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NT

Client: NT

LumCAT: 62-0085

Luminaire: 92.70.429.00

Report No: 2024827-B016

Ballast type: AC

Test No: 2024827-C016

Voltage(V): 34.220

LampCAT: CREE CXA1820 LES12

Current(A): 0.361

Lamp flux(lm): 2158.5

Power (W): 12.353

Number of Lamps: 1

PF: 0.000

Length(mm): 62

Width(mm): 62

Phm Type: C

Height(mm): 32

Photometric Results

Lumens(lm): 2102.15, Efficiency(%): 97.39% , Luminous Efficacy(lm/W): 170.17

Central intensity(cd): 10412.970, Maximum intensity(cd): 10412.970

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=23.2

[C90/270]Total=23.2

Field angle(10%Imax): [C0/180]Total=40.4

[C90/270]Total=40.4

Maximum s/h(1/2): C0_180=0.39 C90_270=0.39

Maximum s/h(1/4): C0_180=0.39 C90_270=0.39

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 97.39%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 95.875%

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	10412.967	0.000	0	0.00%	0.00%
1.0	10357.224	9.938	9.938	0.46%	0.47%
2.0	10211.357	29.522	39.46	1.37%	1.88%
3.0	9965.709	48.257	87.717	2.24%	4.17%
4.0	9628.912	65.589	153.306	3.04%	7.29%
5.0	9228.325	81.123	234.429	3.76%	11.15%
6.0	8741.638	94.437	328.866	4.38%	15.64%
7.0	8219.178	105.275	434.142	4.88%	20.65%
8.0	7598.839	113.207	547.348	5.24%	26.04%
9.0	6958.896	117.983	665.331	5.47%	31.65%
10.0	6276.450	119.775	785.106	5.55%	37.35%
11.0	5607.392	118.744	903.85	5.50%	43.00%
12.0	4936.066	115.255	1019.105	5.34%	48.48%
13.0	4286.539	109.449	1128.554	5.07%	53.69%
14.0	3639.939	101.458	1230.012	4.70%	58.51%
15.0	3095.826	92.472	1322.484	4.28%	62.91%
16.0	2558.223	82.848	1405.332	3.84%	66.85%
17.0	2064.293	71.985	1477.317	3.33%	70.28%
18.0	1538.191	59.397	1536.714	2.75%	73.10%
19.0	1351.285	50.271	1586.985	2.33%	75.49%
20.0	1092.615	44.730	1631.715	2.07%	77.62%
21.0	870.881	37.703	1669.418	1.75%	79.41%
22.0	700.214	31.572	1700.99	1.46%	80.92%
23.0	573.638	26.729	1727.719	1.24%	82.19%
24.0	475.576	22.940	1750.658	1.06%	83.28%
25.0	396.563	19.831	1770.489	0.92%	84.22%
26.0	338.523	17.352	1787.84	0.80%	85.05%
27.0	290.096	15.379	1803.22	0.71%	85.78%
28.0	262.525	13.991	1817.211	0.65%	86.45%
29.0	238.625	13.112	1830.322	0.61%	87.07%
30.0	193.951	11.679	1842.002	0.54%	87.62%
31.0	167.074	10.047	1852.049	0.47%	88.10%
32.0	149.810	9.078	1861.127	0.42%	88.53%
33.0	135.019	8.391	1869.518	0.39%	88.93%
34.0	121.610	7.766	1877.285	0.36%	89.30%
35.0	110.922	7.222	1884.506	0.33%	89.65%
36.0	101.939	6.778	1891.284	0.31%	89.97%
37.0	94.009	6.391	1897.674	0.30%	90.27%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	87.820	6.069	1903.744	0.28%	90.56%
39.0	82.575	5.816	1909.56	0.27%	90.84%
40.0	78.662	5.623	1915.183	0.26%	91.11%
41.0	75.158	5.477	1920.661	0.25%	91.37%
42.0	72.378	5.360	1926.021	0.25%	91.62%
43.0	70.242	5.283	1931.304	0.24%	91.87%
44.0	68.566	5.239	1936.543	0.24%	92.12%
45.0	67.008	5.210	1941.753	0.24%	92.37%
46.0	65.816	5.194	1946.948	0.24%	92.62%
47.0	64.719	5.192	1952.139	0.24%	92.86%
48.0	63.936	5.201	1957.34	0.24%	93.11%
49.0	63.153	5.219	1962.559	0.24%	93.36%
50.0	62.048	5.220	1967.779	0.24%	93.61%
51.0	60.805	5.198	1972.977	0.24%	93.86%
52.0	59.108	5.146	1978.122	0.24%	94.10%
53.0	56.986	5.050	1983.173	0.23%	94.34%
54.0	54.858	4.930	1988.102	0.23%	94.57%
55.0	52.948	4.812	1992.914	0.22%	94.80%
56.0	51.156	4.704	1997.619	0.22%	95.03%
57.0	49.532	4.604	2002.222	0.21%	95.25%
58.0	47.930	4.507	2006.729	0.21%	95.46%
59.0	46.379	4.409	2011.138	0.20%	95.67%
60.0	44.792	4.307	2015.445	0.20%	95.88%
61.0	43.314	4.205	2019.65	0.19%	96.08%
62.0	41.807	4.102	2023.752	0.19%	96.27%
63.0	40.300	3.993	2027.745	0.19%	96.46%
64.0	38.844	3.884	2031.629	0.18%	96.65%
65.0	37.535	3.780	2035.409	0.18%	96.82%
66.0	36.182	3.678	2039.087	0.17%	97.00%
67.0	34.814	3.570	2042.656	0.17%	97.17%
68.0	33.511	3.461	2046.117	0.16%	97.33%
69.0	32.319	3.358	2049.476	0.16%	97.49%
70.0	31.097	3.257	2052.733	0.15%	97.65%
71.0	30.059	3.161	2055.894	0.15%	97.80%
72.0	29.005	3.071	2058.965	0.14%	97.95%
73.0	28.171	2.990	2061.955	0.14%	98.09%
74.0	27.271	2.915	2064.869	0.14%	98.23%
75.0	26.562	2.844	2067.714	0.13%	98.36%

