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NT

Client: NT

LumCAT: 61-0218

Luminaire: 92.70.427.00

Report No: 2024724-B014

Ballast type: AC

Test No: 2024724-C014

Voltage(V): 35.670

LampCAT: CITIZEN CLU028 LES9.8

Current(A): 0.360

Lamp flux(lm): 1573.6

Power (W): 12.841

Number of Lamps: 1

PF: 0.000

Length(mm): 50

Width(mm): 50

Phm Type: C

Height(mm): 24

### Photometric Results

Lumens(lm): 1512.79, Efficiency(%): 96.13% , Luminous Efficacy(lm/W): 117.81

Central intensity(cd): 3657.422, Maximum intensity(cd): 3657.422

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

Beam Angle(50%Imax): [C0/180]Total=36.2

[C90/270]Total=36.2

Field angle(10%Imax): [C0/180]Total=56.2

[C90/270]Total=56.2

Maximum s/h(1/2): C0\_180=0.60 C90\_270=0.60

Maximum s/h(1/4): C0\_180=0.57 C90\_270=0.57

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 96.13%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 96.125%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/7/24  
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	3657.422	0.000	0	0.00%	0.00%
1.0	3654.423	3.499	3.499	0.22%	0.23%
2.0	3640.085	10.470	13.968	0.67%	0.92%
3.0	3623.772	17.373	31.341	1.10%	2.07%
4.0	3593.998	24.160	55.501	1.54%	3.67%
5.0	3554.130	30.751	86.252	1.95%	5.70%
6.0	3505.483	37.100	123.352	2.36%	8.15%
7.0	3444.181	43.136	166.489	2.74%	11.01%
8.0	3364.883	48.731	215.22	3.10%	14.23%
9.0	3274.612	53.809	269.029	3.42%	17.78%
10.0	3167.516	58.299	327.328	3.70%	21.64%
11.0	3043.448	62.060	389.389	3.94%	25.74%
12.0	2908.919	65.068	454.457	4.13%	30.04%
13.0	2732.694	66.952	521.408	4.25%	34.47%
14.0	2570.952	67.886	589.294	4.31%	38.95%
15.0	2402.041	68.271	657.566	4.34%	43.47%
16.0	2229.107	67.859	725.425	4.31%	47.95%
17.0	2025.669	66.258	791.684	4.21%	52.33%
18.0	1843.225	63.790	855.473	4.05%	56.55%
19.0	1648.784	60.754	916.227	3.86%	60.57%
20.0	1394.840	55.707	971.934	3.54%	64.25%
21.0	1273.925	51.246	1023.179	3.26%	67.64%
22.0	1122.549	48.158	1071.338	3.06%	70.82%
23.0	966.316	43.830	1115.168	2.79%	73.72%
24.0	828.532	39.242	1154.409	2.49%	76.31%
25.0	683.631	34.383	1188.793	2.18%	78.58%
26.0	563.447	29.437	1218.23	1.87%	80.53%
27.0	463.615	25.127	1243.357	1.60%	82.19%
28.0	376.248	21.264	1264.621	1.35%	83.60%
29.0	303.139	17.775	1282.396	1.13%	84.77%
30.0	258.209	15.156	1297.552	0.96%	85.77%
31.0	228.150	13.535	1311.087	0.86%	86.67%
32.0	175.026	11.551	1322.637	0.73%	87.43%
33.0	136.789	9.186	1331.823	0.58%	88.04%
34.0	116.862	7.676	1339.5	0.49%	88.54%
35.0	103.007	6.828	1346.328	0.43%	89.00%
36.0	93.168	6.246	1352.574	0.40%	89.41%
37.0	84.997	5.811	1358.385	0.37%	89.79%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	78.720	5.465	1363.85	0.35%	90.15%
39.0	74.163	5.218	1369.068	0.33%	90.50%
40.0	70.322	5.039	1374.107	0.32%	90.83%
41.0	67.030	4.891	1378.998	0.31%	91.16%
42.0	64.068	4.763	1383.761	0.30%	91.47%
43.0	61.683	4.658	1388.419	0.30%	91.78%
44.0	59.488	4.573	1392.993	0.29%	92.08%
45.0	57.491	4.496	1397.488	0.29%	92.38%
46.0	55.567	4.421	1401.91	0.28%	92.67%
47.0	53.380	4.333	1406.243	0.28%	92.96%
48.0	51.610	4.244	1410.487	0.27%	93.24%
49.0	49.803	4.165	1414.652	0.26%	93.51%
50.0	47.915	4.074	1418.726	0.26%	93.78%
51.0	46.050	3.976	1422.701	0.25%	94.04%
52.0	44.492	3.885	1426.586	0.25%	94.30%
53.0	42.934	3.803	1430.389	0.24%	94.55%
54.0	41.251	3.711	1434.1	0.24%	94.80%
55.0	39.627	3.610	1437.71	0.23%	95.04%
56.0	37.937	3.505	1441.215	0.22%	95.27%
57.0	36.438	3.401	1444.616	0.22%	95.49%
58.0	34.828	3.296	1447.911	0.21%	95.71%
59.0	33.299	3.185	1451.096	0.20%	95.92%
60.0	31.902	3.080	1454.177	0.20%	96.13%
61.0	30.607	2.983	1457.16	0.19%	96.32%
62.0	29.356	2.889	1460.049	0.18%	96.51%
63.0	28.054	2.792	1462.841	0.18%	96.70%
64.0	26.920	2.698	1465.539	0.17%	96.88%
65.0	25.786	2.608	1468.147	0.17%	97.05%
66.0	24.726	2.520	1470.667	0.16%	97.22%
67.0	23.738	2.437	1473.104	0.15%	97.38%
68.0	22.824	2.359	1475.463	0.15%	97.53%
69.0	21.997	2.287	1477.75	0.15%	97.68%
70.0	21.207	2.219	1479.969	0.14%	97.83%
71.0	20.417	2.151	1482.12	0.14%	97.97%
72.0	19.634	2.083	1484.202	0.13%	98.11%
73.0	18.939	2.017	1486.22	0.13%	98.24%
74.0	18.222	1.954	1488.173	0.12%	98.37%
75.0	17.549	1.890	1490.063	0.12%	98.50%

