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NT

Client: NT

LumCAT: 61-0248

Luminaire: 92.70.458.00

Report No: 20241125-B005

Ballast type: AC

Test No: 20241125-C005

Voltage(V): 36.880

LampCAT: CITIZEN CLU7A2

Current(A): 0.179

Lamp flux(lm): 595.0

Power (W): 6.601

Number of Lamps: 1

PF: 0.000

Length(mm): 92

Width(mm): 92

Phm Type: C

Height(mm): 50

Photometric Results

Lumens(lm): 553.55, Efficiency(%): 93.03% , Luminous Efficacy(lm/W): 83.86

Central intensity(cd): 602.164, Maximum intensity(cd): 607.992

Angle of maximum intensity: C=0.0 γ =7.0

Beam Angle(50%Imax): [C0/180]Total=57.6

[C90/270]Total=57.6

Field angle(10%Imax): [C0/180]Total=73.2

[C90/270]Total=73.2

Maximum s/h(1/2): C0_180=0.97 C90_270=0.97

Maximum s/h(1/4): C0_180=0.84 C90_270=0.84

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.03%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 93.633%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/11/25
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	602.164	0.000	0	0.00%	0.00%
1.0	602.523	0.576	0.576	0.10%	0.10%
2.0	603.349	1.731	2.307	0.29%	0.42%
3.0	604.522	2.889	5.196	0.49%	0.94%
4.0	605.754	4.051	9.247	0.68%	1.67%
5.0	606.920	5.217	14.464	0.88%	2.61%
6.0	607.852	6.384	20.848	1.07%	3.77%
7.0	607.992	7.547	28.395	1.27%	5.13%
8.0	607.526	8.699	37.094	1.46%	6.70%
9.0	606.607	9.840	46.934	1.65%	8.48%
10.0	605.268	10.967	57.901	1.84%	10.46%
11.0	603.263	12.076	69.977	2.03%	12.64%
12.0	600.745	13.162	83.138	2.21%	15.02%
13.0	597.348	14.218	97.356	2.39%	17.59%
14.0	592.885	15.235	112.591	2.56%	20.34%
15.0	587.536	16.205	128.797	2.72%	23.27%
16.0	580.202	17.111	145.907	2.88%	26.36%
17.0	572.175	17.946	163.853	3.02%	29.60%
18.0	562.569	18.709	182.562	3.14%	32.98%
19.0	549.800	19.353	201.915	3.25%	36.48%
20.0	537.356	19.898	221.813	3.34%	40.07%
21.0	521.609	20.334	242.148	3.42%	43.74%
22.0	504.916	20.628	262.776	3.47%	47.47%
23.0	484.659	20.764	283.54	3.49%	51.22%
24.0	462.417	20.706	304.246	3.48%	54.96%
25.0	437.145	20.454	324.701	3.44%	58.66%
26.0	406.203	19.907	344.608	3.35%	62.25%
27.0	372.617	19.054	363.662	3.20%	65.70%
28.0	336.167	17.945	381.607	3.02%	68.94%
29.0	297.798	16.586	398.193	2.79%	71.93%
30.0	258.683	15.025	413.218	2.53%	74.65%
31.0	218.442	13.278	426.496	2.23%	77.05%
32.0	182.911	11.498	437.994	1.93%	79.12%
33.0	148.379	9.760	447.754	1.64%	80.89%
34.0	117.671	8.051	455.805	1.35%	82.34%
35.0	92.598	6.530	462.336	1.10%	83.52%
36.0	70.942	5.207	467.543	0.88%	84.46%
37.0	54.969	4.107	471.649	0.69%	85.20%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	43.178	3.276	474.925	0.55%	85.80%
39.0	35.045	2.670	477.595	0.45%	86.28%
40.0	30.149	2.274	479.869	0.38%	86.69%
41.0	27.424	2.050	481.919	0.34%	87.06%
42.0	25.952	1.939	483.858	0.33%	87.41%
43.0	25.499	1.906	485.764	0.32%	87.75%
44.0	25.379	1.920	487.685	0.32%	88.10%
45.0	25.359	1.950	489.634	0.33%	88.45%
46.0	25.313	1.982	491.616	0.33%	88.81%
47.0	25.120	2.006	493.622	0.34%	89.17%
48.0	24.826	2.019	495.641	0.34%	89.54%
49.0	24.447	2.023	497.664	0.34%	89.90%
50.0	23.994	2.020	499.684	0.34%	90.27%
51.0	23.374	2.004	501.688	0.34%	90.63%
52.0	22.801	1.981	503.67	0.33%	90.99%
53.0	22.175	1.956	505.626	0.33%	91.34%
54.0	21.489	1.925	507.551	0.32%	91.69%
55.0	20.803	1.888	509.439	0.32%	92.03%
56.0	20.170	1.851	511.29	0.31%	92.36%
57.0	19.464	1.812	513.102	0.30%	92.69%
58.0	18.878	1.773	514.875	0.30%	93.01%
59.0	18.258	1.736	516.611	0.29%	93.33%
60.0	17.712	1.699	518.311	0.29%	93.63%
61.0	17.106	1.662	519.972	0.28%	93.93%
62.0	16.513	1.620	521.592	0.27%	94.23%
63.0	15.900	1.576	523.169	0.26%	94.51%
64.0	15.328	1.532	524.701	0.26%	94.79%
65.0	14.735	1.488	526.189	0.25%	95.06%
66.0	14.162	1.442	527.631	0.24%	95.32%
67.0	13.589	1.395	529.026	0.23%	95.57%
68.0	13.056	1.350	530.376	0.23%	95.81%
69.0	12.556	1.307	531.682	0.22%	96.05%
70.0	12.130	1.268	532.95	0.21%	96.28%
71.0	11.844	1.239	534.189	0.21%	96.50%
72.0	11.617	1.220	535.409	0.21%	96.72%
73.0	11.331	1.200	536.609	0.20%	96.94%
74.0	11.218	1.185	537.795	0.20%	97.15%
75.0	11.198	1.184	538.979	0.20%	97.37%

