



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: NT

LumCAT: 62-0089

Luminaire: 92.70.429.00

Report No: 20241113-B011

Ballast type: AC

Test No: 20241113-C011

Voltage(V): 34.220

LampCAT: CREE CXA1820 LES12

Current(A): 0.361

Lamp flux(lm): 2130.2

Power (W): 12.355

Number of Lamps: 1

PF: 0.000

Length(mm): 62

Width(mm): 62

Phm Type: C

Height(mm): 32

Photometric Results

Lumens(lm): 1999.90, Efficiency(%): 93.88% , Luminous Efficacy(lm/W): 161.87

Central intensity(cd): 2080.533, Maximum intensity(cd): 2098.529

Angle of maximum intensity: C=0.0 γ =6.0

Beam Angle(50%Imax): [C0/180]Total=60.8

[C90/270]Total=60.8

Field angle(10%Imax): [C0/180]Total=74.8

[C90/270]Total=74.8

Maximum s/h(1/2): C0_180=1.01 C90_270=1.01

Maximum s/h(1/4): C0_180=0.88 C90_270=0.88

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.88%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.623%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/13
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	2080.533	0.000	0	0.00%	0.00%
1.0	2081.850	1.992	1.992	0.09%	0.10%
2.0	2083.313	5.978	7.97	0.28%	0.40%
3.0	2087.556	9.975	17.945	0.47%	0.90%
4.0	2091.580	13.989	31.934	0.66%	1.60%
5.0	2095.310	18.012	49.946	0.85%	2.50%
6.0	2098.529	22.040	71.986	1.03%	3.60%
7.0	2097.871	26.047	98.033	1.22%	4.90%
8.0	2096.773	30.020	128.053	1.41%	6.40%
9.0	2094.871	33.971	162.024	1.59%	8.10%
10.0	2092.165	37.891	199.915	1.78%	10.00%
11.0	2090.263	41.791	241.706	1.96%	12.09%
12.0	2084.191	45.633	287.339	2.14%	14.37%
13.0	2077.534	49.389	336.728	2.32%	16.84%
14.0	2069.048	53.076	389.804	2.49%	19.49%
15.0	2059.831	56.683	446.487	2.66%	22.33%
16.0	2046.078	60.163	506.65	2.82%	25.33%
17.0	2029.107	63.462	570.112	2.98%	28.51%
18.0	2007.673	66.558	636.669	3.12%	31.84%
19.0	1978.338	69.348	706.018	3.26%	35.30%
20.0	1942.932	71.770	777.788	3.37%	38.89%
21.0	1902.991	73.850	851.638	3.47%	42.58%
22.0	1855.734	75.533	927.171	3.55%	46.36%
23.0	1801.966	76.748	1003.919	3.60%	50.20%
24.0	1738.981	77.418	1081.337	3.63%	54.07%
25.0	1667.511	77.456	1158.793	3.64%	57.94%
26.0	1580.385	76.667	1235.46	3.60%	61.78%
27.0	1454.101	74.239	1309.699	3.49%	65.49%
28.0	1277.027	69.146	1378.846	3.25%	68.95%
29.0	1206.624	64.979	1443.825	3.05%	72.19%
30.0	1100.852	62.301	1506.127	2.92%	75.31%
31.0	953.566	57.171	1563.298	2.68%	78.17%
32.0	809.630	50.513	1613.811	2.37%	80.69%
33.0	660.441	43.309	1657.12	2.03%	82.86%
34.0	514.062	35.544	1692.664	1.67%	84.64%
35.0	384.171	27.896	1720.56	1.31%	86.03%
36.0	285.063	21.309	1741.869	1.00%	87.10%
37.0	236.102	16.997	1758.866	0.80%	87.95%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	170.586	13.575	1772.441	0.64%	88.63%
39.0	108.552	9.528	1781.968	0.45%	89.10%
40.0	94.894	7.095	1789.064	0.33%	89.46%
41.0	87.733	6.503	1795.567	0.31%	89.78%
42.0	82.956	6.201	1801.769	0.29%	90.09%
43.0	78.727	5.989	1807.758	0.28%	90.39%
44.0	74.828	5.796	1813.553	0.27%	90.68%
45.0	71.376	5.619	1819.172	0.26%	90.96%
46.0	68.281	5.462	1824.634	0.26%	91.24%
47.0	65.713	5.329	1829.963	0.25%	91.50%
48.0	63.292	5.215	1835.178	0.24%	91.76%
49.0	61.339	5.118	1840.296	0.24%	92.02%
50.0	59.664	5.045	1845.341	0.24%	92.27%
51.0	58.215	4.987	1850.329	0.23%	92.52%
52.0	56.789	4.935	1855.264	0.23%	92.77%
53.0	55.370	4.879	1860.142	0.23%	93.01%
54.0	53.987	4.820	1864.962	0.23%	93.25%
55.0	52.612	4.758	1869.721	0.22%	93.49%
56.0	51.156	4.689	1874.41	0.22%	93.73%
57.0	49.729	4.613	1879.022	0.22%	93.96%
58.0	48.252	4.531	1883.553	0.21%	94.18%
59.0	46.906	4.449	1888.002	0.21%	94.40%
60.0	45.677	4.374	1892.376	0.21%	94.62%
61.0	44.506	4.304	1896.68	0.20%	94.84%
62.0	43.372	4.235	1900.914	0.20%	95.05%
63.0	42.283	4.166	1905.08	0.20%	95.26%
64.0	41.302	4.101	1909.182	0.19%	95.46%
65.0	40.395	4.043	1913.225	0.19%	95.67%
66.0	39.525	3.987	1917.212	0.19%	95.87%
67.0	38.720	3.934	1921.147	0.18%	96.06%
68.0	37.974	3.885	1925.032	0.18%	96.26%
69.0	37.286	3.839	1928.871	0.18%	96.45%
70.0	36.577	3.793	1932.665	0.18%	96.64%
71.0	35.962	3.749	1936.414	0.18%	96.83%
72.0	35.333	3.707	1940.121	0.17%	97.01%
73.0	34.748	3.665	1943.786	0.17%	97.19%
74.0	34.177	3.624	1947.409	0.17%	97.38%
75.0	33.643	3.583	1950.992	0.17%	97.55%

