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NT

Client: NT

LumCAT: 62-0083

Luminaire: 92.70.429.00

Report No: 2024828-B008

Ballast type: AC

Test No: 2024828-C008

Voltage(V): 34.240

LampCAT: CREE CXA1820 LES12

Current(A): 0.361

Lamp flux(lm): 2155.3

Power (W): 12.360

Number of Lamps: 1

PF: 0.000

Length(mm): 62

Width(mm): 62

Phm Type: C

Height(mm): 32

Photometric Results

Lumens(lm): 2058.53, Efficiency(%): 95.51% , Luminous Efficacy(lm/W): 166.55

Central intensity(cd): 12635.590, Maximum intensity(cd): 12635.590

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.8

[C90/270]Total=18.8

Field angle(10%Imax): [C0/180]Total=37.4

[C90/270]Total=37.4

Maximum s/h(1/2): C0_180=0.32 C90_270=0.32

Maximum s/h(1/4): C0_180=0.33 C90_270=0.33

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 95.51%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.355%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/28
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	12635.593	0.000	0	0.00%	0.00%
1.0	12395.153	11.977	11.977	0.56%	0.58%
2.0	12113.455	35.177	47.154	1.63%	2.29%
3.0	11924.135	57.490	104.644	2.67%	5.08%
4.0	11423.182	78.151	182.795	3.63%	8.88%
5.0	10690.334	95.131	277.926	4.41%	13.50%
6.0	9784.333	107.600	385.526	4.99%	18.73%
7.0	8839.121	115.595	501.121	5.36%	24.34%
8.0	7756.089	118.769	619.89	5.51%	30.11%
9.0	6749.868	117.563	737.453	5.45%	35.82%
10.0	5783.369	113.421	850.874	5.26%	41.33%
11.0	4959.811	107.346	958.221	4.98%	46.55%
12.0	4187.241	99.990	1058.211	4.64%	51.41%
13.0	3521.328	91.481	1149.692	4.24%	55.85%
14.0	2968.290	83.067	1232.759	3.85%	59.89%
15.0	2624.251	76.777	1309.536	3.56%	63.62%
16.0	2302.685	72.193	1381.729	3.35%	67.12%
17.0	1650.561	61.563	1443.292	2.86%	70.11%
18.0	1391.614	50.159	1493.451	2.33%	72.55%
19.0	1211.299	45.285	1538.736	2.10%	74.75%
20.0	1018.131	40.805	1579.541	1.89%	76.73%
21.0	839.300	35.666	1615.207	1.65%	78.46%
22.0	703.067	30.995	1646.202	1.44%	79.97%
23.0	593.016	27.195	1673.397	1.26%	81.29%
24.0	499.870	23.894	1697.291	1.11%	82.45%
25.0	414.537	20.792	1718.083	0.96%	83.46%
26.0	347.024	17.977	1736.06	0.83%	84.33%
27.0	296.987	15.756	1751.816	0.73%	85.10%
28.0	264.368	14.212	1766.028	0.66%	85.79%
29.0	225.487	12.816	1778.844	0.59%	86.41%
30.0	194.887	11.350	1790.194	0.53%	86.96%
31.0	160.535	9.891	1800.085	0.46%	87.45%
32.0	141.932	8.665	1808.75	0.40%	87.87%
33.0	126.445	7.906	1816.657	0.37%	88.25%
34.0	114.170	7.282	1823.938	0.34%	88.60%
35.0	104.887	6.803	1830.741	0.32%	88.93%
36.0	96.760	6.420	1837.162	0.30%	89.25%
37.0	90.447	6.106	1843.268	0.28%	89.54%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	85.041	5.858	1849.125	0.27%	89.83%
39.0	81.149	5.672	1854.798	0.26%	90.10%
40.0	78.281	5.560	1860.358	0.26%	90.37%
41.0	75.904	5.490	1865.848	0.25%	90.64%
42.0	73.724	5.436	1871.285	0.25%	90.90%
43.0	72.070	5.401	1876.685	0.25%	91.17%
44.0	70.622	5.386	1882.071	0.25%	91.43%
45.0	69.261	5.376	1887.447	0.25%	91.69%
46.0	67.974	5.367	1892.814	0.25%	91.95%
47.0	66.884	5.364	1898.177	0.25%	92.21%
48.0	65.750	5.362	1903.539	0.25%	92.47%
49.0	64.660	5.355	1908.894	0.25%	92.73%
50.0	63.336	5.337	1914.231	0.25%	92.99%
51.0	61.953	5.301	1919.532	0.25%	93.25%
52.0	60.256	5.244	1924.776	0.24%	93.50%
53.0	58.530	5.167	1929.943	0.24%	93.75%
54.0	56.577	5.073	1935.017	0.24%	94.00%
55.0	54.455	4.956	1939.973	0.23%	94.24%
56.0	52.407	4.829	1944.802	0.22%	94.48%
57.0	50.395	4.700	1949.502	0.22%	94.70%
58.0	48.618	4.579	1954.081	0.21%	94.93%
59.0	46.950	4.468	1958.549	0.21%	95.14%
60.0	45.231	4.355	1962.903	0.20%	95.35%
61.0	43.804	4.249	1967.152	0.20%	95.56%
62.0	42.275	4.148	1971.3	0.19%	95.76%
63.0	40.856	4.043	1975.343	0.19%	95.96%
64.0	39.590	3.947	1979.291	0.18%	96.15%
65.0	38.479	3.864	1983.154	0.18%	96.34%
66.0	37.293	3.781	1986.935	0.18%	96.52%
67.0	36.160	3.693	1990.628	0.17%	96.70%
68.0	35.143	3.612	1994.24	0.17%	96.88%
69.0	34.302	3.543	1997.783	0.16%	97.05%
70.0	33.490	3.482	2001.265	0.16%	97.22%
71.0	32.670	3.419	2004.684	0.16%	97.38%
72.0	31.880	3.356	2008.04	0.16%	97.55%
73.0	31.192	3.298	2011.339	0.15%	97.71%
74.0	30.585	3.248	2014.587	0.15%	97.87%
75.0	29.949	3.198	2017.785	0.15%	98.02%