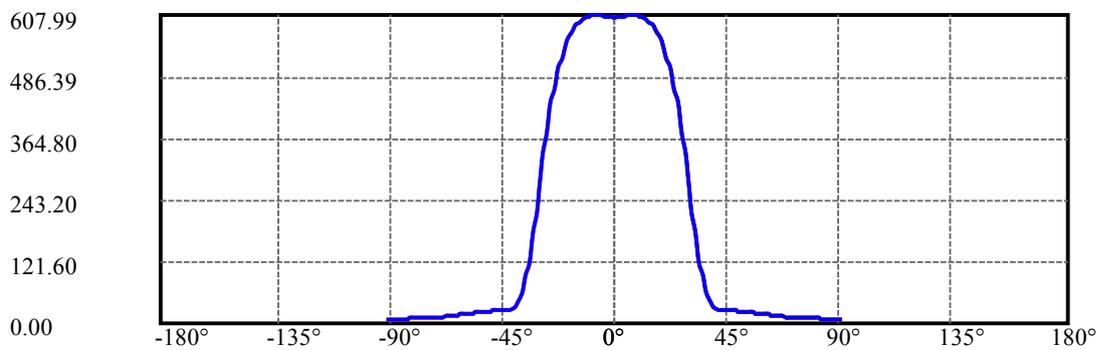
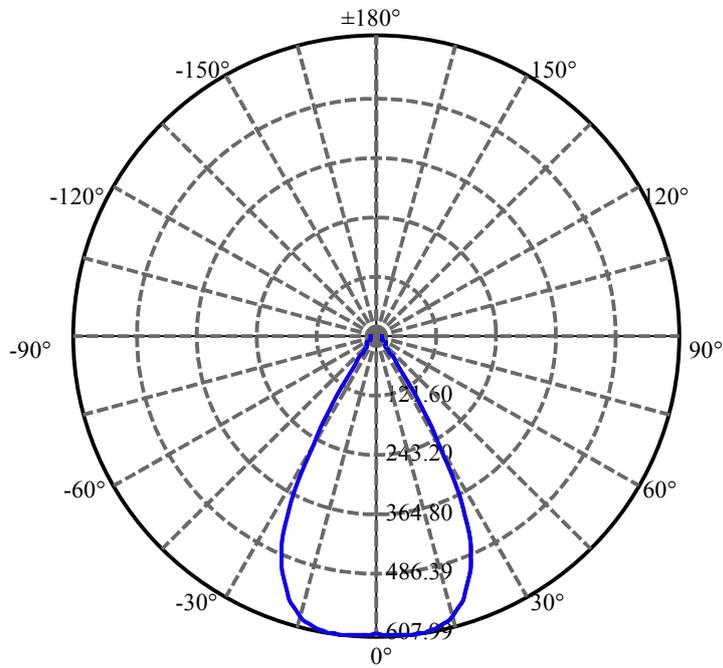
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.431	1.201	540.18	0.20%	97.58%
77.0	11.611	1.228	541.409	0.21%	97.81%
78.0	11.651	1.245	542.654	0.21%	98.03%
79.0	11.351	1.236	543.89	0.21%	98.25%
80.0	10.565	1.182	545.071	0.20%	98.47%
81.0	9.632	1.092	546.163	0.18%	98.66%
82.0	8.540	0.985	547.149	0.17%	98.84%
83.0	8.193	0.910	548.059	0.15%	99.01%
84.0	7.887	0.876	548.935	0.15%	99.17%
85.0	7.581	0.844	549.779	0.14%	99.32%
86.0	7.261	0.811	550.59	0.14%	99.46%
87.0	6.988	0.780	551.37	0.13%	99.61%
88.0	6.721	0.751	552.121	0.13%	99.74%
89.0	6.528	0.726	552.847	0.12%	99.87%
90.0	6.381	0.708	553.555	0.12%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	413.22	69.45%	74.65%
0-40	479.87	80.65%	86.69%
0-60	518.31	87.11%	93.63%
0-90	552.85	92.92%	99.87%
0-120	552.85	92.92%	99.87%
0-180	553.55	93.03%	100.00%
60-90	34.54	5.80%	6.24%
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%
0-32.50	442.84	74.43%	80.00%

ZONAL LUMEN SUMMARY

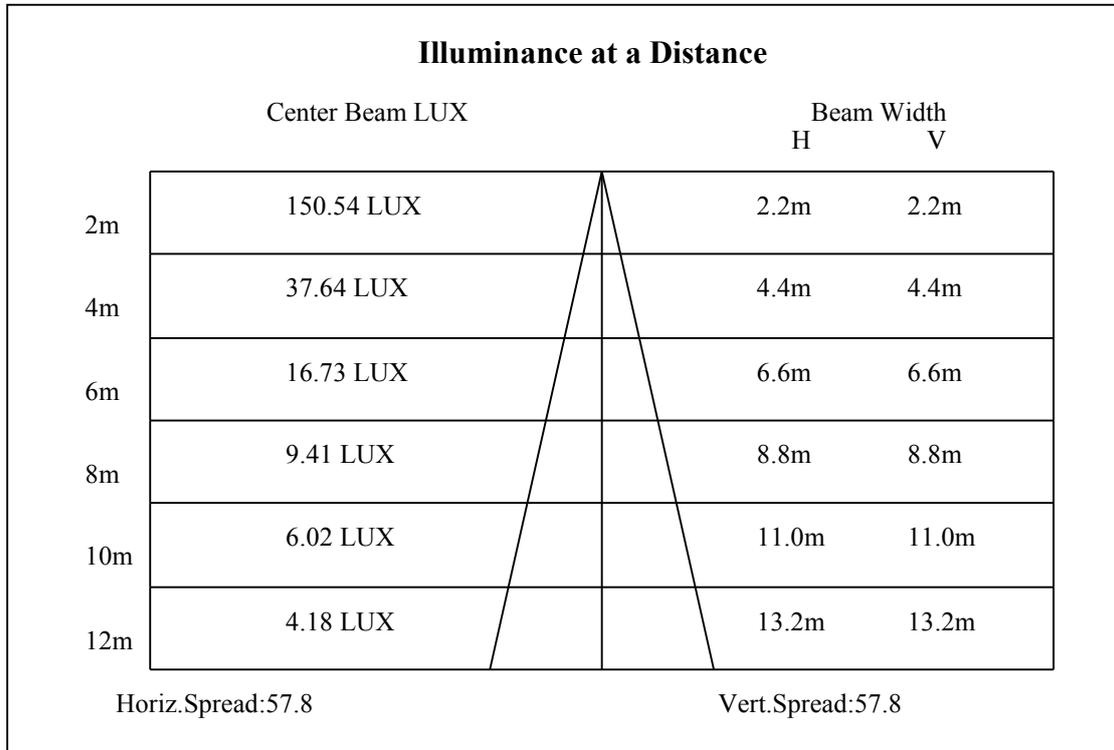
0-10	57.90
10-20	163.91
20-30	191.40
30-40	66.65
40-50	19.82
50-60	18.63
60-70	14.64
70-80	12.12
80-90	7.78
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

