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NT

Client: NT

LumCAT: 61-0216

Luminaire: 92.70.427.00

Report No: 2024926-B017

Ballast type: AC

Test No: 2024826-C017

Voltage(V): 35.250

LampCAT: CITIZEN CLU028 LES9.8

Current(A): 0.361

Lamp flux(lm): 1612.4

Power (W): 12.725

Number of Lamps: 1

PF: 0.000

Length(mm): 50

Width(mm): 50

Phm Type: C

Height(mm): 24

### Photometric Results

Lumens(lm): 1529.82, Efficiency(%): 94.88% , Luminous Efficacy(lm/W): 120.22

Central intensity(cd): 7639.294, Maximum intensity(cd): 7639.294

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=22.8

[C90/270]Total=22.8

Field angle(10%Imax): [C0/180]Total=41.4

[C90/270]Total=41.4

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(%): 94.88%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.426%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/8/26  
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	7639.293	0.000	0	0.00%	0.00%
1.0	7598.327	7.291	7.291	0.45%	0.48%
2.0	7480.917	21.643	28.934	1.34%	1.89%
3.0	7300.228	35.352	64.286	2.19%	4.20%
4.0	7018.369	47.929	112.215	2.97%	7.34%
5.0	6698.617	59.010	171.224	3.66%	11.19%
6.0	6313.539	68.382	239.607	4.24%	15.66%
7.0	5884.789	75.715	315.322	4.70%	20.61%
8.0	5448.723	81.112	396.433	5.03%	25.91%
9.0	4984.639	84.557	480.99	5.24%	31.44%
10.0	4497.147	85.807	566.797	5.32%	37.05%
11.0	4006.728	84.971	651.768	5.27%	42.60%
12.0	3540.889	82.506	734.274	5.12%	48.00%
13.0	3089.681	78.688	812.962	4.88%	53.14%
14.0	2642.057	73.366	886.328	4.55%	57.94%
15.0	2270.805	67.446	953.774	4.18%	62.35%
16.0	1797.519	59.612	1013.386	3.70%	66.24%
17.0	1474.533	50.955	1064.341	3.16%	69.57%
18.0	1280.758	45.429	1109.77	2.82%	72.54%
19.0	1076.668	41.014	1150.784	2.54%	75.22%
20.0	869.330	35.617	1186.401	2.21%	77.55%
21.0	709.776	30.322	1216.723	1.88%	79.53%
22.0	581.611	25.951	1242.674	1.61%	81.23%
23.0	464.778	21.956	1264.63	1.36%	82.67%
24.0	376.929	18.403	1283.033	1.14%	83.87%
25.0	308.692	15.590	1298.623	0.97%	84.89%
26.0	263.395	13.504	1312.127	0.84%	85.77%
27.0	244.251	12.420	1324.546	0.77%	86.58%
28.0	179.232	10.722	1335.268	0.66%	87.28%
29.0	150.834	8.635	1343.904	0.54%	87.85%
30.0	128.918	7.553	1351.457	0.47%	88.34%
31.0	112.758	6.725	1358.182	0.42%	88.78%
32.0	99.883	6.092	1364.274	0.38%	89.18%
33.0	89.283	5.573	1369.847	0.35%	89.54%
34.0	81.193	5.159	1375.006	0.32%	89.88%
35.0	74.828	4.845	1379.852	0.30%	90.20%
36.0	69.861	4.607	1384.459	0.29%	90.50%
37.0	65.596	4.418	1388.877	0.27%	90.79%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	62.385	4.272	1393.148	0.26%	91.07%
39.0	59.920	4.175	1397.323	0.26%	91.34%
40.0	57.637	4.100	1401.423	0.25%	91.61%
41.0	55.765	4.038	1405.461	0.25%	91.87%
42.0	54.206	3.995	1409.457	0.25%	92.13%
43.0	52.882	3.967	1413.424	0.25%	92.39%
44.0	51.514	3.940	1417.364	0.24%	92.65%
45.0	50.410	3.917	1421.281	0.24%	92.90%
46.0	49.349	3.901	1425.182	0.24%	93.16%
47.0	48.369	3.886	1429.069	0.24%	93.41%
48.0	47.337	3.869	1432.938	0.24%	93.67%
49.0	46.423	3.850	1436.788	0.24%	93.92%
50.0	45.362	3.827	1440.615	0.24%	94.17%
51.0	44.250	3.791	1444.406	0.24%	94.42%
52.0	43.029	3.745	1448.151	0.23%	94.66%
53.0	41.756	3.688	1451.84	0.23%	94.90%
54.0	40.351	3.619	1455.458	0.22%	95.14%
55.0	38.903	3.538	1458.996	0.22%	95.37%
56.0	37.359	3.446	1462.442	0.21%	95.60%
57.0	35.662	3.339	1465.781	0.21%	95.81%
58.0	34.133	3.228	1469.009	0.20%	96.02%
59.0	32.648	3.122	1472.131	0.19%	96.23%
60.0	31.083	3.011	1475.142	0.19%	96.43%
61.0	29.612	2.896	1478.038	0.18%	96.62%
62.0	28.281	2.790	1480.828	0.17%	96.80%
63.0	26.964	2.687	1483.515	0.17%	96.97%
64.0	25.735	2.586	1486.1	0.16%	97.14%
65.0	24.609	2.491	1488.592	0.15%	97.30%
66.0	23.592	2.405	1490.997	0.15%	97.46%
67.0	22.524	2.319	1493.316	0.14%	97.61%
68.0	21.595	2.235	1495.551	0.14%	97.76%
69.0	20.754	2.160	1497.711	0.13%	97.90%
70.0	19.949	2.090	1499.801	0.13%	98.04%
71.0	19.188	2.023	1501.824	0.13%	98.17%
72.0	18.449	1.957	1503.781	0.12%	98.30%
73.0	17.718	1.891	1505.673	0.12%	98.42%
74.0	17.015	1.826	1507.499	0.11%	98.54%
75.0	16.364	1.764	1509.262	0.11%	98.66%