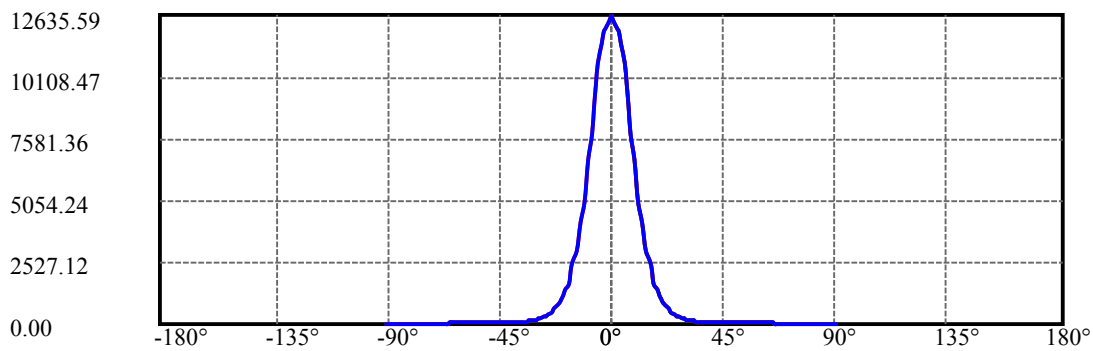
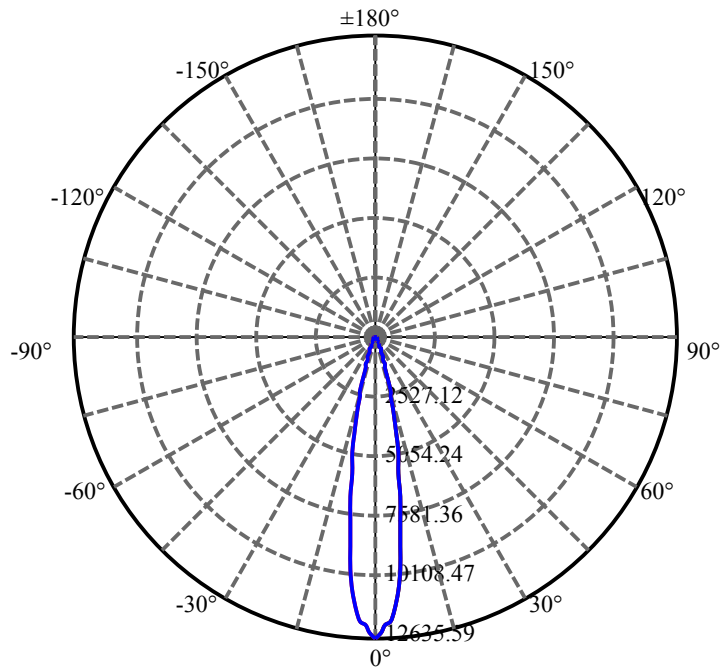
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	29.371	3.149	2020.934	0.15%	98.17%
77.0	28.852	3.104	2024.038	0.14%	98.32%
78.0	28.325	3.061	2027.099	0.14%	98.47%
79.0	27.827	3.017	2030.116	0.14%	98.62%
80.0	27.308	2.972	2033.088	0.14%	98.76%
81.0	26.891	2.931	2036.019	0.14%	98.91%
82.0	26.489	2.895	2038.914	0.13%	99.05%
83.0	26.035	2.855	2041.769	0.13%	99.19%
84.0	25.443	2.804	2044.574	0.13%	99.32%
85.0	24.272	2.713	2047.287	0.13%	99.45%
86.0	22.582	2.561	2049.848	0.12%	99.58%
87.0	21.273	2.400	2052.248	0.11%	99.69%
88.0	19.810	2.250	2054.499	0.10%	99.80%
89.0	18.325	2.090	2056.589	0.10%	99.91%
90.0	17.111	1.943	2058.532	0.09%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1790.19	83.06%	86.96%
0-40	1860.36	86.31%	90.37%
0-60	1962.90	91.07%	95.35%
0-90	2056.59	95.42%	99.91%
0-120	2056.59	95.42%	99.91%
0-180	2058.53	95.51%	100.00%
60-90	93.69	4.35%	4.55%
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%
0-22.02	1646.83	76.41%	80.00%

ZONAL LUMEN SUMMARY

0-10	850.87
10-20	728.67
20-30	210.65
30-40	70.16
40-50	53.87
50-60	48.67
60-70	38.36
70-80	31.82
80-90	23.50
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



