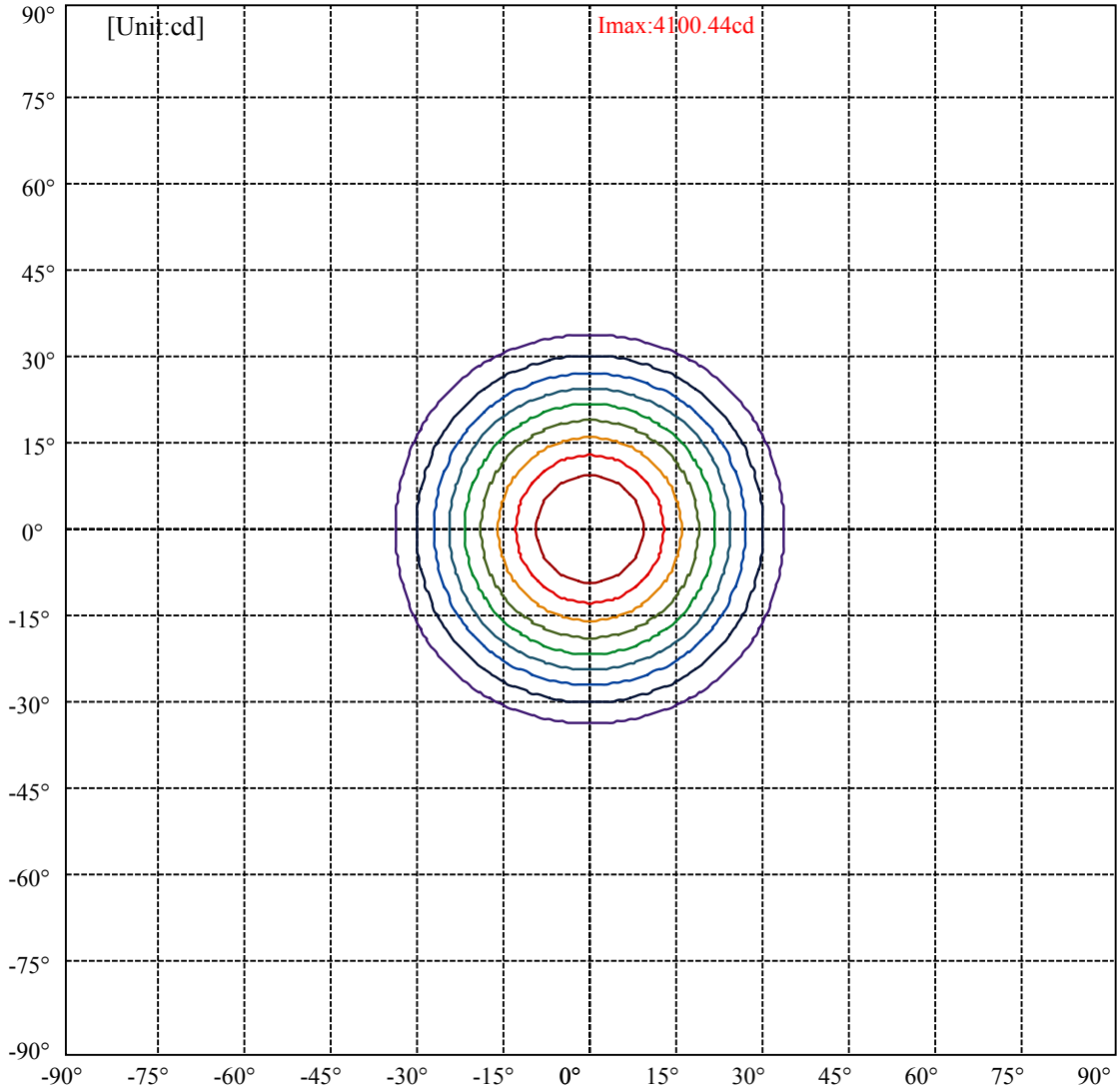
Field angle(10%Imax):C0/180Left:33.3 Right:33.3