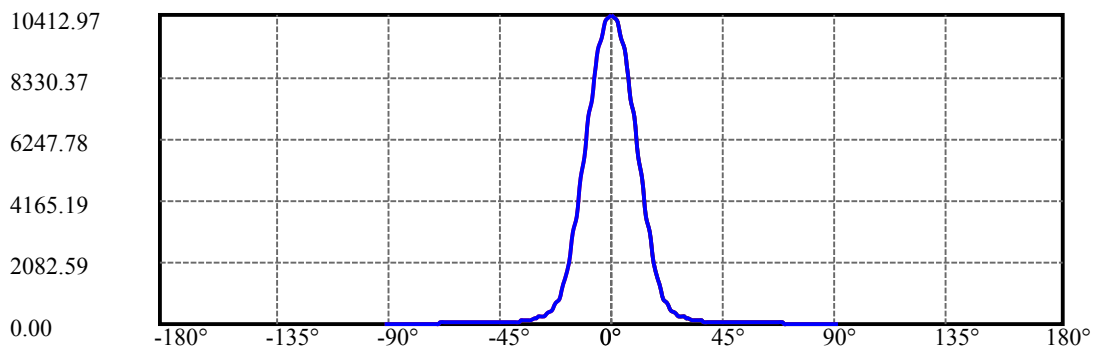
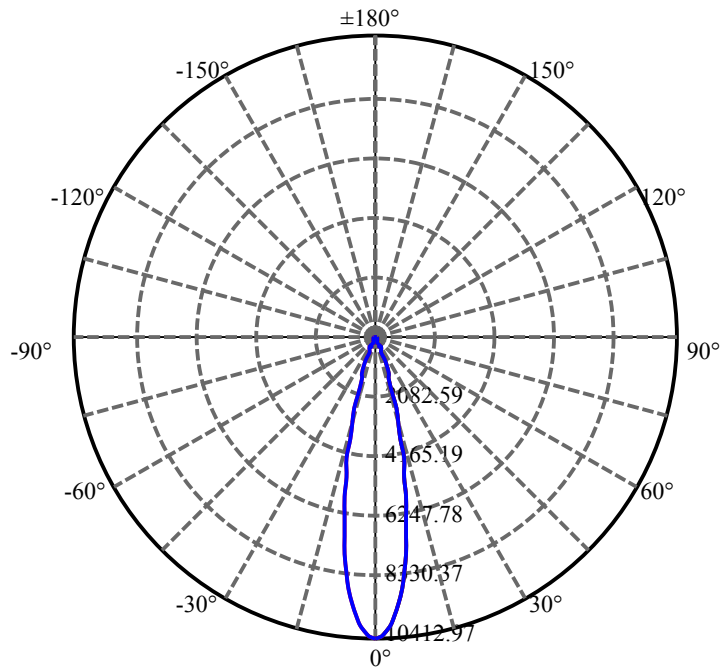
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	25.816	2.780	2070.494	0.13%	98.49%
77.0	25.092	2.714	2073.208	0.13%	98.62%
78.0	24.382	2.648	2075.857	0.12%	98.75%
79.0	23.731	2.585	2078.442	0.12%	98.87%
80.0	23.094	2.524	2080.966	0.12%	98.99%
81.0	22.517	2.467	2083.433	0.11%	99.11%
82.0	21.983	2.413	2085.846	0.11%	99.22%
83.0	21.419	2.359	2088.205	0.11%	99.34%
84.0	20.688	2.294	2090.499	0.11%	99.45%
85.0	19.664	2.202	2092.702	0.10%	99.55%
86.0	18.632	2.093	2094.795	0.10%	99.65%
87.0	17.725	1.990	2096.785	0.09%	99.74%
88.0	16.708	1.886	2098.671	0.09%	99.83%
89.0	15.816	1.783	2100.453	0.08%	99.92%
90.0	15.165	1.699	2102.152	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1842.00	85.34%	87.62%
0-40	1915.18	88.73%	91.11%
0-60	2015.45	93.37%	95.88%
0-90	2100.45	97.31%	99.92%
0-120	2100.45	97.31%	99.92%
0-180	2102.15	97.39%	100.00%
60-90	85.01	3.94%	4.04%
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%
0-21.39	1681.72	77.91%	80.00%

ZONAL LUMEN SUMMARY

0-10	785.11
10-20	846.61
20-30	210.29
30-40	73.18
40-50	52.60
50-60	47.67
60-70	37.29
70-80	28.23
80-90	19.49
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: —————