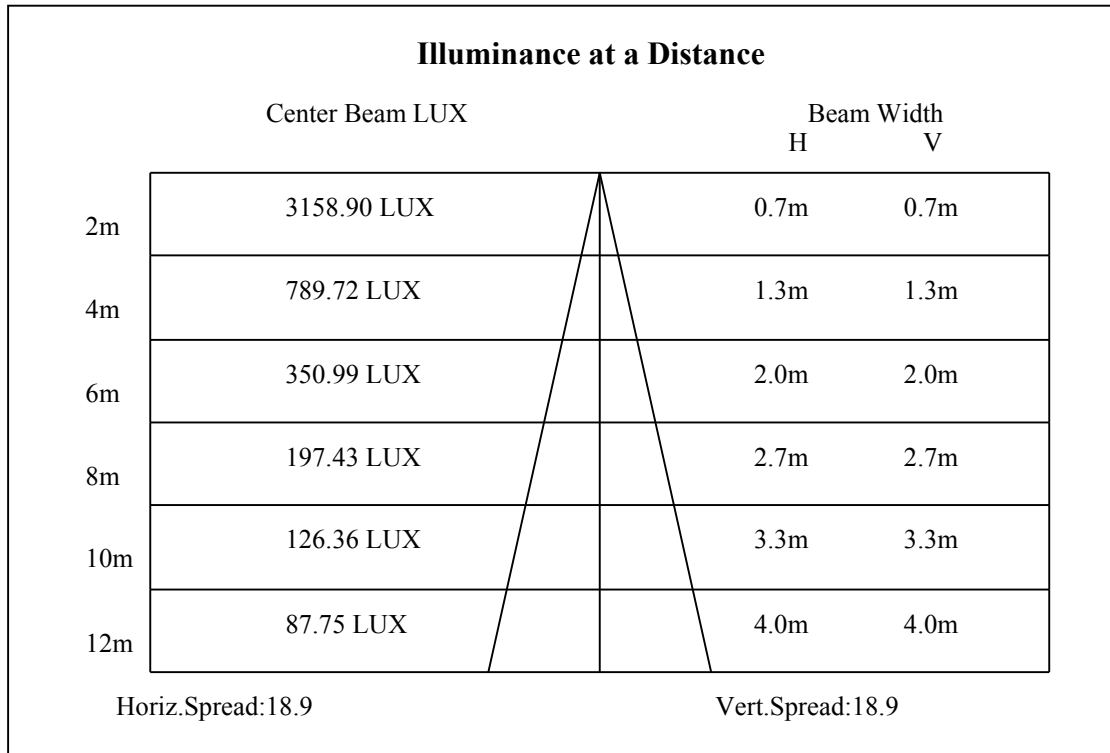
C0(Max): —————

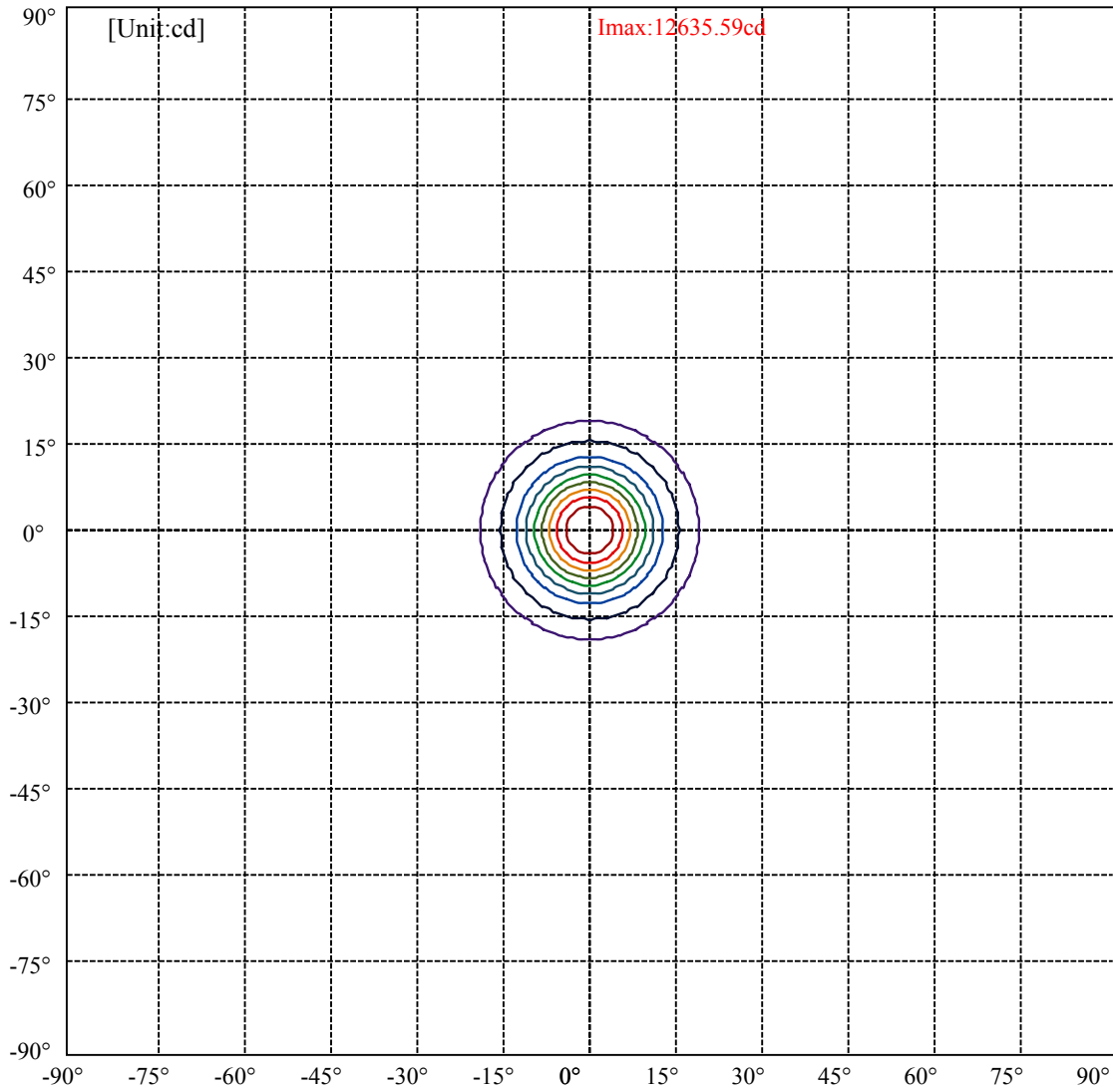
C0/C180: —————

C90/C270: —————

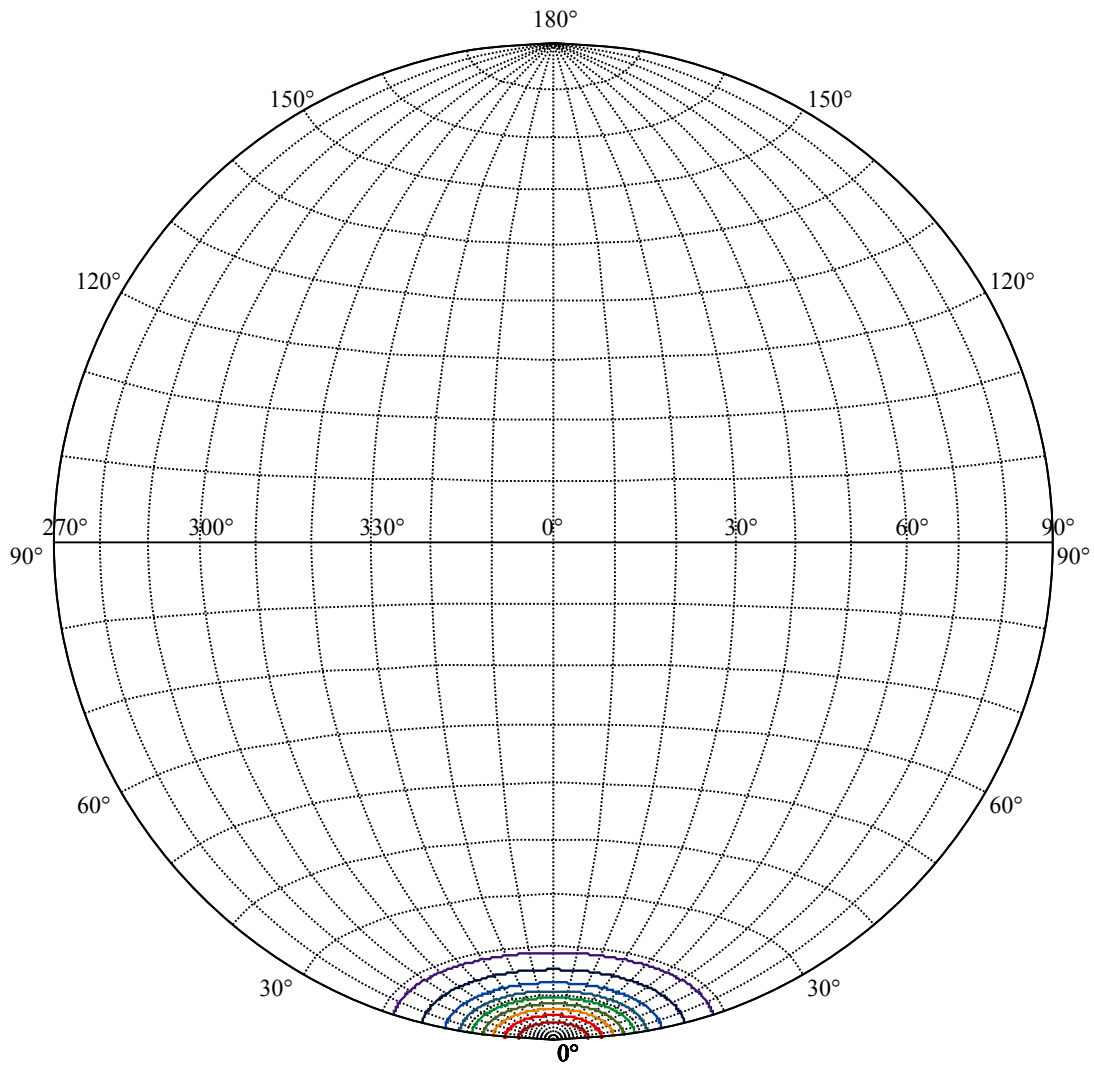
Field angle(10%Imax):C0/180Left:18.7 Right:18.7
:C90/270Left:18.7 Right:18.7

