



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: 1-1207-L

Luminaire: 92.70.427.00

Report No: 2024724-B003

Ballast type: AC

Test No: 2024724-C003

Voltage(V): 36.190

LampCAT: P2121-018-1203-P3090-1

Current(A): 0.360

Lamp flux(lm): 2004.0

Power (W): 13.028

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1826.48, Efficiency(%): 91.14% , Luminous Efficacy(lm/W): 140.20

Central intensity(cd): 5987.935, Maximum intensity(cd): 5987.935

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=27.4

[C90/270]Total=27.4

Field angle(10%Imax): [C0/180]Total=58.0

[C90/270]Total=58.0

Maximum s/h(1/2): C0_180=0.46 C90_270=0.46

Maximum s/h(1/4): C0_180=0.46 C90_270=0.46

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.14%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.920%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/24
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	5987.934	0.000	0	0.00%	0.00%
1.0	5960.136	5.717	5.717	0.29%	0.31%
2.0	5905.052	17.030	22.747	0.85%	1.25%
3.0	5810.538	28.020	50.767	1.40%	2.78%
4.0	5692.103	38.503	89.27	1.92%	4.89%
5.0	5523.193	48.248	137.517	2.41%	7.53%
6.0	5320.924	56.989	194.506	2.84%	10.65%
7.0	5087.127	64.603	259.109	3.22%	14.19%
8.0	4836.724	71.023	330.132	3.54%	18.07%
9.0	4543.087	76.018	406.15	3.79%	22.24%
10.0	4252.742	79.599	485.749	3.97%	26.59%
11.0	3930.064	81.763	567.512	4.08%	31.07%
12.0	3591.584	82.222	649.735	4.10%	35.57%
13.0	3242.351	81.102	730.836	4.05%	40.01%
14.0	2879.585	78.360	809.196	3.91%	44.30%
15.0	2552.225	74.570	883.767	3.72%	48.39%
16.0	2248.786	70.348	954.115	3.51%	52.24%
17.0	1959.758	65.538	1019.653	3.27%	55.83%
18.0	1732.398	60.876	1080.529	3.04%	59.16%
19.0	1475.952	55.819	1136.348	2.79%	62.22%
20.0	1308.161	50.957	1187.305	2.54%	65.00%
21.0	1220.867	48.562	1235.867	2.42%	67.66%
22.0	1123.376	47.109	1282.976	2.35%	70.24%
23.0	1034.714	45.283	1328.258	2.26%	72.72%
24.0	964.297	43.706	1371.964	2.18%	75.12%
25.0	891.649	42.200	1414.164	2.11%	77.43%
26.0	822.161	40.455	1454.619	2.02%	79.64%
27.0	752.226	38.518	1493.136	1.92%	81.75%
28.0	676.323	36.168	1529.304	1.80%	83.73%
29.0	602.679	33.462	1562.767	1.67%	85.56%
30.0	523.615	30.410	1593.176	1.52%	87.23%
31.0	443.074	26.902	1620.078	1.34%	88.70%
32.0	374.822	23.432	1643.51	1.17%	89.98%
33.0	309.343	20.156	1663.665	1.01%	91.09%
34.0	261.471	17.275	1680.94	0.86%	92.03%
35.0	221.786	15.008	1695.948	0.75%	92.85%
36.0	170.893	12.503	1708.451	0.62%	93.54%
37.0	125.348	9.662	1718.113	0.48%	94.07%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	100.798	7.548	1725.661	0.38%	94.48%
39.0	82.648	6.262	1731.923	0.31%	94.82%
40.0	70.059	5.326	1737.249	0.27%	95.11%
41.0	60.146	4.637	1741.885	0.23%	95.37%
42.0	53.058	4.113	1745.998	0.21%	95.59%
43.0	47.279	3.717	1749.715	0.19%	95.80%
44.0	42.934	3.405	1753.12	0.17%	95.98%
45.0	39.195	3.156	1756.276	0.16%	96.16%
46.0	36.152	2.947	1759.223	0.15%	96.32%
47.0	33.277	2.761	1761.984	0.14%	96.47%
48.0	30.739	2.588	1764.572	0.13%	96.61%
49.0	28.698	2.441	1767.013	0.12%	96.74%
50.0	26.811	2.314	1769.327	0.12%	96.87%
51.0	25.245	2.202	1771.529	0.11%	96.99%
52.0	23.958	2.111	1773.641	0.11%	97.11%
53.0	22.838	2.036	1775.676	0.10%	97.22%
54.0	21.880	1.971	1777.647	0.10%	97.33%
55.0	21.039	1.916	1779.563	0.10%	97.43%
56.0	20.285	1.867	1781.431	0.09%	97.53%
57.0	19.620	1.825	1783.255	0.09%	97.63%
58.0	18.954	1.784	1785.039	0.09%	97.73%
59.0	18.318	1.742	1786.781	0.09%	97.83%
60.0	17.784	1.706	1788.487	0.09%	97.92%
61.0	17.206	1.670	1790.157	0.08%	98.01%
62.0	16.737	1.636	1791.792	0.08%	98.10%
63.0	16.291	1.606	1793.399	0.08%	98.19%
64.0	15.830	1.576	1794.975	0.08%	98.27%
65.0	15.384	1.545	1796.52	0.08%	98.36%
66.0	14.952	1.514	1798.033	0.08%	98.44%
67.0	14.521	1.482	1799.515	0.07%	98.52%
68.0	14.067	1.448	1800.963	0.07%	98.60%
69.0	13.716	1.417	1802.381	0.07%	98.68%
70.0	13.394	1.392	1803.773	0.07%	98.76%
71.0	13.087	1.369	1805.142	0.07%	98.83%
72.0	12.787	1.345	1806.487	0.07%	98.91%
73.0	12.502	1.322	1807.81	0.07%	98.98%
74.0	12.173	1.297	1809.107	0.06%	99.05%
75.0	11.887	1.271	1810.378	0.06%	99.12%