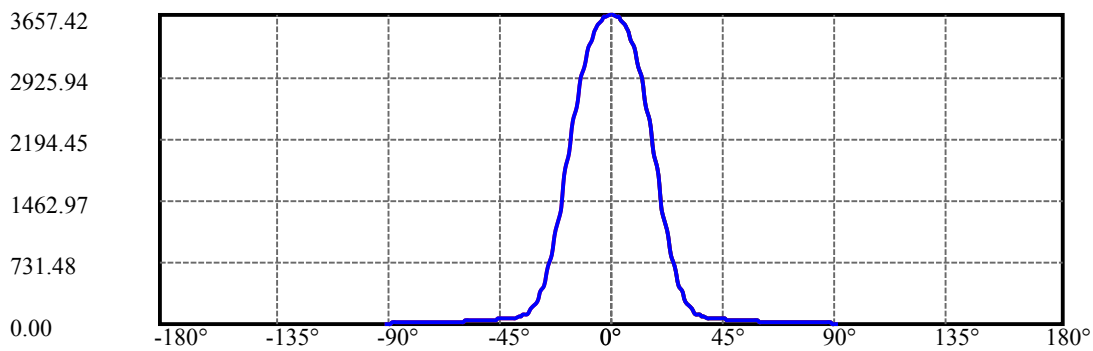
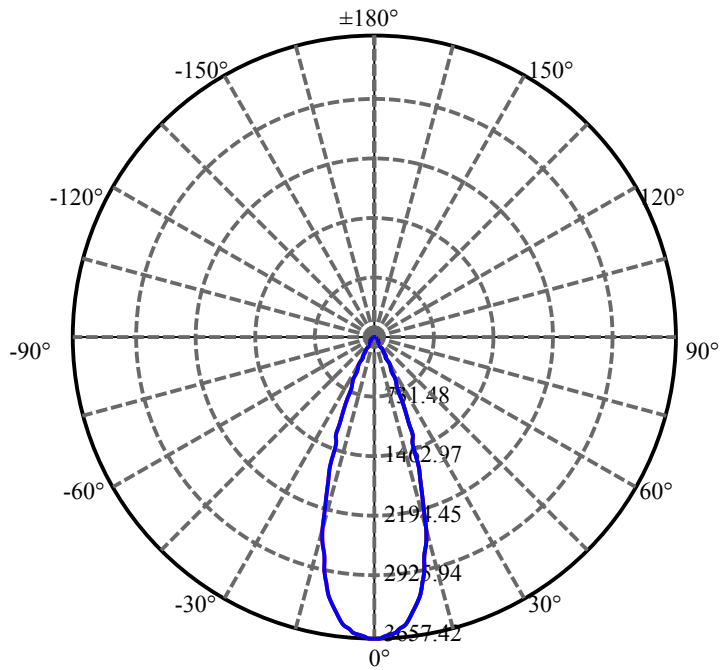
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.001	1.834	1491.897	0.12%	98.62%
77.0	16.518	1.787	1493.684	0.11%	98.74%
78.0	16.028	1.742	1495.427	0.11%	98.85%
79.0	15.552	1.697	1497.123	0.11%	98.96%
80.0	15.018	1.648	1498.772	0.10%	99.07%
81.0	14.579	1.601	1500.372	0.10%	99.18%
82.0	14.097	1.555	1501.927	0.10%	99.28%
83.0	13.614	1.506	1503.434	0.10%	99.38%
84.0	13.233	1.463	1504.896	0.09%	99.48%
85.0	13.043	1.434	1506.33	0.09%	99.57%
86.0	12.663	1.405	1507.735	0.09%	99.67%
87.0	11.917	1.345	1509.081	0.09%	99.75%
88.0	11.324	1.273	1510.354	0.08%	99.84%
89.0	11.083	1.228	1511.582	0.08%	99.92%
90.0	10.973	1.209	1512.791	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1297.55	82.46%	85.77%
0-40	1374.11	87.32%	90.83%
0-60	1454.18	92.41%	96.13%
0-90	1511.58	96.06%	99.92%
0-120	1511.58	96.06%	99.92%
0-180	1512.79	96.13%	100.00%
60-90	57.41	3.65%	3.79%
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%
0-25.73	1210.23	76.91%	80.00%