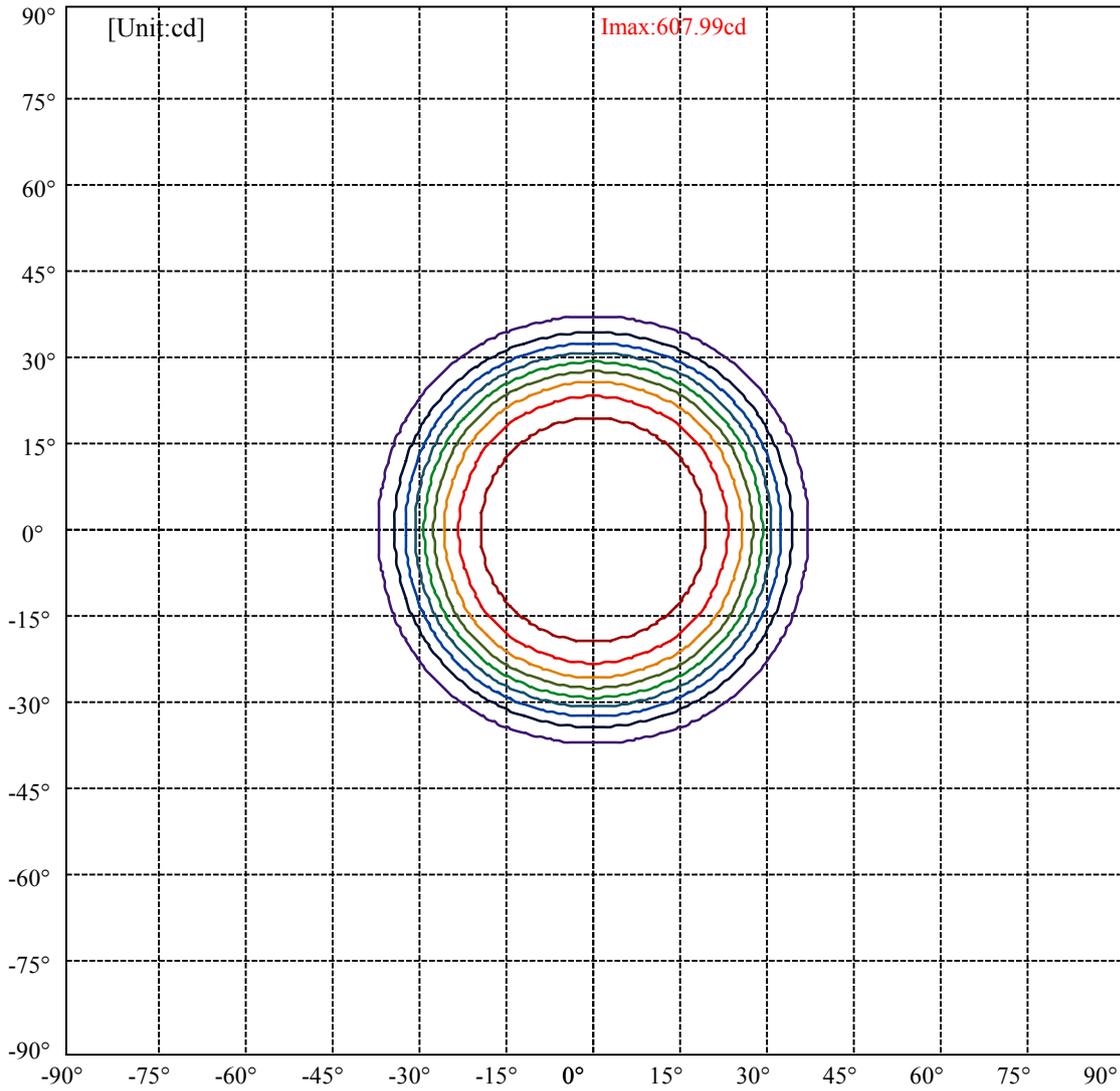


C0(Max): —————
C0/C180: —————
C90/C270: —————

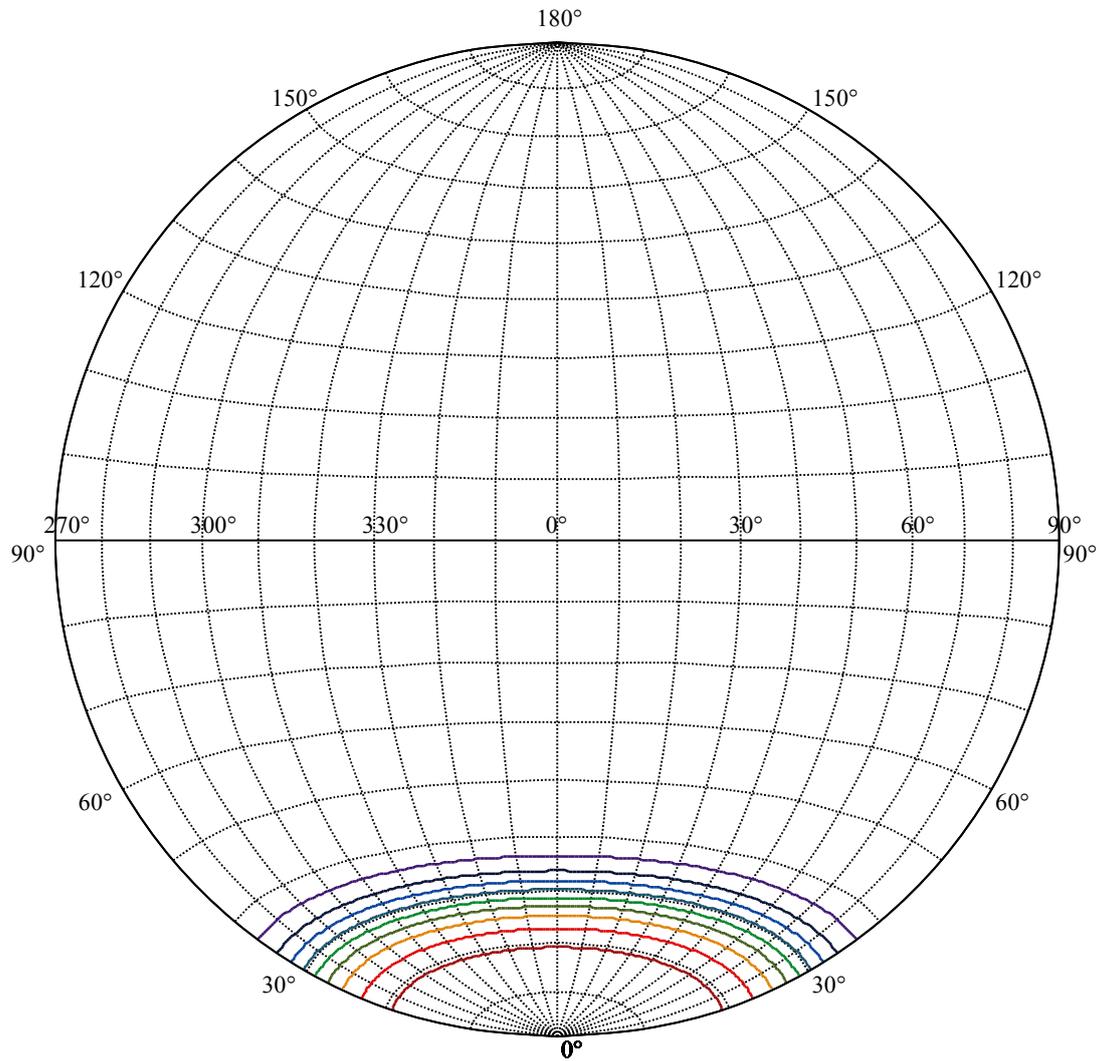
Field angle(10%Imax):C0/180Left:43.6 Right:29.6
:C90/270Left:43.6 Right:29.6