Beam Angle(50%Imax):C0/180Left:9.4 Right:9.4
:C90/270Left:9.4 Right:9.4





(10%Imax) 1263.56	—
(20%Imax) 2527.12	—
(30%Imax) 3790.68	—
(40%Imax) 5054.24	—
(50%Imax) 6317.8	—
(60%Imax) 7581.36	—
(70%Imax) 8844.92	—
(80%Imax) 10108.5	—
(90%Imax) 11372	—



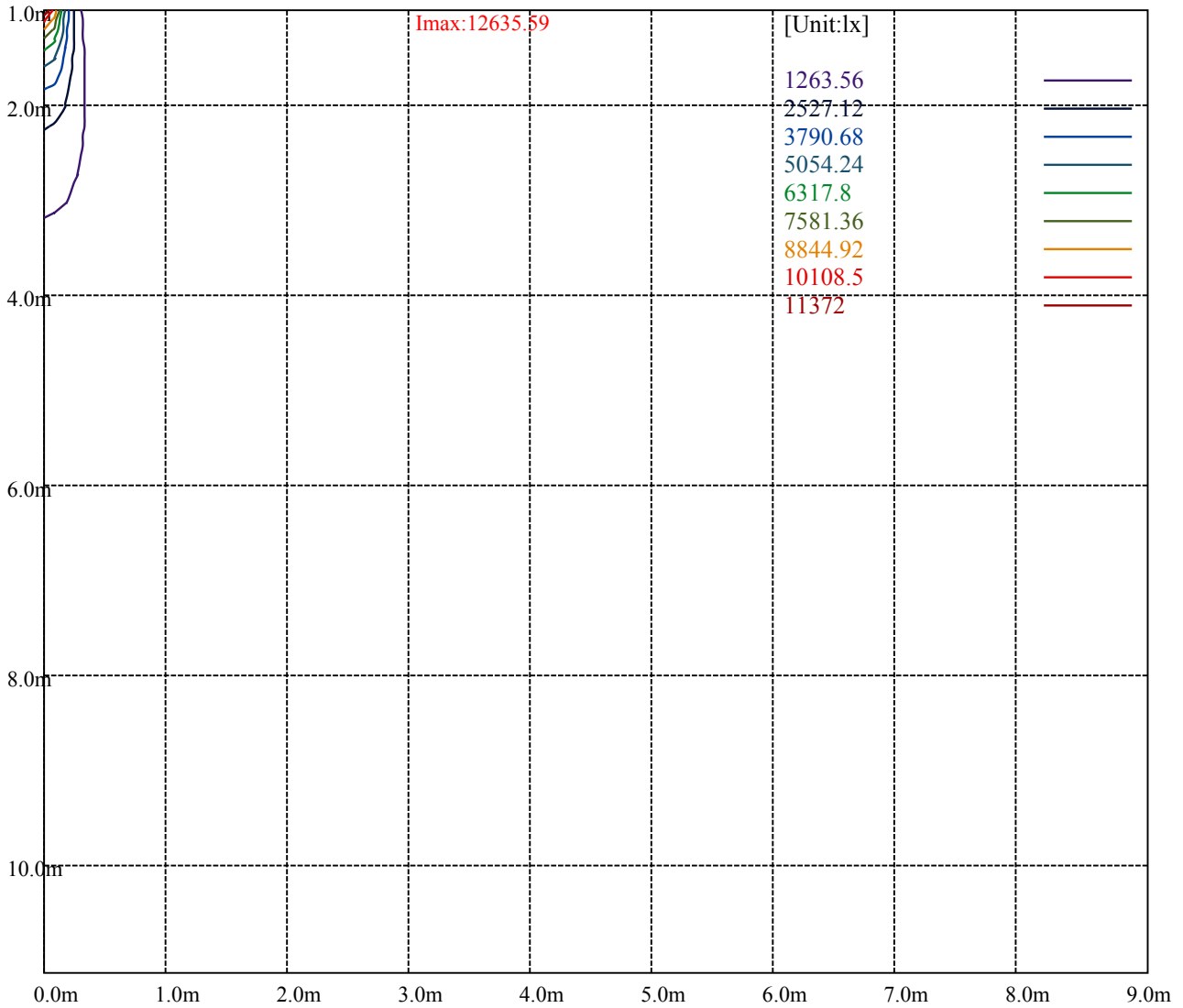
House

[Unit:cd]

Road

Imax:12635.59

(10%Imax)	1263.56	—
(20%Imax)	2527.12	—
(30%Imax)	3790.68	—
(40%Imax)	5054.24	—
(50%Imax)	6317.8	—
(60%Imax)	7581.36	—
(70%Imax)	8844.92	—
(80%Imax)	10108.5	—
(90%Imax)	11372	—