ZONAL LUMEN SUMMARY

0-10	327.33
10-20	644.61
20-30	325.62
30-40	76.55
40-50	44.62
50-60	35.45
60-70	25.79
70-80	18.80
80-90	12.81
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: —————

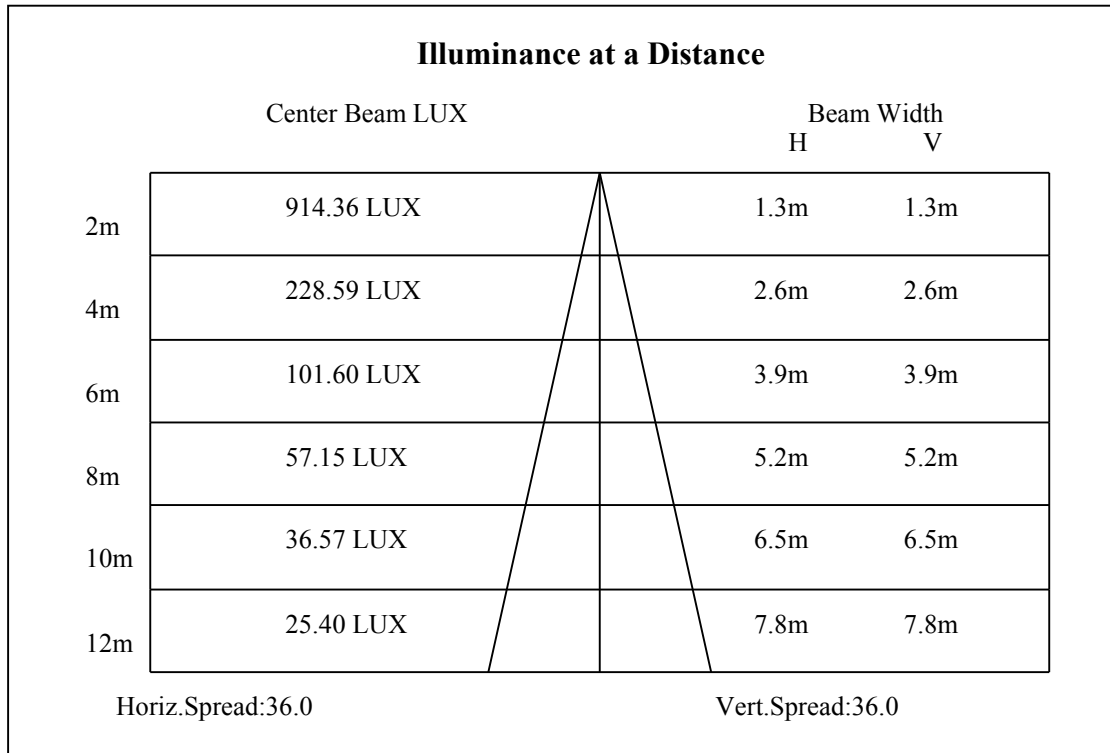
C90/C270: —————

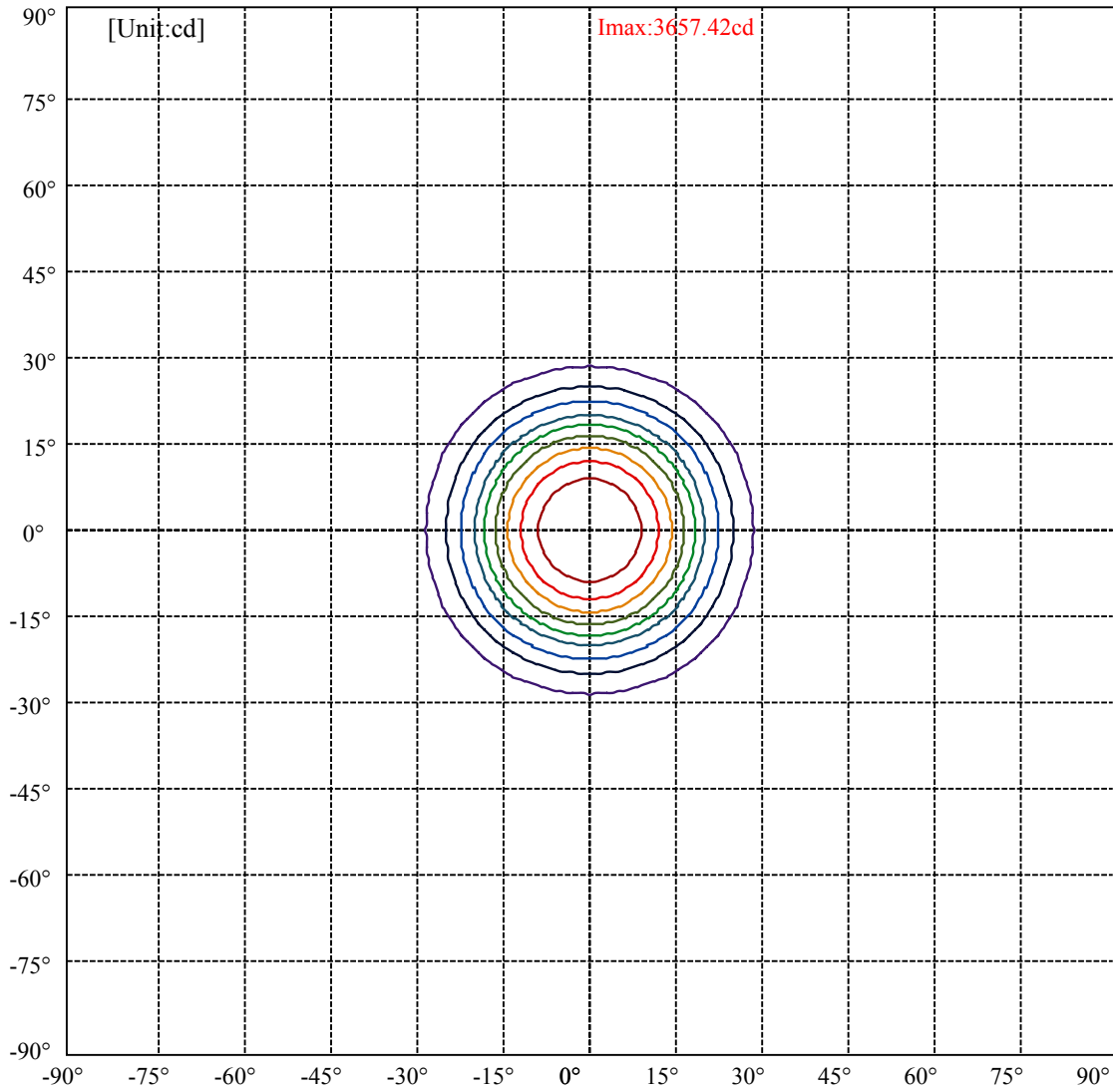
Field angle(10%Imax):C0/180Left:28.1 Right:28.1