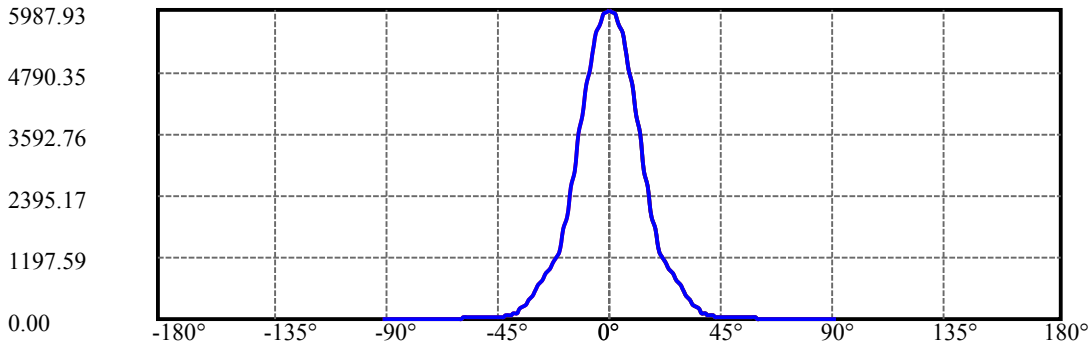
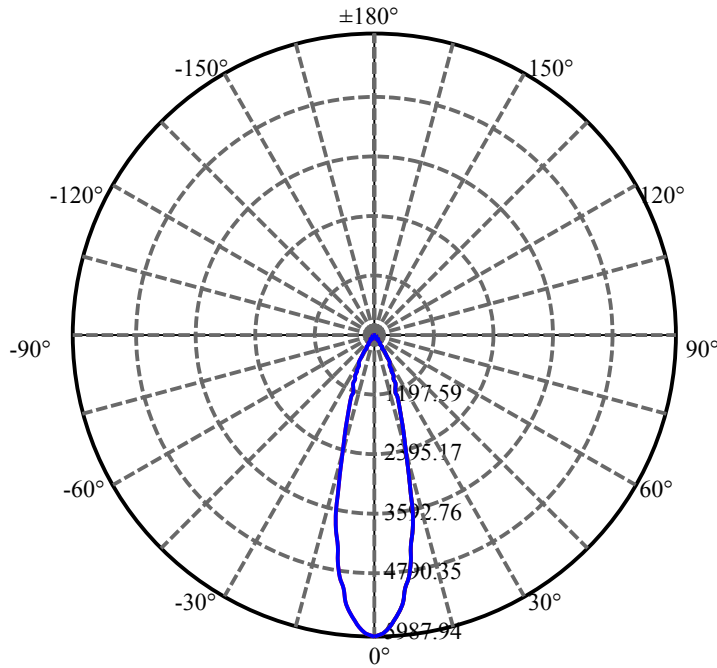
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.551	1.244	1811.622	0.06%	99.19%
77.0	11.288	1.218	1812.84	0.06%	99.25%
78.0	11.017	1.194	1814.034	0.06%	99.32%
79.0	10.754	1.170	1815.204	0.06%	99.38%
80.0	10.490	1.145	1816.349	0.06%	99.45%
81.0	10.256	1.122	1817.471	0.06%	99.51%
82.0	10.044	1.101	1818.572	0.05%	99.57%
83.0	9.788	1.078	1819.65	0.05%	99.63%
84.0	9.546	1.053	1820.703	0.05%	99.68%
85.0	9.305	1.029	1821.732	0.05%	99.74%
86.0	9.049	1.003	1822.735	0.05%	99.79%
87.0	8.822	0.978	1823.713	0.05%	99.85%
88.0	8.559	0.952	1824.665	0.05%	99.90%
89.0	8.274	0.923	1825.588	0.05%	99.95%
90.0	8.061	0.896	1826.484	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1593.18	79.50%	87.23%
0-40	1737.25	86.69%	95.11%
0-60	1788.49	89.25%	97.92%
0-90	1825.59	91.10%	99.95%
0-120	1825.59	91.10%	99.95%
0-180	1826.48	91.14%	100.00%
60-90	37.10	1.85%	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%
0-26.17	1461.19	72.91%	80.00%

ZONAL LUMEN SUMMARY

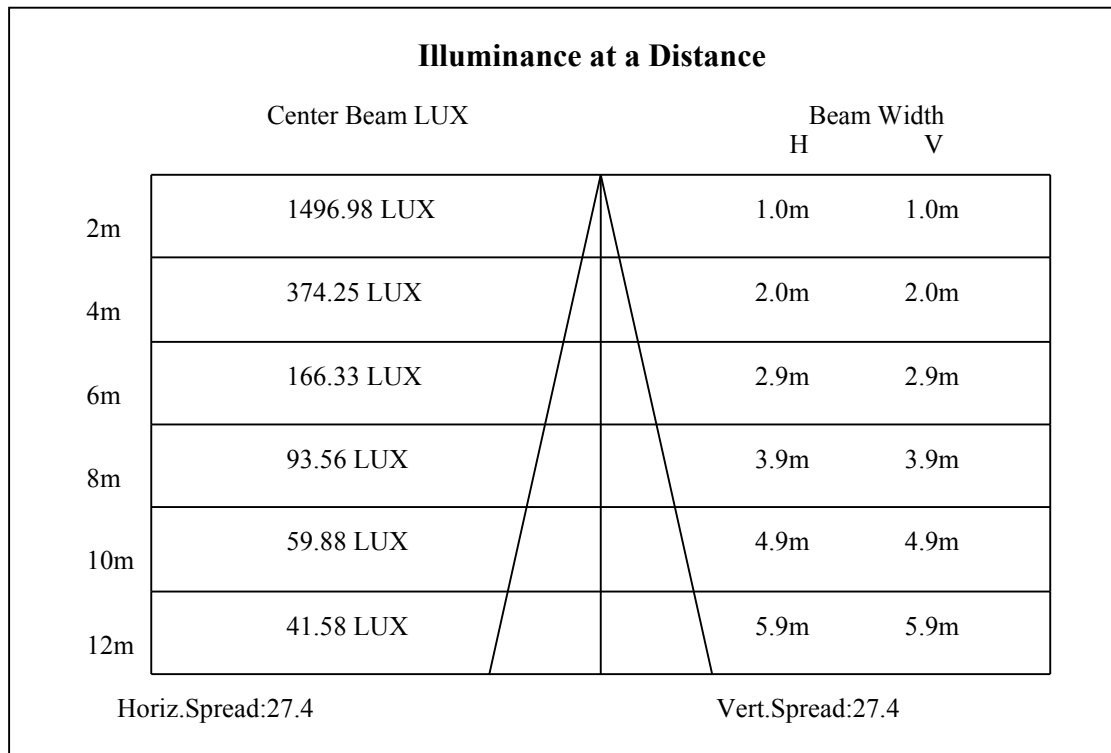
0-10	485.75
10-20	701.56
20-30	405.87
30-40	144.07
40-50	32.08
50-60	19.16
60-70	15.29
70-80	12.58
80-90	9.24
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