Beam Angle(50%Imax):C0/180Left:35.8 Right:21.8
:C90/270Left:35.8 Right:21.8





(10%Imax) 60.7992	—
(20%Imax) 121.598	—
(30%Imax) 182.398	—
(40%Imax) 243.197	—
(50%Imax) 303.996	—
(60%Imax) 364.795	—
(70%Imax) 425.595	—
(80%Imax) 486.394	—
(90%Imax) 547.193	—

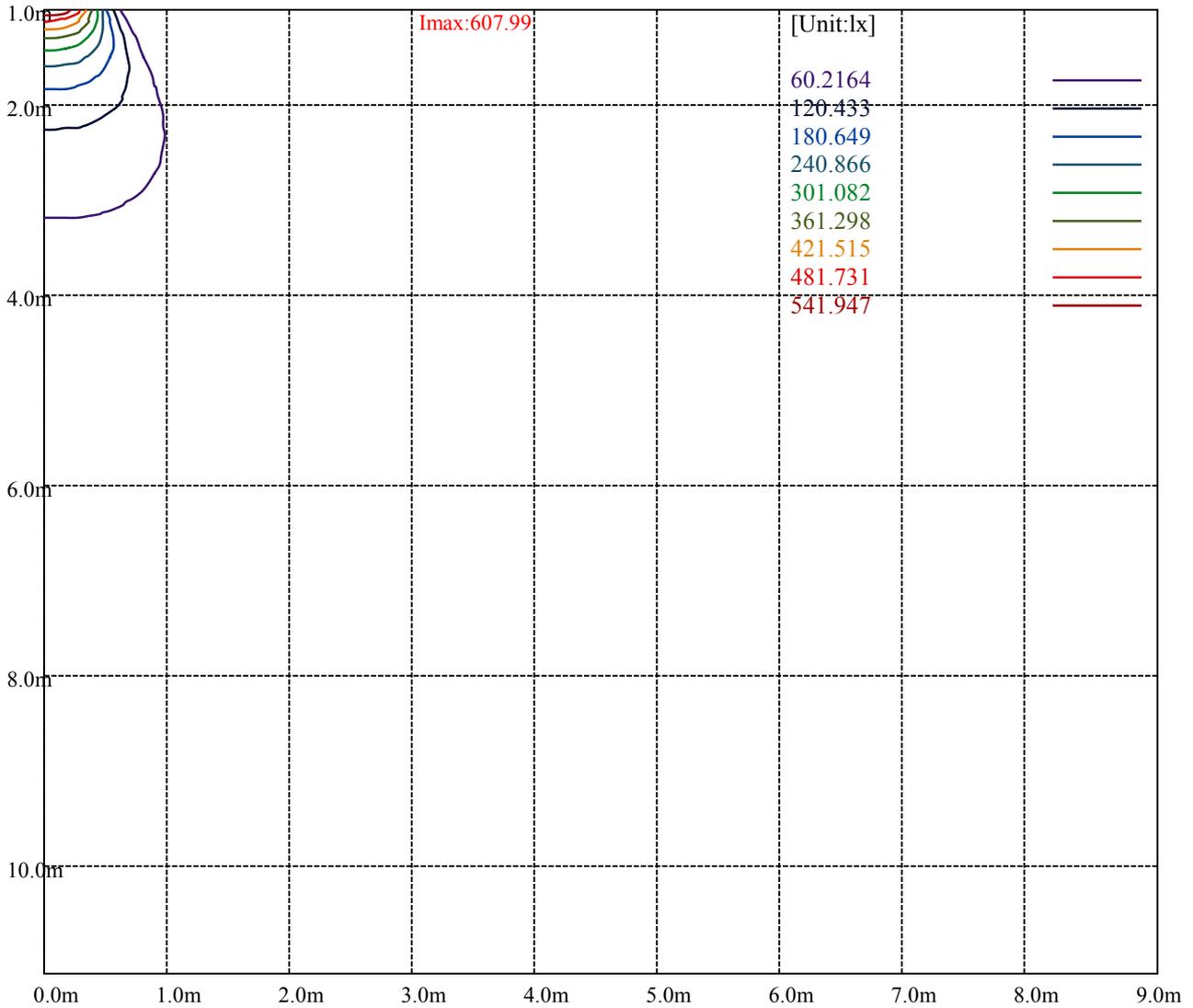


House

[Unit:cd]

Road

Imax:607.99	—
(10%Imax) 60.7992	—
(20%Imax) 121.598	—
(30%Imax) 182.398	—
(40%Imax) 243.197	—
(50%Imax) 303.996	—
(60%Imax) 364.795	—
(70%Imax) 425.595	—
(80%Imax) 486.394	—
(90%Imax) 547.193	—