:C90/270Left:28.1 Right:28.1

Beam Angle(50%Imax):C0/180Left:18.1 Right:18.1

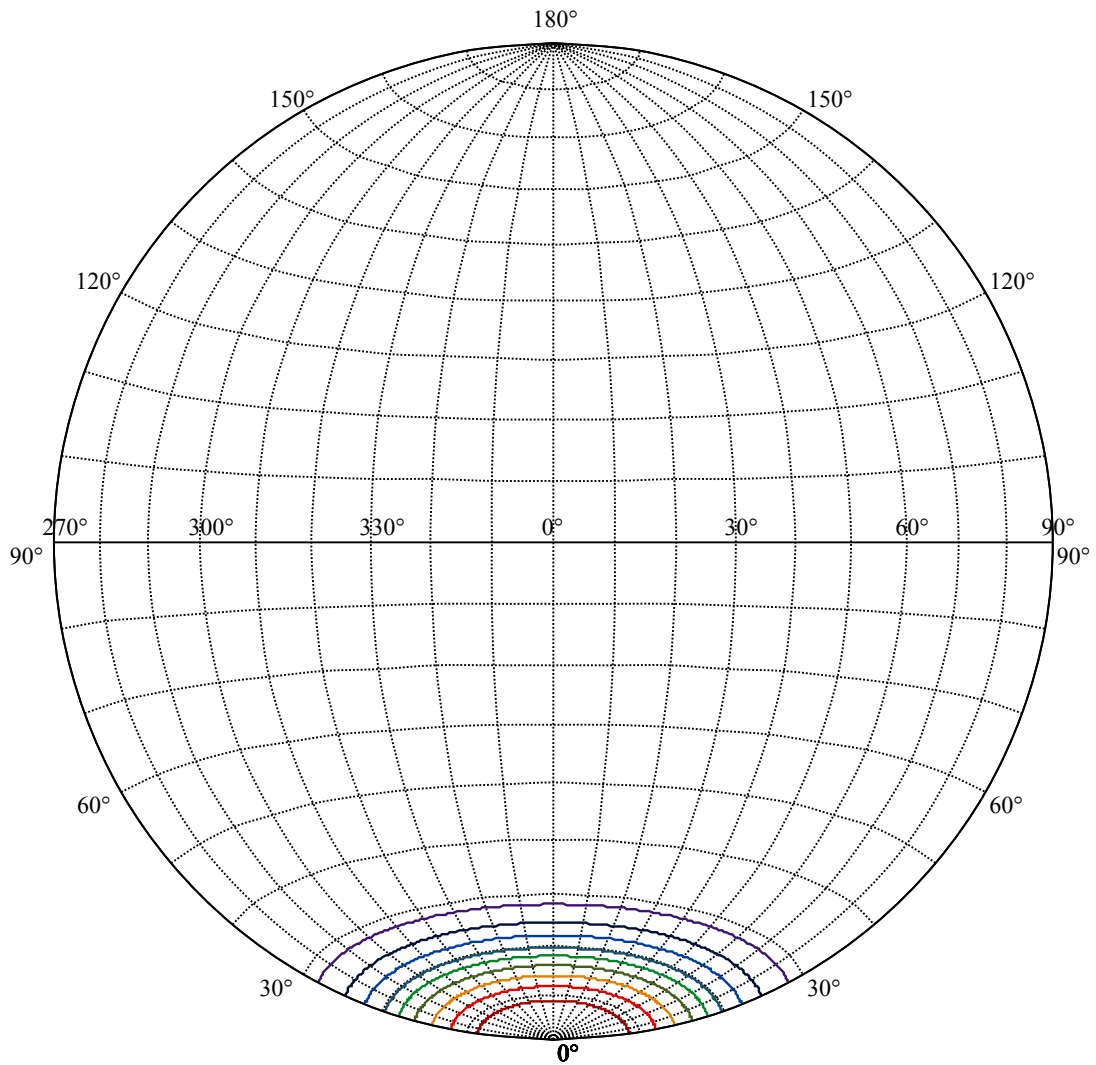
:C90/270Left:18.1 Right:18.1





(10%I <sub>max</sub> ) 365.742	—
(20%I <sub>max</sub> ) 731.484	—
(30%I <sub>max</sub> ) 1097.23	—
