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Nata

Client:

LumCAT: 2-2752-L

Luminaire: 92.70.412.00

Report No: 2024826-B032

Ballast type: AC

Test No: 2024826-C032

LampCAT: Fortimo_SLM_C_1210

Lamp flux(lm): 4003.0

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 34.890

Current(A): 0.715

Power (W): 24.960

PF: 0.000

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 3741.08, Efficiency(%): 93.46% , Luminous Efficacy(lm/W): 149.88

Central intensity(cd): 14255.580, Maximum intensity(cd): 14255.580

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.2

[C90/270]Total=24.2

Field angle(10%Imax): [C0/180]Total=55.0

[C90/270]Total=55.0

Maximum s/h(1/2): C0_180=0.41 C90_270=0.41

Maximum s/h(1/4): C0_180=0.43 C90_270=0.43

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.46%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.287%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14255.581	0.000	0	0.00%	0.00%
1.0	14175.489	13.604	13.604	0.34%	0.36%
2.0	13959.588	40.382	53.986	1.01%	1.44%
3.0	13600.218	65.914	119.9	1.65%	3.20%
4.0	13109.915	89.407	209.307	2.23%	5.59%
5.0	12273.685	109.199	318.506	2.73%	8.51%
6.0	11640.472	125.675	444.181	3.14%	11.87%
7.0	11120.563	141.277	585.459	3.53%	15.65%
8.0	10414.642	154.123	739.582	3.85%	19.77%
9.0	9527.360	161.619	901.201	4.04%	24.09%
10.0	8744.403	165.353	1066.554	4.13%	28.51%
11.0	8028.035	167.591	1234.145	4.19%	32.99%
12.0	7209.630	166.569	1400.715	4.16%	37.44%
13.0	6435.529	161.934	1562.648	4.05%	41.77%
14.0	5732.598	155.751	1718.399	3.89%	45.93%
15.0	5070.271	148.307	1866.706	3.70%	49.90%
16.0	4476.472	139.886	2006.592	3.49%	53.64%
17.0	3947.871	131.190	2137.782	3.28%	57.14%
18.0	3503.455	122.856	2260.638	3.07%	60.43%
19.0	3105.294	114.979	2375.617	2.87%	63.50%
20.0	2785.622	107.820	2483.437	2.69%	66.38%
21.0	2589.991	103.223	2586.66	2.58%	69.14%
22.0	2352.080	99.313	2685.973	2.48%	71.80%
23.0	2065.706	92.697	2778.67	2.32%	74.27%
24.0	1890.042	86.487	2865.157	2.16%	76.59%
25.0	1744.569	82.643	2947.8	2.06%	78.80%
26.0	1626.028	79.563	3027.363	1.99%	80.92%
27.0	1495.508	76.369	3103.732	1.91%	82.96%
28.0	1346.323	71.949	3175.681	1.80%	84.89%
29.0	1210.882	66.904	3242.585	1.67%	86.68%
30.0	1127.019	63.123	3305.708	1.58%	88.36%
31.0	1012.196	59.531	3365.239	1.49%	89.95%
32.0	876.322	54.104	3419.343	1.35%	91.40%
33.0	743.799	47.729	3467.072	1.19%	92.68%
34.0	622.373	41.344	3508.417	1.03%	93.78%
35.0	500.724	34.879	3543.296	0.87%	94.71%
36.0	395.198	28.526	3571.822	0.71%	95.48%
37.0	297.905	22.605	3594.427	0.56%	96.08%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	242.642	18.043	3612.47	0.45%	96.56%
39.0	173.115	14.191	3626.661	0.35%	96.94%
40.0	139.711	10.910	3637.571	0.27%	97.23%
41.0	91.203	8.223	3645.794	0.21%	97.45%
42.0	79.724	6.210	3652.004	0.16%	97.62%
43.0	71.754	5.611	3657.615	0.14%	97.77%
44.0	63.541	5.106	3662.721	0.13%	97.91%
45.0	57.635	4.657	3667.378	0.12%	98.03%
46.0	52.766	4.318	3671.696	0.11%	98.15%
47.0	48.141	4.013	3675.709	0.10%	98.25%
48.0	44.494	3.745	3679.454	0.09%	98.35%
49.0	41.531	3.533	3682.987	0.09%	98.45%
50.0	38.969	3.356	3686.343	0.08%	98.54%
51.0	36.938	3.212	3689.555	0.08%	98.62%
52.0	35.256	3.098	3692.652	0.08%	98.71%
53.0	33.831	3.005	3695.658	0.08%	98.79%
54.0	32.608	2.928	3698.586	0.07%	98.86%
55.0	31.373	2.856	3701.442	0.07%	98.94%
56.0	30.033	2.775	3704.217	0.07%	99.01%
57.0	28.817	2.691	3706.908	0.07%	99.09%
58.0	27.569	2.608	3709.515	0.07%	99.16%
59.0	26.045	2.506	3712.022	0.06%	99.22%
60.0	24.396	2.383	3714.405	0.06%	99.29%
61.0	22.668	2.246	3716.651	0.06%	99.35%
62.0	21.012	2.105	3718.755	0.05%	99.40%
63.0	19.409	1.966	3720.721	0.05%	99.46%
64.0	17.792	1.825	3722.547	0.05%	99.50%
65.0	16.262	1.685	3724.232	0.04%	99.55%
66.0	14.934	1.556	3725.788	0.04%	99.59%
67.0	13.883	1.449	3727.237	0.04%	99.63%
68.0	12.608	1.342	3728.579	0.03%	99.67%
69.0	11.478	1.229	3729.808	0.03%	99.70%
70.0	10.499	1.129	3730.937	0.03%	99.73%
71.0	9.632	1.041	3731.977	0.03%	99.76%
72.0	8.778	0.957	3732.935	0.02%	99.78%
73.0	8.062	0.881	3733.815	0.02%	99.81%
74.0	7.352	0.810	3734.626	0.02%	99.83%
75.0	6.767	0.746	3735.372	0.02%	99.85%