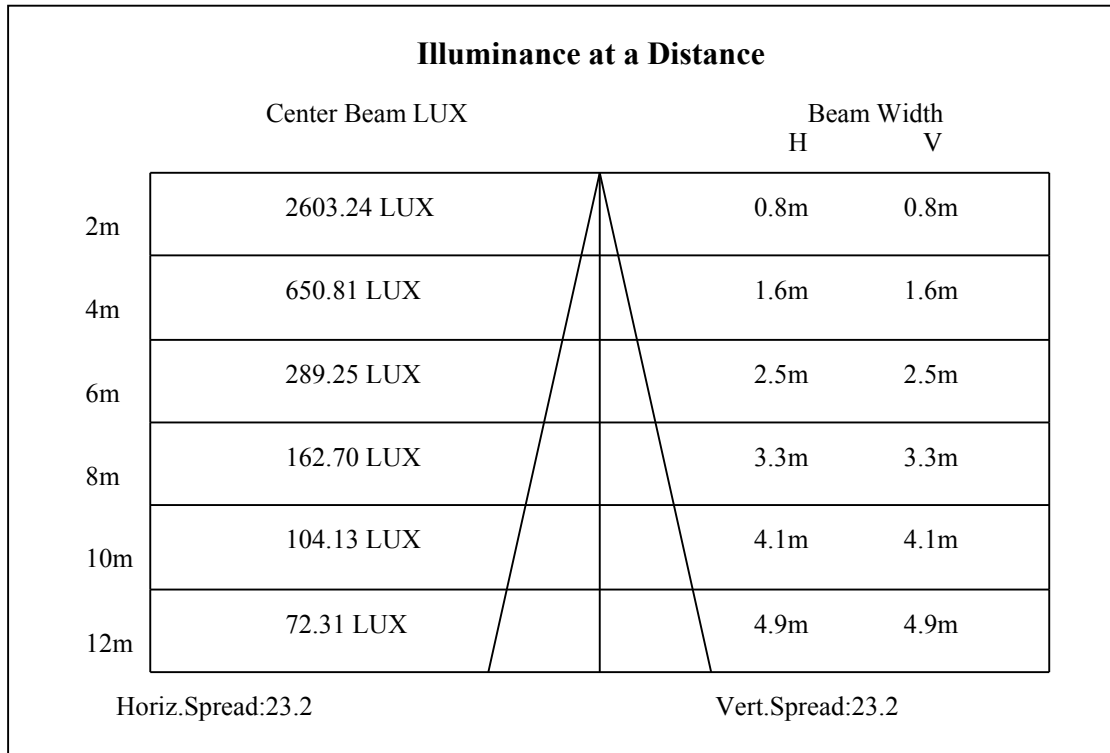
C90/C270: —————

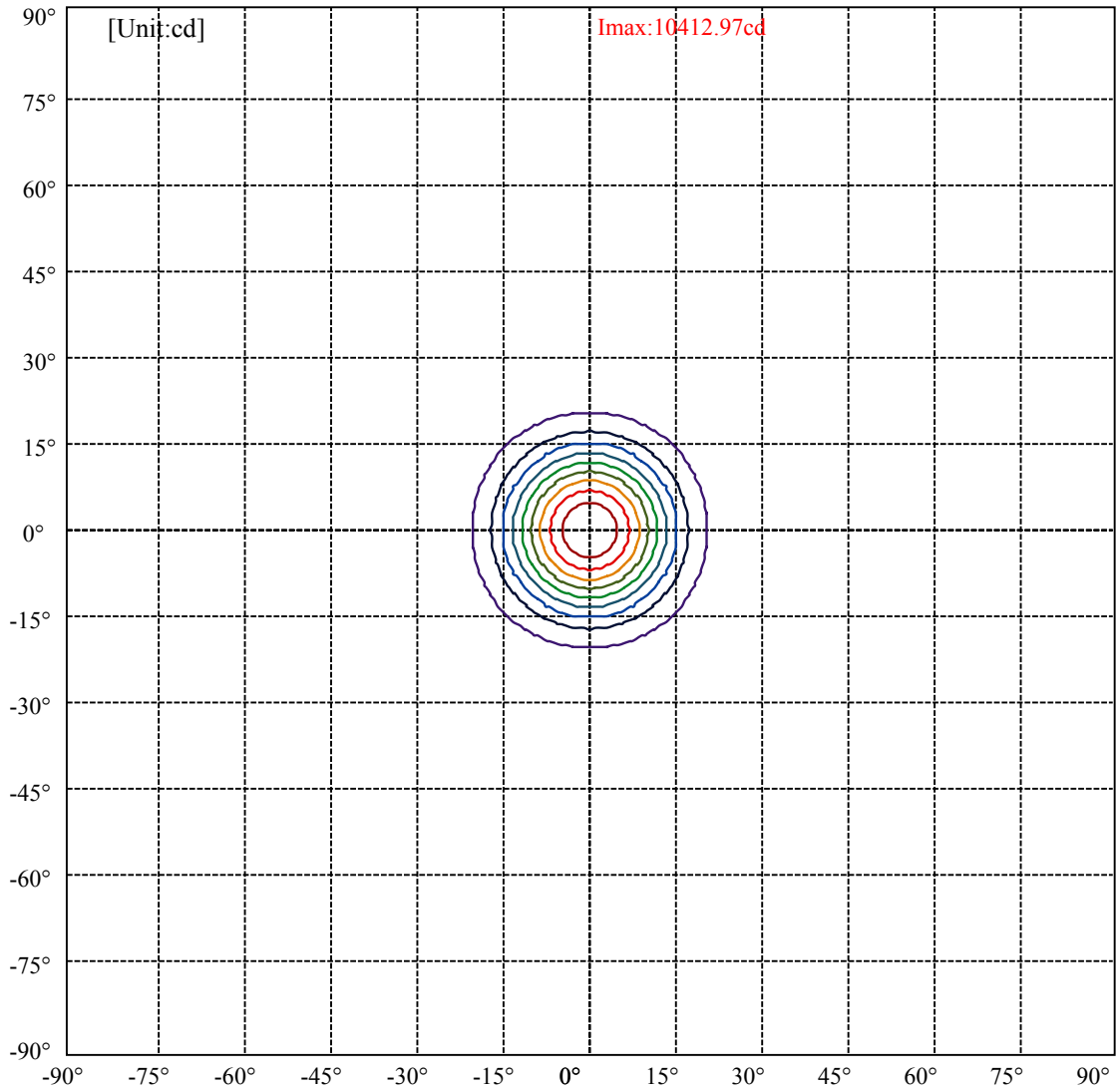
Field angle(10%Imax):C0/180Left:20.2 Right:20.2

:C90/270Left:20.2 Right:20.2

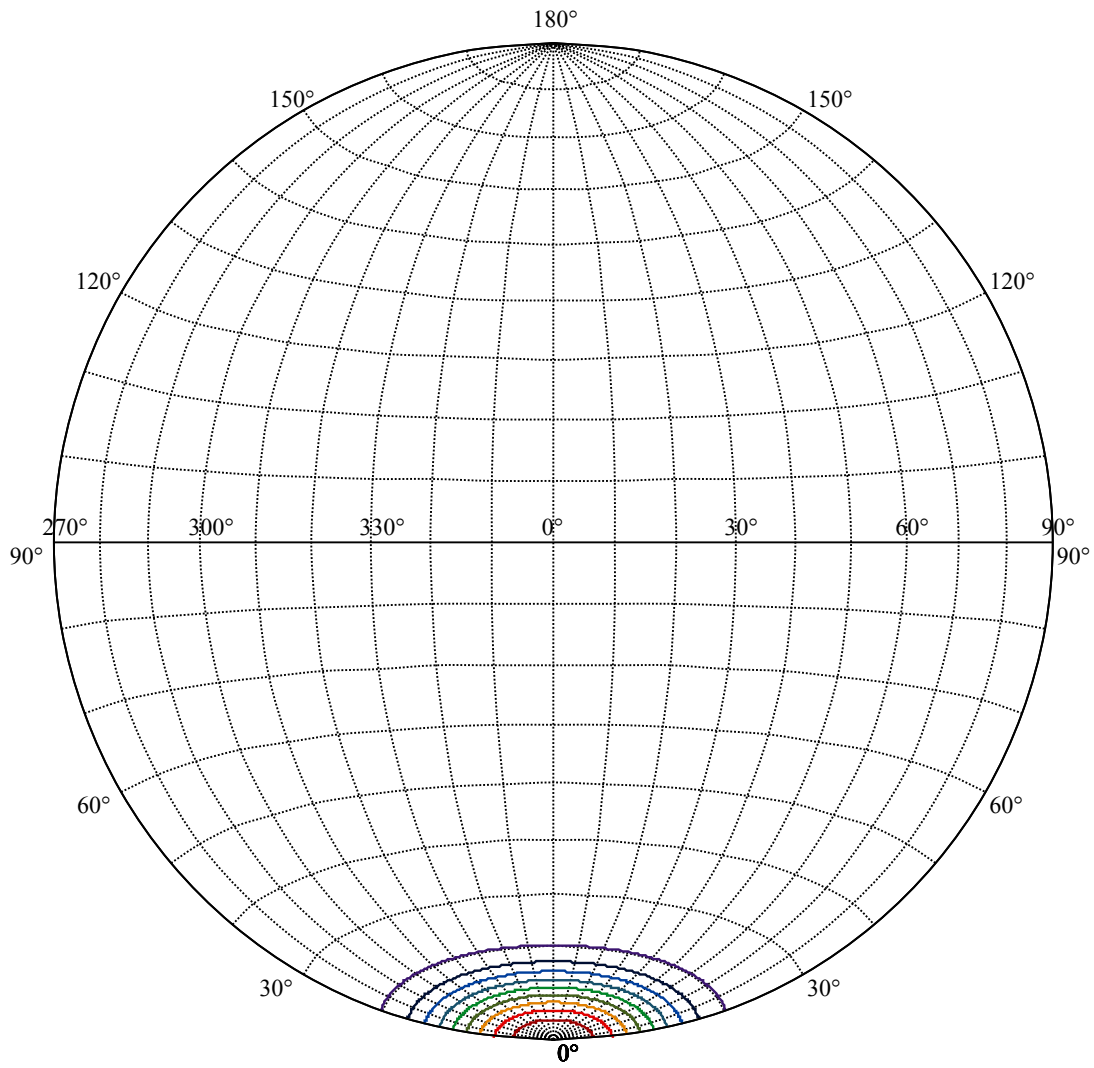
Beam Angle(50%Imax):C0/180Left:11.6 Right:11.6