(40%I <sub>max</sub> ) 1462.97	—
(50%I <sub>max</sub> ) 1828.71	—
(60%I <sub>max</sub> ) 2194.45	—
(70%I <sub>max</sub> ) 2560.2	—
(80%I <sub>max</sub> ) 2925.94	—
(90%I <sub>max</sub> ) 3291.68	—





House

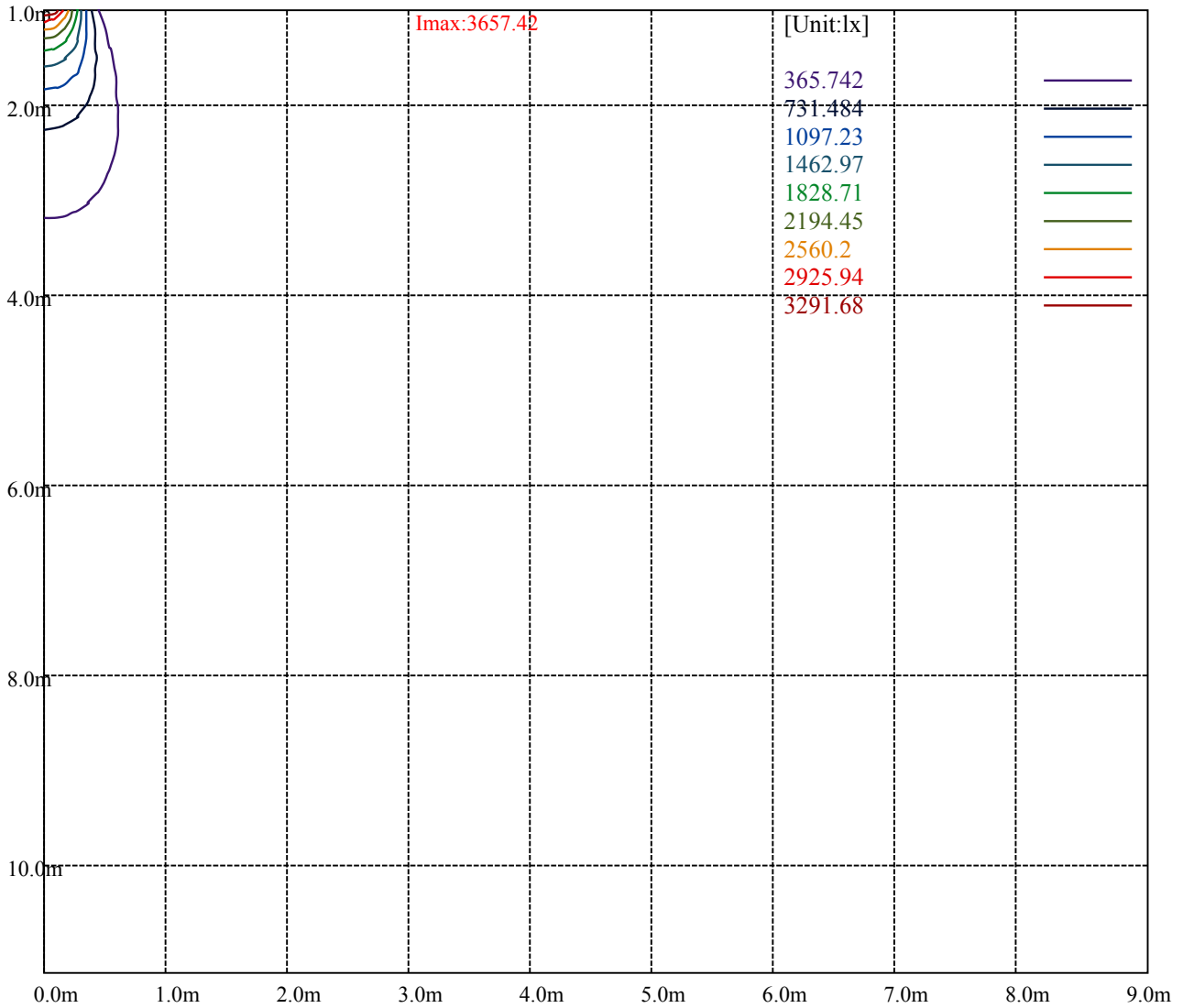
[Unit:cd]