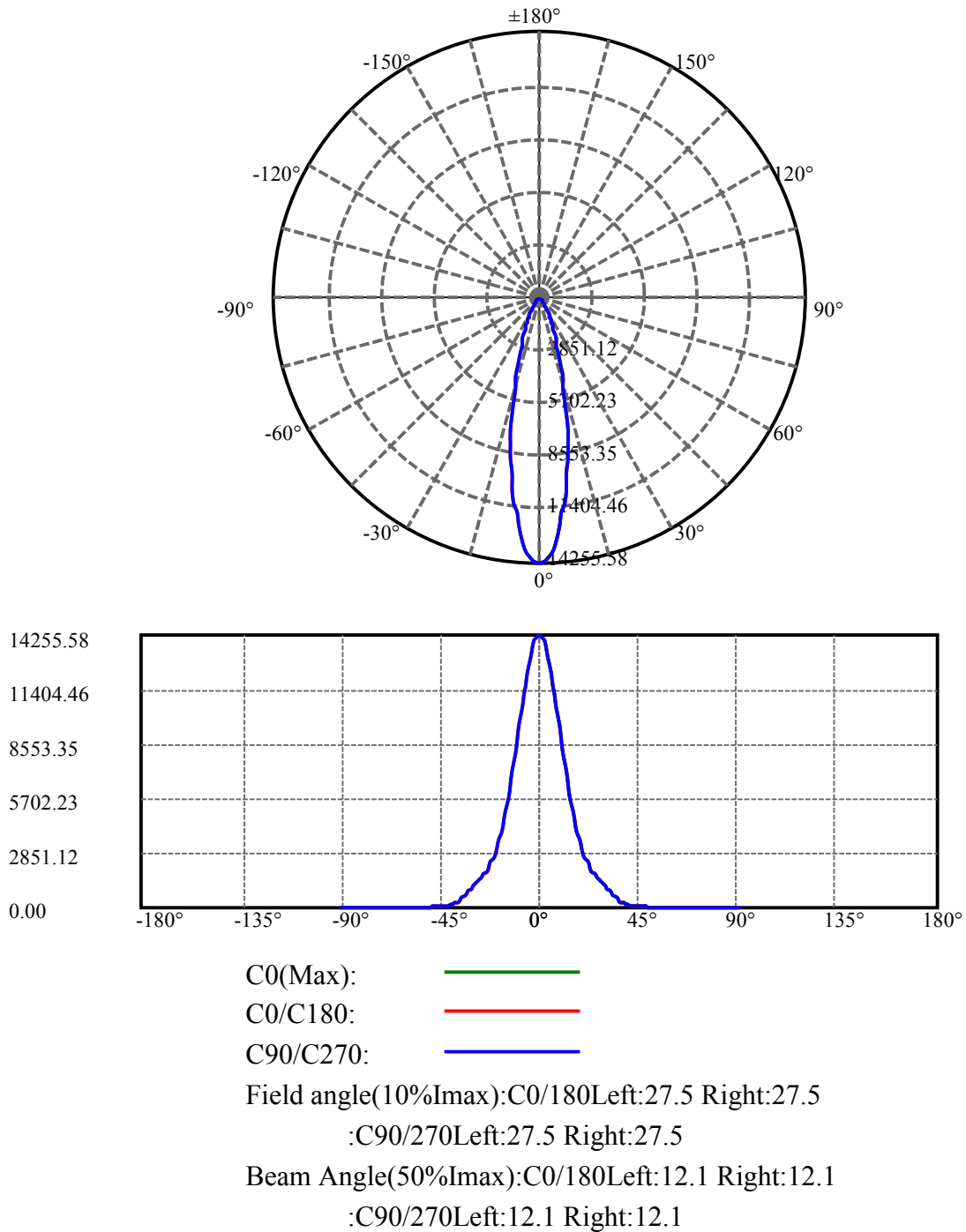
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.268	0.692	3736.064	0.02%	99.87%
77.0	5.756	0.641	3736.705	0.02%	99.88%
78.0	5.269	0.590	3737.295	0.01%	99.90%
79.0	4.796	0.541	3737.836	0.01%	99.91%
80.0	4.369	0.494	3738.33	0.01%	99.93%
81.0	3.936	0.449	3738.779	0.01%	99.94%
82.0	3.509	0.404	3739.183	0.01%	99.95%
83.0	3.154	0.362	3739.545	0.01%	99.96%
84.0	2.766	0.323	3739.867	0.01%	99.97%
85.0	2.451	0.285	3740.152	0.01%	99.98%
86.0	2.148	0.251	3740.403	0.01%	99.98%
87.0	1.866	0.220	3740.623	0.01%	99.99%
88.0	1.505	0.185	3740.808	0.00%	99.99%
89.0	1.196	0.148	3740.956	0.00%	100.00%
90.0	1.005	0.121	3741.076	0.00%	100.00%