:C90/270Left:11.6 Right:11.6





(10%Imax) 1041.3	—
(20%Imax) 2082.59	—
(30%Imax) 3123.89	—
(40%Imax) 4165.19	—
(50%Imax) 5206.48	—
(60%Imax) 6247.78	—
(70%Imax) 7289.08	—
(80%Imax) 8330.37	—
(90%Imax) 9371.67	—



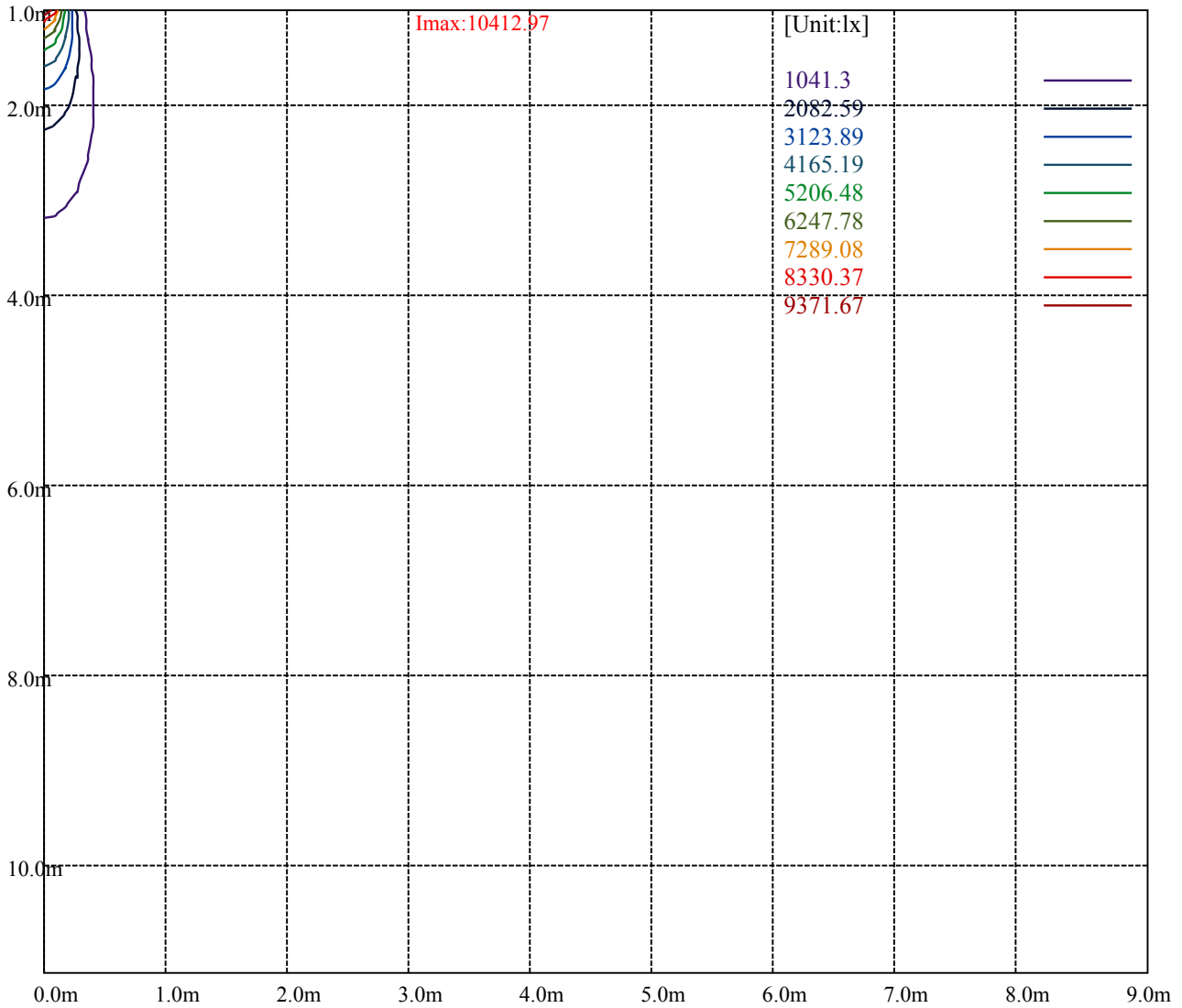
House

[Unit:cd]

Road

Imax:10412.97

(10%Imax) 1041.3	—
(20%Imax) 2082.59	—
(30%Imax) 3123.89	—
(40%Imax) 4165.19	—
(50%Imax) 5206.48	—
(60%Imax) 6247.78	—
(70%Imax) 7289.08	—
(80%Imax) 8330.37	—
(90%Imax) 9371.67	—