Road

Imax:3657.42

(10%Imax)	365.742	—
(20%Imax)	731.484	—
(30%Imax)	1097.23	—
(40%Imax)	1462.97	—
(50%Imax)	1828.71	—
(60%Imax)	2194.45	—
(70%Imax)	2560.2	—
(80%Imax)	2925.94	—
(90%Imax)	3291.68	—





Luminance Table

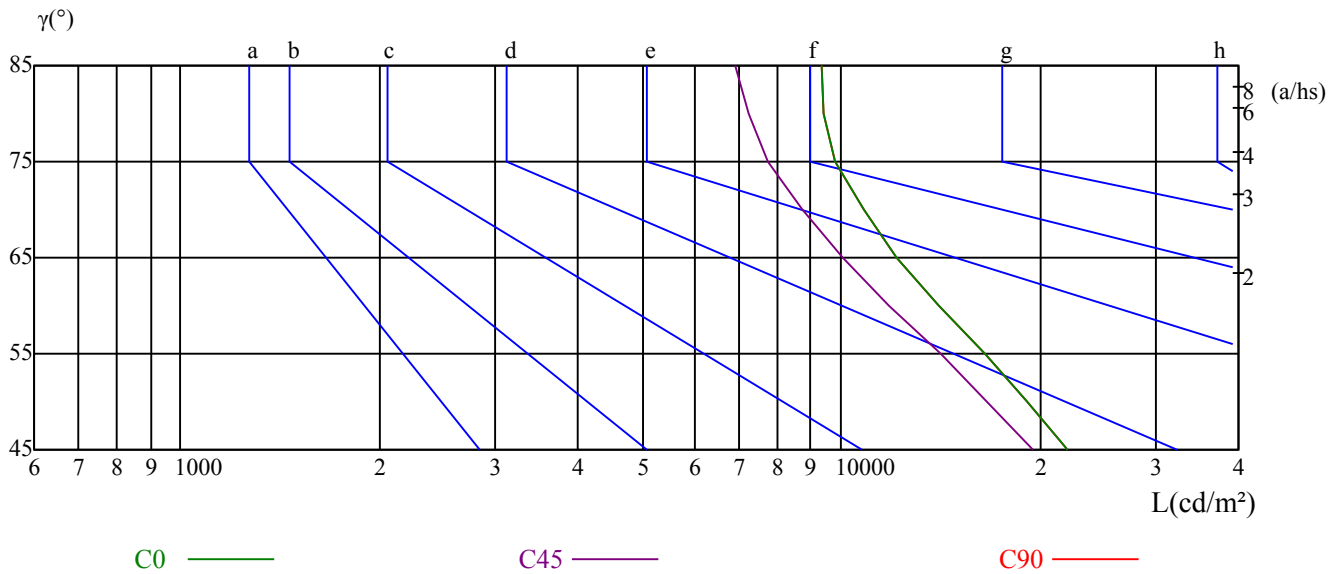
$\gamma$	45	50	55	60	65	70	75	80	85
C0	22094	19083	16508	14042	12129	10799	9821	9409	9361
C45	19503	16607	14148	11837	10038	8752	7769	7229	6937
C90	22094	19083	16508	14042	12129	10799	9821	9409	9361

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
24406	24406	24406	27122	27122	27122	59862	59862	59862