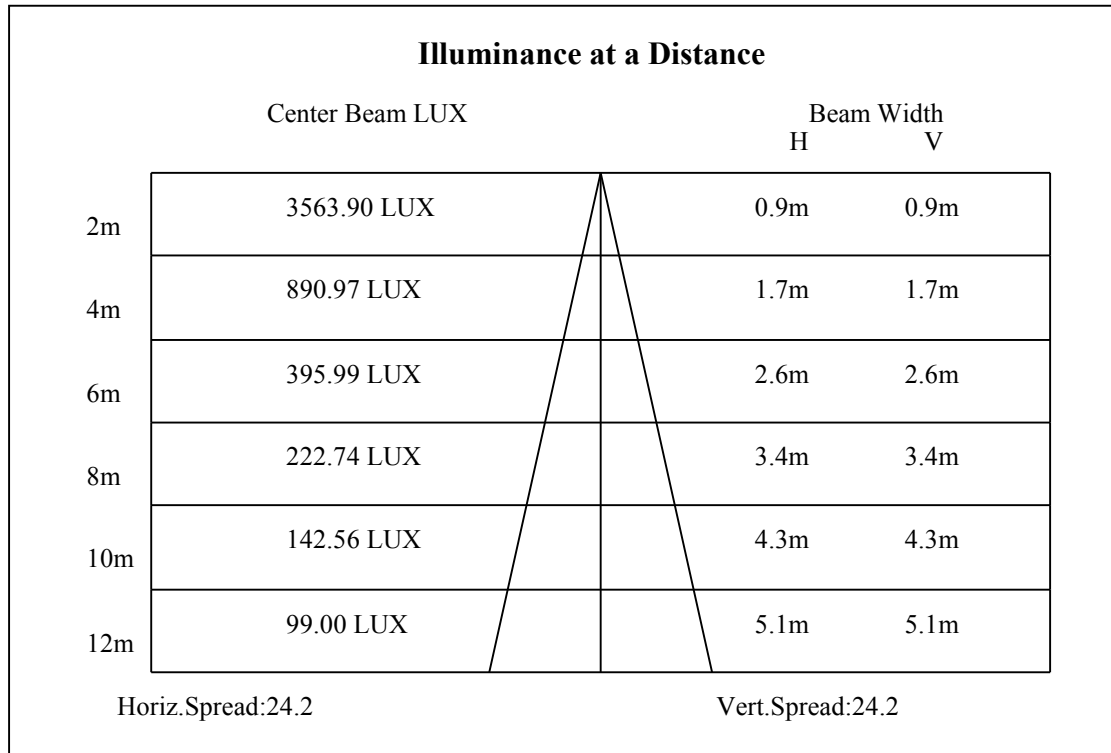
Zonal flux distribution table

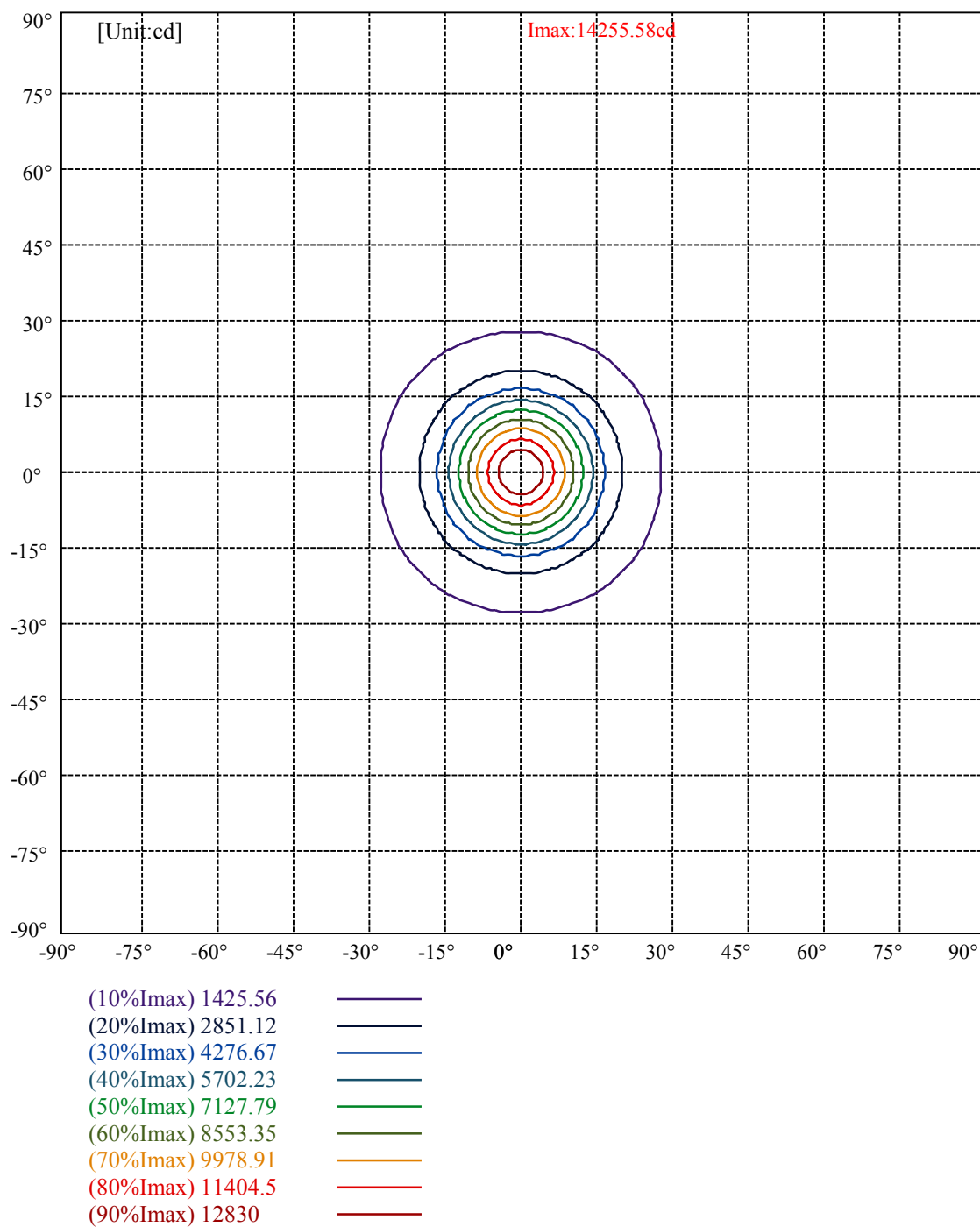
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	3305.71	82.58%	88.36%
0-40	3637.57	90.87%	97.23%
0-60	3714.40	92.79%	99.29%
0-90	3740.96	93.45%	100.00%
0-120	3740.96	93.45%	100.00%
0-180	3741.08	93.46%	100.00%
60-90	26.55	0.66%	0.71%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.57	2992.86	74.77%	80.00%