:C90/270Left:33.3 Right:33.3

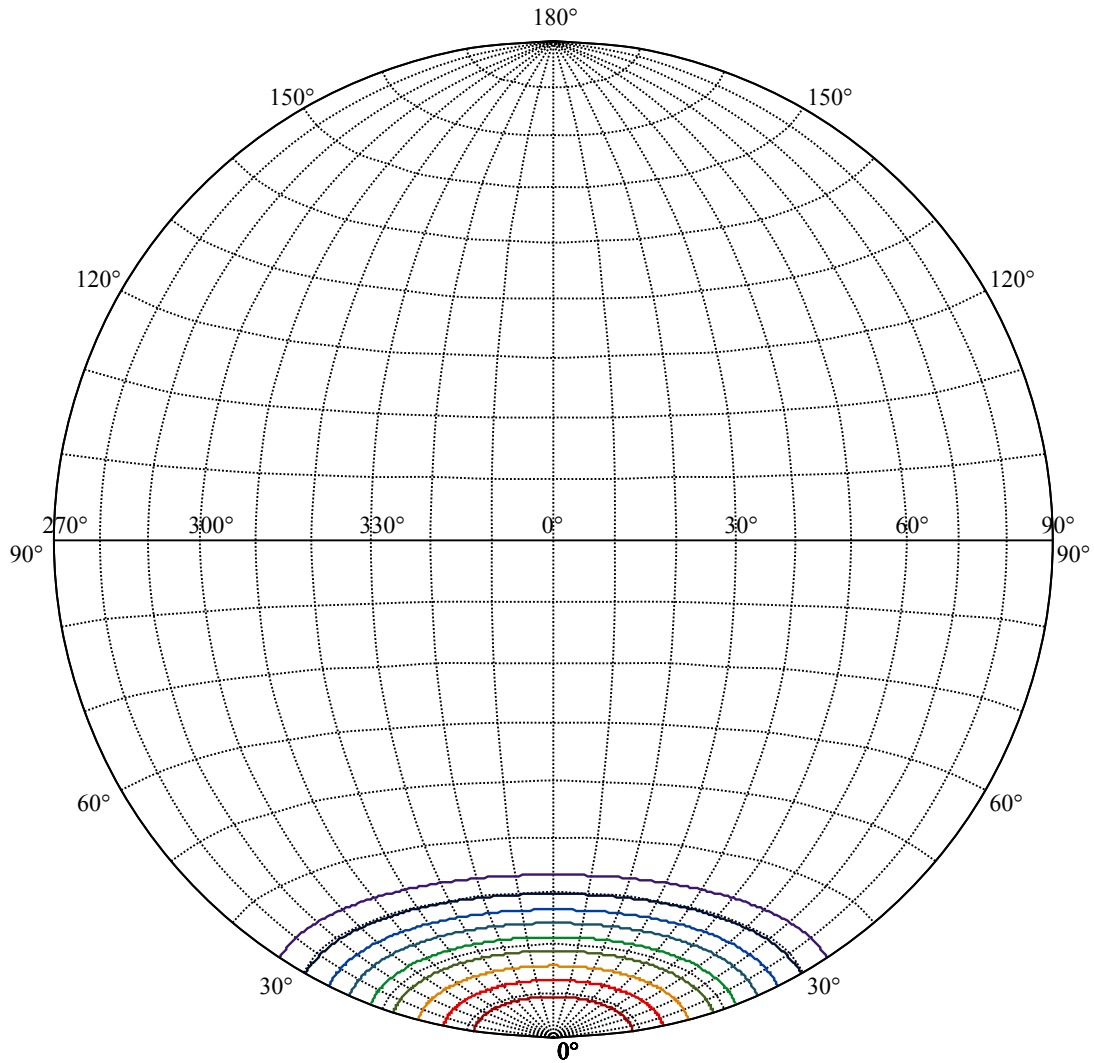
Beam Angle(50%Imax):C0/180Left:21.4 Right:21.4

:C90/270Left:21.4 Right:21.4





(10%Imax)	410.044	—
(20%Imax)	820.088	—
(30%Imax)	1230.13	—
(40%Imax)	1640.18	—
(50%Imax)	2050.22	—
(60%Imax)	2460.26	—
(70%Imax)	2870.31	—
(80%Imax)	3280.35	—
(90%Imax)	3690.39	—