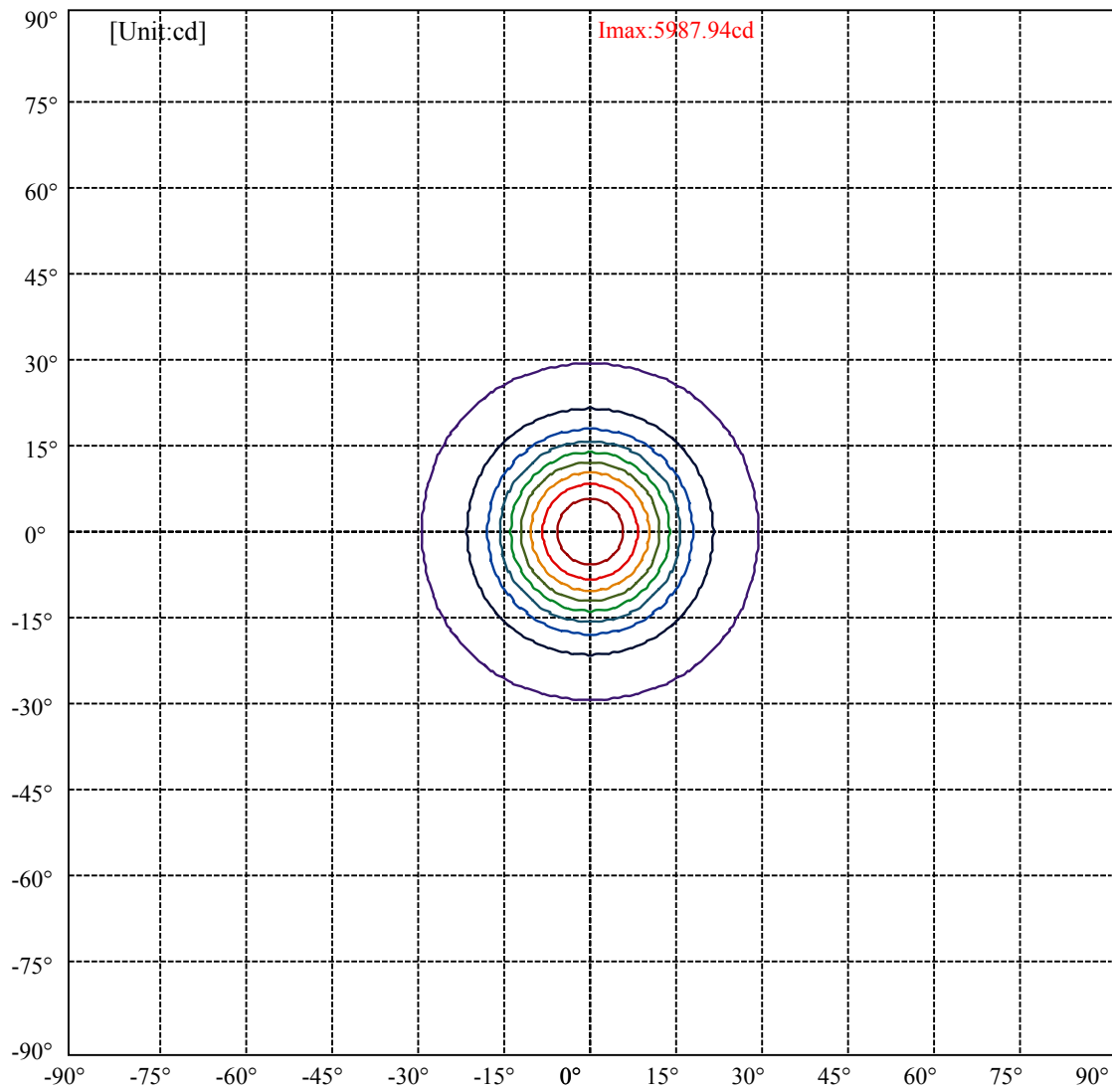


C0(Max): —————
C0/C180: —————
C90/C270: —————

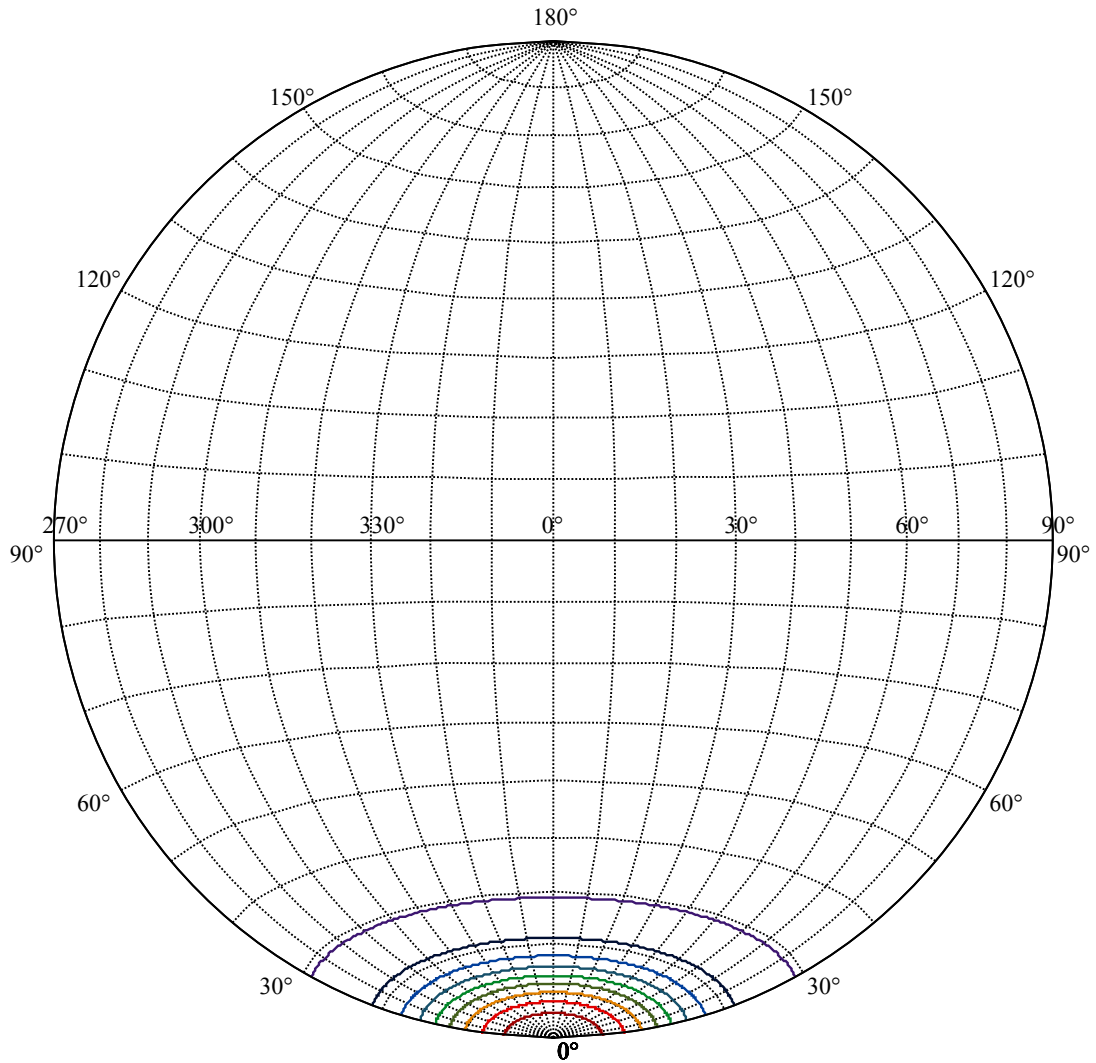
Field angle(10%Imax):C0/180Left:29.0 Right:29.0
:C90/270Left:29.0 Right:29.0

Beam Angle(50%Imax):C0/180Left:13.7 Right:13.7