Luminance Table

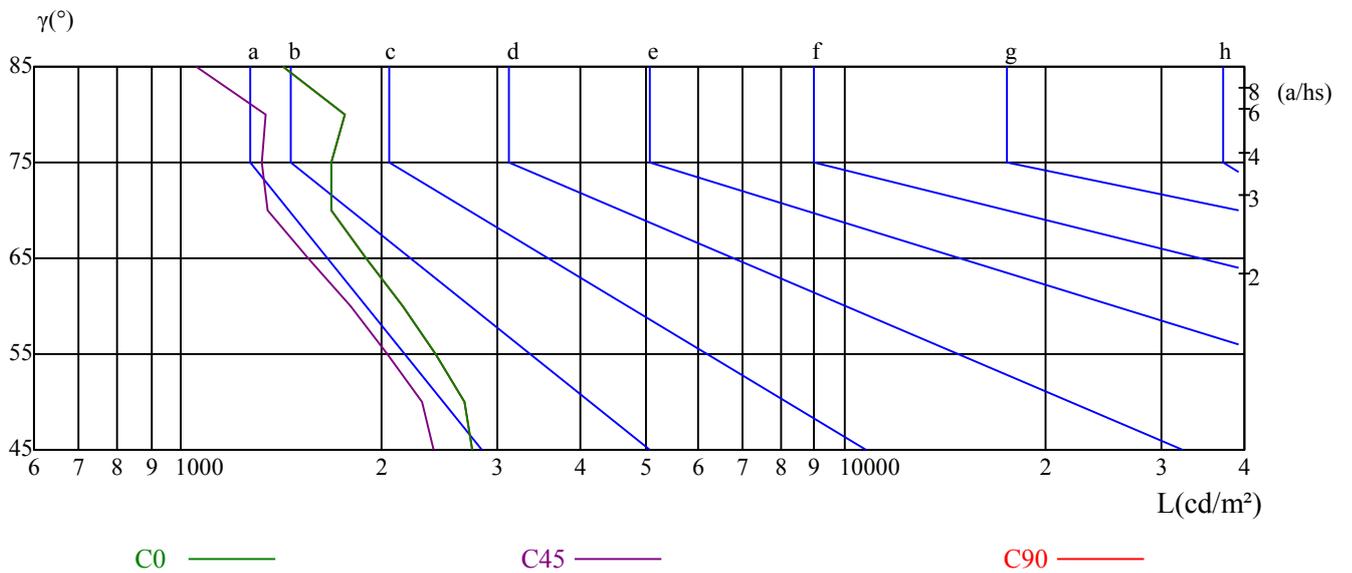
γ	45	50	55	60	65	70	75	80	85
C0	2745	2677	2413	2156	1902	1681	1688	1761	1425
C45	2396	2302	2043	1795	1555	1347	1321	1341	1050
C90	2745	2677	2413	2156	1902	1681	1688	1761	1425

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4119	4119	4119	5112	5112	5112	10276	10276	10276

Glare Table

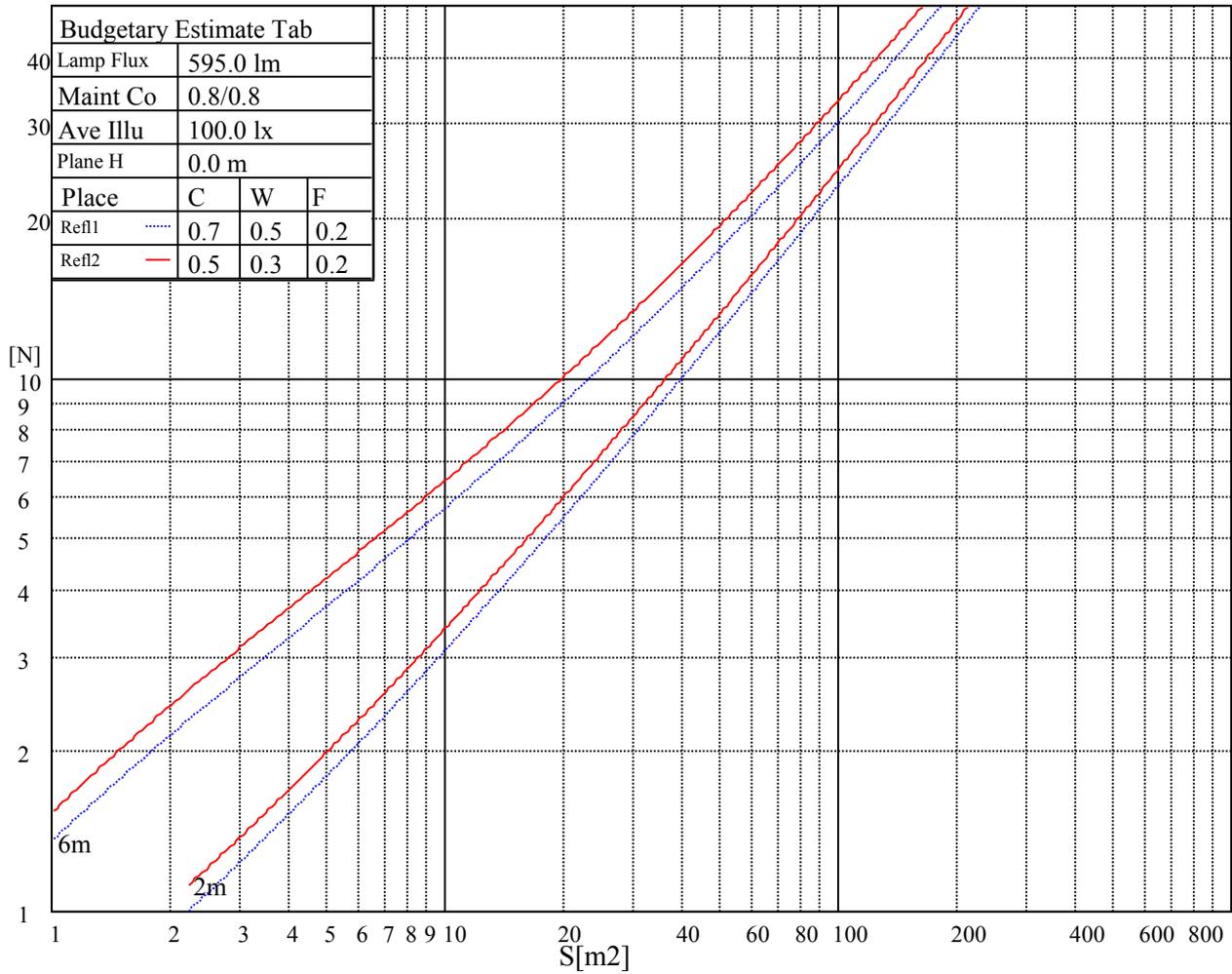
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