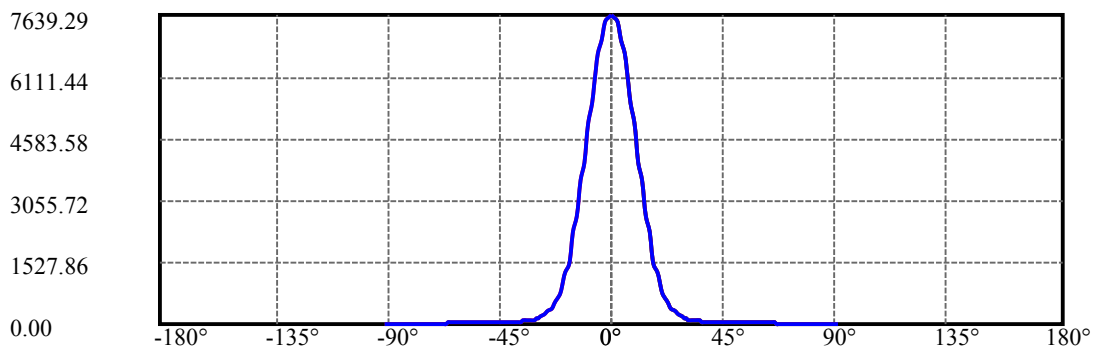
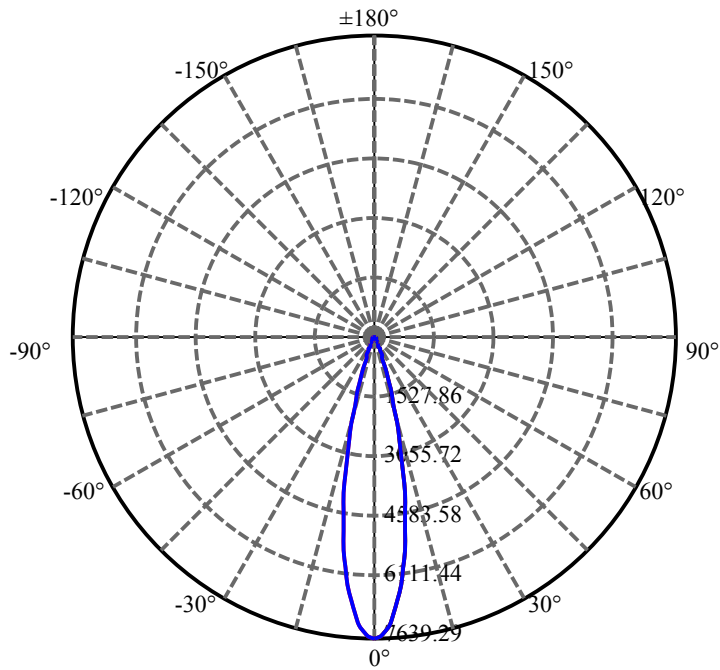
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.655	1.700	1510.962	0.11%	98.77%
77.0	14.923	1.630	1512.592	0.10%	98.87%
78.0	14.404	1.570	1514.162	0.10%	98.98%
79.0	13.914	1.521	1515.684	0.09%	99.08%
80.0	13.453	1.475	1517.159	0.09%	99.17%
81.0	13.036	1.432	1518.591	0.09%	99.27%
82.0	12.648	1.393	1519.984	0.09%	99.36%
83.0	12.290	1.356	1521.34	0.08%	99.45%
84.0	11.975	1.322	1522.662	0.08%	99.53%
85.0	11.829	1.299	1523.961	0.08%	99.62%
86.0	11.463	1.273	1525.234	0.08%	99.70%
87.0	10.922	1.225	1526.459	0.08%	99.78%
88.0	10.366	1.166	1527.625	0.07%	99.86%
89.0	9.993	1.116	1528.741	0.07%	99.93%
90.0	9.715	1.081	1529.822	0.07%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1351.46	83.82%	88.34%
0-40	1401.42	86.91%	91.61%
0-60	1475.14	91.49%	96.43%
0-90	1528.74	94.81%	99.93%
0-120	1528.74	94.81%	99.93%
0-180	1529.82	94.88%	100.00%
60-90	53.60	3.32%	3.50%
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%
0-21.27	1223.86	75.90%	80.00%

ZONAL LUMEN SUMMARY

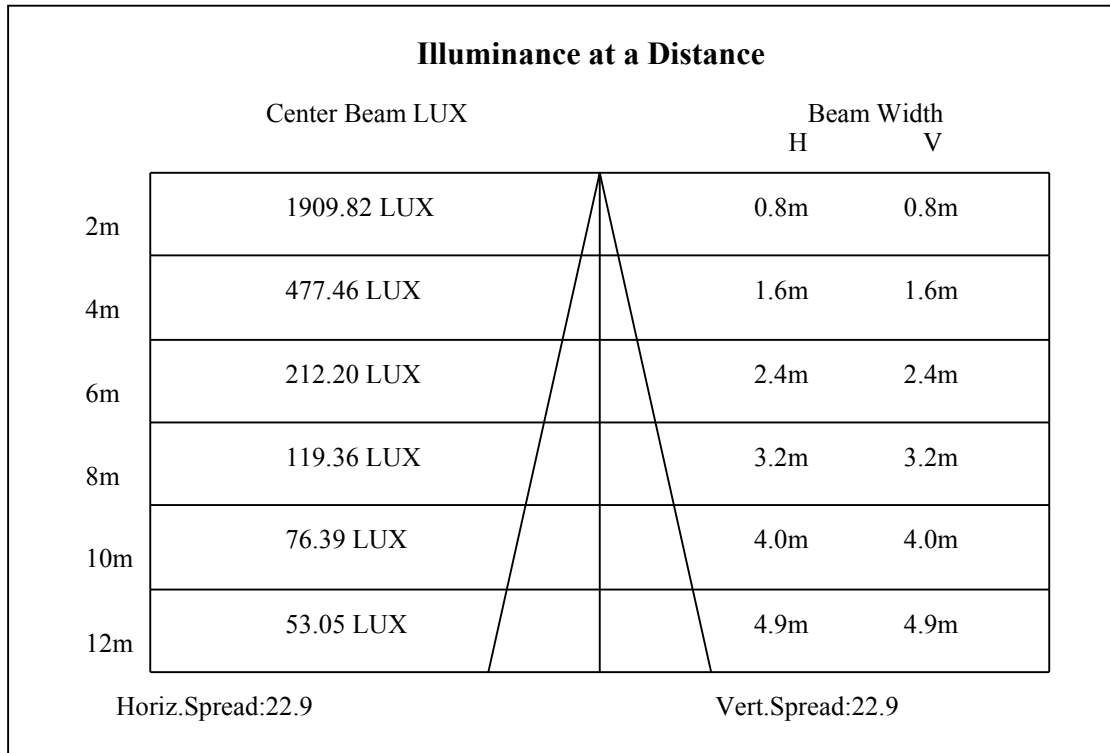
0-10	566.80
10-20	619.60
20-30	165.06
30-40	49.97
40-50	39.19
50-60	34.53
60-70	24.66
70-80	17.36
80-90	11.58
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