:C90/270Left:13.7 Right:13.7





(10%Imax) 598.793	—
(20%Imax) 1197.59	—
(30%Imax) 1796.38	—
(40%Imax) 2395.17	—
(50%Imax) 2993.97	—
(60%Imax) 3592.76	—
(70%Imax) 4191.55	—
(80%Imax) 4790.35	—
(90%Imax) 5389.14	—



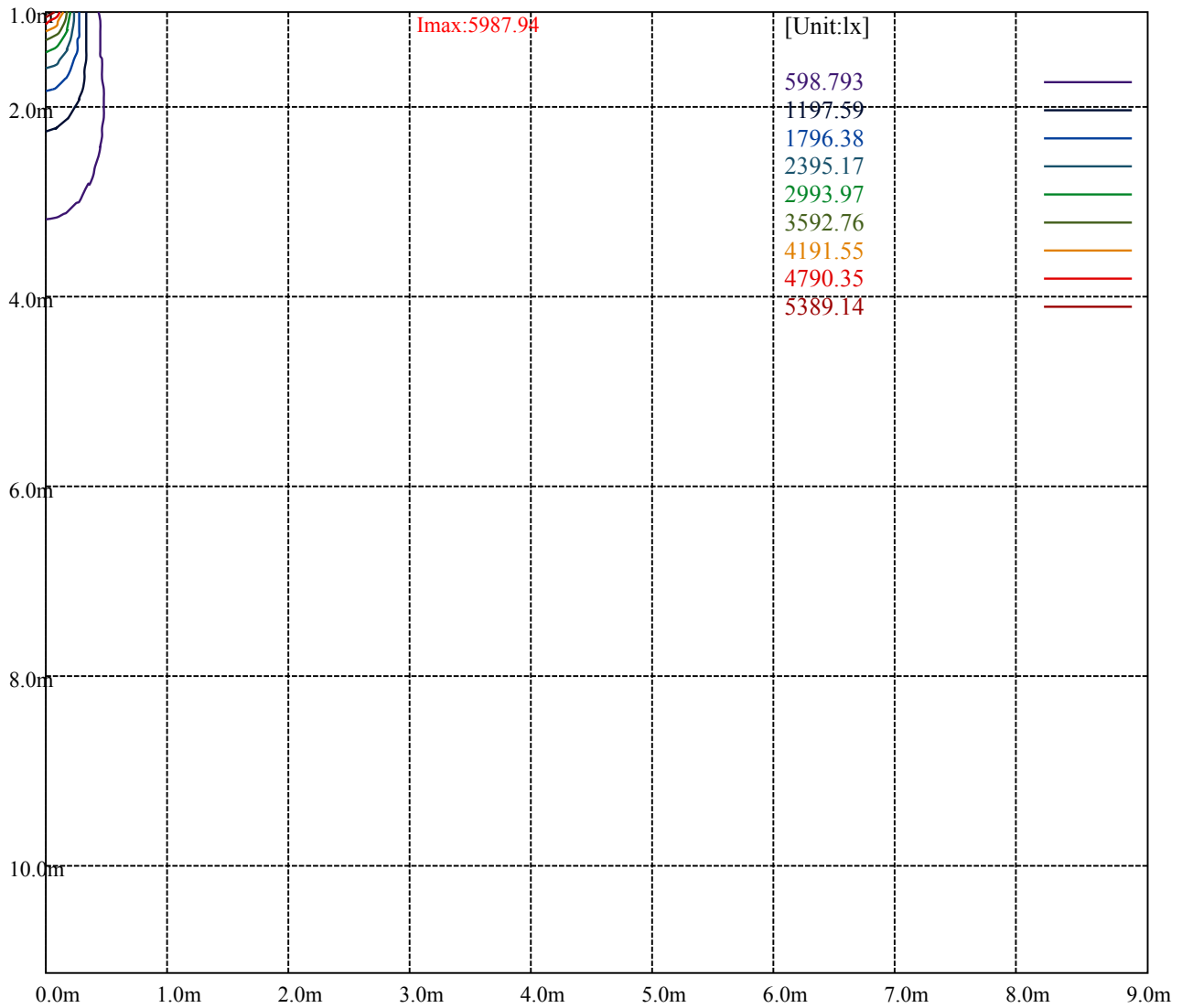
House

[Unit:cd]