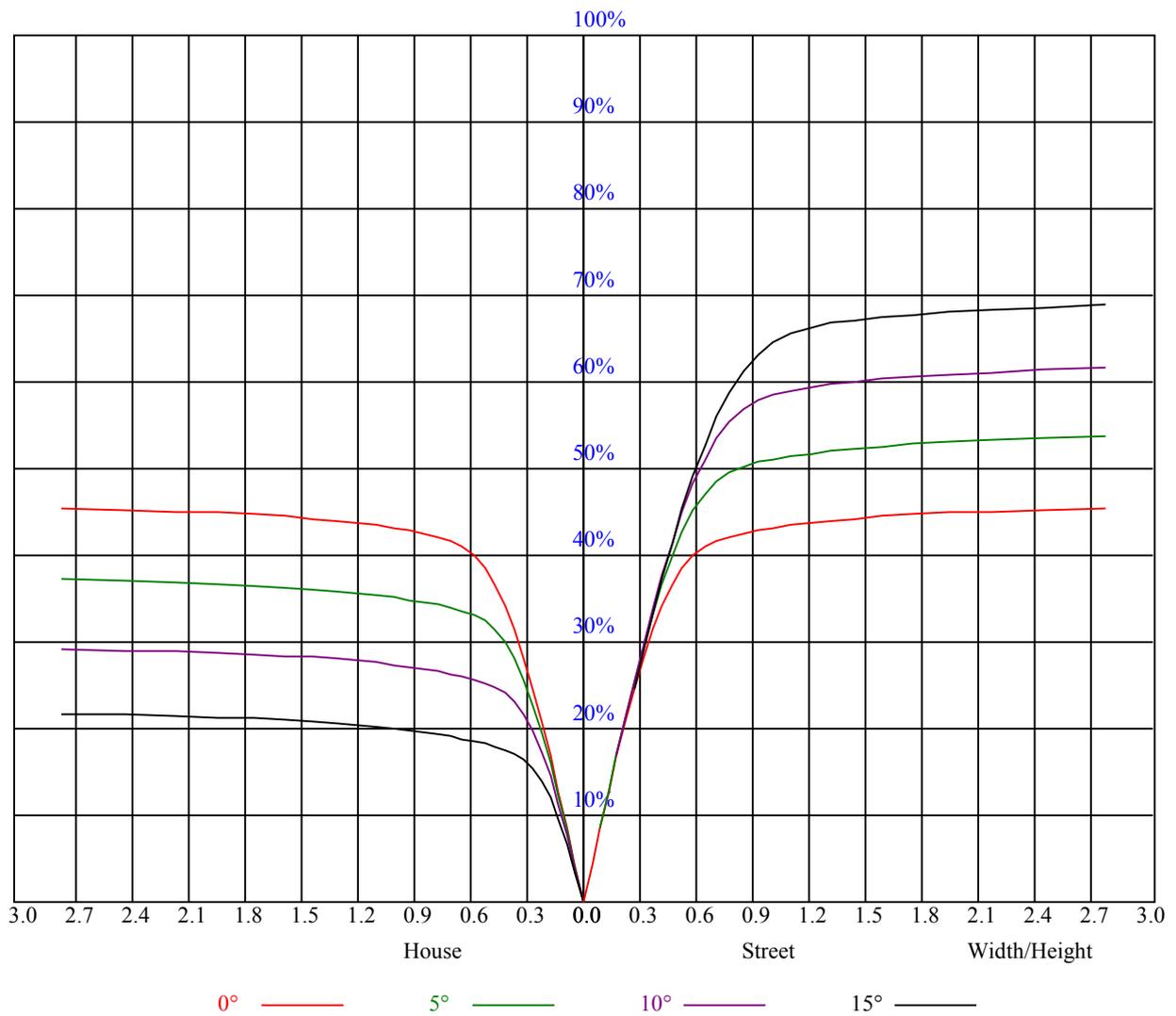


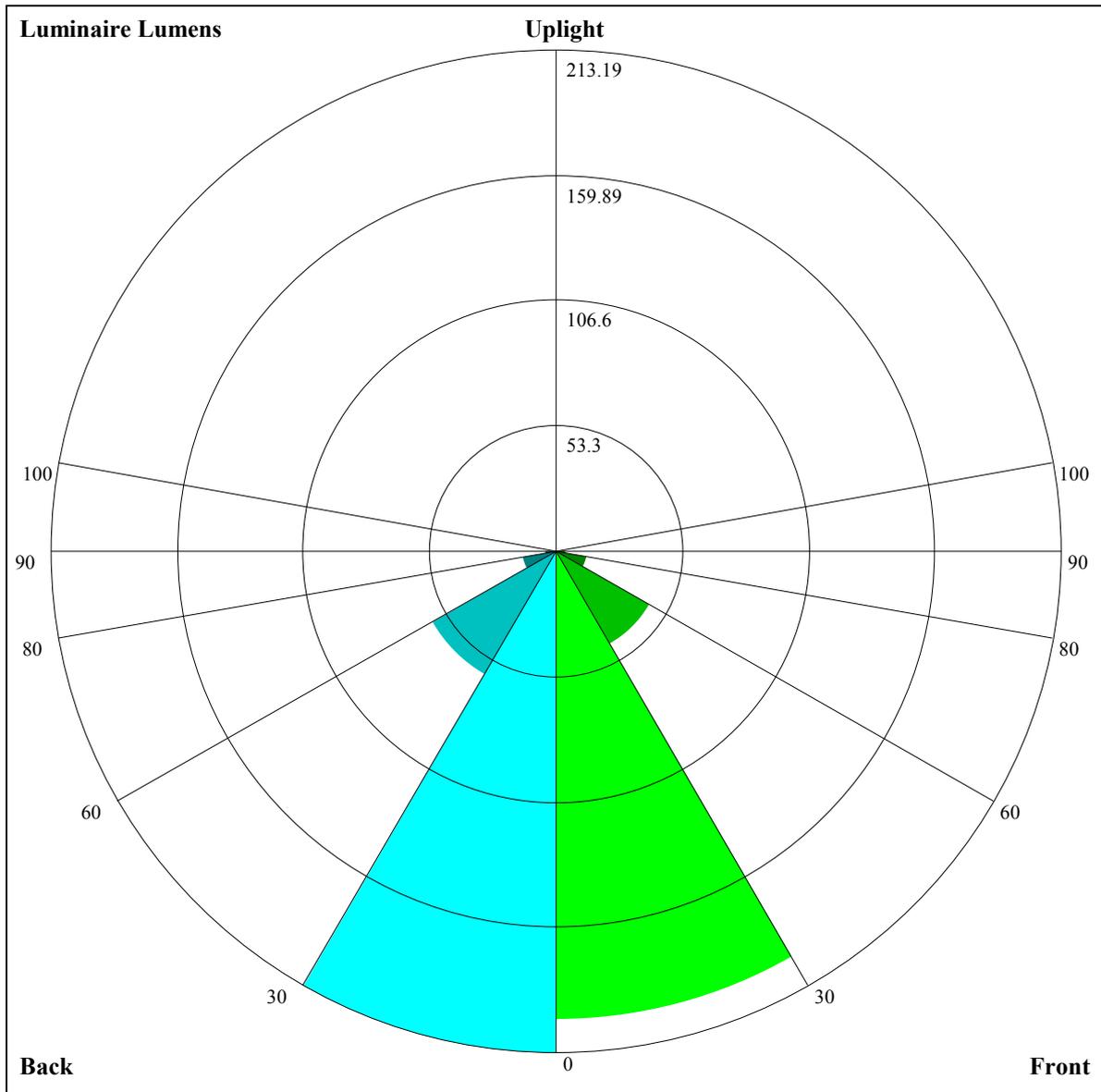
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	9.68	10.77	10.04	11.08	11.40	11.26	12.35	11.63	12.67	12.98
	3H	10.83	11.80	11.21	12.14	12.49	12.47	13.45	12.86	13.79	14.13
	4H	11.40	12.31	11.80	12.67	13.03	13.38	14.29	13.78	14.64	15.01
	6H	12.00	12.84	12.41	13.21	13.61	14.86	15.69	15.27	16.07	16.47
	8H	12.29	13.09	12.71	13.47	13.88	15.15	15.95	15.57	16.34	16.74
	12H	12.54	13.31	12.97	13.70	14.12	15.39	16.16	15.82	16.55	16.97
4H	2H	10.27	11.18	10.67	11.53	11.90	11.55	12.46	11.95	12.81	13.18
	3H	11.65	12.43	12.08	12.82	13.24	12.99	13.76	13.41	14.15	14.57
	4H	12.43	13.10	12.86	13.52	13.97	14.17	14.84	14.60	15.27	15.71
	6H	13.13	13.73	13.60	14.18	14.63	15.75	16.36	16.22	16.81	17.26
	8H	13.51	14.07	13.99	14.52	15.00	16.14	16.70	16.62	17.15	17.62
	12H	13.86	14.38	14.35	14.83	15.34	16.48	16.99	16.96	17.44	17.96
8H	4H	12.82	13.38	13.31	13.84	14.31	14.37	14.93	14.85	15.38	15.85
	6H	13.71	14.17	14.21	14.65	15.16	16.06	16.53	16.56	17.00	17.51
	8H	14.26	14.65	14.78	15.17	15.66	16.59	16.98	17.12	17.50	18.00
	12H	14.73	15.05	15.27	15.56	16.08	17.06	17.37	17.59	17.89	18.41
12H	4H	12.92	13.44	13.41	13.89	14.41	14.38	14.90	14.86	15.34	15.86
	6H	13.91	14.31	14.44	14.83	15.32	16.14	16.54	16.67	17.06	17.55
	8H	14.49	14.80	15.02	15.32	15.84	16.68	16.99	17.21	17.51	18.03
Variation with the observer position at spacings:											
S = 1.0H	2.3/-1.5					2.3/-1.5					
S = 1.5H	3.0/-1.0					3.0/-1.0					
S = 2.0H	4.0/-0.9					4.0/-0.9					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	0.3					0.3					