Luminance Table

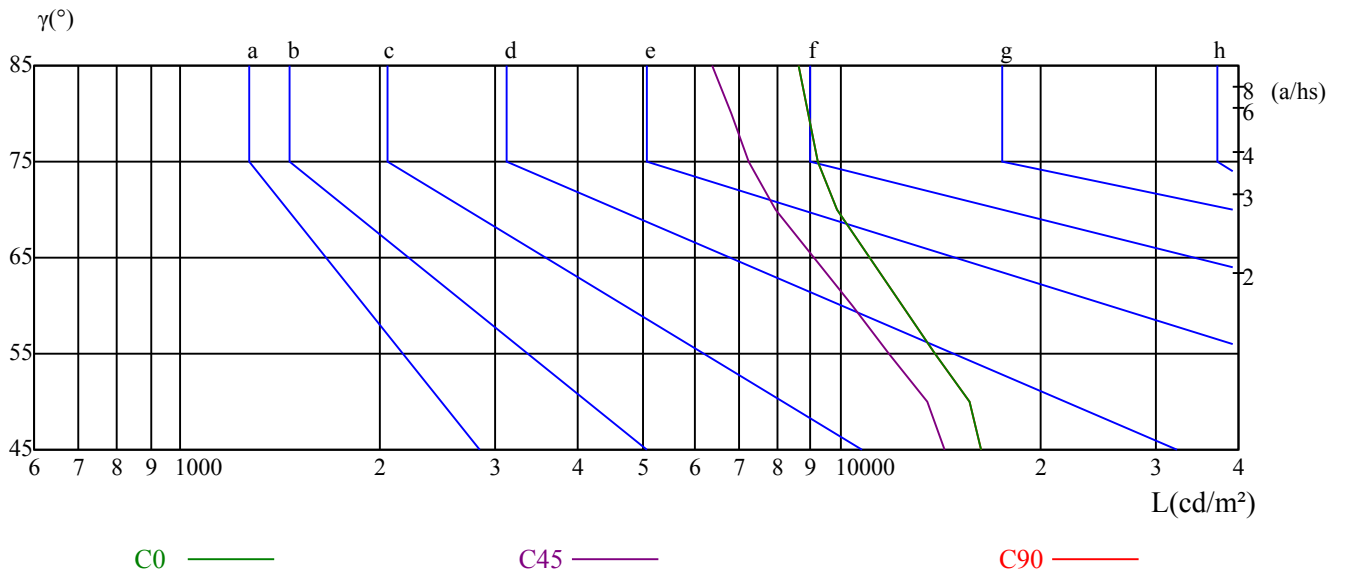
γ	45	50	55	60	65	70	75	80	85
C0	16347	15641	13917	12396	11057	9872	9219	8914	8622
C45	14345	13528	11852	10383	9093	7953	7252	6818	6371
C90	16347	15641	13917	12396	11057	9872	9219	8914	8622

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
23105	23105	23105	26698	26698	26698	58693	58693	58693

Glare Table

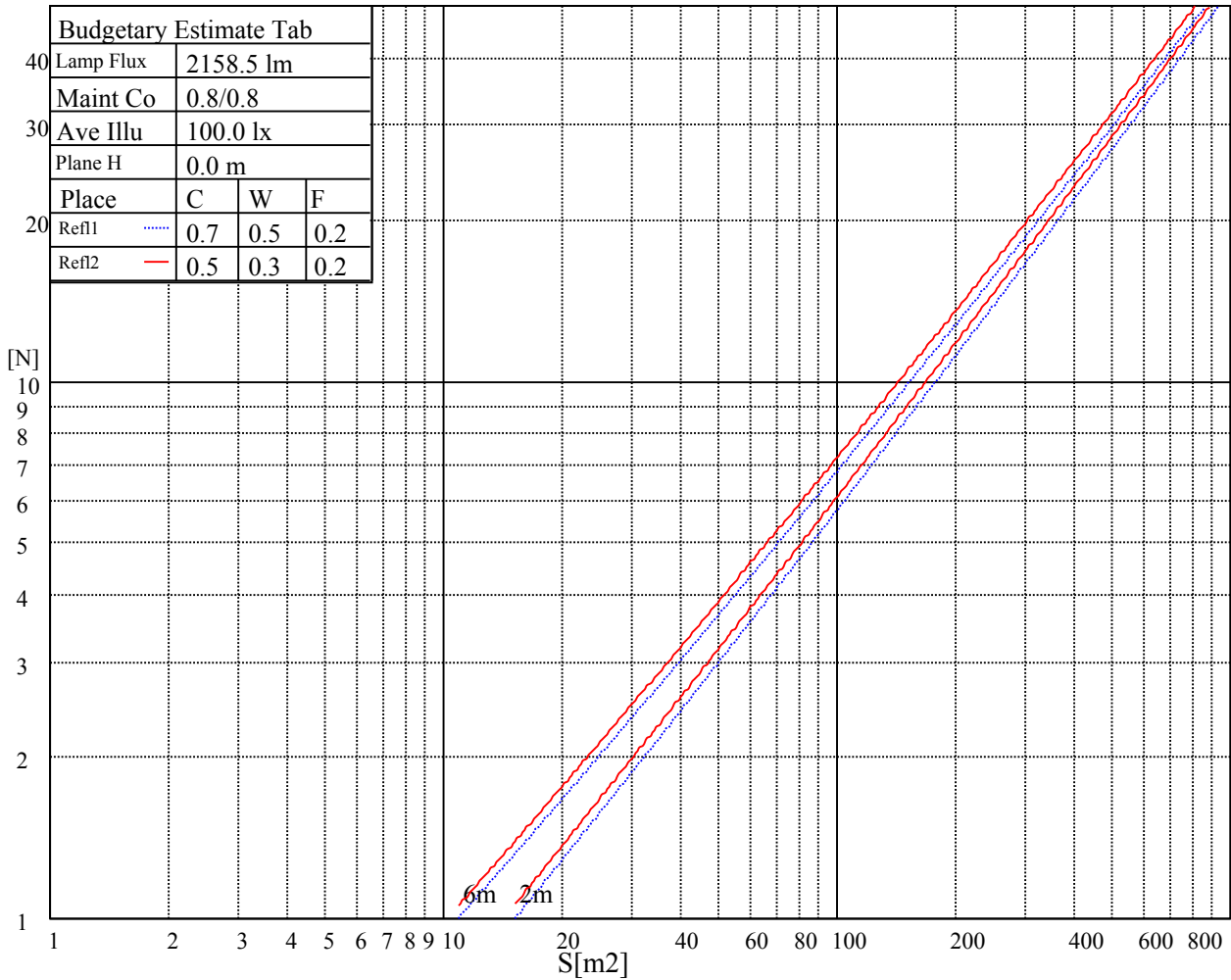
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