Road

Imax:5987.94

(10%Imax) 598.793	—
(20%Imax) 1197.59	—
(30%Imax) 1796.38	—
(40%Imax) 2395.17	—
(50%Imax) 2993.97	—
(60%Imax) 3592.76	—
(70%Imax) 4191.55	—
(80%Imax) 4790.35	—
(90%Imax) 5389.14	—



Luminance Table

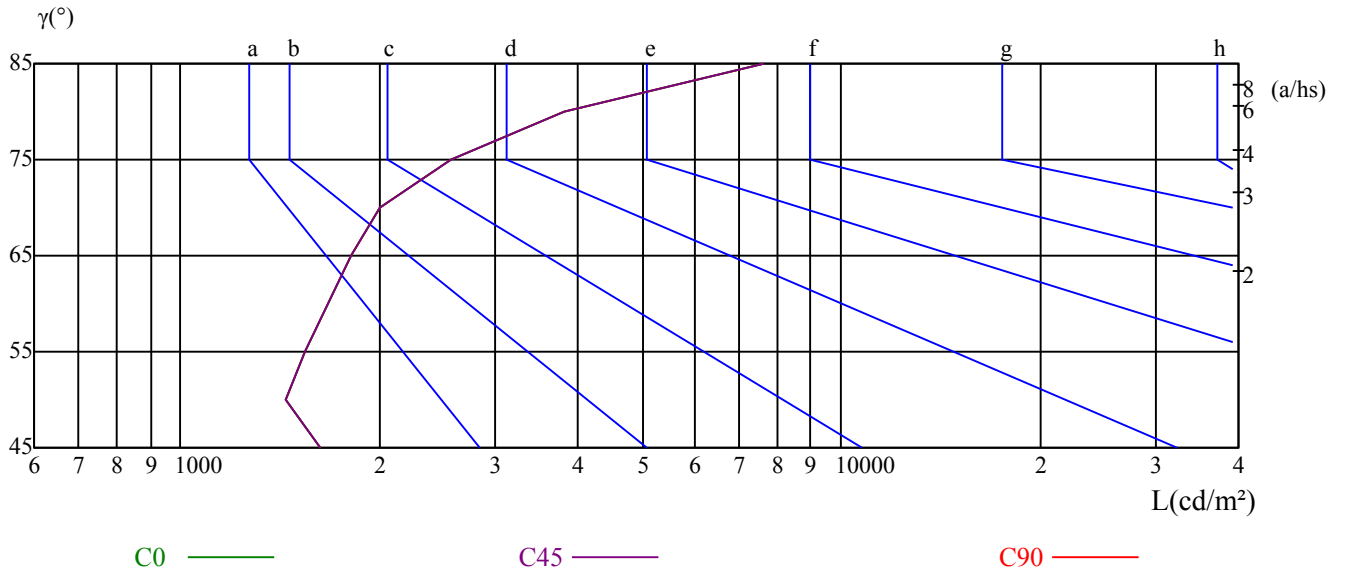
γ	45	50	55	60	65	70	75	80	85
C0	1631	1440	1544	1667	1806	1998	2572	3816	7630
C45	1631	1440	1544	1667	1806	1998	2572	3816	7630
C90	1631	1440	1544	1667	1806	1998	2572	3816	7630

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1806	1806	1806	2572	2572	2572	7630	7630	7630

Glare Table

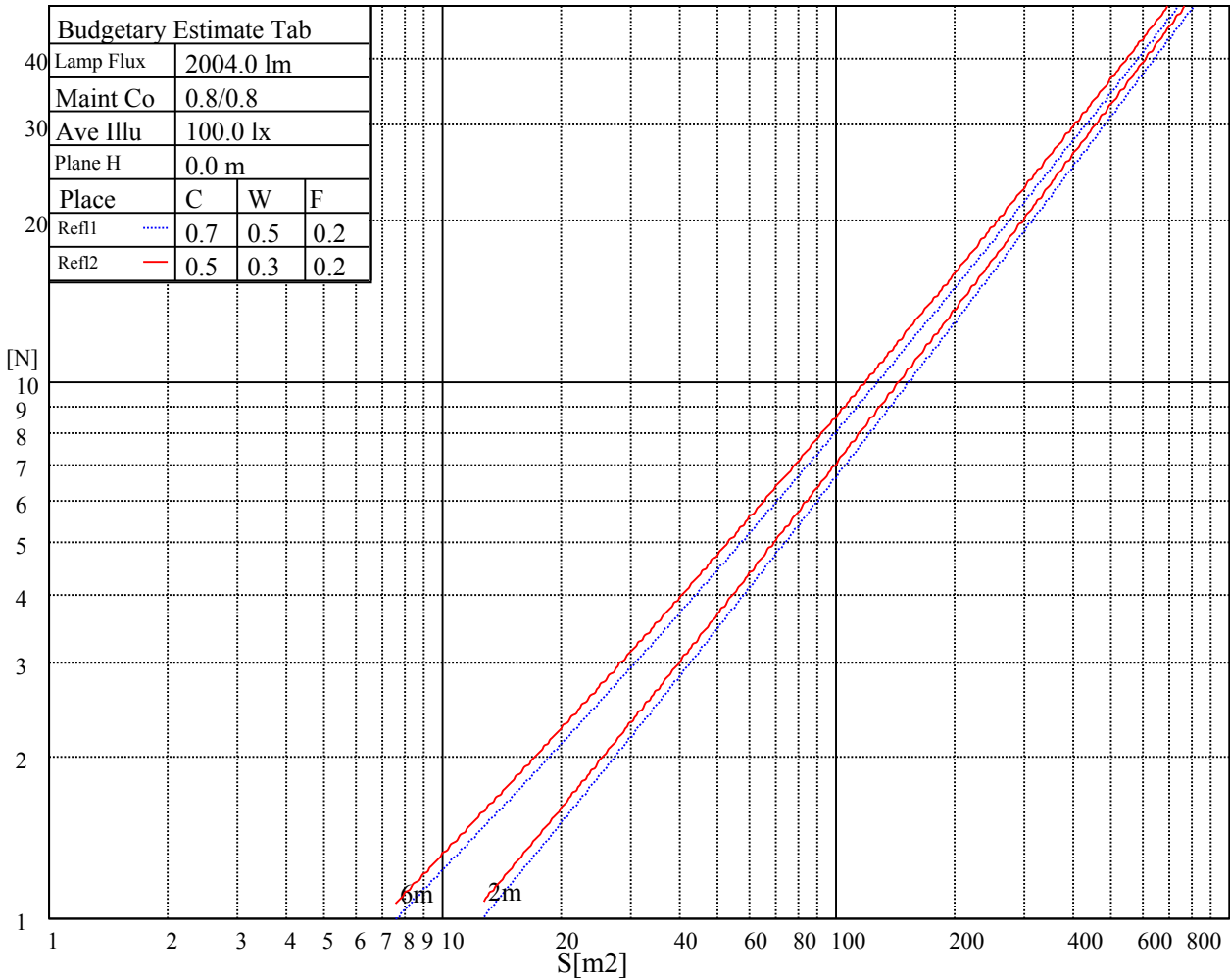
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