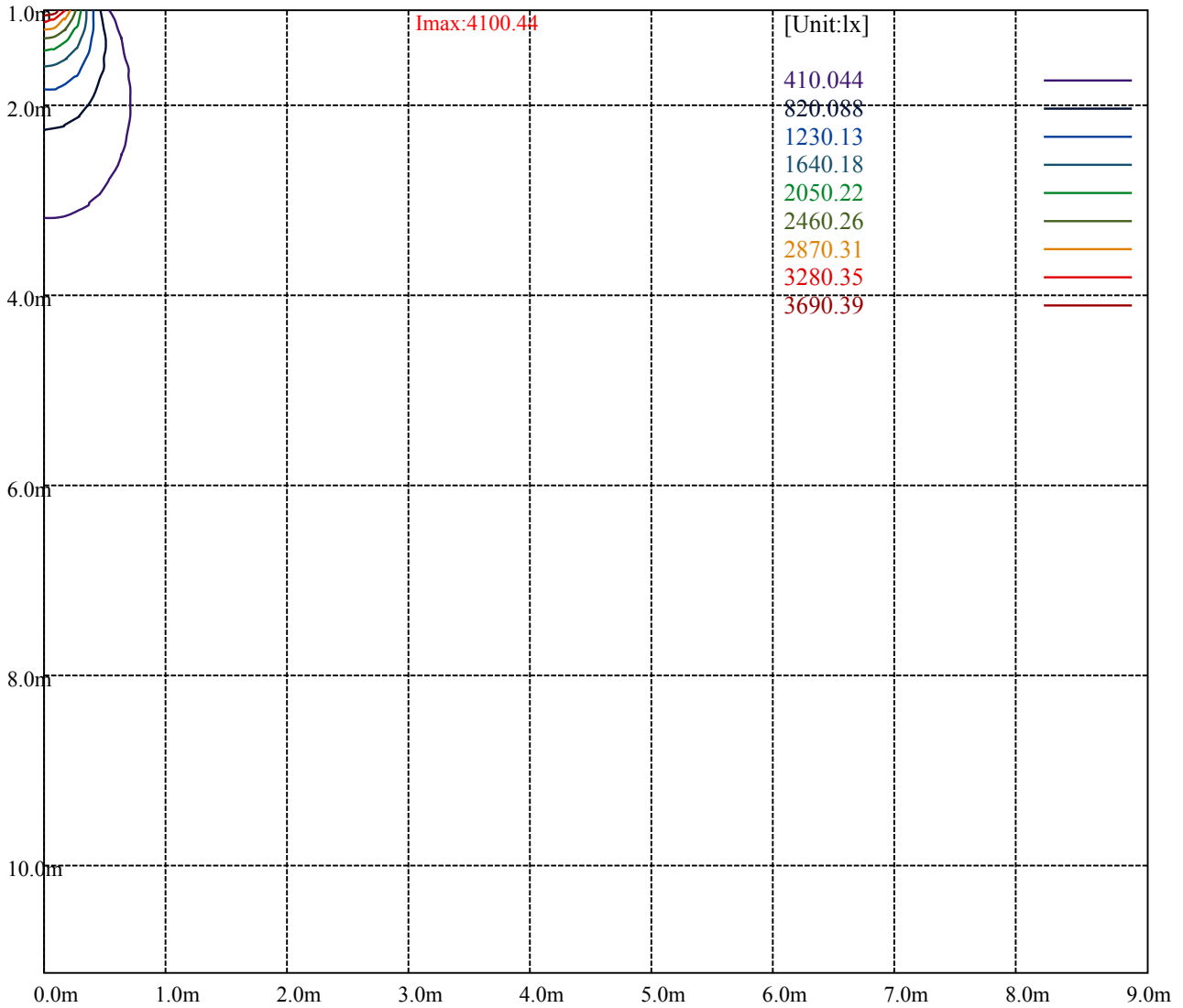
House

[Unit:cd]

Road

Imax:4100.44

(10%Imax)	410.044	—
(20%Imax)	820.088	—
(30%Imax)	1230.13	—
(40%Imax)	1640.18	—
(50%Imax)	2050.22	—
(60%Imax)	2460.26	—
(70%Imax)	2870.31	—
(80%Imax)	3280.35	—
(90%Imax)	3690.39	—



Luminance Table

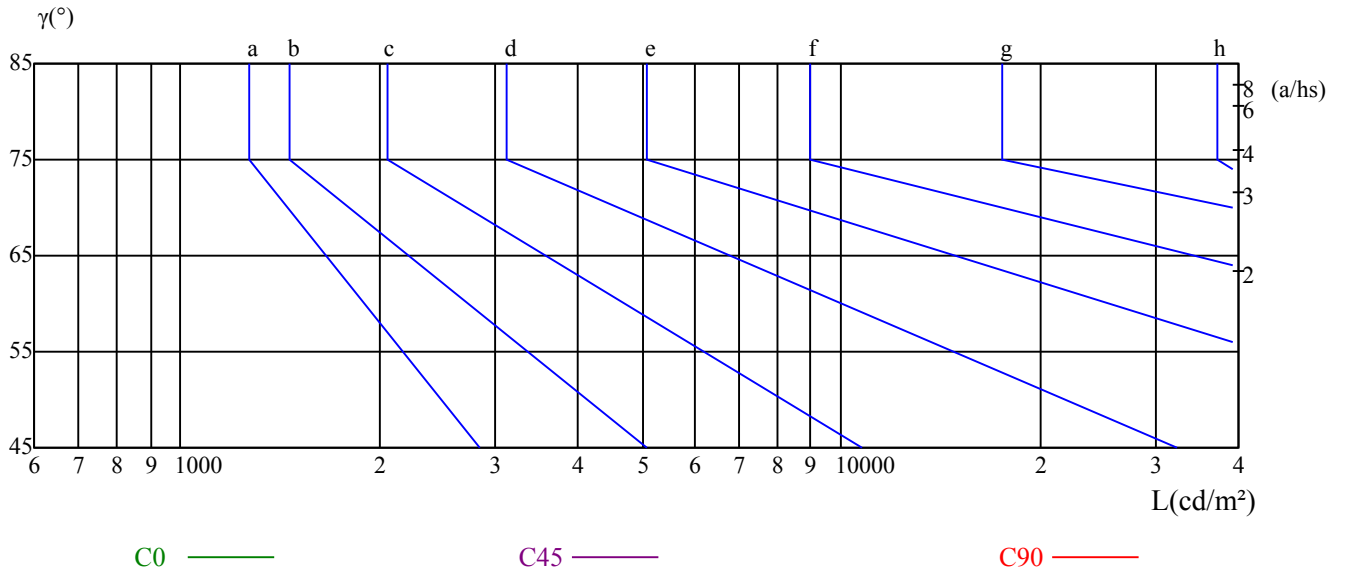
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