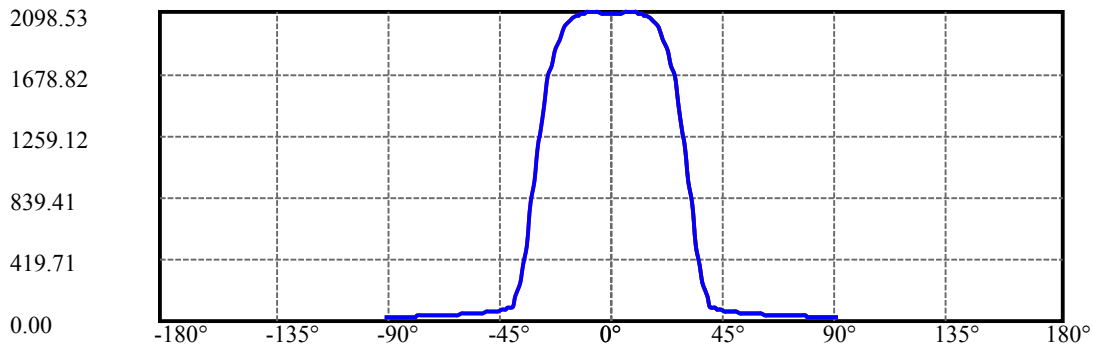
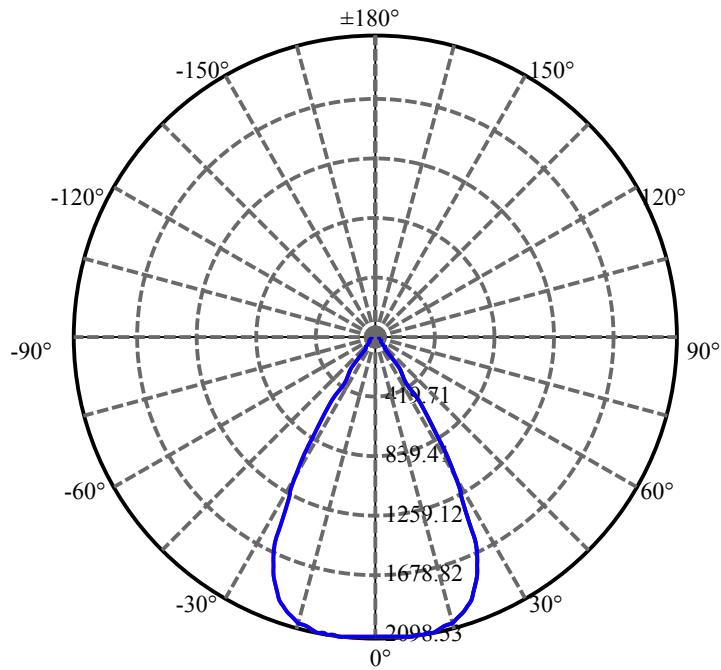
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	33.182	3.547	1954.54	0.17%	97.73%
77.0	32.743	3.515	1958.055	0.17%	97.91%
78.0	32.407	3.488	1961.542	0.16%	98.08%
79.0	32.085	3.465	1965.007	0.16%	98.26%
80.0	31.807	3.445	1968.452	0.16%	98.43%
81.0	31.719	3.435	1971.887	0.16%	98.60%
82.0	32.034	3.457	1975.344	0.16%	98.77%
83.0	32.202	3.492	1978.836	0.16%	98.95%
84.0	31.054	3.446	1982.282	0.16%	99.12%
85.0	29.561	3.308	1985.591	0.16%	99.28%
86.0	27.959	3.144	1988.735	0.15%	99.44%
87.0	26.598	2.986	1991.721	0.14%	99.59%
88.0	25.362	2.846	1994.567	0.13%	99.73%
89.0	24.272	2.721	1997.288	0.13%	99.87%
90.0	23.409	2.614	1999.902	0.12%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1506.13	70.70%	75.31%
0-40	1789.06	83.99%	89.46%
0-60	1892.38	88.84%	94.62%
0-90	1997.29	93.76%	99.87%
0-120	1997.29	93.76%	99.87%
0-180	1999.90	93.88%	100.00%
60-90	104.91	4.92%	5.25%
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%
0-31.73	1599.92	75.11%	80.00%

ZONAL LUMEN SUMMARY

0-10	199.92
10-20	577.87
20-30	728.34
30-40	282.94
40-50	56.28
50-60	47.03
60-70	40.29
70-80	35.79
80-90	28.84
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: —————