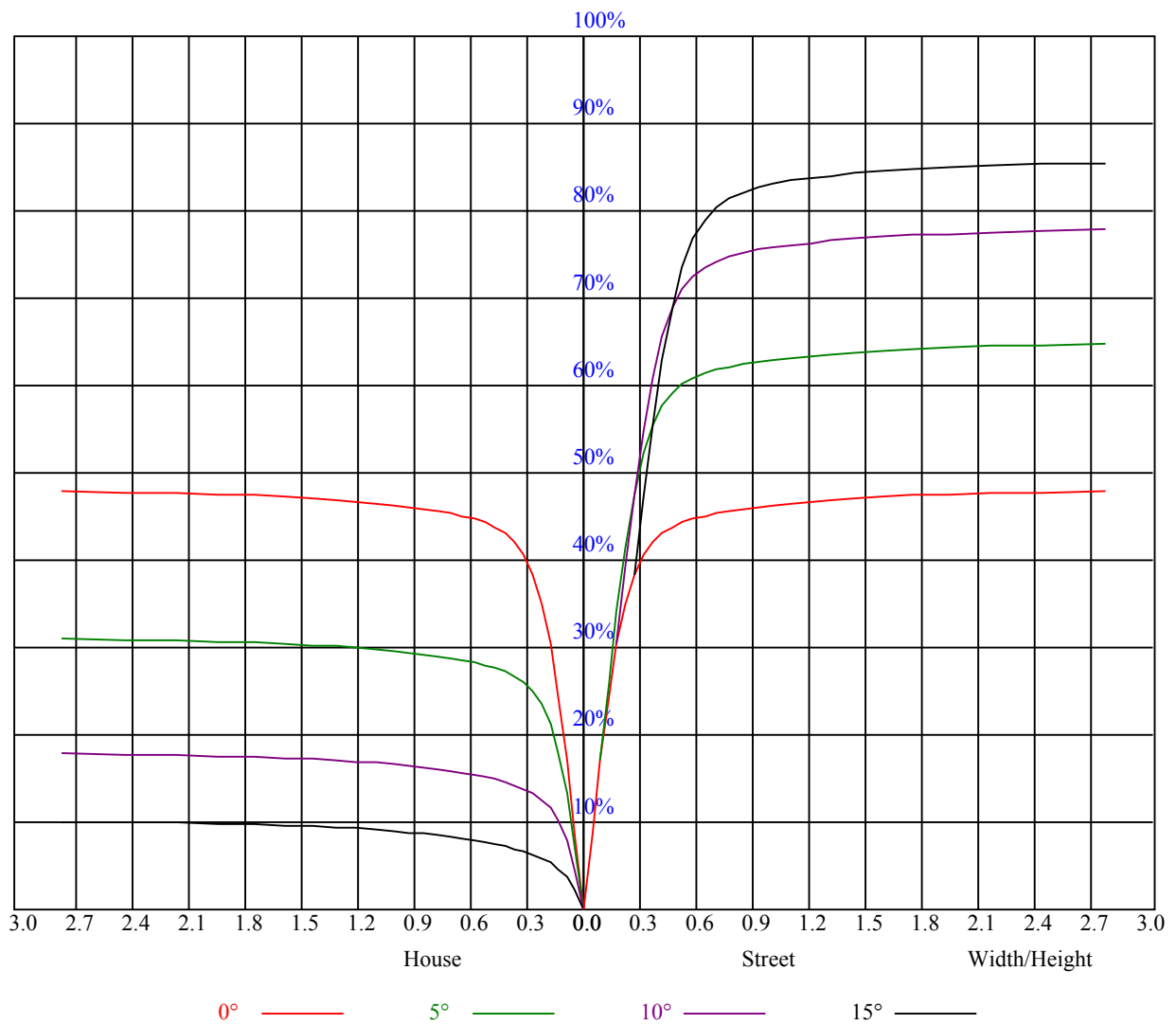


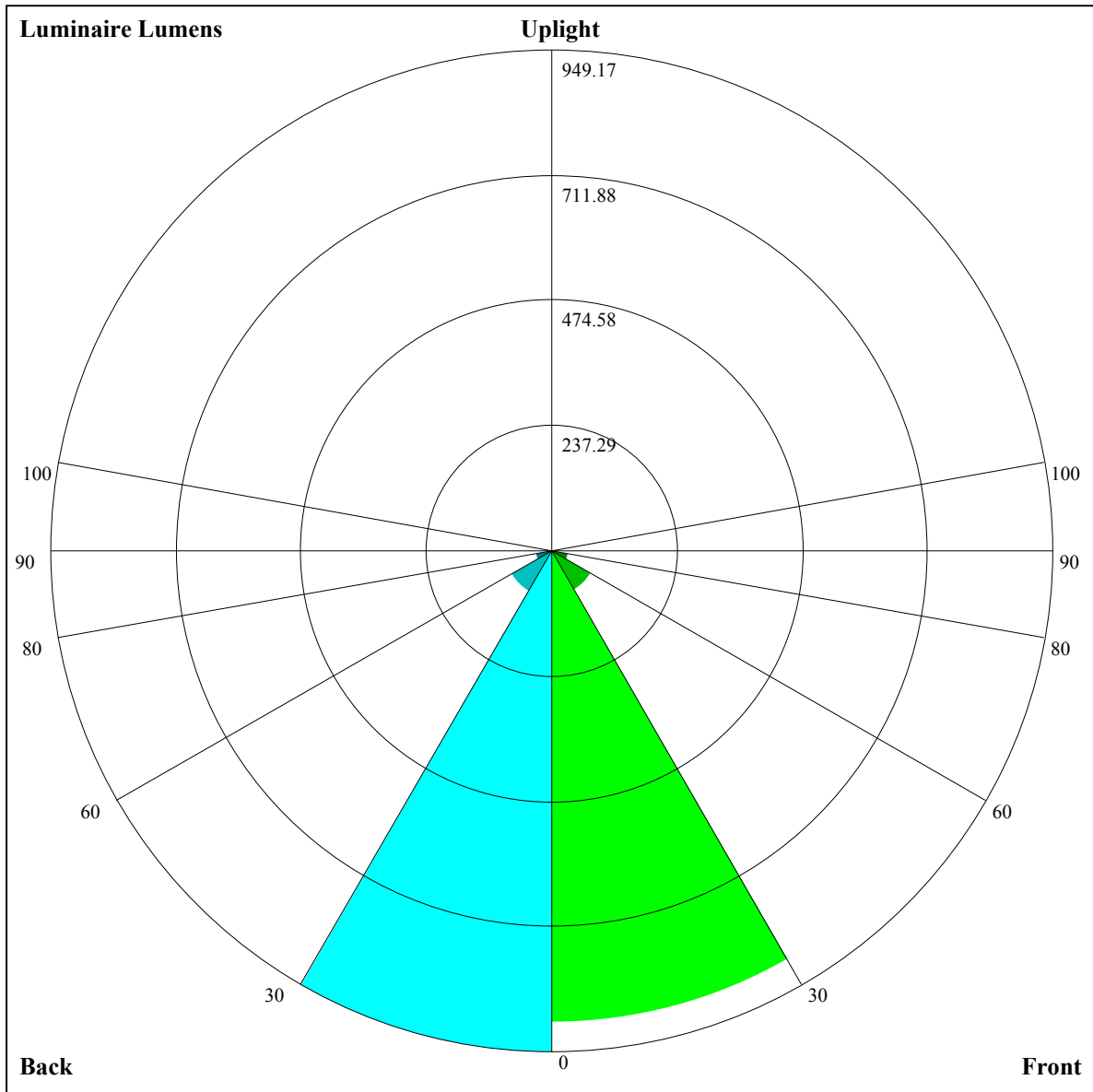
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.06	16.08	15.42	16.39	16.70	15.08	16.10	15.45	16.41	16.73
	3H	16.61	17.53	17.00	17.86	18.21	16.53	17.44	16.92	17.78	18.13
	4H	17.36	18.21	17.76	18.56	18.93	17.22	18.07	17.62	18.43	18.79
	6H	18.15	18.93	18.57	19.30	19.70	17.98	18.75	18.39	19.13	19.53
	8H	18.53	19.28	18.95	19.66	20.07	18.35	19.09	18.77	19.48	19.88
	12H	18.90	19.60	19.32	20.00	20.42	18.71	19.41	19.13	19.81	20.23
4H	2H	15.60	16.45	16.00	16.81	17.17	15.62	16.47	16.02	16.82	17.19
	3H	17.32	18.03	17.74	18.43	18.85	17.24	17.95	17.66	18.35	18.76
	4H	18.25	18.88	18.69	19.30	19.75	18.13	18.75	18.56	19.17	19.62
	6H	19.17	19.72	19.64	20.17	20.62	19.00	19.55	19.47	20.01	20.46
	8H	19.66	20.17	20.14	20.63	21.10	19.48	20.00	19.97	20.45	20.93
	12H	20.14	20.61	20.63	21.06	21.58	19.96	20.43	20.45	20.88	21.40
8H	4H	18.53	19.04	19.01	19.50	19.97	18.42	18.93	18.90	19.39	19.86
	6H	19.64	20.06	20.14	20.54	21.05	19.49	19.92	20.00	20.39	20.91
	8H	20.31	20.67	20.84	21.19	21.69	20.16	20.52	20.69	21.04	21.53
	12H	20.95	21.23	21.49	21.74	22.26	20.79	21.07	21.33	21.58	22.10
12H	4H	18.57	19.05	19.06	19.50	20.02	18.47	18.94	18.96	19.39	19.91
	6H	19.79	20.15	20.32	20.67	21.17	19.66	20.01	20.19	20.54	21.03
	8H	20.50	20.78	21.04	21.29	21.82	20.36	20.64	20.90	21.15	21.67
Variation with the observer position at spacings:											
S = 1.0H	0.2/-0.8					0.2/-0.8					
S = 1.5H	0.6/-0.7					0.6/-0.7					
S = 2.0H	0.7/-0.8					0.7/-0.8					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	4.1					4.1					