Luminance Table

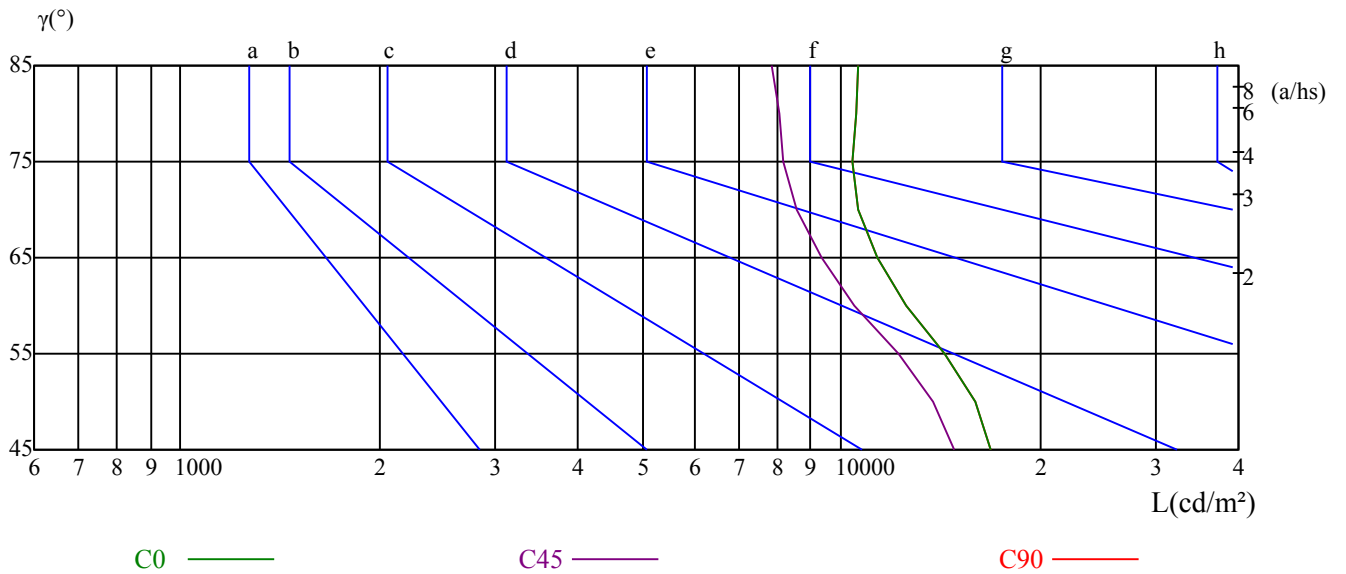
γ	45	50	55	60	65	70	75	80	85
C0	16897	15966	14313	12518	11335	10632	10394	10540	10643
C45	14828	13809	12190	10485	9322	8565	8177	8061	7864
C90	16897	15966	14313	12518	11335	10632	10394	10540	10643

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
23686	23686	23686	30102	30102	30102	72449	72449	72449

Glare Table

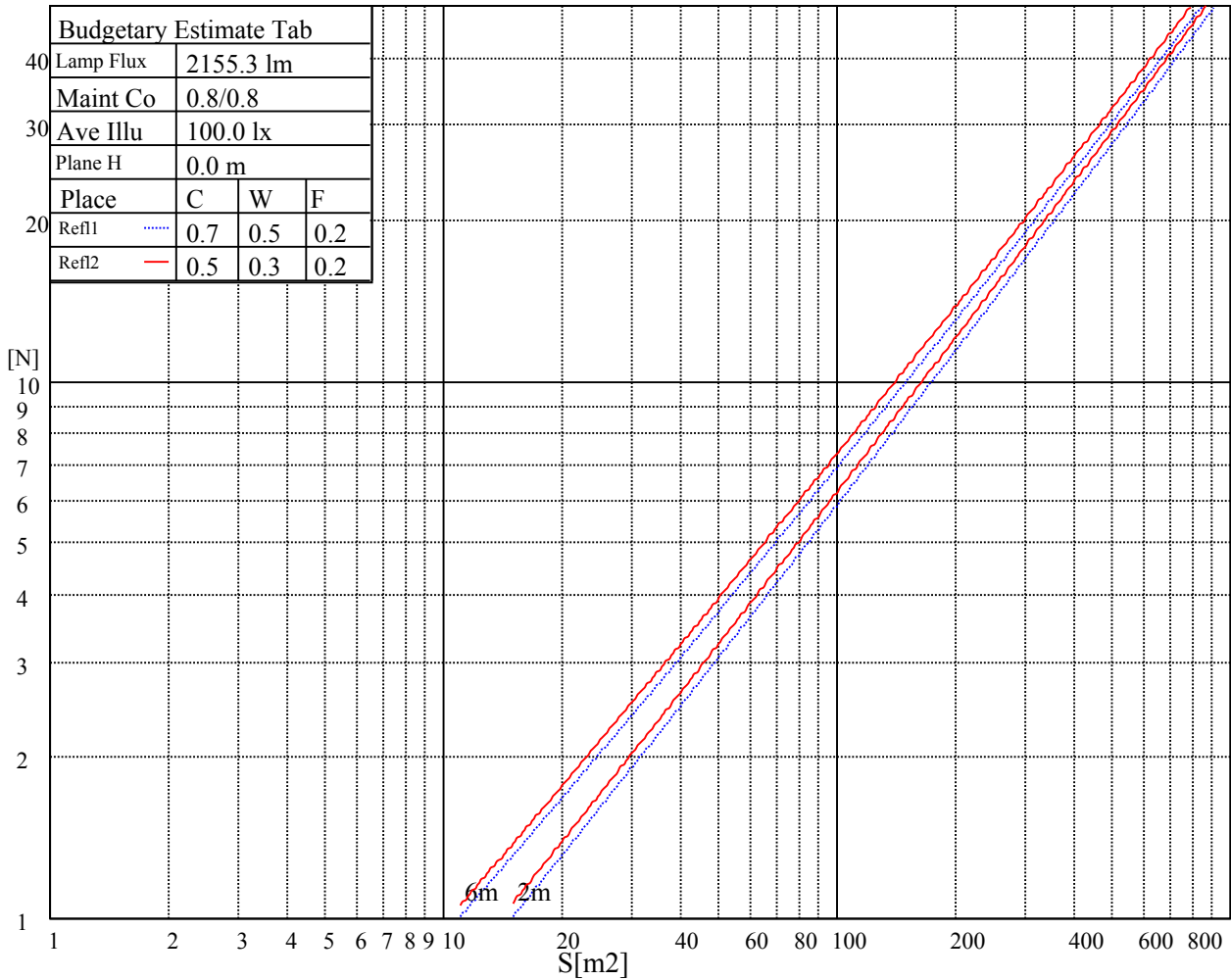
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