Glare Table

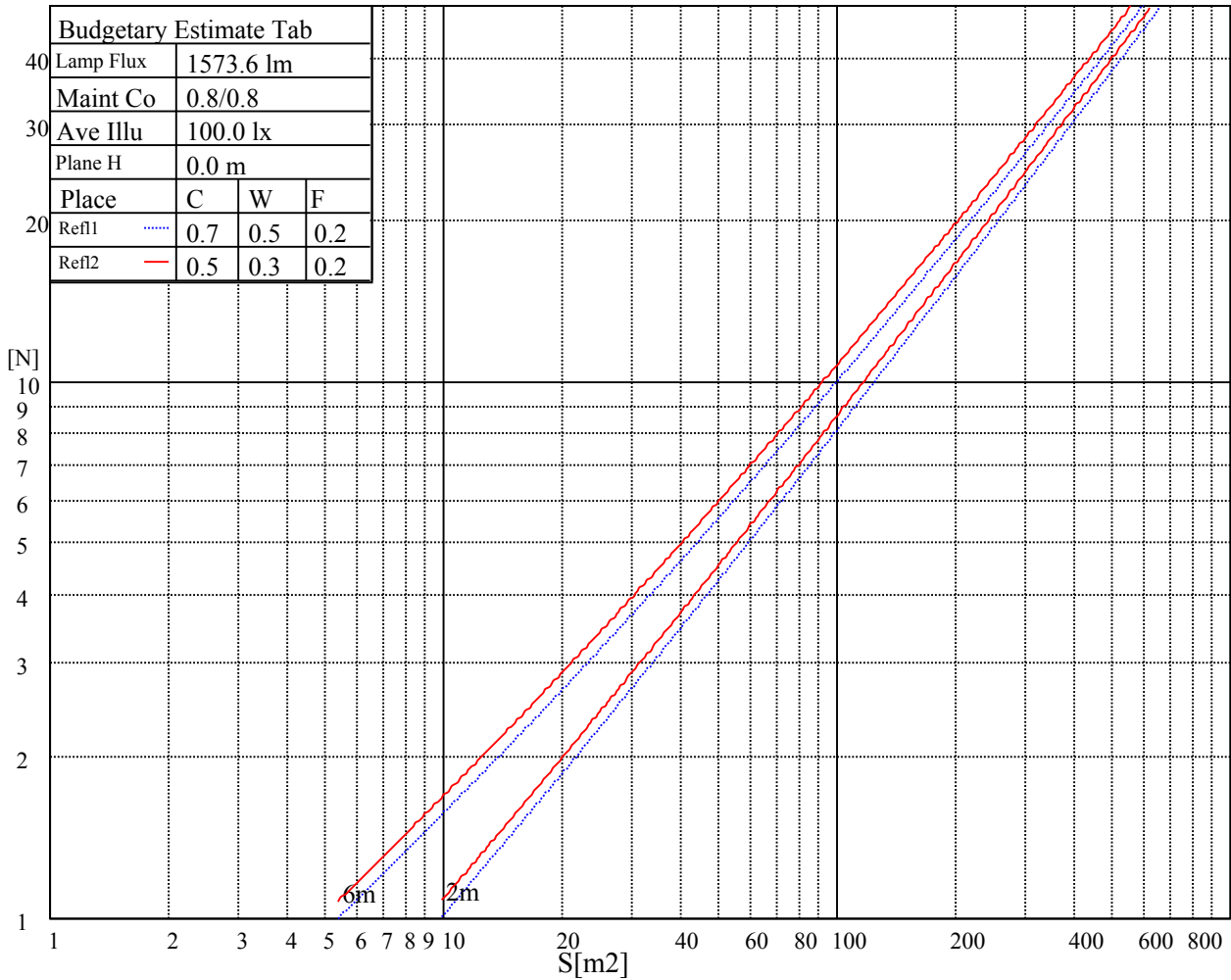
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