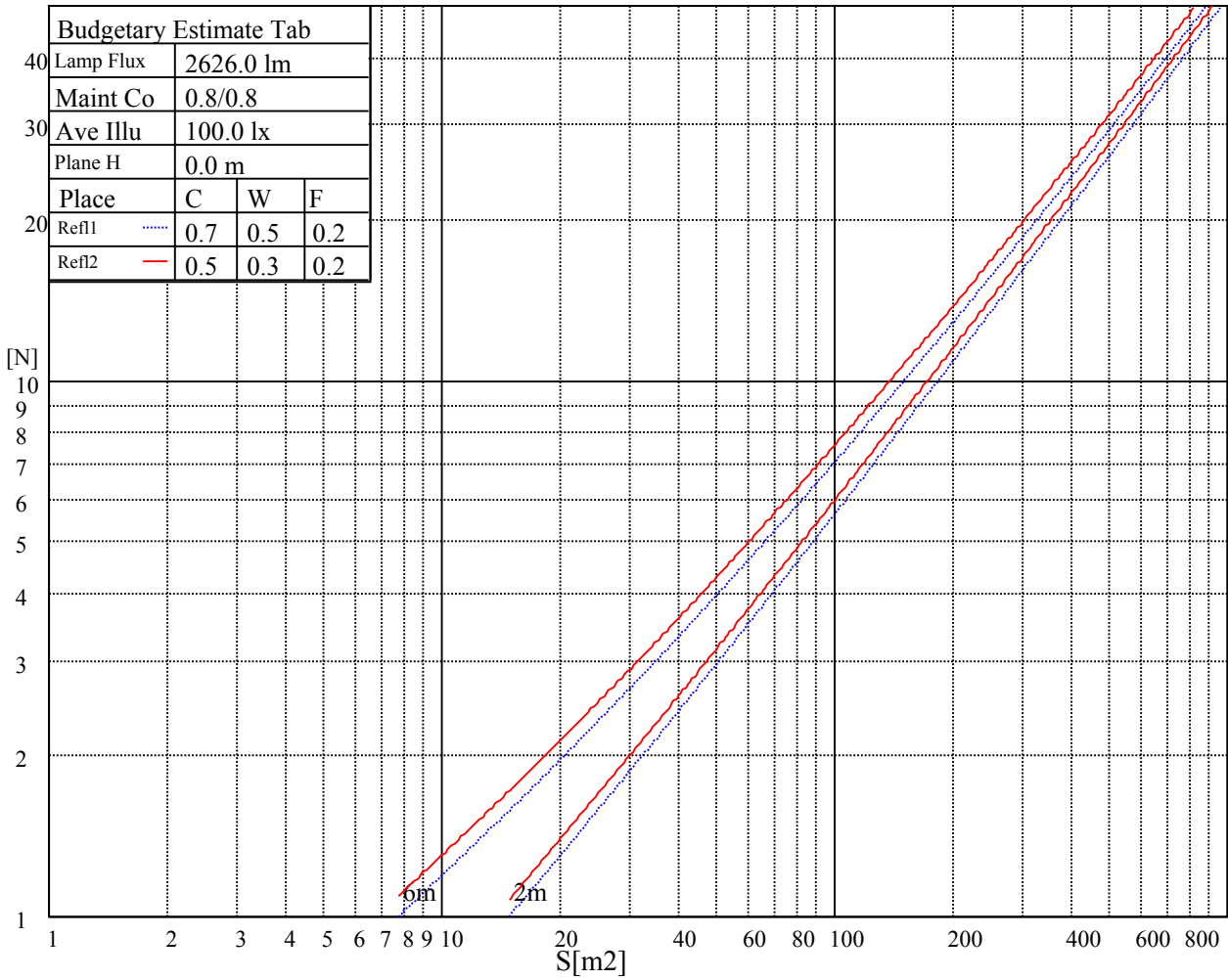
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