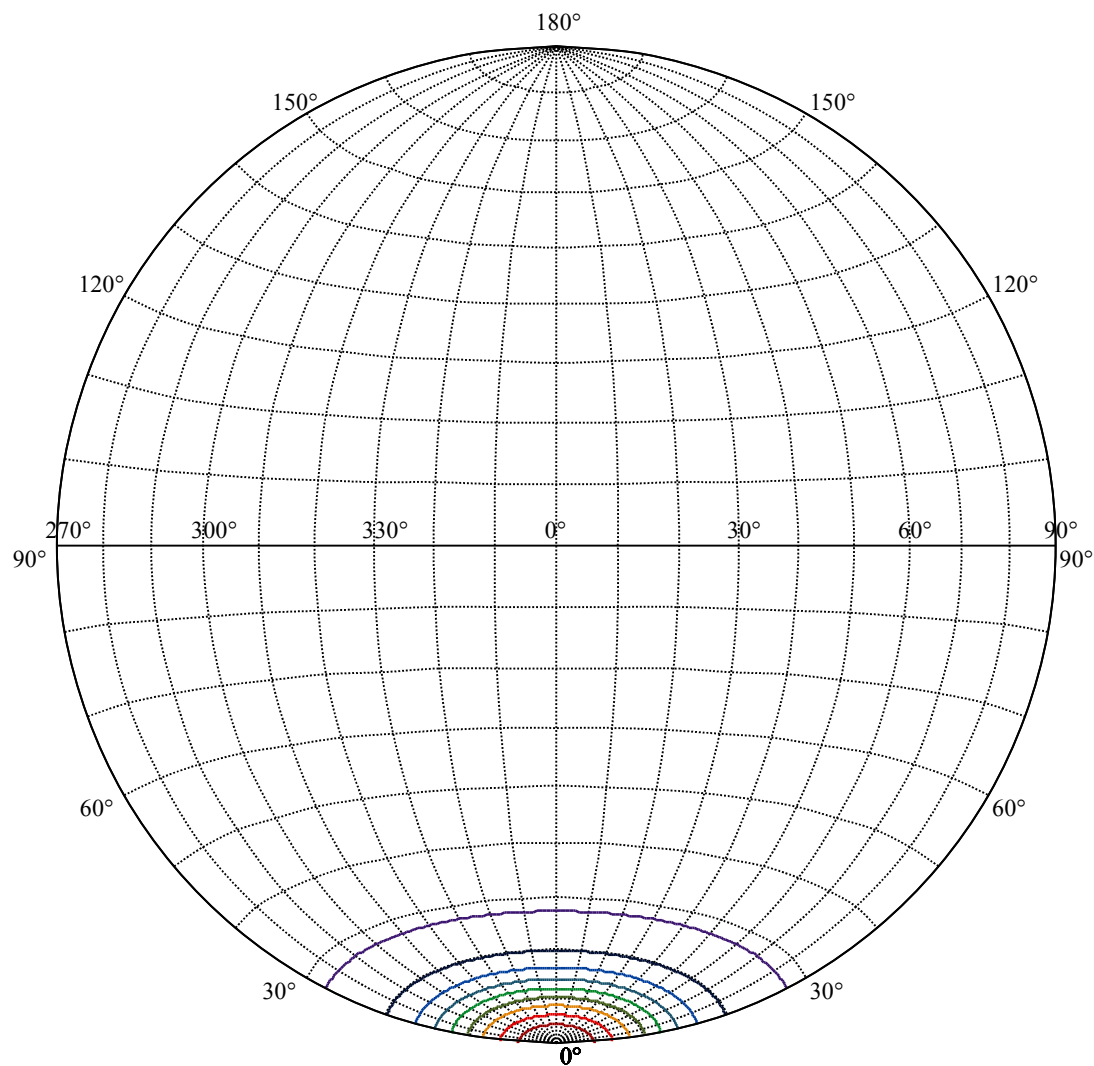
ZONAL LUMEN SUMMARY

0-10	1066.55
10-20	1416.88
20-30	822.27
30-40	331.86
40-50	48.77
50-60	28.06
60-70	16.53
70-80	7.39
80-90	2.63
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







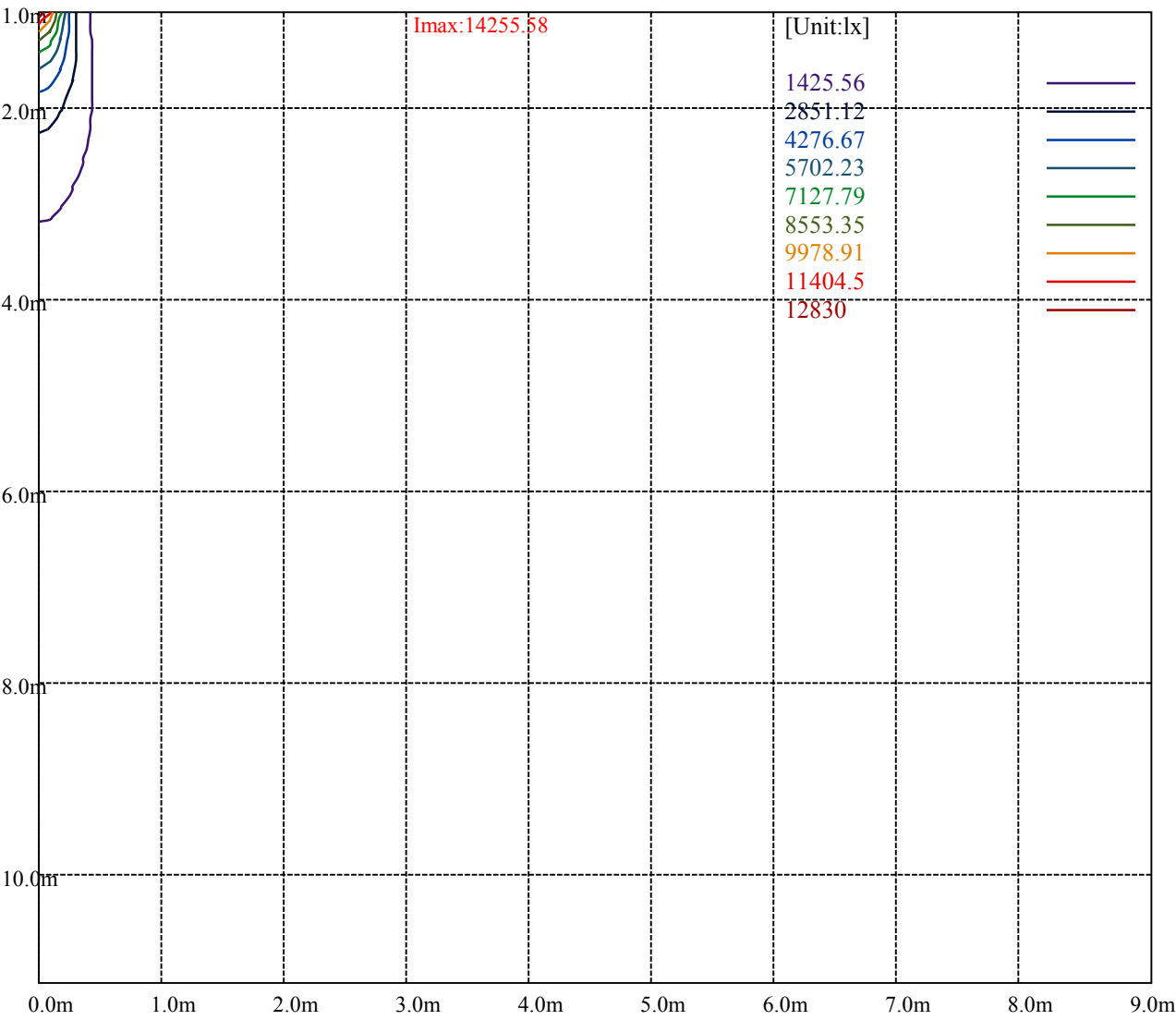


House

[Unit:cd]