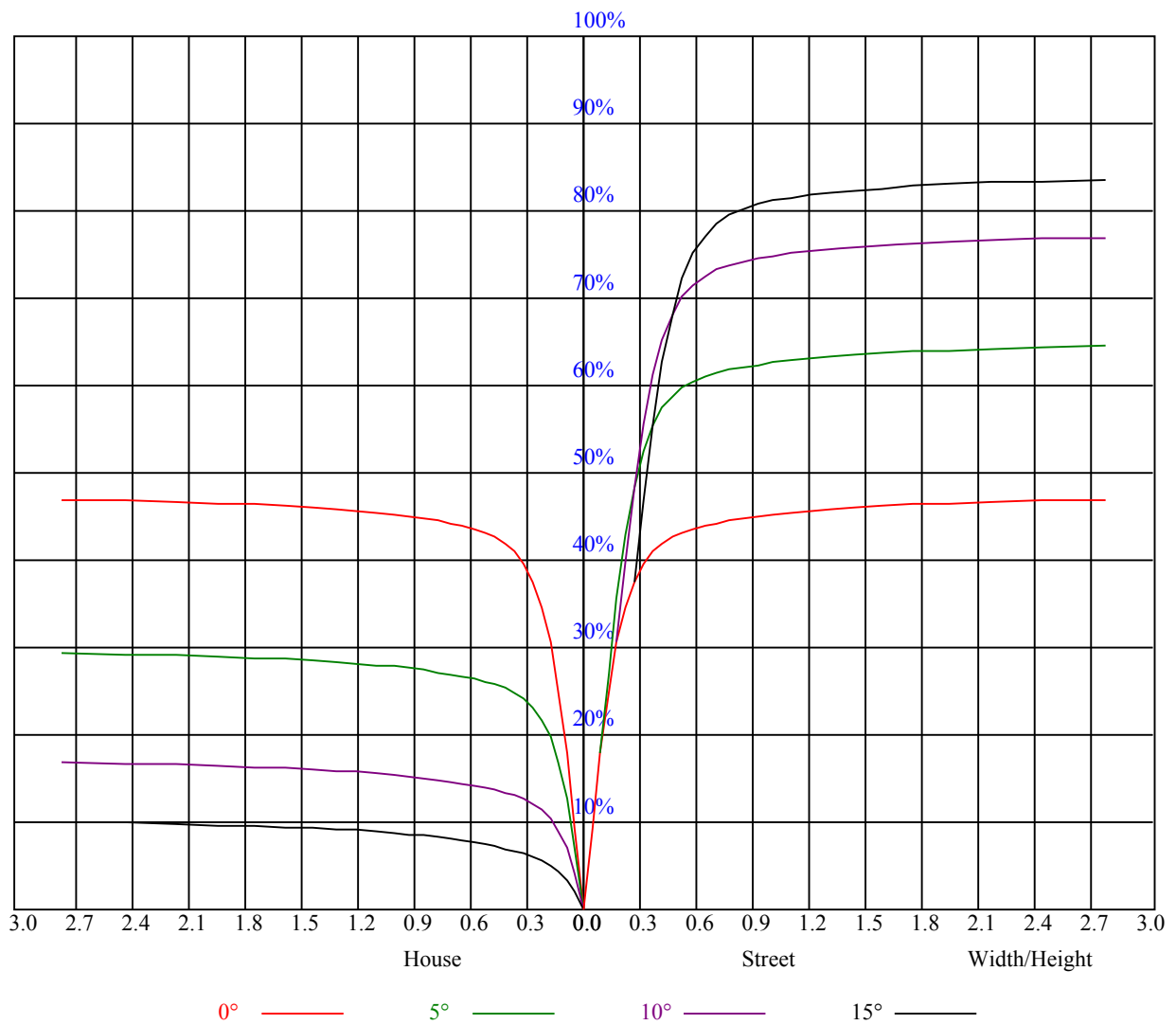


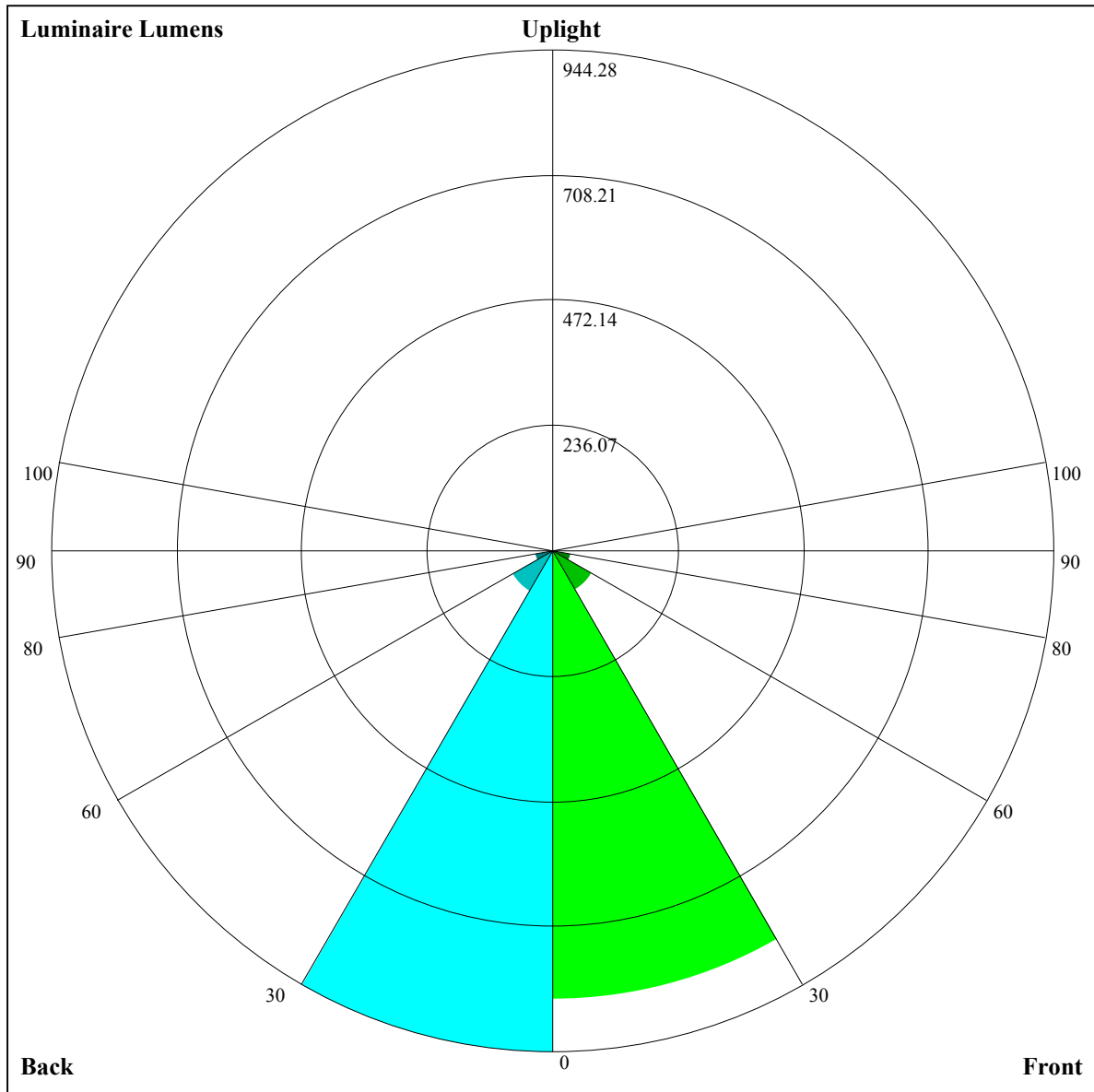
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.21	16.24	15.57	16.55	16.87	15.18	16.22	15.55	16.53	16.84
	3H	16.88	17.81	17.27	18.15	18.49	16.78	17.71	17.17	18.04	18.39
	4H	17.76	18.62	18.16	18.97	19.34	17.63	18.48	18.03	18.84	19.21
	6H	18.72	19.51	19.14	19.89	20.29	18.55	19.34	18.96	19.71	20.11
	8H	19.20	19.96	19.62	20.34	20.75	19.02	19.77	19.44	20.16	20.56
	12H	19.67	20.39	20.09	20.78	21.20	19.48	20.20	19.90	20.59	21.01
4H	2H	15.77	16.63	16.17	16.98	17.35	15.75	16.61	16.15	16.96	17.33
	3H	17.64	18.36	18.06	18.76	19.18	17.55	18.28	17.97	18.67	19.09
	4H	18.72	19.35	19.15	19.77	20.22	18.60	19.23	19.04	19.65	20.10
	6H	19.81	20.38	20.29	20.83	21.28	19.65	20.22	20.12	20.67	21.12
	8H	20.41	20.93	20.90	21.39	21.86	20.24	20.76	20.72	21.22	21.69
	12H	20.99	21.48	21.48	21.93	22.45	20.82	21.30	21.31	21.75	22.27
8H	4H	19.05	19.58	19.54	20.03	20.50	18.95	19.47	19.43	19.93	20.40
	6H	20.36	20.79	20.86	21.27	21.78	20.22	20.65	20.72	21.13	21.64
	8H	21.15	21.52	21.68	22.04	22.53	21.00	21.36	21.53	21.88	22.38
	12H	21.90	22.18	22.44	22.70	23.22	21.74	22.03	22.28	22.55	23.07
12H	4H	19.12	19.60	19.60	20.05	20.57	19.02	19.50	19.51	19.95	20.47
	6H	20.54	20.91	21.07	21.43	21.92	20.41	20.77	20.94	21.30	21.79
	8H	21.37	21.65	21.91	22.17	22.69	21.22	21.51	21.76	22.03	22.55
Variation with the observer position at spacings:											
S = 1.0H	0.2/-0.9					0.2/-0.9					
S = 1.5H	0.4/-0.7					0.4/-0.7					
S = 2.0H	0.3/-0.7					0.3/-0.7					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	4.6					4.6					