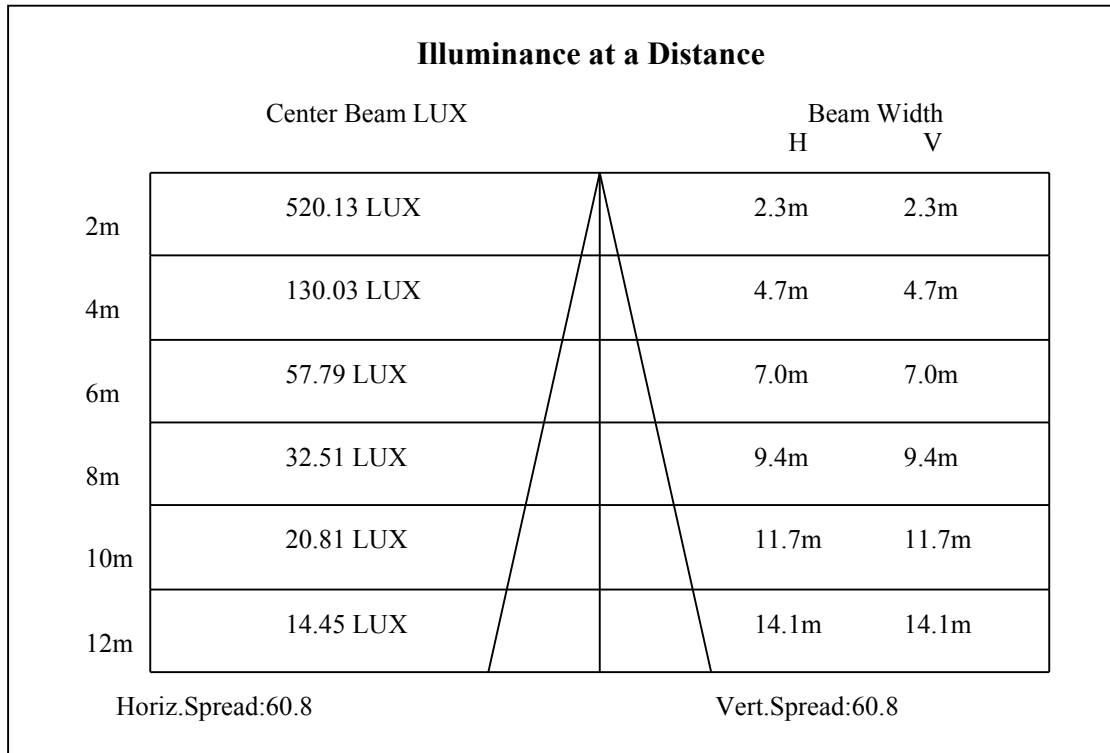
C90/C270: —————

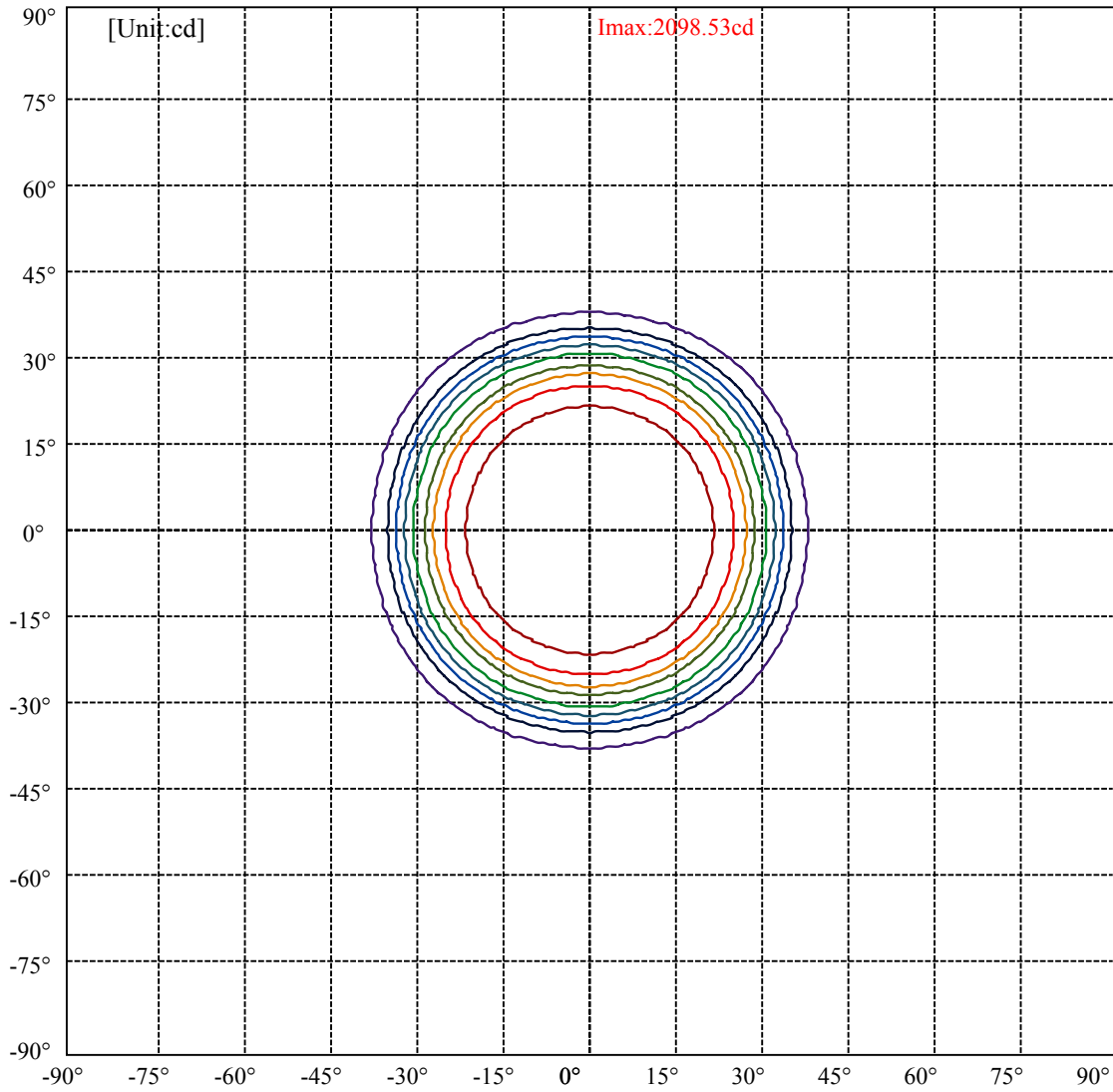
Field angle(10%Imax):C0/180Left:43.4 Right:31.4

:C90/270Left:43.4 Right:31.4

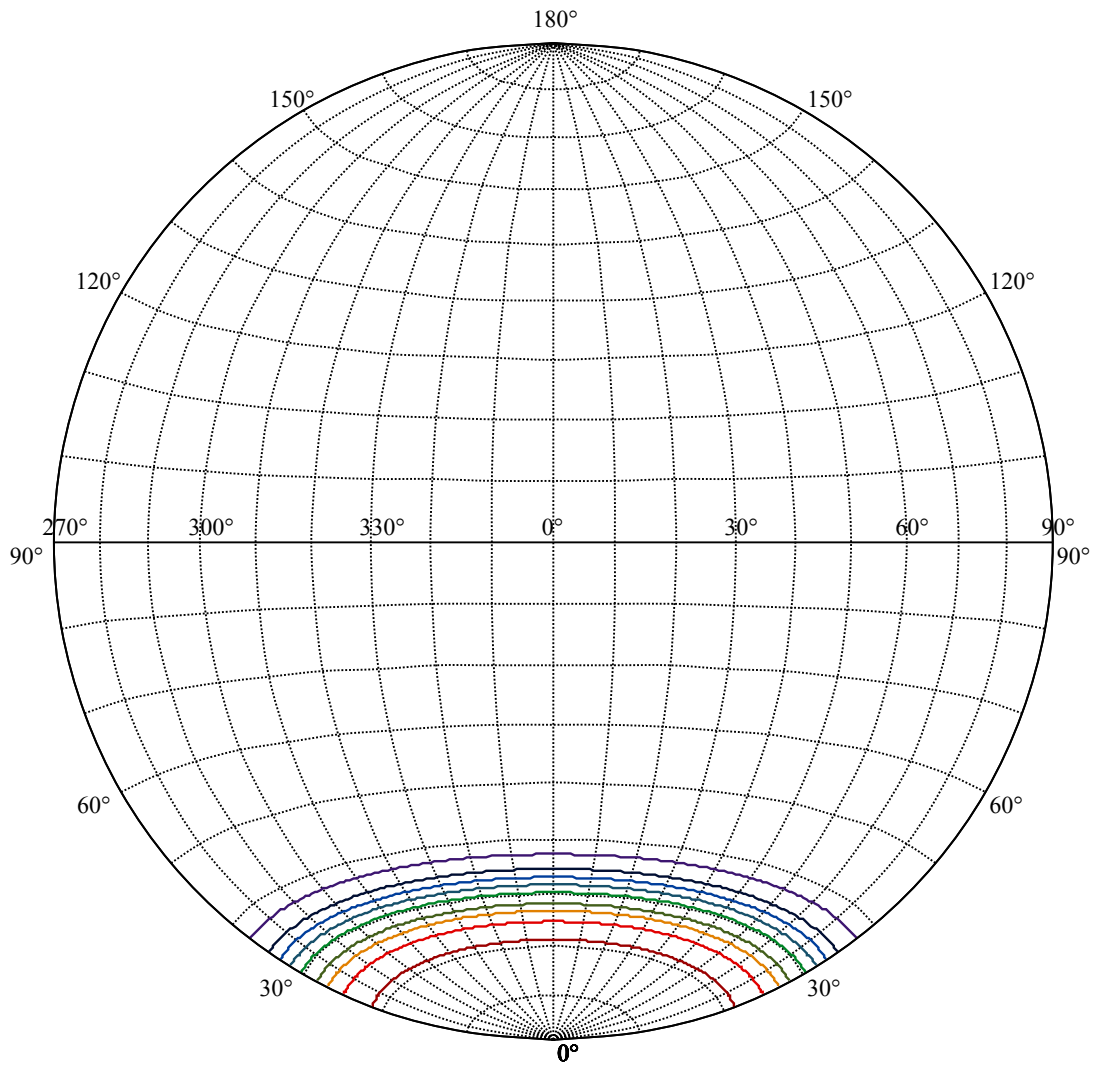
Beam Angle(50%Imax):C0/180Left:36.4 Right:24.4