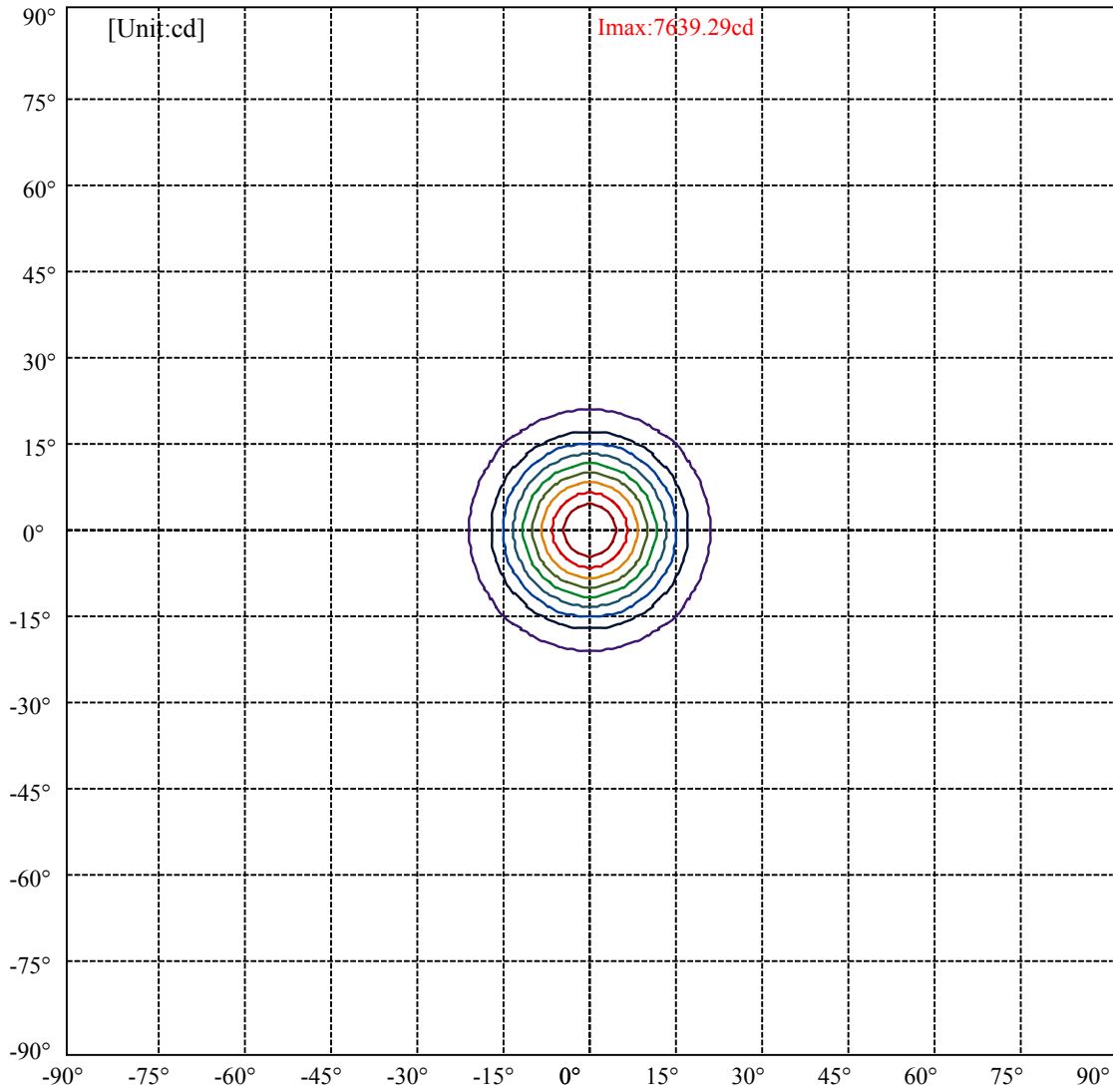


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:20.7 Right:20.7  
:C90/270Left:20.7 Right:20.7

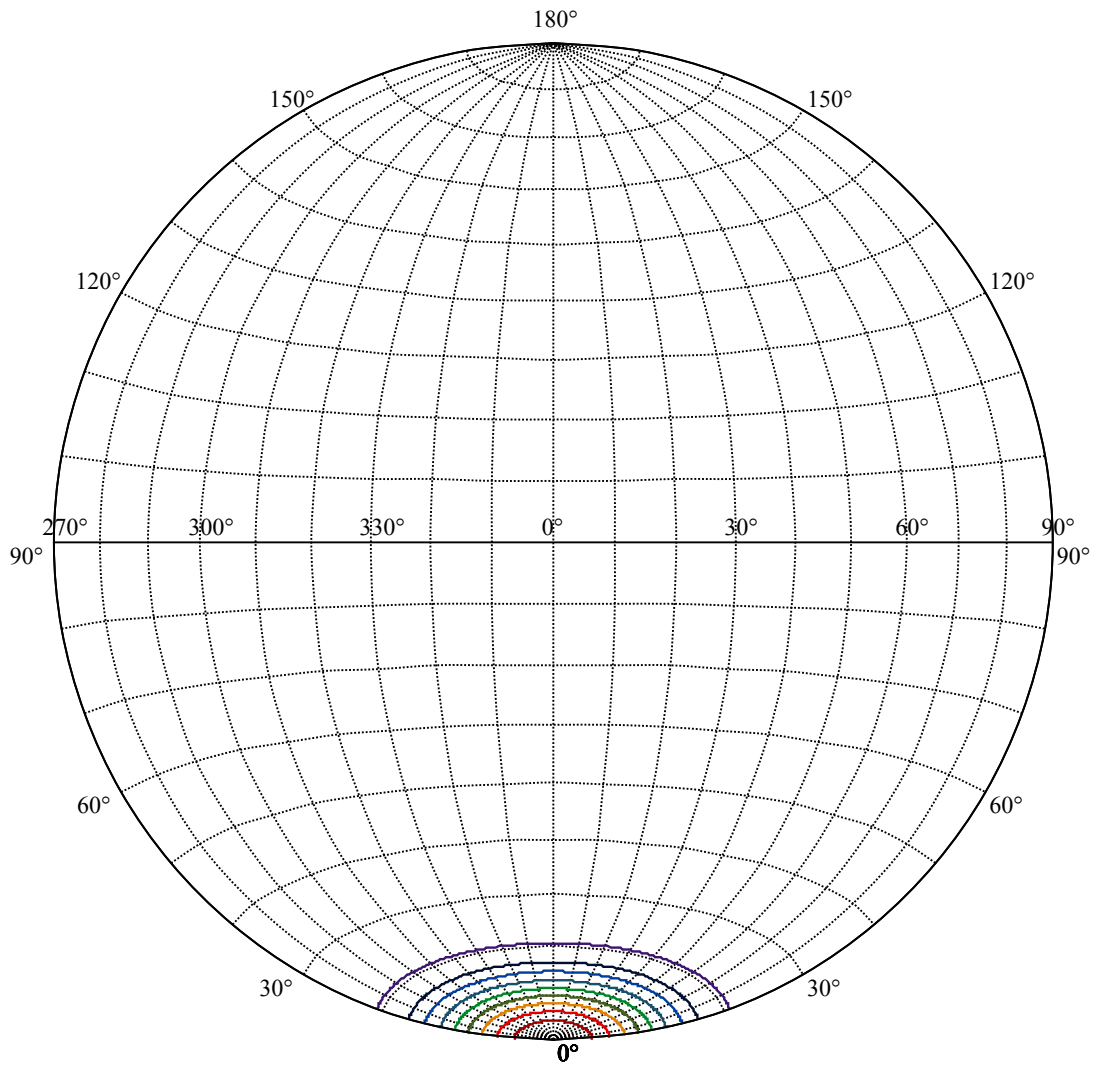
Beam Angle(50%Imax):C0/180Left:11.4 Right:11.4  
:C90/270Left:11.4 Right:11.4