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	1.16	1.16	1.16	1.13	1.13	1.13	1.08	1.08	1.08	1.04	1.04	1.04	0.99	0.99	0.99	0.97
1	1.09	1.06	1.04	1.07	1.05	1.03	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.92
2	1.03	0.99	0.97	1.01	0.98	0.95	0.98	0.96	0.93	0.95	0.93	0.91	0.93	0.91	0.90	0.88
3	0.98	0.94	0.91	0.97	0.93	0.90	0.94	0.91	0.89	0.92	0.89	0.87	0.90	0.88	0.86	0.85
4	0.94	0.89	0.86	0.93	0.89	0.86	0.91	0.87	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.81
5	0.90	0.86	0.82	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.81	0.85	0.82	0.80	0.79
6	0.87	0.82	0.79	0.86	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.80	0.77	0.76
7	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
8	0.81	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
9	0.79	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.76	0.74	0.71	0.70
10	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.75	0.72	0.70	0.69





Luminaire Lumens:

FL=894.56,FM=85.91,FH=32.61,FVH=10.54

BL=949.17,BM=88.12,BH=32.77,BVH=10.57

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	10429.94	10302.94	10091.09	9722.99	9339.66	8906.60	8313.76	7771.85	7183.70
45.0	10427.01	10400.68	10313.48	10132.64	9779.75	9422.77	9004.92	8525.62	7867.24
90.0	10406.53	10307.63	10064.76	9792.04	9445.00	9022.47	8441.93	7902.35	7319.47
135.0	10388.39	10400.68	10329.86	10124.45	9869.29	9554.44	9158.83	8705.28	8074.41
180.0	10429.94	10455.69	10365.56	10204.63	9895.04	9563.81	9166.44	8722.84	8067.39
225.0	10427.01	10321.67	10129.72	9865.78	9533.37	9038.27	8560.73	7881.87	7304.25
270.0	10406.53	10411.21	10351.52	10132.64	9867.54	9436.23	9025.98	8544.93	7872.51
315.0	10388.39	10257.30	10044.86	9750.49	9301.62	8882.02	8260.51	7698.69	7101.76
360.0	10429.94	10302.94	10091.09	9722.99	9339.66	8906.60	8313.76	7771.85	7183.70

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6407.69	5764.52	5117.85	4475.86	3737.89	3196.56	2697.36	2239.71	1484.77
45.0	7279.67	6513.61	5868.11	5237.82	4468.84	3870.74	3319.45	2682.73	2225.67
90.0	6555.16	5906.15	5284.64	4498.10	3915.21	3368.61	2744.76	2296.48	1903.21
135.0	7502.06	6905.71	6149.02	5529.26	4900.15	4146.96	3582.22	2925.01	2453.32
180.0	7489.18	6880.55	6088.15	5446.16	4804.17	4046.89	3480.39	2955.44	2374.32
225.0	6671.04	5882.15	5246.02	4618.07	4015.87	3317.11	2807.38	2338.62	1911.99
270.0	7286.69	6672.21	6048.36	5244.84	4594.66	3996.56	3451.13	2789.24	2320.48
315.0	6479.67	5686.69	5056.99	4438.40	3855.52	3176.07	2683.90	2238.54	1840.59
360.0	6407.69	5764.52	5117.85	4475.86	3737.89	3196.56	2697.36	2239.71	1484.77

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1152.07	1152.07	930.57	717.84	589.97	468.53	396.02	340.07	284.30
45.0	1831.23	1497.65	1153.54	942.27	773.14	642.05	516.23	436.05	372.85
90.0	1161.96	1161.96	1002.49	824.52	653.11	546.83	463.26	397.37	331.76
135.0	2038.40	1682.58	1379.43	1074.53	885.50	731.00	608.69	491.06	419.08
180.0	1950.03	1572.56	1261.22	971.53	788.94	645.56	534.95	430.78	368.17
225.0	1111.99	1111.99	940.98	758.69	589.38	489.77	396.14	340.02	295.13
270.0	1915.50	1487.12	1199.18	967.44	740.37	602.26	496.91	399.77	343.59
315.0	1144.35	1144.35	873.51	710.23	581.30	463.09	392.39	337.38	293.31
360.0	1152.07	1152.07	930.57	717.84	589.97	468.53	396.02	340.07	284.30