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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.02	0.99	0.96	1.00	0.97	0.95	0.96	0.94	0.92	0.92	0.91	0.89	0.89	0.88	0.87	0.85
2	0.94	0.90	0.86	0.92	0.88	0.85	0.89	0.86	0.83	0.86	0.84	0.81	0.84	0.82	0.80	0.78
3	0.87	0.82	0.78	0.86	0.81	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.72
4	0.81	0.76	0.72	0.80	0.75	0.71	0.78	0.74	0.70	0.76	0.73	0.70	0.75	0.71	0.69	0.67
5	0.76	0.71	0.66	0.75	0.70	0.66	0.74	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.63
6	0.72	0.66	0.62	0.71	0.65	0.62	0.70	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.59
7	0.68	0.62	0.58	0.67	0.61	0.58	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.55
8	0.64	0.58	0.54	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.52
9	0.60	0.55	0.51	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.50	0.49
10	0.57	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.55	0.51	0.48	0.47





Luminaire Lumens:

FL=199.17,FM=45.87,FH=12.98,FVH=4.22

BL=213.19,BM=60.38,BH=14.43,BVH=4.63

UL=0,UH=0

BUG Rating:B1-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	603.08	603.72	604.58	605.37	605.91	604.79	603.51	601.16	598.02
45.0	602.18	601.86	602.07	602.23	602.50	603.19	602.98	602.02	600.79
90.0	601.32	601.64	602.44	603.67	604.89	605.85	606.23	606.12	605.27
135.0	602.07	601.80	602.23	603.30	605.53	607.45	609.96	611.98	612.94
180.0	603.08	602.28	602.71	604.04	605.48	607.61	609.96	612.20	614.33
225.0	602.18	603.24	604.63	606.81	607.99	610.97	612.46	613.15	613.53
270.0	601.32	601.86	603.51	605.16	606.76	607.77	610.49	611.56	611.82
315.0	602.07	603.78	604.63	605.59	606.97	607.72	607.24	605.75	603.51
360.0	603.08	603.72	604.58	605.37	605.91	604.79	603.51	601.16	598.02
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	595.04	592.74	590.19	587.10	582.57	576.01	567.38	557.15	550.27
45.0	599.46	597.17	594.77	592.16	590.13	585.60	580.06	574.31	565.25
90.0	604.04	601.75	599.19	597.81	593.38	588.59	584.43	572.01	561.30
135.0	613.31	612.62	611.50	608.73	605.32	602.23	598.45	592.05	584.80
180.0	615.77	616.62	616.14	614.81	612.25	608.63	604.58	600.31	594.88
225.0	613.63	613.42	611.72	609.10	606.07	602.02	596.74	590.40	582.19
270.0	611.29	610.60	608.52	605.11	601.22	597.01	592.11	586.40	578.89
315.0	600.31	597.22	594.08	591.15	587.84	582.99	576.54	568.98	559.81
360.0	595.04	592.74	590.19	587.10	582.57	576.01	567.38	557.15	550.27
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	537.91	516.01	505.35	486.11	463.89	435.86	402.07	363.97	323.74
45.0	554.11	541.00	526.29	510.31	492.19	471.83	448.06	419.34	384.11
90.0	553.79	539.88	524.32	507.32	488.08	466.98	443.85	414.92	380.49
135.0	575.85	564.71	556.72	536.58	526.88	509.24	490.27	470.18	448.06
180.0	587.04	578.89	567.96	555.23	540.57	524.85	507.00	487.55	466.39
225.0	572.23	560.88	547.18	532.69	516.91	499.22	479.93	467.03	430.26
270.0	570.52	560.88	549.58	536.31	521.07	504.66	485.42	463.84	442.68
315.0	549.10	536.15	521.44	508.33	489.74	464.64	442.73	410.33	373.88
360.0	537.91	516.01	505.35	486.11	463.89	435.86	402.07	363.97	323.74
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	282.38	240.82	200.37	161.79	127.04	97.25	73.11	54.09	40.55
45.0	346.44	306.63	266.08	225.84	186.83	150.33	117.40	90.11	76.15
90.0	342.87	302.95	262.24	220.67	182.57	146.65	115.05	88.09	66.35
135.0	421.95	389.66	352.83	313.29	272.47	231.92	191.31	152.78	118.84
180.0	452.86	413.96	393.81	356.88	302.37	278.55	239.01	200.74	163.17
225.0	396.80	375.16	320.54	295.92	255.15	214.97	176.66	141.38	110.58
270.0	403.83	367.70	336.53	287.02	254.14	213.85	175.11	139.78	109.30
315.0	333.81	292.46	249.98	208.04	166.96	129.76	99.39	74.39	55.85
360.0	282.38	240.82	200.37	161.79	127.04	97.25	73.11	54.09	40.55
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	31.65	26.49	24.46	22.81	22.12	21.74	21.42	21.10	20.73
45.0	51.48	43.96	34.85	28.24	26.96	25.95	25.85	26.06	26.27
90.0	52.92	38.53	31.23	27.98	26.17	25.79	26.01	26.43	26.80
135.0	90.65	68.10	50.79	38.85	31.28	27.76	25.26	24.99	25.21
180.0	129.76	100.56	76.47	58.03	44.18	35.22	29.63	27.12	26.33
225.0	84.73	64.05	49.03	38.00	31.23	27.18	24.99	24.09	23.82
270.0	83.72	63.73	48.81	38.64	31.97	28.30	26.75	26.43	26.27
315.0	42.63	34.32	29.79	27.82	27.28	27.44	27.71	27.76	27.60
360.0	31.65	26.49	24.46	22.81	22.12	21.74	21.42	21.10	20.73