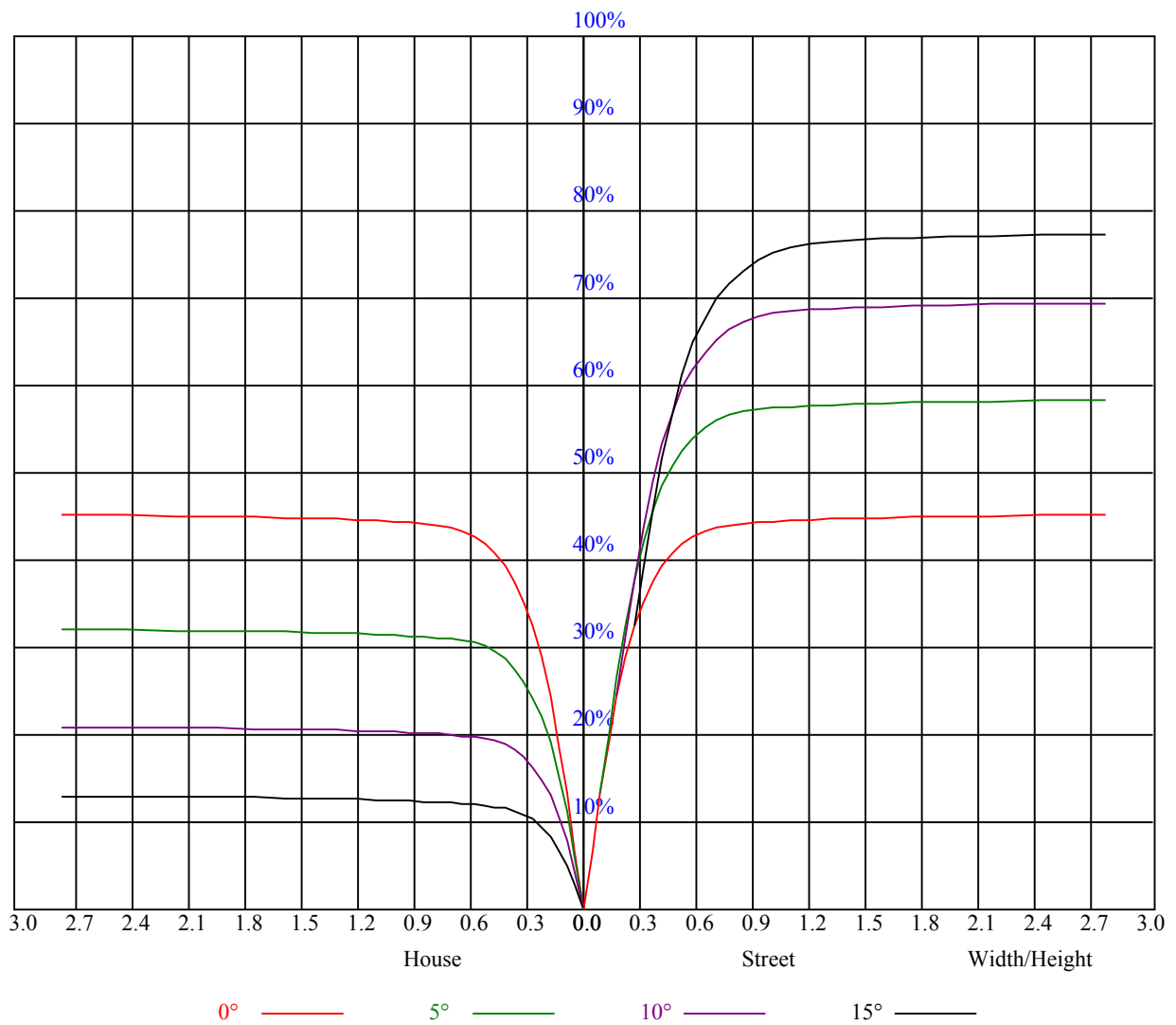


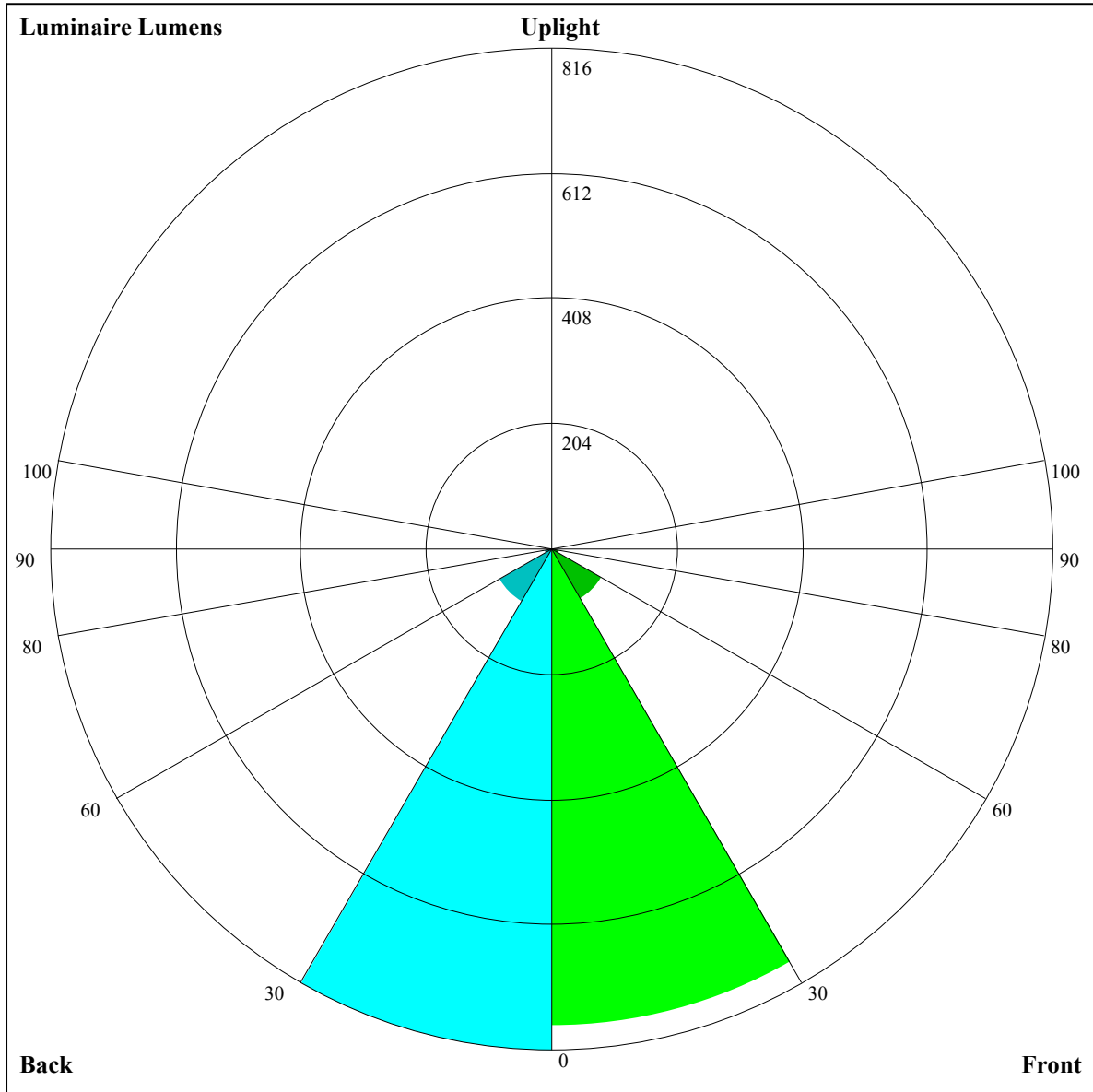
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.93	0.90	0.94	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
8	0.73	0.69	0.66	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.61
10	0.68	0.64	0.61	0.68	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.63	0.60	0.59





Luminaire Lumens:

FL=778.05,FM=94.69,FH=14.05,FVH=5.06

BL=816,BM=100.87,BH=13.78,BVH=5.04

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	5992.76	5932.48	5841.77	5719.46	5546.82	5289.32	5048.21	4774.91	4498.10
45.0	5981.06	5988.08	5964.09	5890.93	5804.91	5662.11	5482.45	5215.58	4988.52
90.0	5992.76	5971.69	5928.39	5891.52	5763.94	5615.88	5450.84	5257.13	4961.01
135.0	5989.84	5999.79	5979.30	5930.14	5864.01	5766.28	5639.29	5416.90	5201.54
180.0	5992.76	5993.35	5959.40	5849.38	5744.04	5578.42	5401.10	5197.44	4948.14
225.0	5981.06	5903.22	5825.39	5700.15	5569.64	5397.59	5125.46	4877.91	4630.36
270.0	5992.76	5985.74	5927.22	5843.53	5744.63	5571.99	5414.56	5219.10	4998.47
315.0	5980.47	5906.73	5814.85	5659.18	5498.83	5303.95	5005.49	4738.04	4467.67
360.0	5992.76	5932.48	5841.77	5719.46	5546.82	5289.32	5048.21	4774.91	4498.10
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4145.79	3850.84	3532.48	3214.11	2831.38	2527.06	2181.19	1933.64	1722.38
45.0	4733.36	4454.21	4093.12	3763.06	3445.28	3050.84	2724.28	2418.79	2091.07
90.0	4689.47	4399.78	4084.93	3654.20	3293.70	2950.18	2535.84	2235.62	1976.36
135.0	4962.77	4705.85	4416.75	4043.38	3725.02	3298.39	2976.51	2648.20	2283.61
180.0	4619.82	4340.09	4043.38	3725.60	3330.57	3001.68	2696.78	2362.61	2084.04
225.0	4343.60	4069.71	3677.61	3358.08	3031.52	2649.37	2352.08	2070.58	1768.61
270.0	4677.18	4401.54	4093.12	3774.76	3380.90	3032.69	2689.17	2318.13	2033.72
315.0	4172.71	3799.92	3499.12	3199.48	2900.43	2526.47	2261.95	2002.70	1718.28
360.0	4145.79	3850.84	3532.48	3214.11	2831.38	2527.06	2181.19	1933.64	1722.38