:C90/270Left:36.4 Right:24.4





(10%Imax) 209.853	—
(20%Imax) 419.706	—
(30%Imax) 629.559	—
(40%Imax) 839.412	—
(50%Imax) 1049.26	—
(60%Imax) 1259.12	—
(70%Imax) 1468.97	—
(80%Imax) 1678.82	—
(90%Imax) 1888.68	—



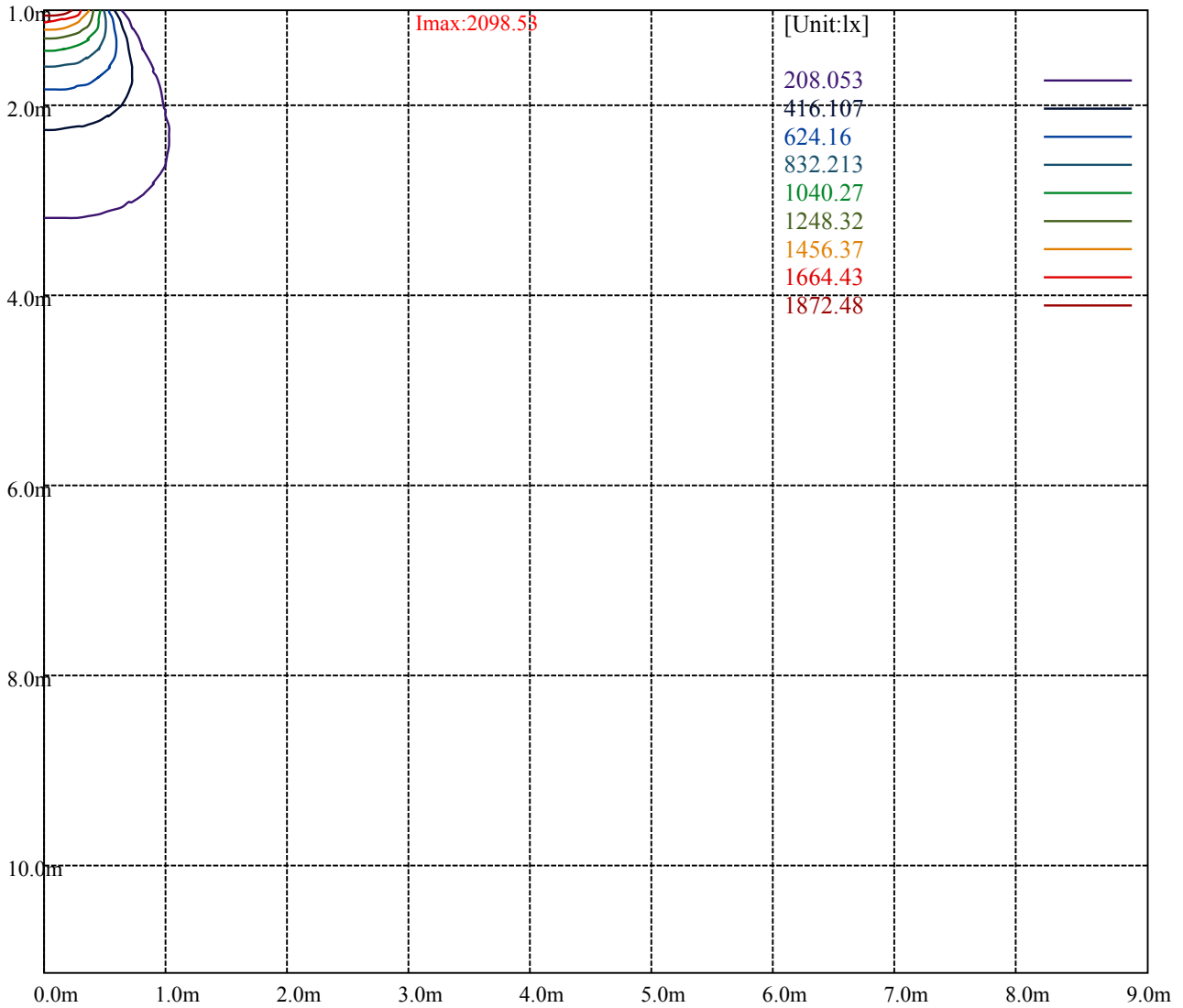
House

[Unit:cd]

Road

Imax:2098.53

(10%Imax) 209.853	—
(20%Imax) 419.706	—
(30%Imax) 629.559	—
(40%Imax) 839.412	—
(50%Imax) 1049.26	—
(60%Imax) 1259.12	—
(70%Imax) 1468.97	—
(80%Imax) 1678.82	—
(90%Imax) 1888.68	—