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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.96
1	1.06	1.04	1.02	1.04	1.02	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.01	0.97	0.95	0.99	0.96	0.93	0.96	0.94	0.91	0.93	0.91	0.90	0.91	0.89	0.88	0.86
3	0.96	0.92	0.89	0.95	0.91	0.88	0.92	0.89	0.87	0.90	0.88	0.85	0.88	0.86	0.84	0.83
4	0.92	0.88	0.84	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.80
5	0.88	0.84	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.85	0.82	0.79	0.83	0.81	0.79	0.77
6	0.85	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
7	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
8	0.80	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
9	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.76	0.73	0.71	0.70
10	0.76	0.72	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.68





Luminaire Lumens:

FL=846.84,FM=84.06,FH=34.77,FVH=12.56

BL=944.28,BM=88.85,BH=35.08,BVH=12.78

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	12638.52	11675.88	11675.88	11375.08	10610.77	9765.12	8602.28	7632.56	6661.09
45.0	12673.63	12644.37	12521.47	12234.71	11637.78	10935.51	10127.90	8975.01	8032.80
90.0	12644.37	12550.74	11589.27	11589.27	11258.03	10483.19	9415.16	8482.89	7506.15
135.0	12585.85	12667.78	12632.67	12468.80	12082.56	11538.30	10853.58	10034.27	8887.23
180.0	12638.52	12691.19	12661.93	12533.18	12152.78	11620.23	10906.25	10081.09	8910.64
225.0	12673.63	12603.41	11621.46	11621.46	11291.39	10535.28	9648.08	8669.00	7404.91
270.0	12644.37	12656.08	12533.18	12223.01	11760.68	11105.23	10133.76	9232.51	8009.39
315.0	12585.85	11671.79	11671.79	11347.57	10591.46	9539.81	8587.65	7605.64	6636.51
360.0	12638.52	11675.88	11675.88	11375.08	10610.77	9765.12	8602.28	7632.56	6661.09
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5555.60	4780.18	4088.44	3481.56	2834.30	2407.09	2039.57	1718.28	1131.36
45.0	7061.32	5931.84	5130.08	4410.26	3608.50	3058.39	3058.39	2541.11	1763.34
90.0	6558.09	5489.47	4737.45	3894.15	3324.72	2830.79	2296.48	1941.25	1636.93
135.0	7921.61	6979.39	6078.15	5065.71	4351.73	3725.54	3175.43	3046.68	2535.84
180.0	7927.46	6932.58	5762.13	4931.11	4193.72	3444.63	3058.39	3058.39	2017.33
225.0	6412.95	5296.93	4545.50	3890.05	3306.58	2701.46	2283.02	1924.86	1147.86
270.0	7037.92	6107.41	5258.83	4340.03	3702.13	3152.02	3029.12	2527.06	1845.86
315.0	5524.00	4749.16	4077.91	3485.07	2848.93	2426.40	2053.61	1663.85	1125.97
360.0	5555.60	4780.18	4088.44	3481.56	2834.30	2407.09	2039.57	1718.28	1131.36
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1131.36	998.92	846.76	687.11	558.95	473.45	398.83	339.20	277.75
45.0	1486.53	1258.29	1062.83	869.12	740.37	630.35	516.23	438.98	360.56
90.0	1124.39	1124.39	955.26	813.76	665.81	566.15	481.76	409.77	337.56
135.0	1849.95	1501.16	1270.00	1035.32	883.16	752.66	642.64	525.59	447.17
180.0	1707.16	1445.56	1225.52	994.36	844.54	719.30	608.11	496.91	424.93
225.0	1147.86	1101.33	929.81	755.64	641.99	542.21	456.71	370.62	315.49
270.0	1559.68	1315.06	1059.90	889.60	746.81	600.50	506.86	406.79	343.00
315.0	1125.97	945.67	794.97	669.50	542.91	459.52	387.83	328.43	269.73
360.0	1131.36	998.92	846.76	687.11	558.95	473.45	398.83	339.20	277.75
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	238.01	205.88	179.72	154.09	137.64	124.30	113.53	103.00	96.27
45.0	305.55	305.55	251.59	187.74	165.09	147.01	132.14	116.81	106.80
90.0	287.87	247.43	208.16	182.36	160.82	139.52	126.06	114.94	103.12
135.0	380.45	324.27	300.28	300.28	200.38	176.39	152.33	136.77	124.30
180.0	361.14	308.47	296.77	243.69	188.38	160.76	142.39	125.53	115.00
225.0	269.38	221.16	191.25	161.76	143.67	128.63	116.75	104.70	97.21
270.0	301.45	301.45	200.03	173.75	153.09	136.36	119.09	110.61	102.53
315.0	232.04	200.73	176.09	155.44	135.19	122.49	109.26	101.01	93.87
360.0	238.01	205.88	179.72	154.09	137.64	124.30	113.53	103.00	96.27
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	90.83	85.44	82.22	79.82	77.31	75.67	73.86	72.33	71.10
45.0	98.73	92.23	85.50	81.46	78.54	75.26	73.39	71.75	69.99
90.0	95.74	90.07	85.85	81.05	78.36	76.31	74.21	72.04	70.23
135.0	111.72	103.35	95.22	90.53	86.44	83.39	79.94	77.78	75.85
180.0	105.05	98.14	90.12	85.56	81.64	78.36	75.49	73.74	71.81
225.0	90.83	85.38	80.23	77.25	74.79	72.80	71.05	69.99	69.17
270.0	94.28	86.38	81.87	77.60	75.26	73.33	71.34	70.11	69.41
315.0	86.91	82.58	79.30	75.90	73.91	72.10	70.52	68.82	67.42
360.0	90.83	85.44	82.22	79.82	77.31	75.67	73.86	72.33	71.10