Road

Imax:14255.58	
(10%Imax) 1425.56	—
(20%Imax) 2851.12	—
(30%Imax) 4276.67	—
(40%Imax) 5702.23	—
(50%Imax) 7127.79	—
(60%Imax) 8553.35	—
(70%Imax) 9978.91	—
(80%Imax) 11404.5	—
(90%Imax) 12830	—



Luminance Limiting Curve(no luminous side)

Luminance Table

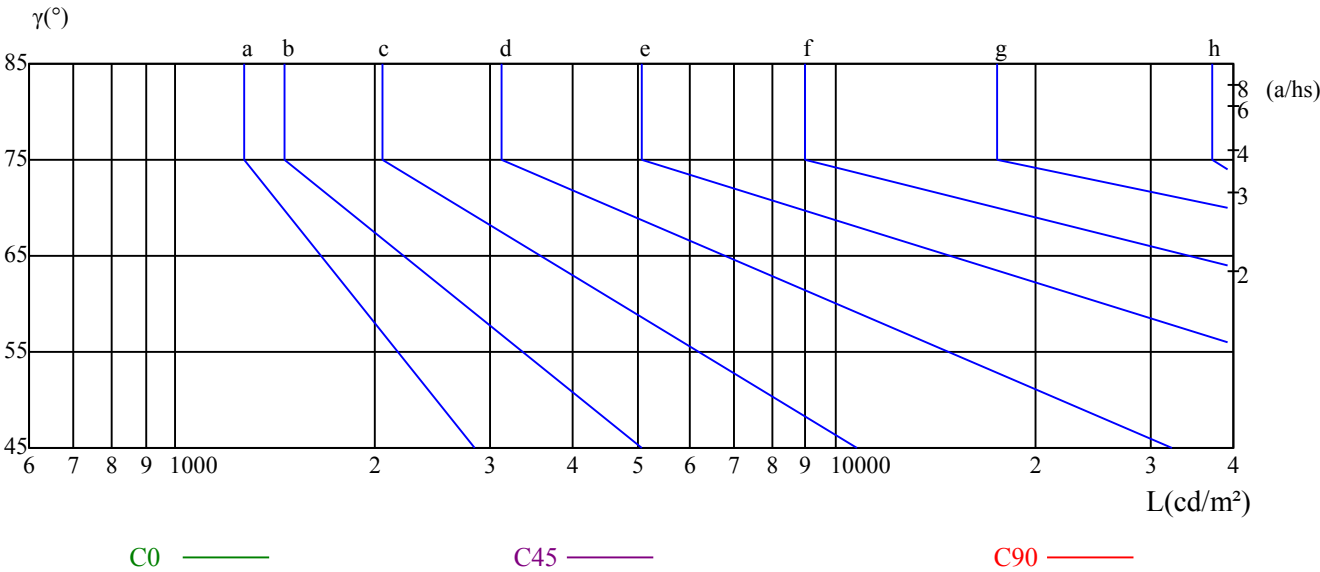
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

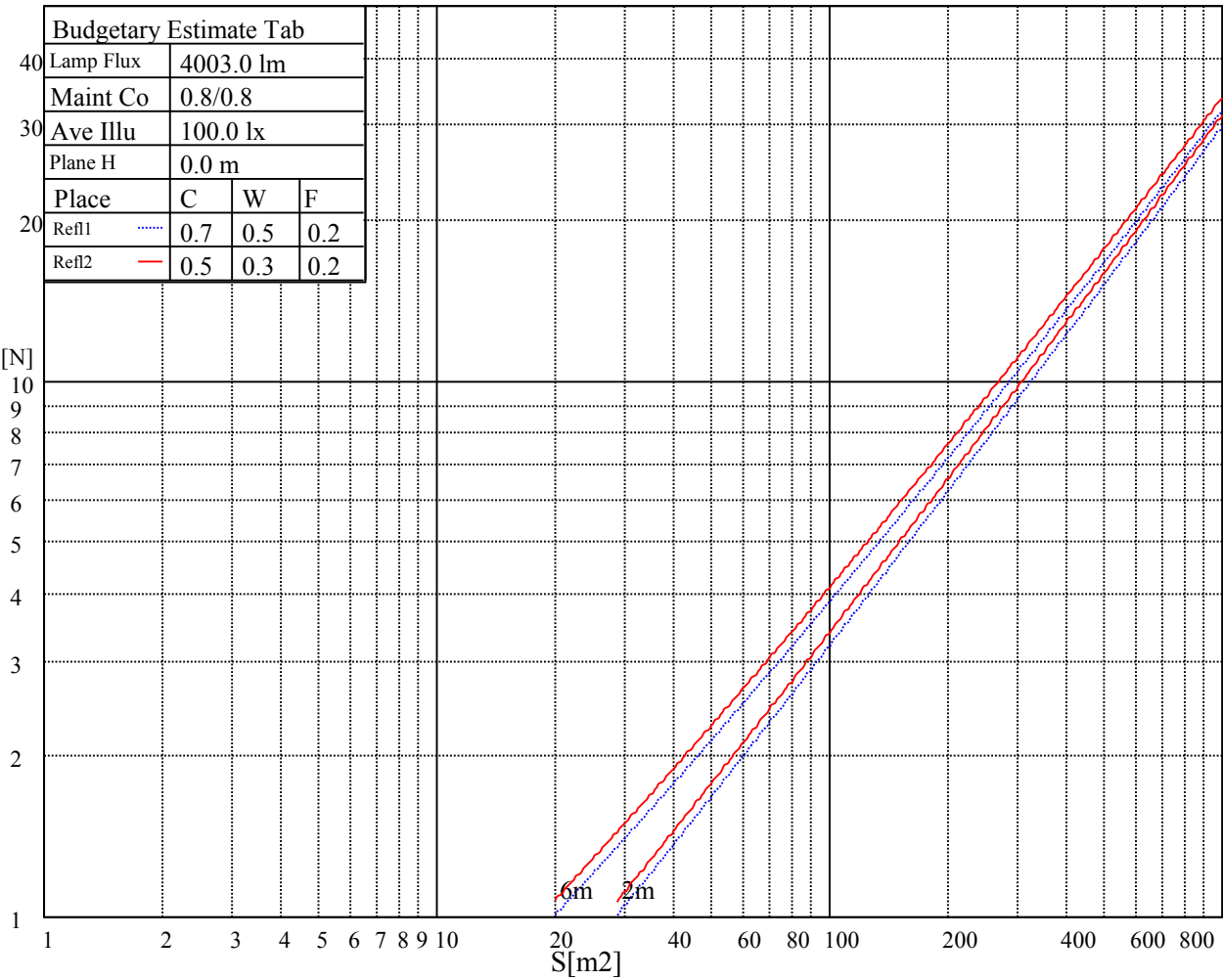
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