Luminance Table

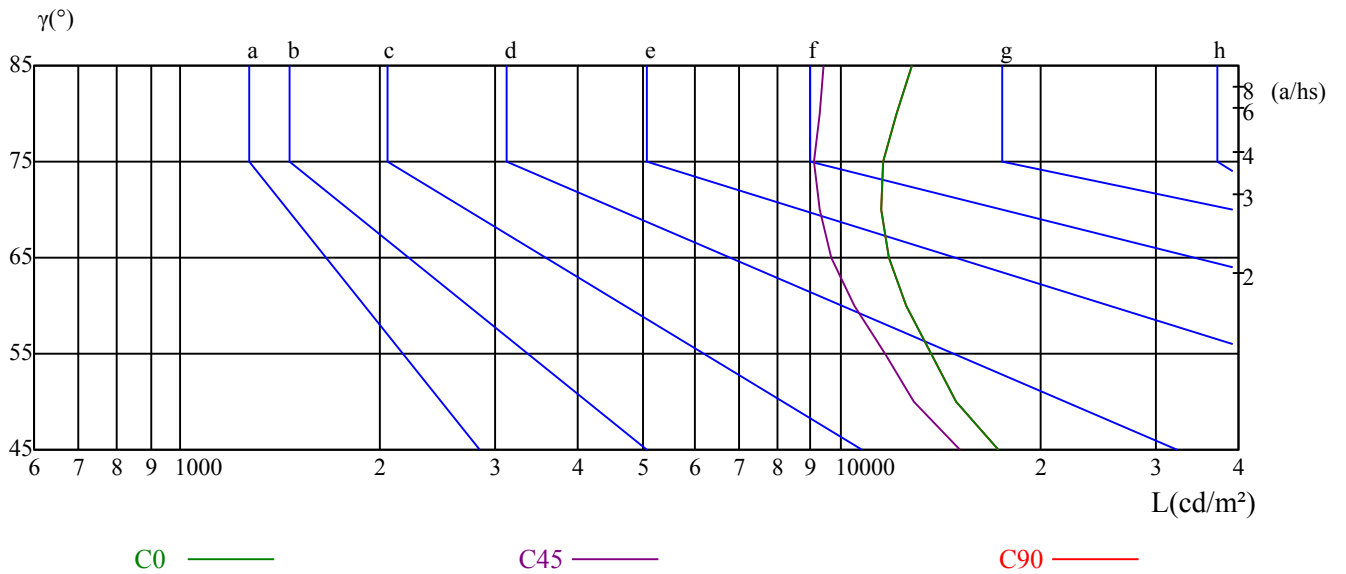
γ	45	50	55	60	65	70	75	80	85
C0	17320	14951	13737	12548	11802	11505	11556	12134	12789
C45	15179	12914	11683	10496	9693	9257	9080	9271	9444
C90	17320	14951	13737	12548	11802	11505	11556	12134	12789

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
24866	24866	24866	33816	33816	33816	88235	88235	88235

Glare Table

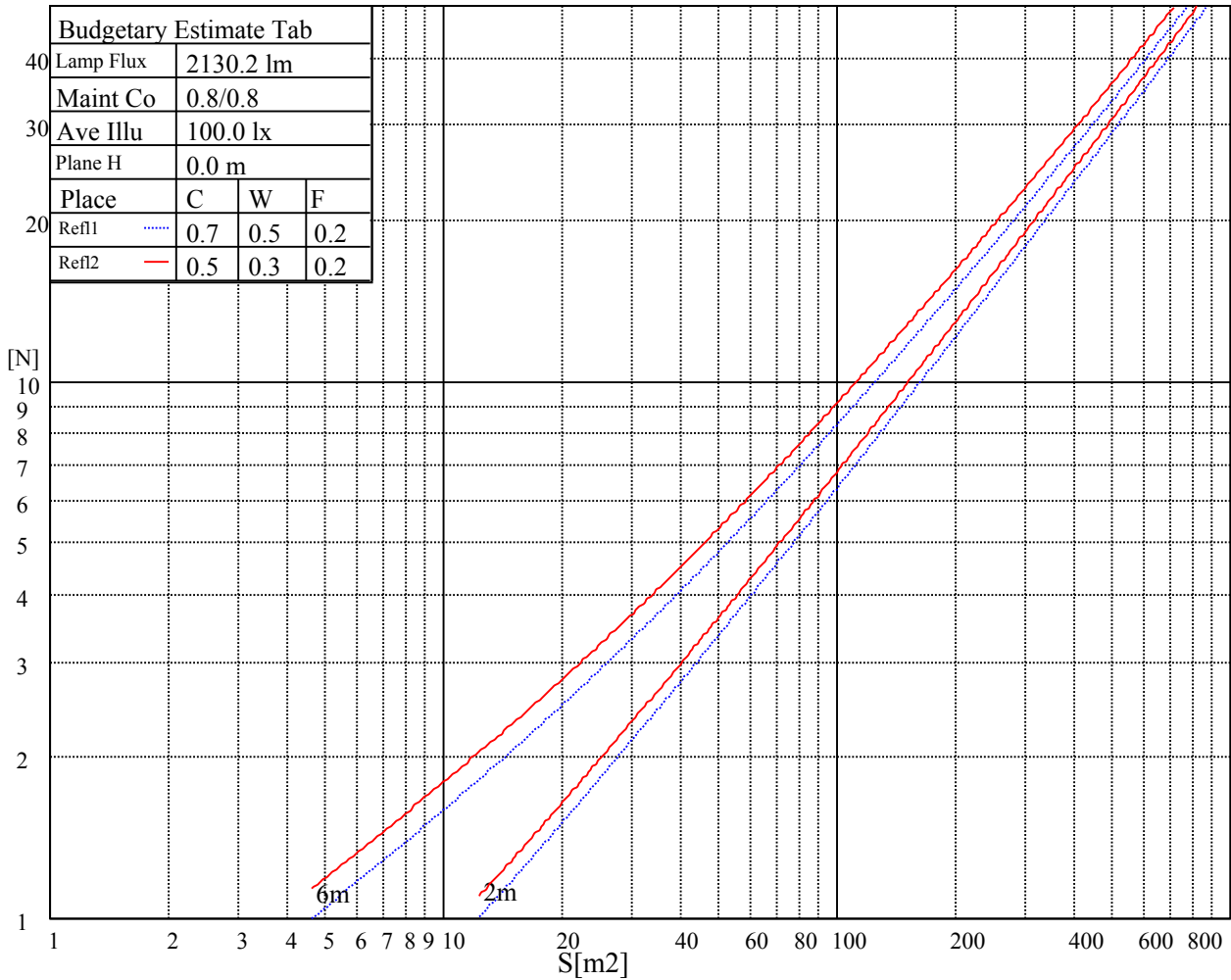
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