(10%Imax) 763.929	—
(20%Imax) 1527.86	—
(30%Imax) 2291.79	—
(40%Imax) 3055.72	—
(50%Imax) 3819.65	—
(60%Imax) 4583.58	—
(70%Imax) 5347.51	—
(80%Imax) 6111.44	—
(90%Imax) 6875.36	—





House

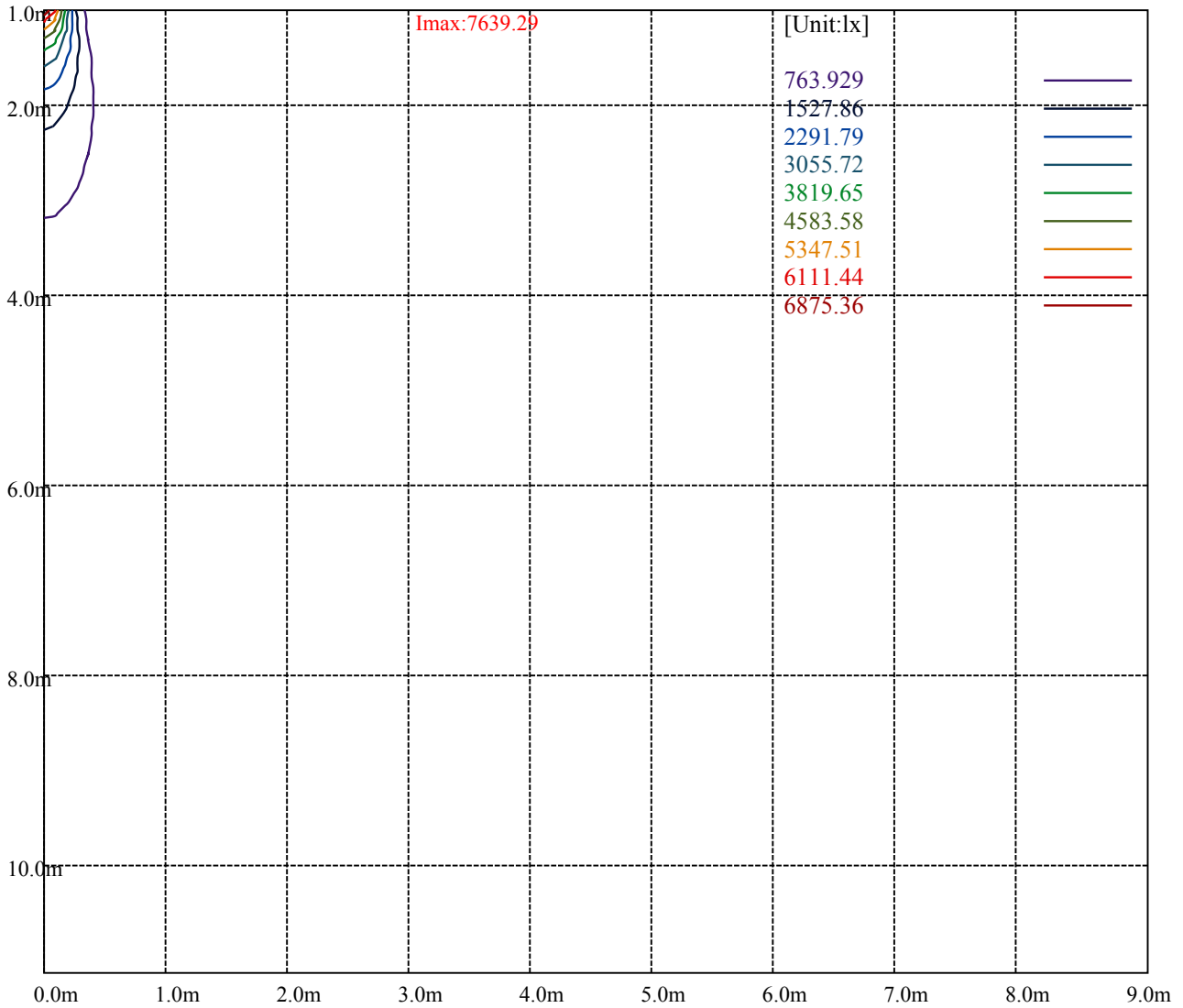
[Unit:cd]

Road

**Imax:7639.29**

(10%Imax) 763.929	—
(20%Imax) 1527.86	—
(30%Imax) 2291.79	—
(40%Imax) 3055.72	—
(50%Imax) 3819.65	—
(60%Imax) 4583.58	—
(70%Imax) 5347.51	—
(80%Imax) 6111.44	—
(90%Imax) 6875.36	—