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	69.93	68.47	67.48	66.31	65.14	63.09	61.45	59.63	57.76
45.0	68.76	67.65	67.18	66.77	66.36	65.84	65.02	64.02	62.62
90.0	68.24	66.48	64.90	62.91	61.74	60.75	59.69	58.35	57.18
135.0	73.91	71.40	69.58	67.71	65.37	63.56	62.21	60.28	58.93
180.0	70.11	68.82	68.06	67.48	67.48	67.42	67.13	66.48	65.55
225.0	68.76	68.47	67.65	66.95	66.13	63.97	61.45	59.11	57.06
270.0	68.41	67.77	67.13	66.07	64.78	63.15	61.27	58.87	55.48
315.0	65.95	64.73	63.09	61.80	60.28	58.93	57.41	55.30	53.67
360.0	69.93	68.47	67.48	66.31	65.14	63.09	61.45	59.63	57.76
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	55.42	53.61	51.50	49.80	48.28	46.41	45.00	43.60	42.37
45.0	59.75	57.06	54.66	51.97	50.10	48.22	46.00	44.36	42.96
90.0	56.06	54.78	52.79	50.10	47.99	46.17	44.18	42.66	41.08
135.0	57.70	55.83	54.43	52.79	51.15	49.74	48.16	46.64	44.77
180.0	63.44	60.45	57.24	54.31	52.26	49.98	48.11	46.53	44.54
225.0	54.89	52.26	50.56	48.87	46.94	45.53	43.72	42.37	41.08
270.0	53.20	51.44	49.28	47.87	46.17	44.71	43.48	42.19	40.61
315.0	52.14	50.21	48.81	47.46	46.06	44.83	43.19	42.08	40.79
360.0	55.42	53.61	51.50	49.80	48.28	46.41	45.00	43.60	42.37
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	40.91	39.80	38.74	37.75	36.64	35.82	35.11	34.35	33.65
45.0	41.32	40.15	39.15	38.04	36.87	35.99	35.23	34.47	33.59
90.0	39.85	38.45	37.40	36.28	35.41	34.35	33.53	32.89	32.19
135.0	43.31	41.96	40.67	39.03	37.57	35.93	34.76	33.71	32.54
180.0	43.07	41.43	40.26	39.03	37.69	36.75	35.82	34.94	34.06
225.0	39.56	38.39	37.28	36.28	35.05	34.18	33.36	32.66	31.84
270.0	39.39	38.16	37.04	35.82	34.88	34.00	33.24	32.30	31.60
315.0	39.44	38.39	37.28	36.11	35.17	34.12	33.36	32.60	31.89
360.0	40.91	39.80	38.74	37.75	36.64	35.82	35.11	34.35	33.65
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	32.71	32.01	31.37	30.78	30.20	29.61	29.09	28.56	27.92
45.0	32.89	32.07	31.19	30.49	29.73	29.14	28.68	28.15	27.51
90.0	31.37	30.72	30.20	29.55	28.91	28.32	27.62	27.10	26.63
135.0	31.72	31.02	30.49	29.85	29.38	28.91	28.44	28.03	27.74
180.0	33.42	32.71	32.13	31.31	30.72	30.26	29.55	29.14	28.50
225.0	31.19	30.61	29.96	29.38	28.91	28.38	27.92	27.51	26.92
270.0	30.72	30.14	29.61	29.03	28.62	28.15	27.74	27.10	26.63
315.0	31.02	30.26	29.73	29.20	28.50	28.03	27.56	27.04	26.63
360.0	32.71	32.01	31.37	30.78	30.20	29.61	29.09	28.56	27.92
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	27.45	27.15	26.45	25.63	24.23	22.41	21.13	19.78	18.26
45.0	27.10	26.57	26.16	25.57	24.87	23.12	21.65	20.19	18.55
90.0	26.16	25.98	25.57	24.81	23.70	22.00	20.89	19.25	17.85
135.0	27.39	26.92	26.51	26.39	25.69	24.35	22.82	21.48	20.01
180.0	28.03	27.51	27.04	26.74	25.87	24.11	22.59	21.01	19.55
225.0	26.45	25.93	25.52	24.70	23.06	21.36	20.25	18.67	17.15
270.0	26.16	25.98	25.75	25.11	24.23	22.30	20.95	19.55	18.08
315.0	26.39	25.87	25.28	24.58	22.53	21.01	19.90	18.55	17.15
360.0	27.45	27.15	26.45	25.63	24.23	22.41	21.13	19.78	18.26

Intensity data(cd)

C/γ(°)	90.0
0.0	17.21
45.0	17.09
90.0	16.85
135.0	18.49
180.0	17.85
225.0	16.27
270.0	16.80
315.0	16.33
360.0	17.21