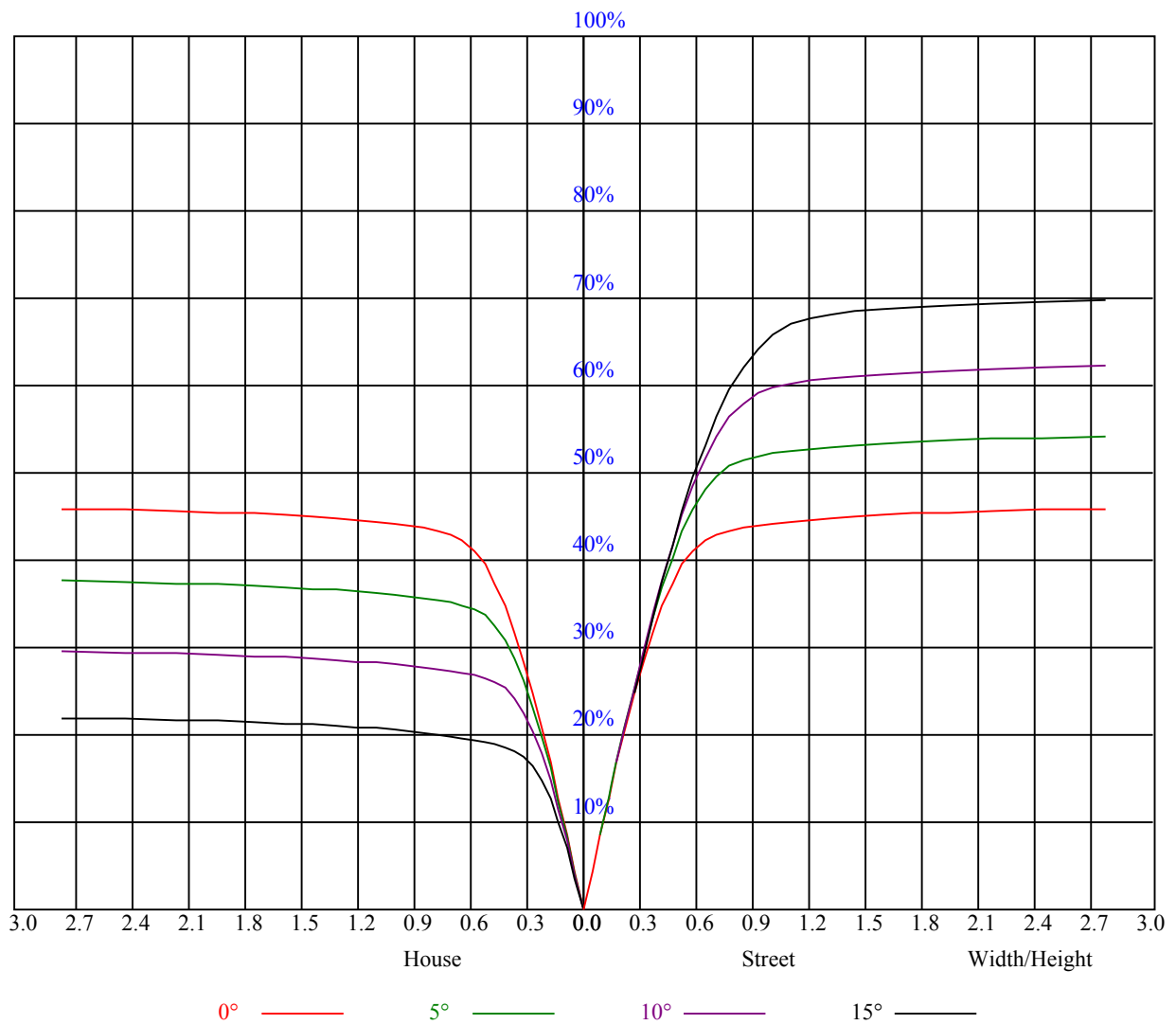


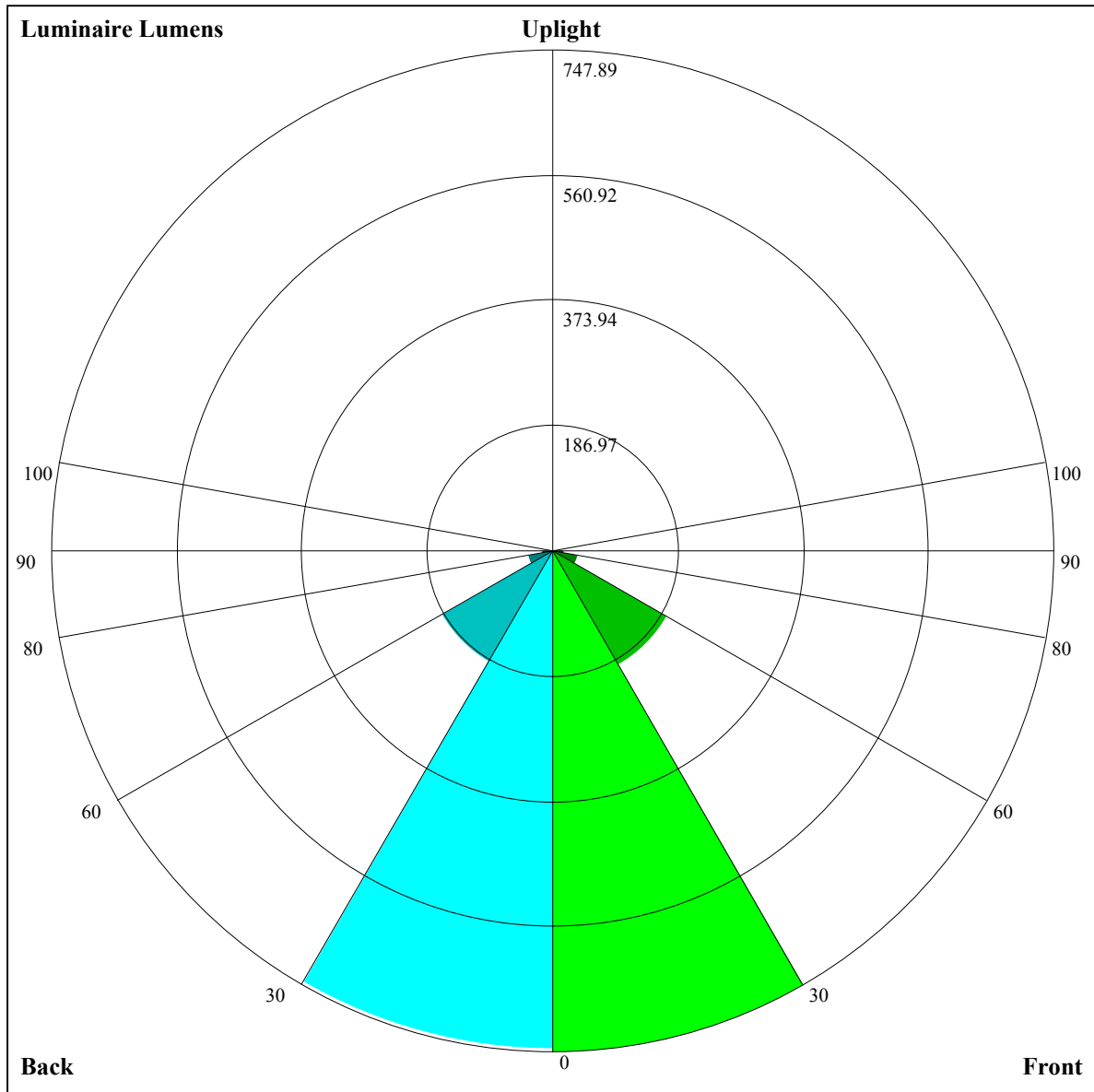
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	18.92	19.97	19.29	20.28	20.60	18.37	19.41	18.73	19.72	20.04
	3H	19.59	20.53	19.97	20.86	21.21	19.15	20.09	19.54	20.43	20.77
	4H	20.06	20.94	20.46	21.29	21.66	19.71	20.58	20.11	20.94	21.30
	6H	20.69	21.50	21.11	21.87	22.27	20.47	21.27	20.88	21.65	22.05
	8H	21.07	21.84	21.49	22.22	22.63	20.93	21.70	21.35	22.08	22.49
	12H	21.47	22.21	21.90	22.60	23.02	21.41	22.14	21.84	22.54	22.95
4H	2H	18.97	19.84	19.37	20.20	20.56	18.47	19.34	18.86	19.69	20.06
	3H	19.86	20.60	20.28	21.00	21.41	19.50	20.24	19.92	20.63	21.05
	4H	20.57	21.22	21.01	21.64	22.09	20.30	20.95	20.74	21.37	21.82
	6H	21.40	21.97	21.87	22.43	22.88	21.26	21.84	21.73	22.29	22.74
	8H	21.93	22.47	22.41	22.92	23.40	21.88	22.42	22.37	22.88	23.35
	12H	22.50	23.00	22.99	23.45	23.96	22.53	23.02	23.02	23.48	23.99
8H	4H	20.78	21.32	21.26	21.77	22.25	20.54	21.08	21.03	21.54	22.01
	6H	21.83	22.27	22.33	22.75	23.26	21.73	22.17	22.23	22.65	23.16
	8H	22.57	22.95	23.10	23.47	23.96	22.56	22.94	23.09	23.46	23.95
	12H	23.32	23.62	23.86	24.14	24.66	23.39	23.69	23.93	24.21	24.73
12H	4H	20.83	21.33	21.32	21.78	22.29	20.60	21.09	21.08	21.54	22.06
	6H	22.00	22.37	22.52	22.89	23.39	21.90	22.28	22.43	22.80	23.29
	8H	22.78	23.08	23.32	23.60	24.12	22.77	23.07	23.31	23.59	24.11
Variation with the observer position at spacings:											
S = 1.0H	3.7/-2.1					3.7/-2.1					
S = 1.5H	4.8/-1.6					4.8/-1.6					
S = 2.0H	5.7/-1.3					5.7/-1.3					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	6.9					6.9					