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1509.94	1292.82	1161.50	1161.50	1065.52	999.39	938.70	863.27	800.70
45.0	1847.61	1636.35	1429.18	1294.58	1183.38	1075.12	994.94	928.23	863.27
90.0	1737.59	1485.94	1153.48	1153.48	1104.96	998.98	933.38	857.82	792.69
135.0	2029.62	1808.40	1615.86	1411.04	1278.19	1175.19	1086.24	989.09	922.96
180.0	1851.13	1608.84	1455.51	1296.33	1193.33	1116.08	1038.25	966.85	883.75
225.0	1567.29	1299.84	1151.66	1128.43	1044.28	961.00	899.02	833.24	766.00
270.0	1792.60	1527.50	1350.17	1214.40	1089.75	1010.16	945.20	874.97	792.45
315.0	1523.40	1147.92	1147.92	1107.19	1027.60	941.80	878.66	819.72	755.47
360.0	1509.94	1292.82	1161.50	1161.50	1065.52	999.39	938.70	863.27	800.70
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	732.53	658.90	569.95	492.64	423.53	344.99	289.22	237.43	182.24
45.0	801.82	717.54	649.07	565.97	496.33	426.69	346.51	302.03	302.03
90.0	722.05	629.06	558.30	487.90	400.94	335.10	278.10	228.47	174.98
135.0	855.07	766.12	691.79	619.23	527.35	454.78	370.51	310.23	296.18
180.0	818.79	759.68	690.04	599.91	521.49	448.93	366.41	307.89	307.89
225.0	690.68	619.93	548.00	475.90	390.17	328.14	274.29	213.02	171.88
270.0	728.66	662.53	591.14	499.84	423.18	357.05	299.69	299.69	183.53
315.0	668.21	596.81	523.13	447.52	361.61	302.91	250.01	193.01	155.55
360.0	732.53	658.90	569.95	492.64	423.53	344.99	289.22	237.43	182.24
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	146.60	118.98	92.99	77.83	67.13	59.05	51.50	47.23	43.54
45.0	188.91	142.79	113.94	91.53	75.49	62.44	54.78	48.63	44.01
90.0	140.86	114.24	93.99	75.67	65.31	57.24	49.74	45.24	40.67
135.0	296.18	156.43	125.82	102.00	84.04	68.18	59.17	51.97	46.82
180.0	193.59	155.26	119.33	97.44	80.76	67.71	58.99	50.62	45.82
225.0	136.65	102.94	83.75	69.82	57.94	51.09	45.76	41.67	37.51
270.0	139.17	114.76	94.40	78.19	68.94	60.92	55.07	48.63	44.59
315.0	125.18	97.38	82.17	68.71	60.86	54.54	49.45	44.24	40.50
360.0	146.60	118.98	92.99	77.83	67.13	59.05	51.50	47.23	43.54