Luminance Table

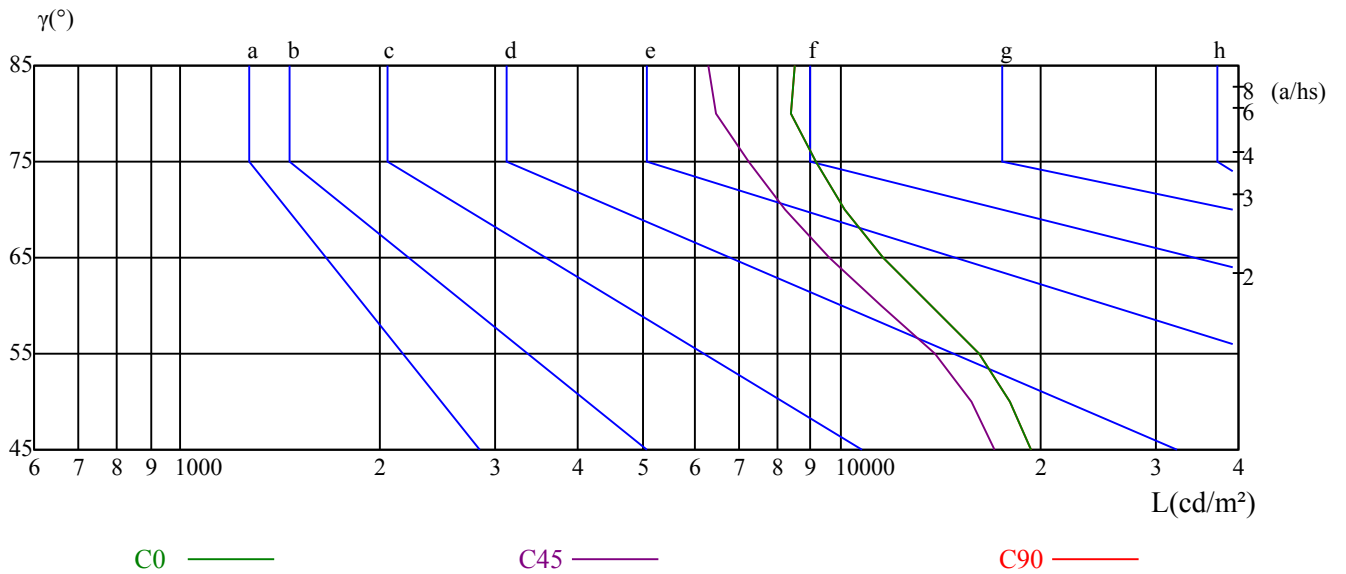
$\gamma$	45	50	55	60	65	70	75	80	85
C0	19372	18066	16206	13681	11575	10158	9158	8428	8489
C45	17101	15722	13889	11533	9579	8233	7244	6475	6291
C90	19372	18066	16206	13681	11575	10158	9158	8428	8489

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
23292	23292	23292	25291	25291	25291	54288	54288	54288

Glare Table

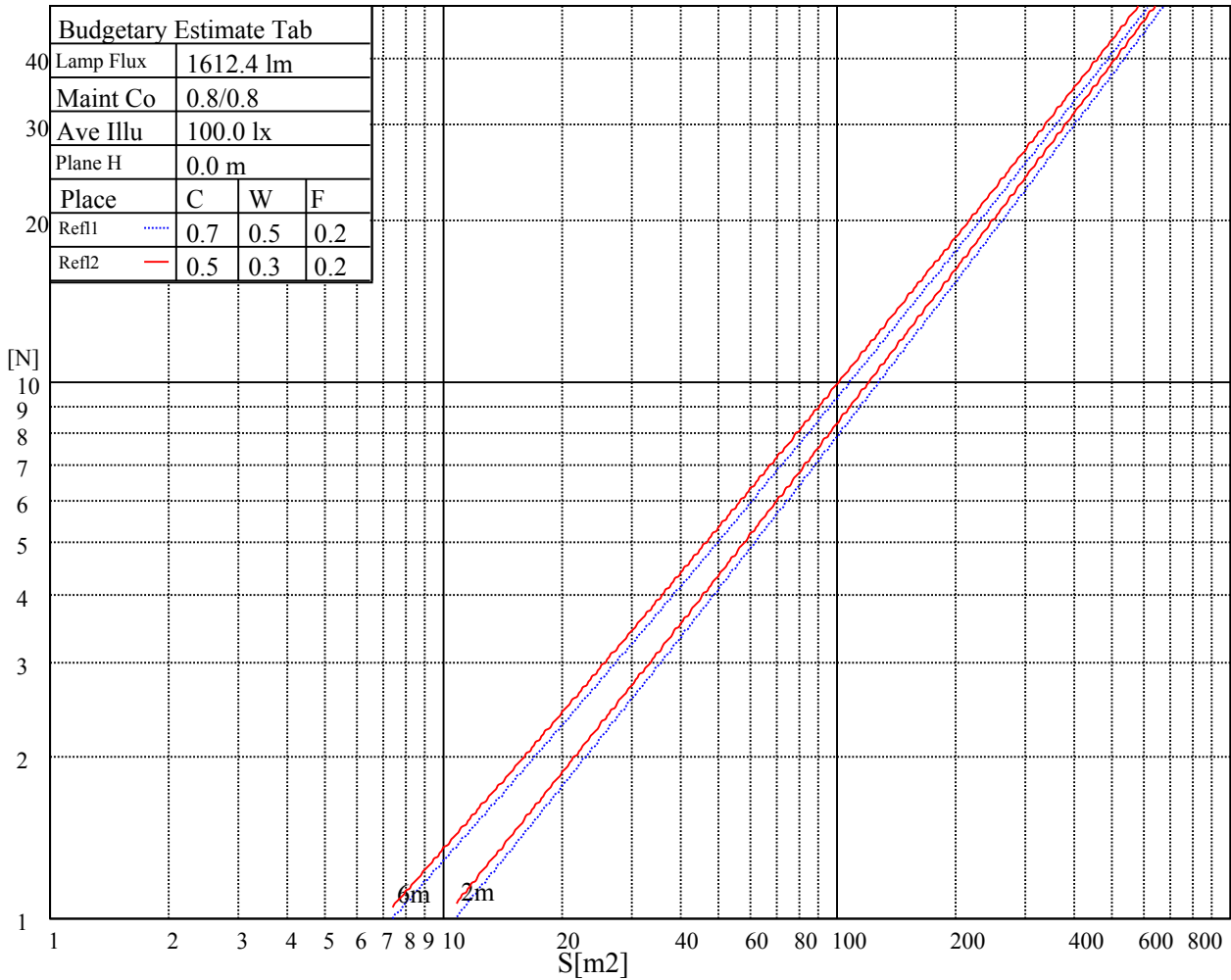
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