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	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.03	1.00	0.98	1.01	0.98	0.96	0.97	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.86
2	0.95	0.91	0.87	0.93	0.90	0.86	0.90	0.87	0.85	0.88	0.85	0.83	0.85	0.83	0.81	0.79
3	0.88	0.83	0.79	0.87	0.83	0.79	0.85	0.81	0.78	0.82	0.79	0.76	0.80	0.77	0.75	0.74
4	0.83	0.77	0.73	0.82	0.77	0.73	0.80	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.69
5	0.77	0.72	0.68	0.77	0.71	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.64
6	0.73	0.67	0.63	0.72	0.67	0.63	0.71	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.60
7	0.69	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.56
8	0.65	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.53
9	0.61	0.56	0.52	0.61	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.51	0.50
10	0.58	0.53	0.49	0.58	0.52	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.56	0.51	0.49	0.47





Luminaire Lumens:

FL=747.89,FM=197.76,FH=38.03,FVH=15.88

BL=744.32,BM=192.17,BH=38.06,BVH=15.87

UL=0,UH=0

BUG Rating:B2-U0-G1

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	2078.78	2085.22	2089.90	2098.09	2104.53	2111.55	2116.82	2120.91	2124.43
45.0	2082.29	2077.61	2075.85	2081.12	2084.63	2086.39	2088.73	2088.73	2092.24
90.0	2080.53	2075.27	2076.44	2074.10	2070.00	2065.90	2061.81	2049.52	2046.01
135.0	2080.53	2078.19	2077.02	2081.12	2081.70	2082.29	2084.63	2079.36	2077.61
180.0	2078.78	2081.70	2085.22	2089.90	2095.75	2101.02	2109.21	2110.97	2110.38
225.0	2082.29	2088.14	2089.31	2095.75	2101.02	2105.11	2114.48	2123.25	2124.43
270.0	2080.53	2081.70	2081.12	2082.29	2090.48	2100.43	2102.19	2098.68	2089.90
315.0	2080.53	2086.97	2091.65	2098.09	2104.53	2109.79	2110.38	2111.55	2109.21
360.0	2078.78	2085.22	2089.90	2098.09	2104.53	2111.55	2116.82	2120.91	2124.43

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2124.43	2123.84	2123.84	2125.60	2124.43	2123.25	2116.82	2105.70	2088.14
45.0	2090.48	2093.41	2095.75	2091.65	2087.56	2081.70	2079.36	2067.66	2056.54
90.0	2042.49	2037.23	2029.03	2016.74	2000.36	1989.24	1972.85	1952.37	1925.45
135.0	2075.27	2071.17	2063.56	2055.95	2049.52	2038.98	2033.72	2022.01	2009.14
180.0	2109.79	2109.21	2109.79	2108.04	2103.36	2098.09	2089.90	2078.19	2060.64
225.0	2122.67	2121.50	2118.57	2112.14	2109.21	2101.60	2089.90	2075.85	2055.95
270.0	2085.80	2075.85	2073.51	2060.64	2048.93	2035.47	2022.01	2006.21	1990.99
315.0	2108.04	2105.11	2108.04	2102.77	2096.92	2084.04	2074.10	2060.64	2046.01
360.0	2124.43	2123.84	2123.84	2125.60	2124.43	2123.25	2116.82	2105.70	2088.14

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2067.66	2040.15	1998.02	1958.81	1897.36	1843.52	1783.24	1708.33	1596.55
45.0	2040.15	2019.08	1985.73	1951.20	1913.74	1855.22	1806.65	1752.81	1658.59
90.0	1903.80	1859.90	1824.79	1783.82	1735.25	1669.71	1604.16	1526.91	1445.56
135.0	1992.75	1969.93	1937.15	1904.97	1865.17	1820.69	1761.00	1700.14	1623.47
180.0	2042.49	2013.82	1979.87	1935.98	1891.51	1840.59	1782.07	1697.80	1610.60
225.0	2025.52	1994.51	1958.22	1916.09	1858.73	1806.65	1721.79	1639.86	1546.81
270.0	1973.44	1941.84	1913.16	1867.51	1825.96	1779.73	1710.09	1644.54	1575.48
315.0	2015.57	1987.48	1946.52	1905.55	1858.15	1799.63	1742.86	1669.71	1586.02
360.0	2067.66	2040.15	1998.02	1958.81	1897.36	1843.52	1783.24	1708.33	1596.55