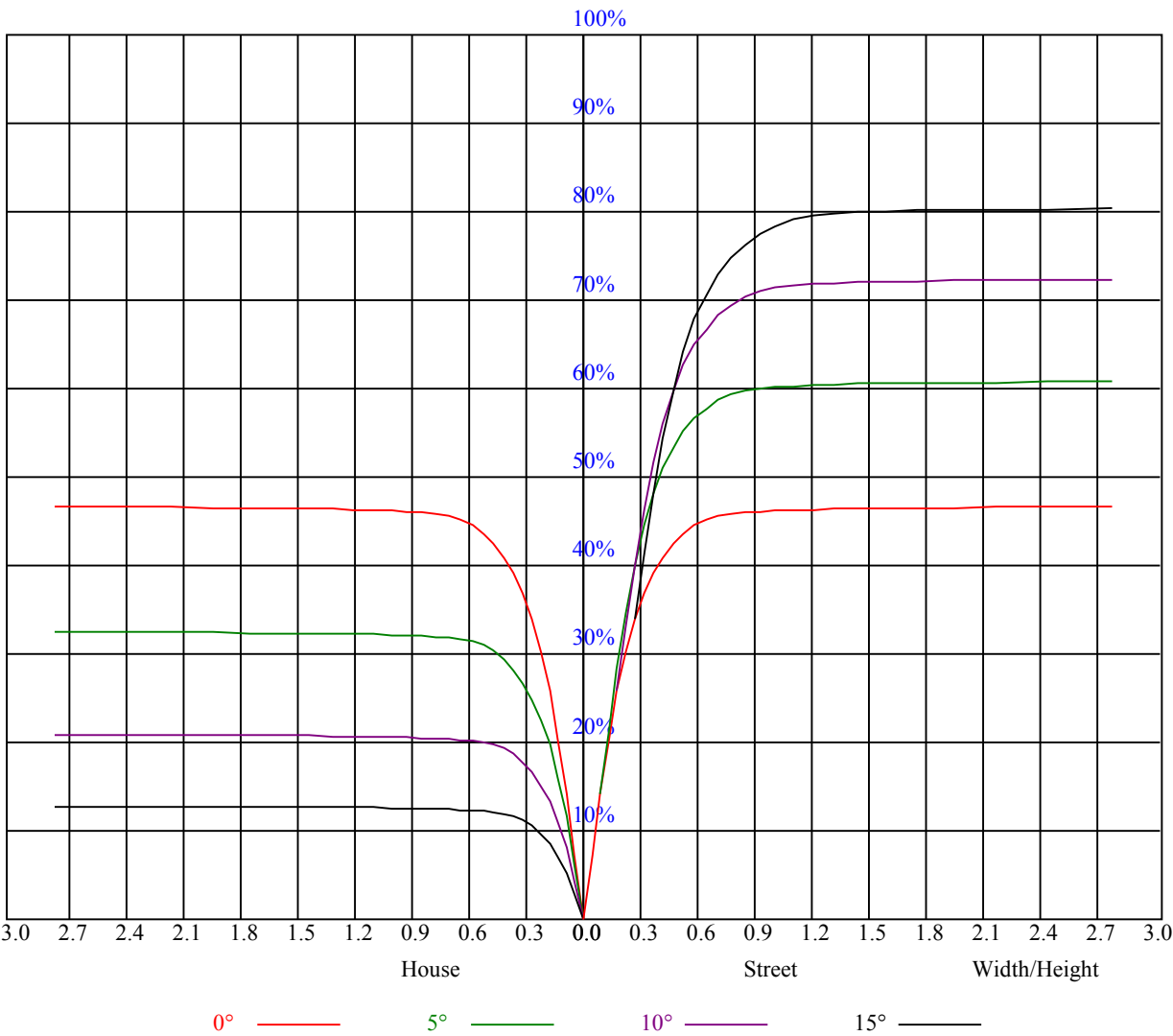


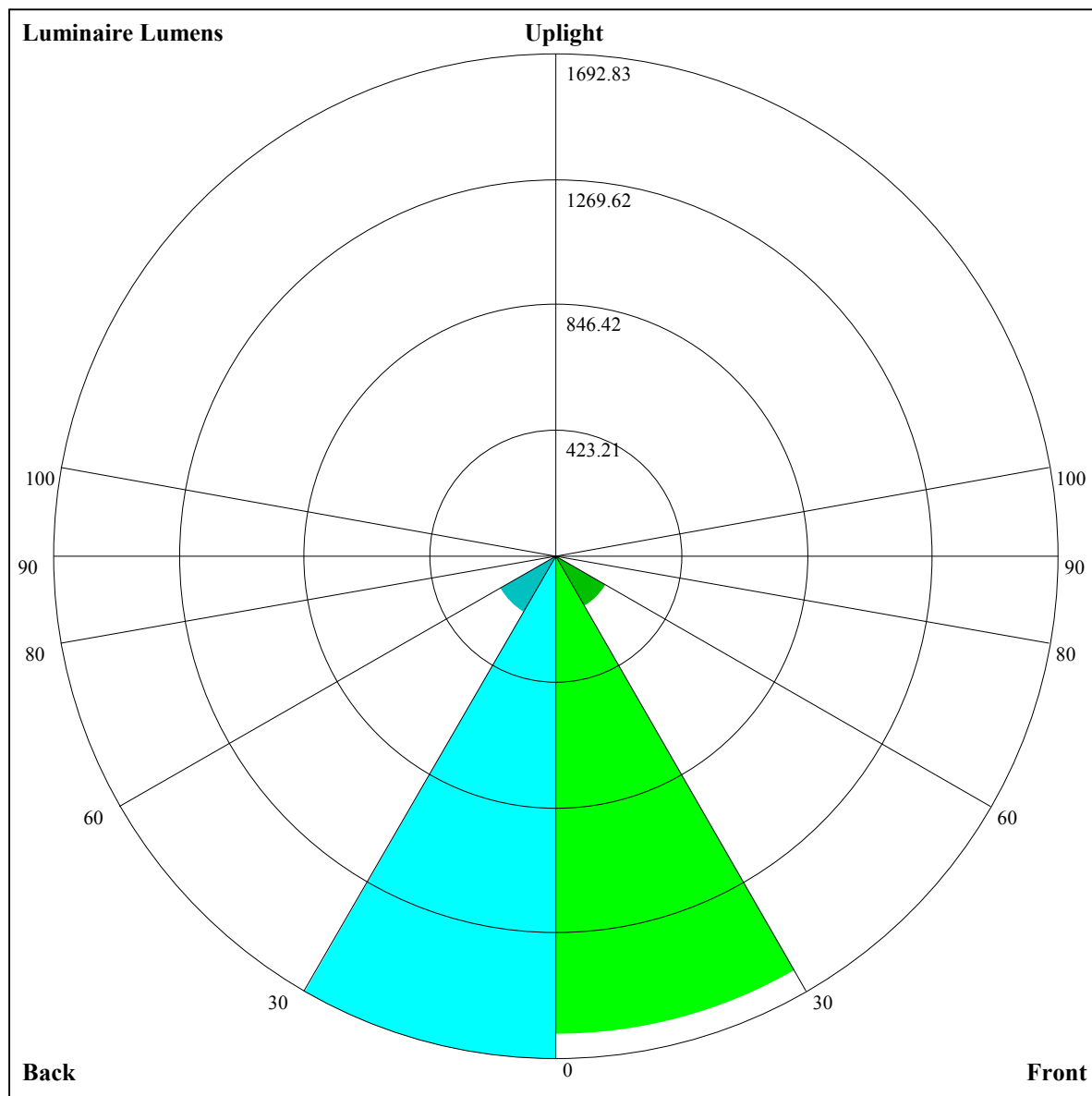
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
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	
	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	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	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



RHOC	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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.96	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.89	0.89	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.90	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.86	0.85	0.83	0.82
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.84	0.81	0.79	0.78
5	0.86	0.82	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	0.82	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.79	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.70	0.69
8	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.64
10	0.71	0.67	0.64	0.71	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.69	0.66	0.63	0.62





Luminaire Lumens:

FL=1609.68,FM=195.18,FH=11.73,FVH=1.34

BL=1692.83,BM=218.02,BH=12.27,BVH=1.43

UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

Appendix Page: 18 Total:20

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	14177.58	13926.85	13531.27	13013.11	12400.23	10780.31	10780.31	10301.09	9491.00
45.0	14305.73	14266.72	14071.72	13748.56	13291.69	12701.10	12049.22	11297.05	10505.88
90.0	14222.15	13977.00	13625.99	13163.54	12545.09	10951.87	10951.87	10141.20	9650.37
135.0	14316.87	14227.72	14110.72	13609.27	13107.83	12756.81	12099.36	11363.91	10600.59
180.0	14177.58	14283.44	14216.58	14021.57	13676.13	13185.83	12589.66	11909.93	11168.90
225.0	14305.73	14177.58	13899.00	13653.85	13152.40	12216.37	11112.34	11112.34	10319.49