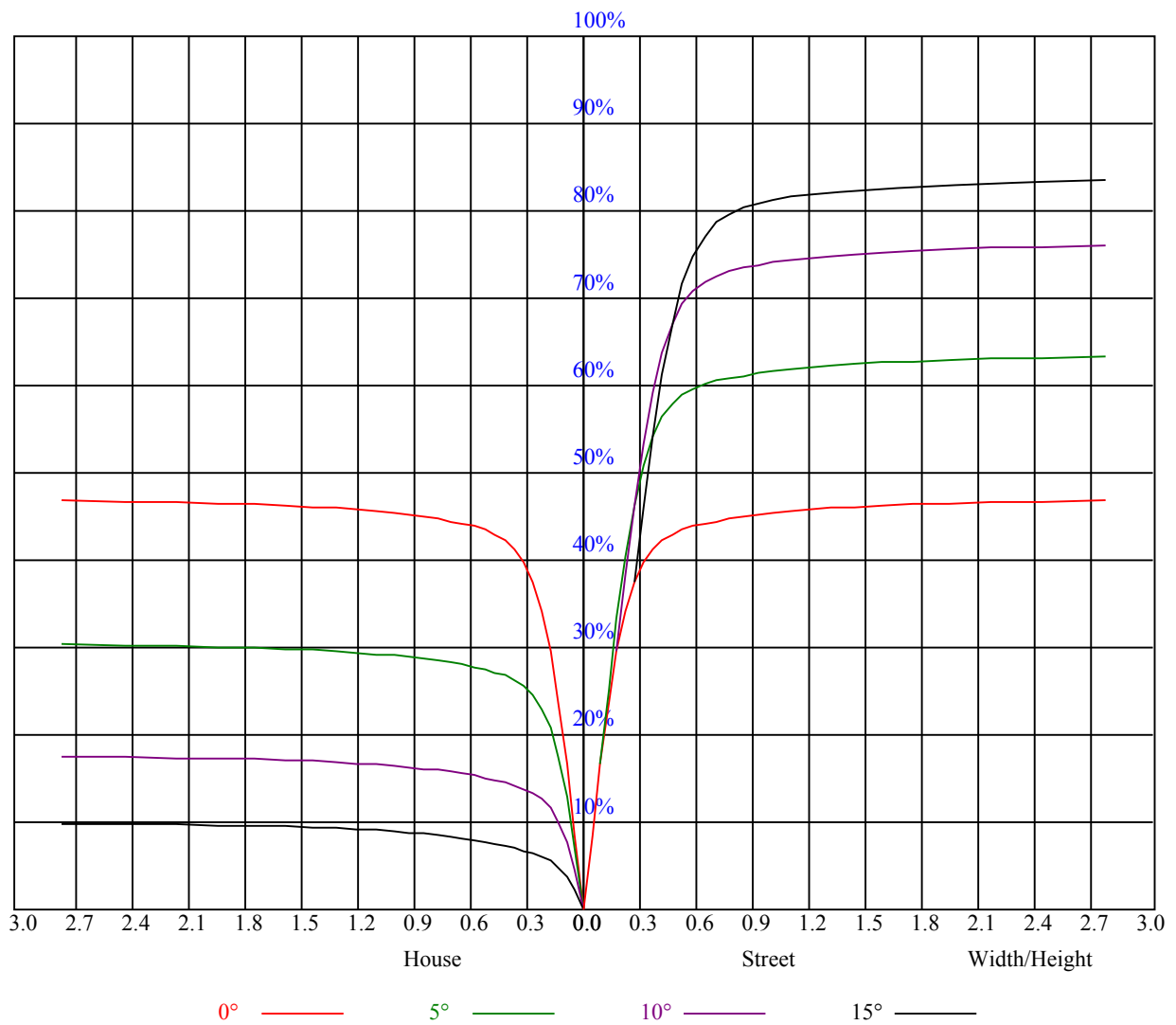


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.32	16.33	15.68	16.64	16.95	15.48	16.49	15.84	16.80	17.12
	3H	16.58	17.48	16.96	17.82	18.16	16.72	17.63	17.11	17.96	18.31
	4H	17.17	18.00	17.57	18.36	18.72	17.30	18.14	17.70	18.49	18.86
	6H	17.75	18.52	18.17	18.89	19.29	17.90	18.66	18.31	19.04	19.44
	8H	18.02	18.76	18.44	19.14	19.55	18.18	18.92	18.61	19.30	19.71
	12H	18.32	19.02	18.75	19.41	19.83	18.49	19.19	18.92	19.58	20.00
4H	2H	15.80	16.64	16.20	16.99	17.36	15.93	16.77	16.33	17.12	17.49
	3H	17.22	17.92	17.64	18.32	18.73	17.33	18.04	17.76	18.43	18.85
	4H	17.98	18.60	18.42	19.02	19.47	18.09	18.70	18.53	19.12	19.57
	6H	18.68	19.22	19.15	19.67	20.12	18.80	19.34	19.27	19.79	20.24
	8H	19.05	19.56	19.54	20.01	20.49	19.19	19.70	19.68	20.15	20.63
	12H	19.47	19.93	19.96	20.38	20.90	19.62	20.08	20.11	20.53	21.05
8H	4H	18.20	18.71	18.69	19.16	19.64	18.30	18.80	18.78	19.26	19.73
	6H	19.08	19.49	19.58	19.97	20.48	19.19	19.60	19.69	20.08	20.59
	8H	19.63	19.98	20.16	20.50	21.00	19.76	20.11	20.29	20.63	21.13
	12H	20.20	20.47	20.74	20.99	21.51	20.34	20.61	20.88	21.13	21.65
12H	4H	18.23	18.70	18.72	19.15	19.67	18.32	18.79	18.81	19.24	19.76
	6H	19.21	19.56	19.75	20.09	20.58	19.32	19.67	19.85	20.19	20.69
	8H	19.80	20.07	20.34	20.58	21.11	19.92	20.19	20.46	20.71	21.23
Variation with the observer position at spacings:											
S = 1.0H	0.2/-0.7					0.2/-0.7					
S = 1.5H	0.5/-0.8					0.5/-0.8					
S = 2.0H	1.0/-0.9					1.0/-0.9					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	4.0					4.0					