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1491.21	1155.59	1155.59	1089.69	953.98	812.41	669.03	494.69	371.33
45.0	1571.97	1470.73	1329.10	1205.62	1075.70	937.00	765.53	628.59	498.08
90.0	1159.21	1159.21	1069.44	945.26	815.51	658.20	528.63	405.68	281.55
135.0	1529.84	1405.77	1290.48	1138.91	1013.08	880.24	701.74	561.29	425.52
180.0	1514.62	1380.02	1263.56	1134.22	953.39	804.16	652.00	486.38	369.92
225.0	1412.79	1135.16	1135.16	1031.69	854.08	711.40	569.42	438.98	303.85
270.0	1489.46	1368.31	1268.24	1151.78	1020.11	872.63	736.86	611.03	462.97
315.0	1463.71	1141.42	1141.42	1109.65	942.68	801.00	660.31	485.85	360.15
360.0	1491.21	1155.59	1155.59	1089.69	953.98	812.41	669.03	494.69	371.33

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	247.73	177.79	130.04	98.67	88.54	83.22	78.30	74.91	71.87
45.0	379.87	302.03	302.03	130.68	100.48	90.30	85.03	80.06	76.61
90.0	203.95	151.28	117.22	96.91	90.24	85.33	81.00	76.08	72.45
135.0	310.23	310.23	140.28	110.55	97.21	90.53	86.44	82.69	78.36
180.0	311.40	311.40	122.43	98.61	89.66	84.68	80.00	76.49	73.21
225.0	221.27	161.64	121.73	97.21	89.36	83.39	79.30	75.49	71.22
270.0	346.51	303.21	303.21	133.37	109.67	95.92	89.42	84.04	79.42
315.0	259.55	171.24	127.75	102.41	93.99	88.49	84.16	80.06	75.49
360.0	247.73	177.79	130.04	98.67	88.54	83.22	78.30	74.91	71.87

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	69.06	65.95	63.91	62.09	60.51	58.82	57.53	56.18	54.54
45.0	73.45	69.82	67.36	65.31	63.15	61.74	60.34	59.17	57.64
90.0	69.23	65.90	63.61	61.33	59.87	58.93	58.11	57.24	56.59
135.0	75.20	72.16	68.94	66.72	64.96	63.03	61.68	60.40	58.87
180.0	69.58	67.01	64.78	62.27	60.45	58.41	56.94	55.54	54.25
225.0	68.30	65.84	63.67	61.27	59.63	58.23	56.77	54.89	53.49
270.0	74.15	70.64	67.36	64.55	61.51	59.40	57.70	55.89	54.54
315.0	72.04	68.94	66.07	62.79	60.63	58.76	56.65	55.01	53.02
360.0	69.06	65.95	63.91	62.09	60.51	58.82	57.53	56.18	54.54
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	53.20	51.79	50.10	48.75	47.52	46.12	45.18	44.18	43.19
45.0	56.36	55.01	53.55	51.68	50.15	48.22	46.82	45.47	44.13
90.0	55.71	54.72	53.08	51.44	49.74	48.16	46.58	45.24	44.07
135.0	57.47	56.01	54.54	53.08	51.21	49.74	48.46	46.88	45.76
180.0	52.61	51.44	50.21	48.98	47.58	46.58	45.59	44.54	43.42
225.0	51.97	50.04	48.69	47.34	45.94	44.83	43.60	42.60	41.55
270.0	53.02	51.73	50.50	49.28	47.64	46.35	45.06	43.95	42.55
315.0	51.56	50.15	48.57	47.29	46.23	45.24	44.13	43.19	42.31
360.0	53.20	51.79	50.10	48.75	47.52	46.12	45.18	44.18	43.19
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	41.96	41.08	40.38	39.68	38.86	38.22	37.51	36.99	36.34
45.0	43.13	42.25	41.32	40.26	39.39	38.62	37.92	36.99	36.34
90.0	42.60	41.55	40.38	39.50	38.68	37.92	37.10	36.46	35.99
135.0	44.42	43.42	42.43	41.26	40.44	39.56	38.86	37.92	37.22
180.0	42.55	41.49	40.79	40.09	39.33	38.74	38.04	37.40	36.64
225.0	40.61	39.50	38.62	37.75	36.99	36.17	35.58	34.94	34.47
270.0	41.55	40.61	39.56	38.74	37.98	37.10	36.46	35.87	35.17
315.0	41.43	40.50	39.68	38.92	38.10	37.45	36.81	36.05	35.52
360.0	41.96	41.08	40.38	39.68	38.86	38.22	37.51	36.99	36.34
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	35.46	34.88	34.24	33.71	33.07	32.66	32.19	31.84	31.54
45.0	35.82	35.05	34.59	34.00	33.47	33.07	32.71	32.25	31.95
90.0	35.46	35.00	34.65	34.35	34.00	33.77	33.59	33.36	33.30
135.0	36.58	35.93	35.23	34.70	34.24	33.65	33.24	32.83	32.42
180.0	35.99	35.17	34.24	33.24	32.60	31.89	31.43	31.02	30.49
225.0	33.83	33.36	32.89	32.48	32.19	31.78	31.60	31.43	31.31
270.0	34.65	34.18	33.65	33.24	32.89	32.60	32.30	32.13	32.01
315.0	34.88	34.41	33.94	33.42	33.01	32.54	32.19	31.84	31.43
360.0	35.46	34.88	34.24	33.71	33.07	32.66	32.19	31.84	31.54
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	31.37	31.84	33.18	31.02	29.38	27.56	26.74	25.75	24.76
45.0	31.66	31.43	31.60	31.72	30.49	28.91	27.33	26.22	24.93
90.0	33.47	34.41	34.94	33.18	31.60	30.02	28.56	26.98	25.75
135.0	32.13	31.95	32.19	32.13	30.90	29.55	27.51	26.28	25.05
180.0	30.14	30.08	30.78	29.79	28.32	26.45	24.99	23.70	22.77
225.0	31.72	32.13	30.96	29.85	28.32	26.92	25.93	24.76	23.94
270.0	32.19	32.95	33.88	31.95	30.43	28.85	27.68	26.39	25.40
315.0	31.08	31.49	30.08	28.79	27.04	25.40	24.05	22.82	21.59
360.0	31.37	31.84	33.18	31.02	29.38	27.56	26.74	25.75	24.76

Intensity data(cd)

C/γ(°)	90.0
0.0	23.99
45.0	23.99
90.0	25.05
135.0	23.99
180.0	22.00
225.0	23.17
270.0	24.29
315.0	20.78
360.0	23.99