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	40.15	36.87	34.70	32.19	30.49	28.91	27.27	26.34	25.40
45.0	39.80	36.69	33.53	31.60	29.73	27.80	26.51	25.63	24.64
90.0	37.57	34.88	32.77	30.26	28.56	27.15	25.98	25.11	24.29
135.0	41.43	38.04	35.05	31.78	29.61	27.27	25.75	24.35	23.29
180.0	41.79	38.45	34.70	32.13	29.26	27.33	25.63	23.70	22.47
225.0	34.53	31.84	29.55	26.92	25.16	23.53	21.83	20.66	19.43
270.0	40.97	37.86	34.41	31.84	29.38	26.92	25.22	23.35	22.00
315.0	37.34	34.59	31.49	29.20	27.39	25.57	23.76	22.53	21.19
360.0	40.15	36.87	34.70	32.19	30.49	28.91	27.27	26.34	25.40
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.64	23.70	22.82	21.83	20.95	20.01	19.31	18.73	18.14
45.0	23.70	23.29	22.71	22.30	21.77	21.13	20.48	19.55	18.79
90.0	23.41	22.59	21.95	21.07	20.19	19.55	19.02	18.08	17.50
135.0	21.95	21.07	20.31	19.66	18.90	18.38	17.85	17.26	16.80
180.0	21.36	20.25	19.43	18.79	18.20	17.56	17.09	16.68	16.33
225.0	18.67	17.97	17.26	16.80	16.33	15.92	15.51	15.22	14.92
270.0	21.01	20.01	19.37	18.61	17.97	17.21	16.74	16.27	15.86
315.0	20.31	19.43	18.43	17.91	17.32	16.80	16.27	15.86	15.57
360.0	24.64	23.70	22.82	21.83	20.95	20.01	19.31	18.73	18.14
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.67	17.21	16.44	15.86	15.22	14.57	14.16	13.87	13.52
45.0	18.02	17.21	16.56	15.74	15.22	14.57	14.05	13.52	13.17
90.0	16.91	16.33	15.74	15.27	14.81	14.16	13.75	13.46	13.17
135.0	16.44	15.92	15.51	15.16	14.75	14.40	14.10	13.75	13.46
180.0	15.98	15.63	15.33	14.98	14.69	14.22	13.93	13.69	13.34
225.0	14.63	14.40	14.16	13.93	13.58	13.28	12.99	12.70	12.47
270.0	15.45	15.10	14.75	14.34	13.99	13.64	13.40	13.11	12.82
315.0	15.22	14.86	14.57	14.34	13.93	13.69	13.34	13.05	12.76
360.0	17.67	17.21	16.44	15.86	15.22	14.57	14.16	13.87	13.52
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.17	12.87	12.52	12.29	11.94	11.70	11.41	11.18	10.94
45.0	12.87	12.58	12.17	11.94	11.59	11.35	11.00	10.77	10.48
90.0	12.76	12.47	12.06	11.76	11.47	11.12	10.89	10.59	10.36
135.0	13.23	12.99	12.64	12.35	12.00	11.76	11.47	11.18	10.89
180.0	13.05	12.76	12.47	12.11	11.82	11.59	11.29	11.00	10.77
225.0	12.17	11.88	11.65	11.35	11.06	10.77	10.53	10.24	10.01
270.0	12.52	12.29	12.00	11.70	11.29	11.00	10.77	10.53	10.24
315.0	12.52	12.17	11.88	11.59	11.24	11.00	10.77	10.53	10.24
360.0	13.17	12.87	12.52	12.29	11.94	11.70	11.41	11.18	10.94
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.77	10.59	10.30	10.07	9.77	9.48	9.31	8.90	8.19
45.0	10.24	10.07	9.77	9.54	9.31	9.07	8.84	8.60	8.37
90.0	10.12	9.89	9.66	9.36	9.19	8.95	8.72	8.43	8.25
135.0	10.59	10.42	10.12	9.89	9.60	9.36	9.07	8.84	8.60
180.0	10.48	10.24	10.01	9.71	9.42	9.19	8.95	8.72	8.54
225.0	9.77	9.54	9.31	9.07	8.90	8.60	8.43	8.25	7.96
270.0	10.01	9.77	9.54	9.31	9.07	8.78	8.54	8.37	8.19
315.0	10.07	9.83	9.60	9.42	9.19	8.95	8.72	8.37	8.08
360.0	10.77	10.59	10.30	10.07	9.77	9.48	9.31	8.90	8.19

Intensity data(cd)

<i>C/γ(°)</i>	90.0
0.0	8.08
45.0	8.08
90.0	8.02
135.0	8.31
180.0	8.02
225.0	7.96
270.0	8.02
315.0	8.02
360.0	8.08