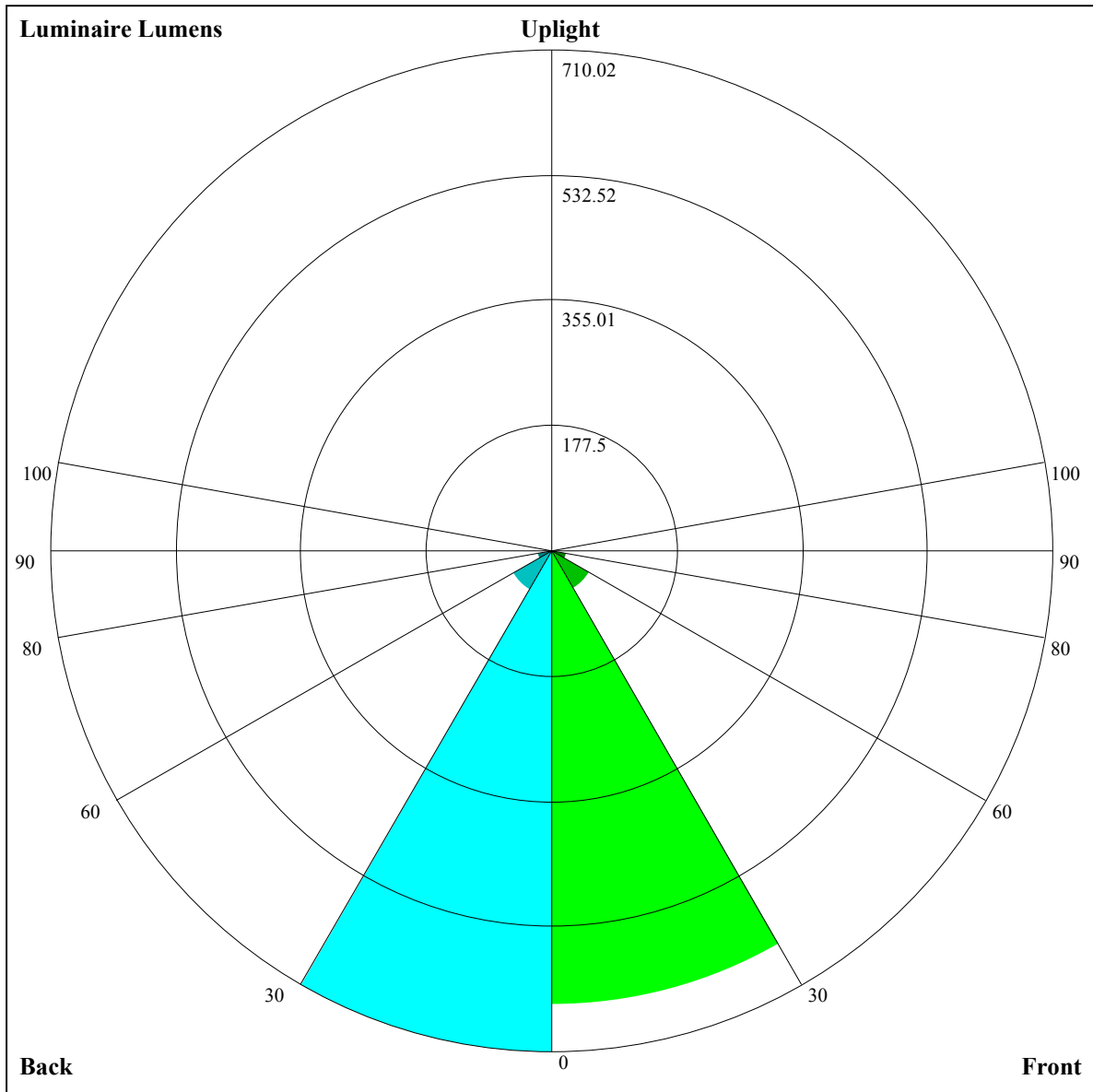
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.93	0.92	0.90
2	1.00	0.97	0.94	0.99	0.96	0.93	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.88	0.86
3	0.96	0.92	0.89	0.94	0.91	0.88	0.92	0.89	0.87	0.90	0.87	0.85	0.88	0.86	0.84	0.83
4	0.91	0.87	0.84	0.90	0.87	0.84	0.89	0.85	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.80
5	0.88	0.84	0.81	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.79	0.83	0.80	0.78	0.77
6	0.85	0.81	0.77	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.75
7	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.76	0.74	0.73
8	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.77	0.74	0.72	0.71
9	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.75	0.72	0.70	0.69
10	0.75	0.71	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67







Luminaire Lumens:

FL=644.1,FM=61.16,FH=20.62,FVH=6.27

BL=710.02,BM=62.92,BH=21.38,BVH=6.42

UL=0,UH=0

BUG Rating:B2-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	7605.06	7479.23	7276.16	7023.93	6618.95	6258.45	5847.04	5432.70	4888.44
45.0	7654.22	7647.19	7537.76	7392.62	7115.81	6819.69	6483.77	6006.81	5603.00
90.0	7676.45	7609.74	7486.26	7298.98	6966.58	6646.46	6194.67	5786.18	5361.30
135.0	7621.44	7686.99	7685.82	7606.81	7414.27	7180.77	6893.42	6467.38	6065.92
180.0	7605.06	7671.19	7646.61	7558.24	7352.24	7112.88	6733.66	6380.18	5983.98
225.0	7654.22	7592.18	7407.84	7200.67	6928.54	6604.32	6143.17	5720.63	5285.81
270.0	7676.45	7644.85	7556.48	7332.34	7090.06	6784.57	6446.31	5956.48	5535.70
315.0	7621.44	7455.24	7250.41	6988.23	6660.50	6181.79	5766.28	5327.95	4865.62
360.0	7605.06	7479.23	7276.16	7023.93	6618.95	6258.45	5847.04	5432.70	4888.44
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4436.65	3999.49	3447.62	3025.67	2523.55	2167.73	1836.49	1126.21	1126.21
45.0	5178.13	4732.19	4285.66	3732.04	3303.65	2889.31	2500.72	2044.83	1721.79
90.0	4932.33	4358.23	3905.85	3464.01	3035.62	2550.47	2187.63	1855.81	1152.07
135.0	5536.29	5109.66	4647.92	4082.00	3632.55	3205.34	2788.66	2306.43	1955.30
180.0	5568.47	5018.36	4564.23	4110.09	3652.45	3104.09	2686.83	2317.55	1980.46
225.0	4836.94	4274.54	3828.60	3398.46	2878.78	2491.36	2130.28	1727.06	1147.28
270.0	5099.12	4642.06	4073.22	3626.70	3190.71	2671.03	2291.21	1885.07	1595.97
315.0	4289.17	3842.65	3300.73	2888.14	2500.14	2057.12	1744.61	1117.19	1117.19
360.0	4436.65	3999.49	3447.62	3025.67	2523.55	2167.73	1836.49	1126.21	1126.21
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1027.95	853.73	705.14	552.92	454.02	374.54	310.81	249.89	211.85
45.0	1376.51	1149.44	953.98	752.07	619.81	509.20	398.01	328.95	299.69
90.0	1152.07	1053.99	833.48	687.87	565.62	438.45	358.92	295.54	245.38
135.0	1648.64	1382.95	1104.38	914.77	756.17	591.14	482.28	393.33	307.30
180.0	1586.02	1306.28	1035.91	860.34	709.94	551.93	451.27	368.17	304.96
225.0	1147.28	950.82	781.80	641.64	524.65	408.55	336.27	281.08	237.07
270.0	1336.13	1113.16	878.48	724.57	596.40	491.65	385.72	319.01	303.79
315.0	971.47	802.99	661.48	544.03	426.28	352.77	292.14	233.56	197.10
360.0	1027.95	853.73	705.14	552.92	454.02	374.54	310.81	249.89	211.85
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	181.13	151.40	132.85	114.06	101.71	91.70	81.87	75.67	70.46
45.0	299.69	185.87	160.64	140.51	123.72	107.33	96.56	88.25	81.17
90.0	196.52	166.79	144.61	126.47	108.09	96.80	87.43	78.65	73.27
135.0	307.30	243.34	176.80	146.77	127.99	112.83	97.85	88.25	80.70
180.0	304.96	204.77	174.92	146.25	128.11	113.42	101.24	89.13	81.58
225.0	193.07	166.20	144.02	122.37	108.56	93.93	84.97	77.78	70.58
270.0	303.79	176.33	151.40	131.09	111.31	98.84	86.73	79.53	73.80
315.0	167.55	139.17	121.43	103.82	92.58	84.21	77.60	72.28	67.07
360.0	181.13	151.40	132.85	114.06	101.71	91.70	81.87	75.67	70.46
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	66.31	62.33	59.63	57.70	55.95	53.90	52.49	51.27	50.10
45.0	74.15	69.58	64.96	62.09	59.81	57.47	55.83	54.43	53.08
90.0	68.88	64.96	62.62	60.28	58.11	56.71	55.19	53.96	52.44
135.0	74.85	69.06	65.55	62.74	59.93	58.11	55.95	54.43	53.08
180.0	75.44	70.46	65.66	62.62	59.63	57.70	56.01	54.19	52.73
225.0	66.31	62.74	59.81	57.53	54.95	53.20	51.85	50.80	49.39
270.0	69.06	64.32	61.74	59.46	57.41	55.42	54.02	52.79	51.32
315.0	63.91	61.33	59.11	56.94	55.30	53.61	52.32	51.21	49.98
360.0	66.31	62.33	59.63	57.70	55.95	53.90	52.49	51.27	50.10