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	247.90	216.71	192.13	166.50	149.88	135.42	123.37	110.72	102.18
45.0	311.40	300.86	300.86	202.20	179.96	161.05	141.16	128.16	116.58
90.0	287.81	250.94	214.37	190.08	165.44	148.53	133.96	121.67	109.26
135.0	359.39	299.11	299.11	252.76	193.83	173.11	155.61	137.24	124.59
180.0	319.01	297.35	297.35	202.49	174.51	156.49	141.33	125.76	115.17
225.0	248.60	218.64	193.07	171.94	149.99	135.95	123.19	112.42	101.19
270.0	297.94	297.94	218.46	193.07	172.00	150.70	136.06	123.66	113.53
315.0	248.72	218.64	193.65	172.58	150.99	137.24	125.47	113.24	104.87
360.0	247.90	216.71	192.13	166.50	149.88	135.42	123.37	110.72	102.18

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	94.98	88.08	83.45	79.65	76.02	73.62	71.22	69.76	68.53
45.0	106.80	96.62	89.95	84.33	80.12	75.85	73.27	71.16	69.17
90.0	100.83	93.69	87.84	81.70	78.07	75.26	72.68	70.29	68.76
135.0	114.06	103.29	96.50	90.59	85.91	81.29	78.24	75.90	74.03
180.0	105.28	97.67	89.31	84.51	80.47	76.25	72.86	70.58	68.82
225.0	93.58	87.61	81.52	77.54	74.15	70.87	68.59	66.36	65.08
270.0	102.59	95.22	89.07	82.69	78.60	75.08	71.51	69.35	67.48
315.0	97.38	89.89	84.92	79.59	75.96	73.04	70.64	68.53	66.66
360.0	94.98	88.08	83.45	79.65	76.02	73.62	71.22	69.76	68.53

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	67.65	66.54	65.55	64.43	63.03	60.75	58.99	57.35	55.83
45.0	67.89	66.48	65.72	65.25	64.90	64.43	63.67	62.15	59.75
90.0	66.95	65.72	64.61	63.67	63.26	62.79	61.86	59.99	57.41
135.0	71.69	70.17	68.35	67.07	65.55	63.44	61.86	60.04	58.41
180.0	67.01	65.84	64.55	63.79	63.26	62.79	62.15	61.16	59.52
225.0	64.02	63.38	62.97	63.38	63.79	63.50	62.21	59.52	55.89
270.0	65.55	64.02	62.85	61.68	60.34	59.11	58.00	56.77	54.84
315.0	65.31	64.37	63.15	62.21	61.10	59.58	57.70	55.89	54.25
360.0	67.65	66.54	65.55	64.43	63.03	60.75	58.99	57.35	55.83
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	53.96	52.38	50.50	48.98	47.52	45.82	44.42	43.07	41.73
45.0	57.12	54.84	52.90	50.80	49.28	47.75	45.82	44.30	42.78
90.0	55.07	52.96	50.68	49.04	47.46	45.53	44.01	42.55	40.73
135.0	56.65	55.13	53.61	52.03	50.39	48.63	47.05	45.35	44.13
180.0	57.00	54.89	53.08	51.38	49.22	47.75	46.23	44.65	42.84
225.0	53.37	50.97	49.39	47.64	46.23	44.89	43.13	41.67	40.32
270.0	53.37	51.56	50.10	48.81	47.23	45.94	44.71	43.31	41.73
315.0	52.32	50.86	48.98	47.58	46.12	44.71	42.96	41.61	40.20
360.0	53.96	52.38	50.50	48.98	47.52	45.82	44.42	43.07	41.73
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	40.09	38.92	37.75	36.58	35.11	34.00	32.95	31.84	30.96
45.0	40.97	39.62	38.33	36.99	35.52	34.24	33.12	31.72	30.72
90.0	39.44	37.69	36.40	35.11	33.88	32.30	31.13	30.08	29.09
135.0	42.49	41.08	39.74	38.10	36.69	35.17	33.77	31.95	30.72
180.0	41.32	39.91	38.22	36.93	35.35	34.18	33.01	31.84	30.61
225.0	38.92	37.28	35.99	34.82	33.65	32.25	31.08	30.14	28.97
270.0	40.32	39.03	37.81	36.11	34.94	33.71	32.30	31.25	30.26
315.0	38.86	37.22	36.05	34.82	33.36	32.25	31.19	29.96	29.14
360.0	40.09	38.92	37.75	36.58	35.11	34.00	32.95	31.84	30.96
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	29.85	28.97	28.15	27.39	26.45	25.75	25.11	24.40	23.58
45.0	29.61	28.73	27.74	27.10	26.39	25.75	25.05	24.29	23.58
90.0	27.97	27.21	26.57	25.98	25.16	24.52	23.70	23.12	22.53
135.0	29.73	28.85	27.80	27.10	26.34	25.57	24.99	24.40	23.82
180.0	29.55	28.68	27.80	26.86	26.22	25.63	24.81	24.11	23.47
225.0	28.09	27.27	26.34	25.69	25.05	24.17	23.58	23.00	22.41
270.0	29.09	28.32	27.21	26.45	25.69	24.93	24.05	23.41	22.82
315.0	28.15	27.33	26.57	25.93	25.22	24.40	23.76	23.12	22.53
360.0	29.85	28.97	28.15	27.39	26.45	25.75	25.11	24.40	23.58
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	23.00	22.59	21.83	21.01	19.96	18.90	17.97	16.91	16.04
45.0	23.06	22.36	21.89	21.19	20.37	19.20	18.32	17.21	16.27
90.0	22.00	21.71	21.19	20.19	19.20	18.26	17.44	16.33	15.45
135.0	23.35	22.65	22.18	22.00	20.95	19.96	19.08	18.08	17.09
180.0	22.71	22.12	21.71	21.19	20.07	18.84	17.97	16.91	16.04
225.0	21.71	21.19	20.66	19.78	18.67	17.79	16.80	15.92	15.04
270.0	22.24	21.77	21.30	20.37	19.31	18.26	17.38	16.33	15.45
315.0	22.06	21.48	20.60	19.78	18.79	17.85	16.85	15.98	15.16
360.0	23.00	22.59	21.83	21.01	19.96	18.90	17.97	16.91	16.04

Intensity data(cd)

C/γ(°)	90.0
0.0	15.68
45.0	15.39
90.0	14.86
135.0	16.27
180.0	15.10
225.0	14.63
270.0	14.69
315.0	14.69
360.0	15.68