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	20.30	19.93	19.45	18.92	18.28	17.64	17.00	16.41	15.88
45.0	26.33	26.22	26.06	25.74	25.31	24.78	24.14	23.50	22.75
90.0	27.07	27.23	27.23	27.07	26.80	26.27	25.69	25.05	24.30
135.0	25.53	25.95	26.06	26.17	26.06	25.90	25.58	25.15	24.62
180.0	26.43	26.86	27.18	27.34	27.39	27.28	26.96	26.27	25.90
225.0	23.71	23.55	23.34	23.02	22.70	22.17	21.42	20.84	20.09
270.0	26.17	26.01	25.69	25.26	24.78	24.46	23.55	23.18	22.44
315.0	27.34	26.75	25.95	25.10	24.25	23.45	22.65	22.01	21.42
360.0	20.30	19.93	19.45	18.92	18.28	17.64	17.00	16.41	15.88
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.29	14.81	14.34	13.80	13.32	12.95	12.58	12.15	11.83
45.0	21.96	21.16	20.68	19.56	19.08	18.33	17.64	16.84	16.09
90.0	23.50	22.65	21.80	21.00	20.25	19.50	19.08	18.44	17.75
135.0	24.09	23.50	22.91	22.33	21.80	21.21	20.52	19.93	19.29
180.0	25.31	24.62	23.98	23.39	22.91	22.33	21.80	21.16	20.52
225.0	19.29	18.60	17.91	17.21	16.52	15.88	15.35	14.81	14.34
270.0	21.69	20.94	20.25	19.50	18.76	18.12	17.53	16.95	16.36
315.0	20.78	20.14	19.50	18.92	18.39	17.75	17.21	16.57	15.93
360.0	15.29	14.81	14.34	13.80	13.32	12.95	12.58	12.15	11.83
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.40	11.08	10.76	10.39	10.07	9.75	9.43	9.11	8.79
45.0	15.40	14.71	14.02	13.43	12.84	12.31	11.99	12.04	12.31
90.0	17.05	16.36	15.67	15.03	14.34	13.70	13.16	12.68	12.26
135.0	18.60	17.85	17.48	16.68	15.99	15.29	14.55	13.91	13.38
180.0	19.77	18.97	18.17	17.37	16.52	15.77	15.19	14.34	13.64
225.0	13.80	13.38	12.90	12.42	12.04	11.62	11.19	10.87	10.87
270.0	15.83	15.24	14.65	14.07	13.59	13.22	12.58	12.10	11.88
315.0	15.35	15.03	14.23	13.91	13.32	12.79	12.36	11.99	11.62
360.0	11.40	11.08	10.76	10.39	10.07	9.75	9.43	9.11	8.79
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.47	8.21	7.89	7.62	7.41	7.19	7.03	6.82	6.71
45.0	12.42	11.83	11.03	10.50	9.75	9.22	8.79	8.53	8.31
90.0	11.83	11.72	13.16	14.87	17.00	18.44	18.60	16.68	12.90
135.0	12.84	12.31	11.83	11.46	11.03	10.71	10.60	10.55	10.23
180.0	13.22	12.58	12.20	11.72	11.30	10.92	10.60	10.28	9.91
225.0	11.40	11.72	11.72	11.08	10.66	10.02	9.22	8.63	8.42
270.0	11.46	11.24	11.03	11.51	13.70	16.41	18.76	19.93	18.92
315.0	11.30	11.03	10.87	10.82	10.60	9.97	9.59	9.38	9.11
360.0	8.47	8.21	7.89	7.62	7.41	7.19	7.03	6.82	6.71
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.61	6.34	5.97	5.76	5.28	5.01	4.80	4.69	4.58
45.0	8.05	7.73	7.51	7.14	6.82	6.55	6.29	6.02	5.86
90.0	11.35	9.33	8.90	8.58	8.37	8.05	7.78	7.57	7.51
135.0	9.43	9.11	8.79	8.53	8.21	7.83	7.46	7.14	6.77
180.0	9.65	9.38	9.11	8.85	8.53	8.21	7.89	7.51	7.25
225.0	8.26	7.94	7.78	7.51	7.25	6.98	6.66	6.29	6.08
270.0	14.76	9.81	9.11	8.79	8.58	8.21	7.99	7.83	7.62
315.0	8.95	8.69	8.37	7.94	7.62	7.25	7.03	6.71	6.55
360.0	6.61	6.34	5.97	5.76	5.28	5.01	4.80	4.69	4.58

Intensity data(cd)

C/γ(°)	90.0
0.0	4.58
45.0	5.76
90.0	7.46
135.0	6.50
180.0	6.82
225.0	5.97
270.0	7.46
315.0	6.50
360.0	4.58