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	49.22	48.05	47.23	46.35	45.41	44.18	43.19	42.02	40.61
45.0	51.62	50.56	49.69	48.57	47.64	46.64	45.47	43.95	42.78
90.0	51.27	50.33	49.33	48.11	47.11	46.00	44.65	43.42	41.84
135.0	51.85	50.56	49.51	48.52	47.64	46.35	45.35	44.24	43.07
180.0	51.44	50.21	48.75	47.64	46.58	45.76	44.77	43.83	42.84
225.0	48.46	47.58	46.82	45.71	45.00	44.13	43.07	41.67	40.56
270.0	50.27	49.33	48.40	47.52	46.70	45.53	44.54	43.42	41.90
315.0	49.16	48.16	47.23	46.29	45.30	44.30	42.96	41.67	40.44
360.0	49.22	48.05	47.23	46.35	45.41	44.18	43.19	42.02	40.61
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	38.74	37.22	35.87	34.41	32.60	31.19	29.55	28.32	27.10
45.0	41.38	39.97	38.33	36.28	34.88	33.53	32.07	30.20	28.85
90.0	40.50	39.03	37.10	35.46	33.94	32.54	30.72	29.32	28.09
135.0	41.90	40.67	38.98	37.45	36.17	34.47	32.89	31.43	29.79
180.0	41.55	40.44	39.21	37.34	35.82	34.24	33.01	31.54	30.37
225.0	39.21	37.81	36.40	34.59	33.18	31.84	30.14	28.79	27.21
270.0	40.56	39.09	37.51	35.76	34.29	32.71	31.19	29.55	28.32
315.0	38.98	36.99	35.46	34.00	32.19	30.67	29.09	27.74	26.51
360.0	38.74	37.22	35.87	34.41	32.60	31.19	29.55	28.32	27.10
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.75	24.76	23.82	22.82	21.71	20.89	20.19	19.49	18.67
45.0	27.51	26.28	24.87	23.94	22.94	21.71	20.89	20.19	19.31
90.0	26.86	25.52	24.46	23.47	22.30	21.42	20.60	19.72	18.96
135.0	28.56	27.39	26.16	25.11	23.82	22.82	21.89	20.89	20.07
180.0	28.97	27.62	26.51	25.52	24.35	23.47	22.65	21.77	21.07
225.0	25.98	24.87	23.58	22.65	21.65	20.83	19.90	19.20	18.55
270.0	26.74	25.52	24.52	23.23	22.30	21.42	20.54	19.66	18.90
315.0	25.34	23.94	22.94	22.00	21.13	20.19	19.37	18.67	17.97
360.0	25.75	24.76	23.82	22.82	21.71	20.89	20.19	19.49	18.67
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.02	17.44	16.68	16.04	15.16	14.46	13.99	13.52	12.99
45.0	18.55	17.73	17.15	16.56	15.98	15.27	14.69	14.22	13.87
90.0	18.26	17.50	16.85	16.27	15.57	14.81	14.46	13.99	13.64
135.0	19.14	18.38	17.67	16.97	16.33	15.63	14.98	14.40	13.99
180.0	20.42	19.55	18.84	18.14	17.21	16.33	15.45	14.92	14.28
225.0	17.85	17.03	16.39	15.74	15.10	14.34	13.93	13.40	12.99
270.0	18.20	17.56	16.80	16.15	15.45	14.63	14.22	13.75	13.28
315.0	17.15	16.56	15.74	15.04	14.46	13.93	13.52	13.11	12.58
360.0	18.02	17.44	16.68	16.04	15.16	14.46	13.99	13.52	12.99
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.58	12.23	11.88	11.65	12.00	11.12	10.48	10.12	9.83
45.0	13.34	12.99	12.64	12.23	11.88	11.76	11.12	10.53	10.18
90.0	13.17	12.82	12.41	12.17	12.29	11.70	10.94	10.42	10.07
135.0	13.64	13.17	12.76	12.41	12.06	11.94	11.76	10.83	10.36
180.0	13.87	13.40	12.99	12.58	12.29	12.17	12.00	11.12	10.48
225.0	12.52	12.23	11.94	11.59	11.29	10.94	10.42	10.01	9.66
270.0	12.87	12.47	12.06	11.76	11.65	11.53	10.59	10.18	9.83
315.0	12.29	11.88	11.65	11.41	11.18	10.53	10.07	9.71	9.54
360.0	12.58	12.23	11.88	11.65	12.00	11.12	10.48	10.12	9.83

Intensity data(cd)

C/γ(°)	90.0
0.0	9.71
45.0	9.89
90.0	9.83
135.0	10.01
180.0	9.95
225.0	9.42
270.0	9.54
315.0	9.36
360.0	9.71