270.0	14222.15	14311.30	14222.15	13965.86	13581.41	13079.97	12455.95	11753.92	11297.05
315.0	14316.87	14233.29	13999.29	13625.99	13124.54	12517.23	11085.06	11085.06	10283.85
360.0	14177.58	13926.85	13531.27	13013.11	12400.23	10780.31	10780.31	10301.09	9491.00

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8336.57	7835.12	7014.41	6253.89	5547.97	4903.35	4326.10	3820.77	3375.04
45.0	9709.13	8890.11	8065.51	7252.05	6444.16	5725.42	5079.11	4477.38	3948.07
90.0	8495.36	7997.80	7194.91	6425.50	5706.76	5042.06	4453.15	3928.84	3479.80
135.0	9787.14	8945.82	8126.79	7324.48	6544.45	5803.43	5145.97	4544.24	4014.93
180.0	10712.03	9580.99	9090.68	8277.23	7447.06	6661.46	5903.71	5229.55	4599.95
225.0	9521.07	8698.15	7859.09	7040.59	6262.24	5543.50	5014.78	4309.97	3797.38
270.0	10199.44	9374.84	8890.11	8071.08	7263.19	6488.74	5742.14	5067.97	4471.81
315.0	9458.15	8632.39	7982.77	7032.23	6268.39	5692.83	4897.20	4433.07	3895.99
360.0	8336.57	7835.12	7014.41	6253.89	5547.97	4903.35	4326.10	3820.77	3375.04

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2998.95	2679.69	2401.69	2176.56	1982.66	1819.98	1685.73	1565.36	1456.14
45.0	3496.77	3173.62	2833.75	2533.75	2306.39	2103.60	1918.58	1770.41	1648.94
90.0	3091.41	2757.11	2476.32	2245.68	2047.31	1876.27	1726.36	1597.69	1534.72
135.0	3546.92	3134.62	2861.61	2616.61	2344.29	2129.78	1948.12	1795.48	1661.76
180.0	4059.51	3580.35	3179.19	2839.32	2539.32	2331.46	2119.74	1933.09	1805.52
225.0	3447.47	2980.56	2725.37	2445.68	2216.14	2023.92	1856.19	1713.59	1585.44
270.0	3942.50	3485.63	3084.47	2878.32	2678.32	2474.54	2272.80	2085.73	1906.98
315.0	3444.11	3050.78	2722.58	2439.01	2202.21	2006.10	1832.80	1695.19	1578.71
360.0	2998.95	2679.69	2401.69	2176.56	1982.66	1819.98	1685.73	1565.36	1456.14