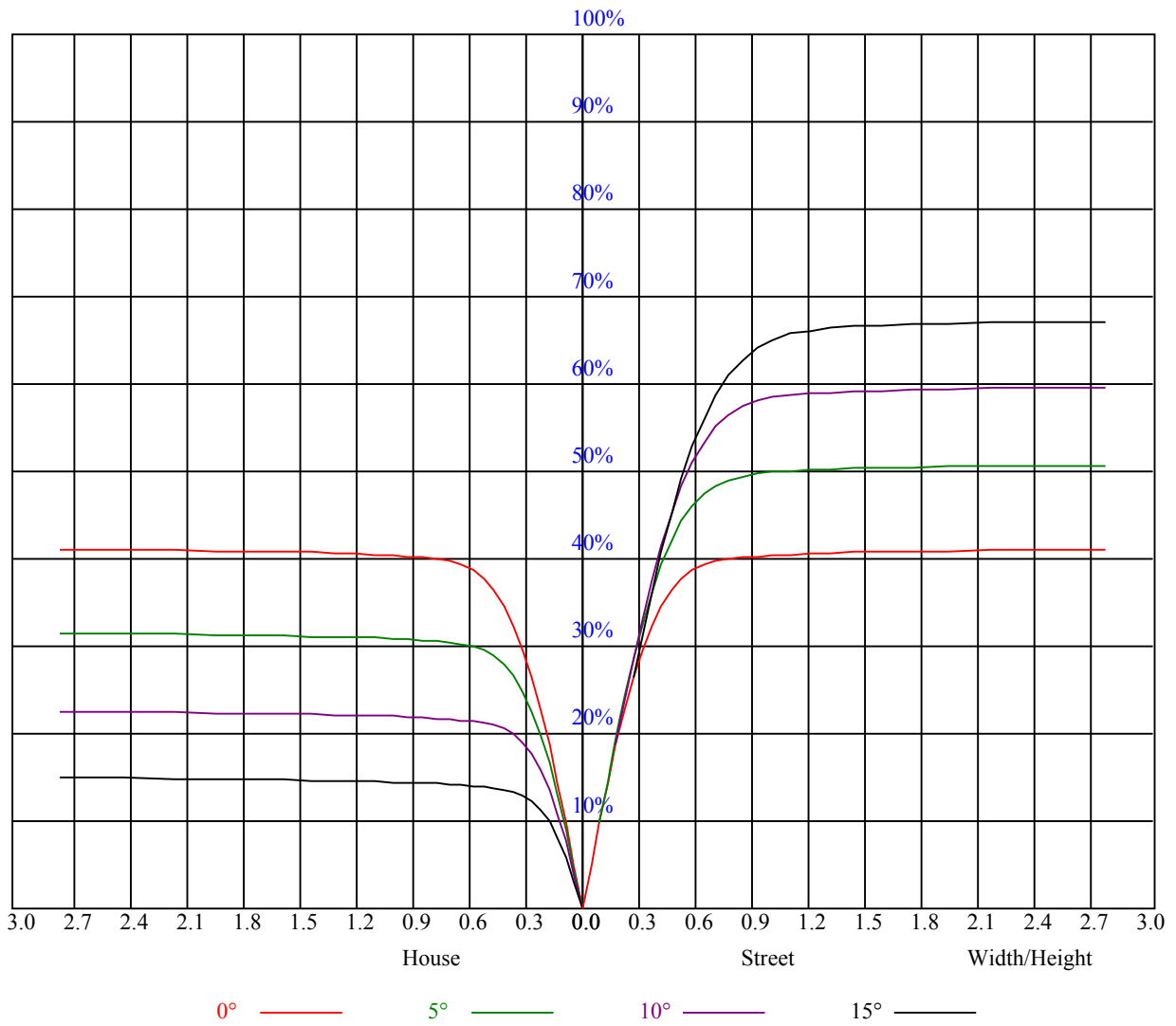


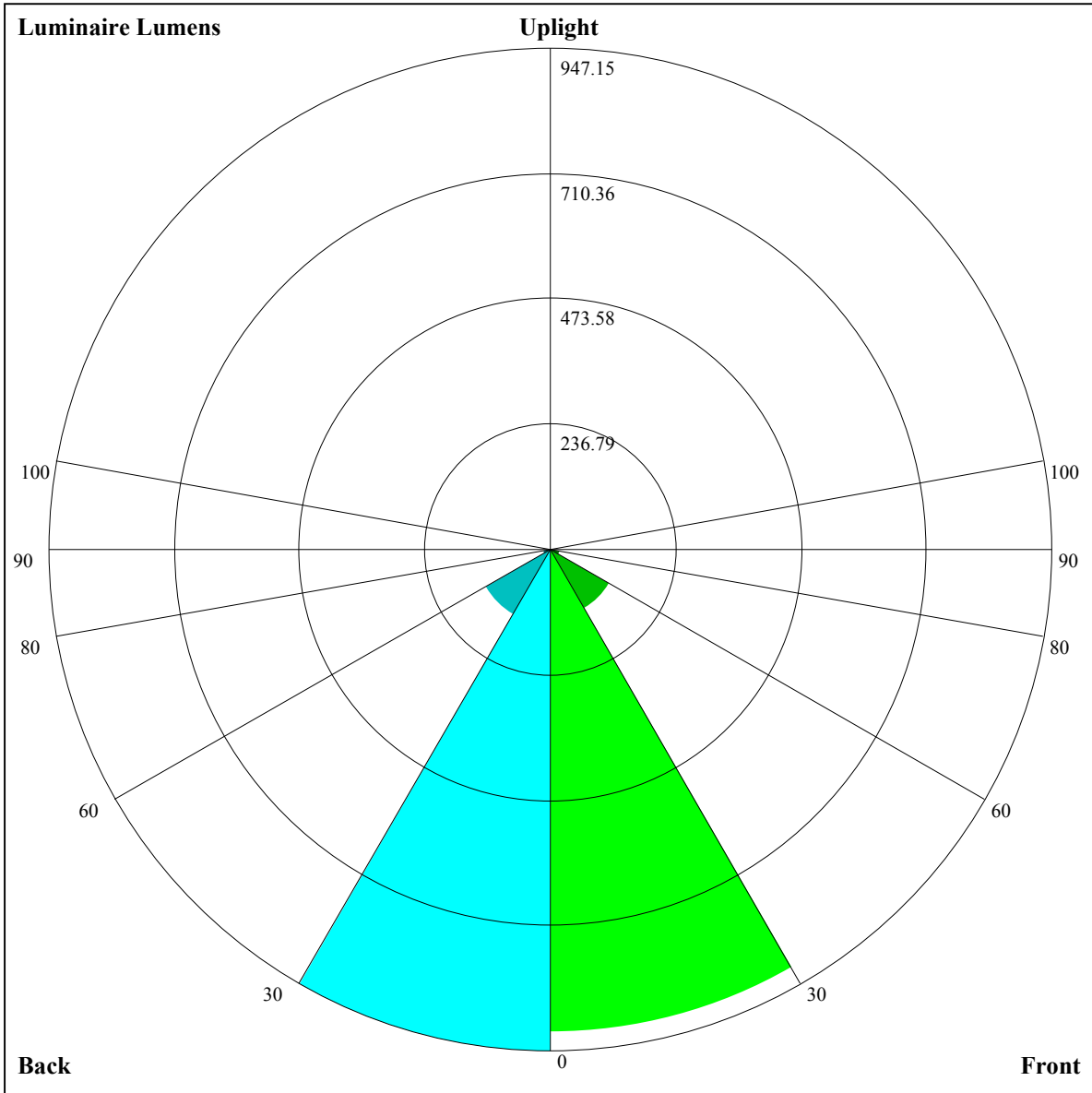
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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 RHOF=20 CU															
0	0.99	0.99	0.99	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.92	0.90	0.88	0.90	0.89	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.73
3	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.69
4	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.69	0.66	0.64	0.68	0.66	0.63	0.62
6	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.66	0.63	0.61	0.65	0.63	0.60	0.59
7	0.66	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56
8	0.63	0.59	0.56	0.63	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.58	0.55	0.52	0.51
10	0.58	0.53	0.51	0.57	0.53	0.51	0.57	0.53	0.50	0.56	0.53	0.50	0.56	0.52	0.50	0.49





Luminaire Lumens:

FL=911.04,FM=128.57,FH=17.04,FVH=5.89

BL=947.15,BM=142.75,BH=15.89,BVH=5.91

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	4099.56	4090.20	4065.62	4030.50	3983.69	3908.19	3834.45	3753.11	3638.40
45.0	4103.66	4104.24	4099.56	4083.17	4056.84	4017.63	3962.62	3882.44	3807.53
90.0	4103.07	4096.63	4084.93	4062.69	4026.41	3976.08	3901.75	3826.84	3746.67
135.0	4095.46	4096.05	4094.29	4074.98	4055.67	4022.31	3976.08	3903.51	3835.62
180.0	4099.56	4103.66	4103.07	4098.97	4090.78	4070.88	4042.79	4003.00	3946.82
225.0	4103.66	4098.39	4089.61	4076.15	4044.55	4008.26	3956.76	3883.61	3808.70
270.0	4103.07	4101.32	4096.63	4082.59	4066.20	4041.04	3993.63	3938.04	3850.25
315.0	4095.46	4090.20	4082.00	4060.93	4035.18	3998.32	3931.60	3866.05	3789.98
360.0	4099.56	4090.20	4065.62	4030.50	3983.69	3908.19	3834.45	3753.11	3638.40
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3538.91	3424.80	3305.41	3146.81	3023.92	2899.26	2774.03	2617.77	2489.02
45.0	3722.09	3602.12	3498.53	3379.73	3225.82	3098.82	2971.25	2814.99	2689.75
90.0	3627.28	3520.77	3403.73	3250.40	3119.89	2960.71	2833.13	2708.48	2586.75
135.0	3752.52	3656.54	3521.94	3403.14	3274.39	3140.96	2971.83	2843.67	2689.17
180.0	3869.57	3799.92	3711.56	3584.56	3471.03	3341.69	3179.00	3042.06	2908.63
225.0	3729.11	3604.46	3494.44	3376.81	3254.49	3091.22	2961.30	2831.96	2706.72
270.0	3769.49	3685.81	3588.07	3458.15	3338.77	3215.28	3091.22	2932.04	2806.21
315.0	3703.95	3581.05	3473.37	3356.91	3237.52	3080.10	2953.10	2827.28	2672.78
360.0	3538.91	3424.80	3305.41	3146.81	3023.92	2899.26	2774.03	2617.77	2489.02
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2354.42	2183.53	2047.76	1876.29	1738.76	1597.72	1456.68	1133.76	1133.76
45.0	2565.10	2436.35	2267.81	2132.03	1996.85	1859.90	1688.43	1543.88	1399.33
90.0	2419.96	2281.85	2143.74	1999.77	1861.07	1685.51	1545.64	1150.84	1150.84
135.0	2563.34	2426.99	2249.08	2108.62	1972.27	1830.64	1658.00	1515.21	1374.17
180.0	2750.03	2618.36	2482.58	2341.54	2167.15	2027.86	1887.99	1750.47	1576.07
225.0	2548.13	2409.43	2270.73	2098.09	1958.22	1787.34	1650.39	1511.69	1161.91
270.0	2685.07	2555.15	2383.09	2245.57	2074.68	1937.74	1798.45	1625.81	1488.29
315.0	2548.13	2383.09	2246.15	2110.38	1977.53	1809.57	1676.73	1539.20	1150.44
360.0	2354.42	2183.53	2047.76	1876.29	1738.76	1597.72	1456.68	1133.76	1133.76
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	989.62	856.48	706.54	597.69	497.03	405.68	310.40	248.95	187.68
45.0	1219.67	1077.46	937.59	771.97	654.34	544.32	422.59	341.24	305.55
90.0	1079.10	906.81	776.42	658.96	523.37	426.51	342.71	274.70	207.87
135.0	1231.96	1050.54	907.16	774.31	628.00	522.08	424.93	324.86	307.30
180.0	1442.05	1302.18	1123.69	993.77	856.24	694.72	590.55	457.70	372.26
225.0	1161.91	1060.84	923.66	790.58	642.28	536.48	438.68	354.47	270.26
270.0	1351.93	1209.72	1035.91	904.82	766.70	653.17	520.91	426.69	345.34
315.0	1150.44	1082.02	943.15	776.89	660.02	551.57	429.56	347.33	280.62
360.0	989.62	856.48	706.54	597.69	497.03	405.68	310.40	248.95	187.68
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	149.58	119.27	91.59	76.43	65.78	58.52	52.32	48.69	45.76
45.0	305.55	160.35	127.29	103.18	85.15	70.11	61.92	55.83	50.27
90.0	166.03	131.68	105.87	83.16	70.87	61.92	54.43	49.92	46.41
135.0	307.30	153.97	123.83	101.36	84.74	69.88	60.80	54.48	49.86
180.0	302.03	302.03	226.77	142.56	114.59	93.99	78.30	65.49	58.46
225.0	216.53	174.10	132.32	107.97	85.79	73.15	64.14	55.89	51.27
270.0	310.23	310.23	167.08	126.76	102.65	84.62	68.94	60.69	54.95
315.0	213.20	169.89	135.48	109.03	85.15	71.87	62.68	56.30	50.45
360.0	149.58	119.27	91.59	76.43	65.78	58.52	52.32	48.69	45.76

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	43.25	40.56	38.62	36.87	34.88	33.36	31.89	30.20	28.85
45.0	46.94	44.30	41.43	39.44	37.04	35.35	33.77	32.30	30.55
90.0	43.01	40.85	38.45	36.58	34.94	33.42	32.01	30.31	29.03
135.0	45.82	43.25	41.08	38.62	36.75	35.00	33.18	31.72	29.96
180.0	52.96	48.05	45.24	42.78	40.26	38.27	36.17	34.59	33.01
225.0	47.70	44.89	41.90	39.80	37.81	36.05	34.00	32.48	31.02
270.0	50.62	46.47	43.83	41.55	39.44	37.10	35.41	33.83	31.89
315.0	46.99	44.18	41.20	39.09	37.22	35.17	33.59	31.72	30.26
360.0	43.25	40.56	38.62	36.87	34.88	33.36	31.89	30.20	28.85
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.33	26.10	24.93	23.88	22.53	21.59	20.54	19.61	18.43
45.0	29.20	27.97	26.80	25.34	24.29	23.23	21.89	20.72	19.78
90.0	27.74	26.57	25.11	24.05	23.06	21.77	20.72	19.37	18.43
135.0	28.73	27.51	26.28	24.81	23.76	22.71	21.65	20.25	19.25
180.0	31.54	29.73	28.38	27.10	25.98	24.52	23.47	22.41	21.07
225.0	29.26	28.03	26.57	25.46	24.35	23.29	21.89	20.78	19.72
270.0	30.37	29.09	27.45	26.34	24.93	23.82	22.82	21.71	20.42
315.0	28.97	27.62	26.16	25.11	23.99	23.00	21.71	20.66	19.66
360.0	27.33	26.10	24.93	23.88	22.53	21.59	20.54	19.61	18.43
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.50	16.97	16.50	16.21	16.15	16.27	16.56	17.44	18.49
45.0	18.55	17.62	16.97	17.09	17.67	18.49	19.25	19.49	19.08
90.0	17.38	16.33	15.74	15.27	14.92	14.57	14.28	14.05	13.87
135.0	18.20	17.21	16.15	15.57	15.10	14.75	14.46	14.16	13.93
180.0	20.01	19.02	17.79	16.85	16.15	15.57	15.22	14.92	14.69
225.0	18.73	17.50	16.62	15.98	15.57	15.51	15.86	16.09	15.80
270.0	19.43	18.43	17.44	16.44	15.86	15.45	15.04	14.69	14.46
315.0	18.73	17.50	16.74	16.09	15.68	15.39	15.16	15.04	15.51
360.0	17.50	16.97	16.50	16.21	16.15	16.27	16.56	17.44	18.49
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.90	19.14	18.67	18.61	18.20	17.09	16.21	14.46	12.82
45.0	19.31	20.07	19.84	18.26	17.79	17.62	16.56	15.92	14.05
90.0	13.58	13.46	13.28	13.11	12.99	12.93	12.70	12.52	12.41
135.0	13.75	13.52	13.34	13.17	12.99	12.87	12.70	12.58	12.47
180.0	14.75	14.92	14.75	14.51	14.10	13.75	13.52	13.17	12.93
225.0	15.74	15.68	15.10	14.34	13.81	13.23	12.99	12.82	12.70
270.0	14.16	13.93	13.69	13.52	13.34	13.23	13.11	12.93	12.87
315.0	16.27	17.21	17.44	17.44	17.50	17.32	16.91	15.98	15.16
360.0	18.90	19.14	18.67	18.61	18.20	17.09	16.21	14.46	12.82
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.23	11.76	11.12	10.59	9.95	9.60	9.31	9.13	9.25
45.0	12.70	12.11	11.59	11.18	10.53	9.89	9.60	9.42	9.13
90.0	12.23	11.88	11.35	10.71	10.12	9.77	9.48	9.25	9.13
135.0	12.35	12.11	11.65	11.18	10.48	10.01	9.71	9.48	9.13
180.0	12.70	12.58	12.29	12.00	11.41	10.77	10.07	9.77	9.54
225.0	12.52	12.17	11.76	11.29	10.71	9.89	9.54	9.42	9.13
270.0	12.76	12.58	12.29	11.76	11.12	10.48	9.71	9.54	9.36
315.0	13.64	12.35	12.06	11.47	10.77	10.36	9.71	9.48	9.19
360.0	12.23	11.76	11.12	10.59	9.95	9.60	9.31	9.13	9.25

Intensity data(cd)

C/γ(°)	90.0
0.0	9.19
45.0	9.19
90.0	9.19
135.0	9.25
180.0	9.25
225.0	9.13
270.0	9.13
315.0	9.19
360.0	9.19