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1338.61	1076.43	1076.43	966.26	833.27	705.18	582.97	464.76	353.75
45.0	1534.14	1421.08	1290.67	1149.17	1008.20	872.80	738.56	661.08	493.40
90.0	1373.72	1070.86	1070.86	1018.77	882.52	744.02	612.14	488.67	372.67
135.0	1548.07	1442.21	1316.85	1183.71	1045.52	906.81	768.62	636.58	511.22
180.0	1644.47	1553.64	1445.00	1320.21	1184.29	1045.00	904.02	770.83	642.68
225.0	1471.22	1349.75	1036.85	1036.85	952.12	815.03	688.46	567.99	500.66
270.0	1588.75	1502.97	1401.58	1292.35	1169.78	1038.27	905.70	770.30	635.48
315.0	1465.07	1353.64	1048.83	1048.83	1021.87	883.47	749.91	618.77	495.93
360.0	1338.61	1076.43	1076.43	966.26	833.27	705.18	582.97	464.76	353.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	255.56	174.67	118.16	91.51	80.11	71.38	64.23	60.50	52.46
45.0	425.97	322.31	322.31	143.92	102.97	87.52	77.42	69.54	62.60
90.0	272.12	189.49	128.99	95.30	82.79	73.59	65.86	59.19	53.40
135.0	393.64	329.04	329.04	151.38	108.96	90.35	79.90	70.80	63.50
180.0	526.26	420.39	325.68	307.28	307.28	121.05	100.13	92.77	81.73
225.0	397.43	273.01	229.12	168.57	125.41	101.55	87.36	76.43	67.70
270.0	508.96	393.11	289.46	289.46	207.83	97.61	86.52	76.43	65.34
315.0	381.66	281.21	198.37	137.50	102.34	86.57	76.37	68.38	61.60
360.0	255.56	174.67	118.16	91.51	80.11	71.38	64.23	60.50	52.46

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	48.36	46.31	41.52	39.84	37.53	36.06	34.53	33.11	32.17
45.0	56.71	51.62	47.57	44.10	40.74	38.32	37.27	35.48	34.01
90.0	49.04	46.68	43.26	39.05	37.58	35.74	34.22	32.59	31.27
135.0	57.24	52.14	47.83	44.10	41.00	38.42	36.37	34.74	33.11
180.0	72.27	64.65	58.24	53.25	48.88	45.20	42.00	39.63	37.90
225.0	60.34	54.30	49.46	45.78	42.47	39.37	37.21	35.43	33.80
270.0	61.45	55.61	50.35	46.47	43.10	40.16	37.53	35.80	34.48
315.0	55.66	50.83	46.89	43.36	40.95	38.48	36.37	35.27	33.90
360.0	48.36	46.31	41.52	39.84	37.53	36.06	34.53	33.11	32.17
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	31.06	29.33	27.96	27.02	25.65	23.55	21.71	20.55	19.13
45.0	32.64	31.48	30.12	28.80	27.49	26.12	24.44	22.50	20.81
90.0	30.28	29.22	28.07	26.75	25.55	23.81	21.71	20.39	18.98
135.0	32.22	31.64	29.75	28.49	27.75	26.33	24.65	22.76	21.29
180.0	35.90	34.27	32.85	31.43	29.96	28.44	27.07	25.18	23.18
225.0	32.69	31.06	29.86	28.80	27.17	25.76	24.13	22.23	20.66
270.0	33.27	32.12	31.27	30.07	28.96	27.81	26.75	24.97	22.76
315.0	32.80	31.85	30.38	29.17	28.02	26.54	24.70	22.76	21.29
360.0	31.06	29.33	27.96	27.02	25.65	23.55	21.71	20.55	19.13
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.19	15.40	14.45	13.46	12.67	10.78	10.30	9.46	8.57
45.0	19.34	17.77	15.93	14.77	13.67	12.46	11.20	10.35	9.57
90.0	17.19	15.45	14.40	13.35	12.67	11.41	10.14	9.72	8.88
135.0	19.92	18.03	16.24	15.03	14.14	12.88	11.46	10.51	9.78
180.0	21.55	20.08	18.76	16.61	15.40	14.24	13.09	11.77	10.72
225.0	19.13	17.50	15.87	14.61	13.51	12.30	11.20	10.25	9.30
270.0	21.18	20.18	18.24	16.61	15.19	14.24	13.14	11.62	10.51
315.0	19.76	17.92	16.19	15.03	13.82	12.56	11.30	10.30	9.72
360.0	17.19	15.40	14.45	13.46	12.67	10.78	10.30	9.46	8.57
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.78	7.15	6.57	5.99	5.57	5.10	4.63	4.15	3.78
45.0	8.99	8.25	7.52	6.94	6.41	5.94	5.47	4.99	4.47
90.0	8.04	7.41	6.83	6.25	5.83	5.31	4.84	4.36	3.94
135.0	8.83	7.99	7.36	6.83	6.52	5.99	5.31	5.05	4.63
180.0	9.83	8.99	8.09	7.46	6.83	6.36	5.73	5.26	4.84
225.0	8.46	7.78	7.15	6.62	6.04	5.52	5.26	4.63	4.31
270.0	9.72	8.99	7.99	7.31	6.78	6.20	5.73	5.20	4.78
315.0	8.57	7.94	7.31	6.73	6.15	5.62	5.20	4.73	4.21
360.0	7.78	7.15	6.57	5.99	5.57	5.10	4.63	4.15	3.78
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.36	3.05	2.73	2.31	2.05	1.84	1.47	1.05	0.89
45.0	3.99	3.68	3.15	2.73	2.47	2.10	1.84	1.47	1.00
90.0	3.57	3.21	2.84	2.52	2.21	2.00	1.68	1.26	1.16
135.0	4.15	3.57	3.26	2.79	2.52	2.16	1.84	1.47	1.16
180.0	4.36	3.94	3.47	3.21	2.73	2.47	2.16	1.84	1.47
225.0	3.94	3.42	3.15	2.79	2.47	2.16	1.94	1.58	1.21
270.0	4.26	3.89	3.57	3.05	2.73	2.37	2.16	1.84	1.52
315.0	3.84	3.31	3.05	2.73	2.42	2.10	1.84	1.52	1.16
360.0	3.36	3.05	2.73	2.31	2.05	1.84	1.47	1.05	0.89

Intensity data(cd)

Appendix Page: 20 Total:20

C/γ(°)	90.0
0.0	0.95
45.0	0.89
90.0	1.10
135.0	1.00
180.0	1.05
225.0	0.95
270.0	1.16
315.0	0.95
360.0	0.95