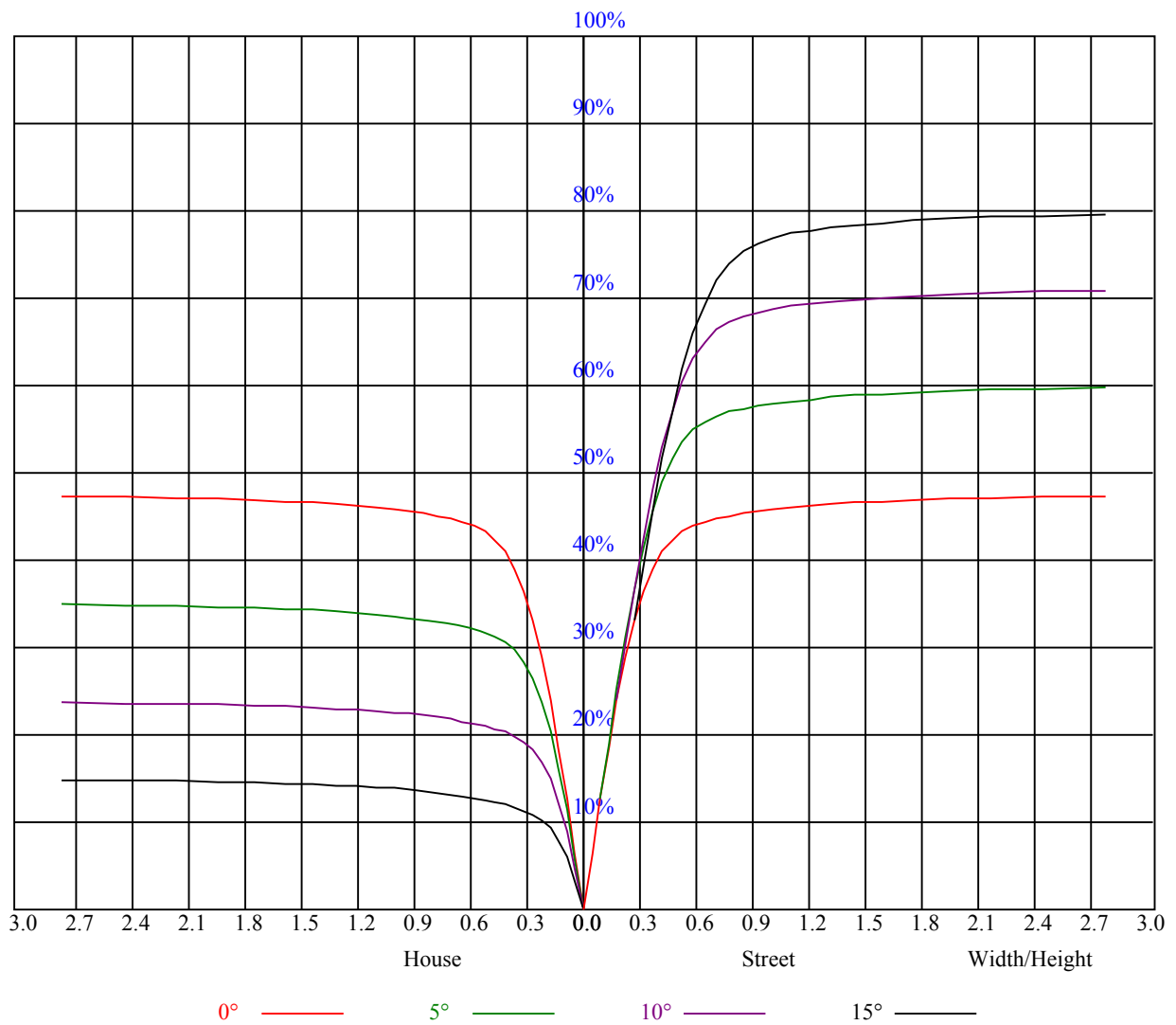


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	15.97	16.99	16.33	17.30	17.62	16.07	17.09	16.43	17.40	17.72
	3H	17.15	18.06	17.54	18.40	18.75	17.19	18.10	17.58	18.44	18.79
	4H	17.73	18.58	18.13	18.93	19.30	17.73	18.58	18.13	18.93	19.30
	6H	18.35	19.12	18.76	19.50	19.90	18.33	19.11	18.75	19.49	19.89
	8H	18.64	19.38	19.06	19.76	20.17	18.62	19.36	19.04	19.75	20.16
	12H	18.94	19.64	19.36	20.04	20.46	18.92	19.63	19.35	20.02	20.44
4H	2H	16.36	17.21	16.76	17.56	17.93	16.44	17.29	16.84	17.64	18.01
	3H	17.71	18.43	18.14	18.82	19.24	17.74	18.45	18.16	18.84	19.26
	4H	18.48	19.10	18.92	19.53	19.98	18.46	19.09	18.90	19.51	19.96
	6H	19.22	19.77	19.69	20.22	20.68	19.20	19.75	19.67	20.20	20.65
	8H	19.62	20.13	20.11	20.59	21.06	19.60	20.11	20.08	20.56	21.04
	12H	20.04	20.52	20.53	20.97	21.49	20.02	20.49	20.51	20.94	21.46
8H	4H	18.69	19.20	19.17	19.66	20.13	18.67	19.19	19.16	19.64	20.12
	6H	19.62	20.04	20.12	20.52	21.03	19.59	20.01	20.10	20.49	21.00
	8H	20.19	20.55	20.72	21.07	21.56	20.17	20.52	20.70	21.05	21.54
	12H	20.77	21.05	21.31	21.56	22.08	20.75	21.02	21.29	21.54	22.06
12H	4H	18.72	19.19	19.21	19.64	20.16	18.71	19.18	19.19	19.63	20.15
	6H	19.75	20.11	20.28	20.63	21.13	19.73	20.09	20.26	20.61	21.10
	8H	20.35	20.63	20.89	21.15	21.67	20.33	20.61	20.87	21.13	21.65
Variation with the observer position at spacings:											
S = 1.0H	0.7/-0.7					0.7/-0.7					
S = 1.5H	1.0/-0.9					1.0/-0.9					
S = 2.0H	1.9/-1.0					1.9/-1.0					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	4.7					4.7					

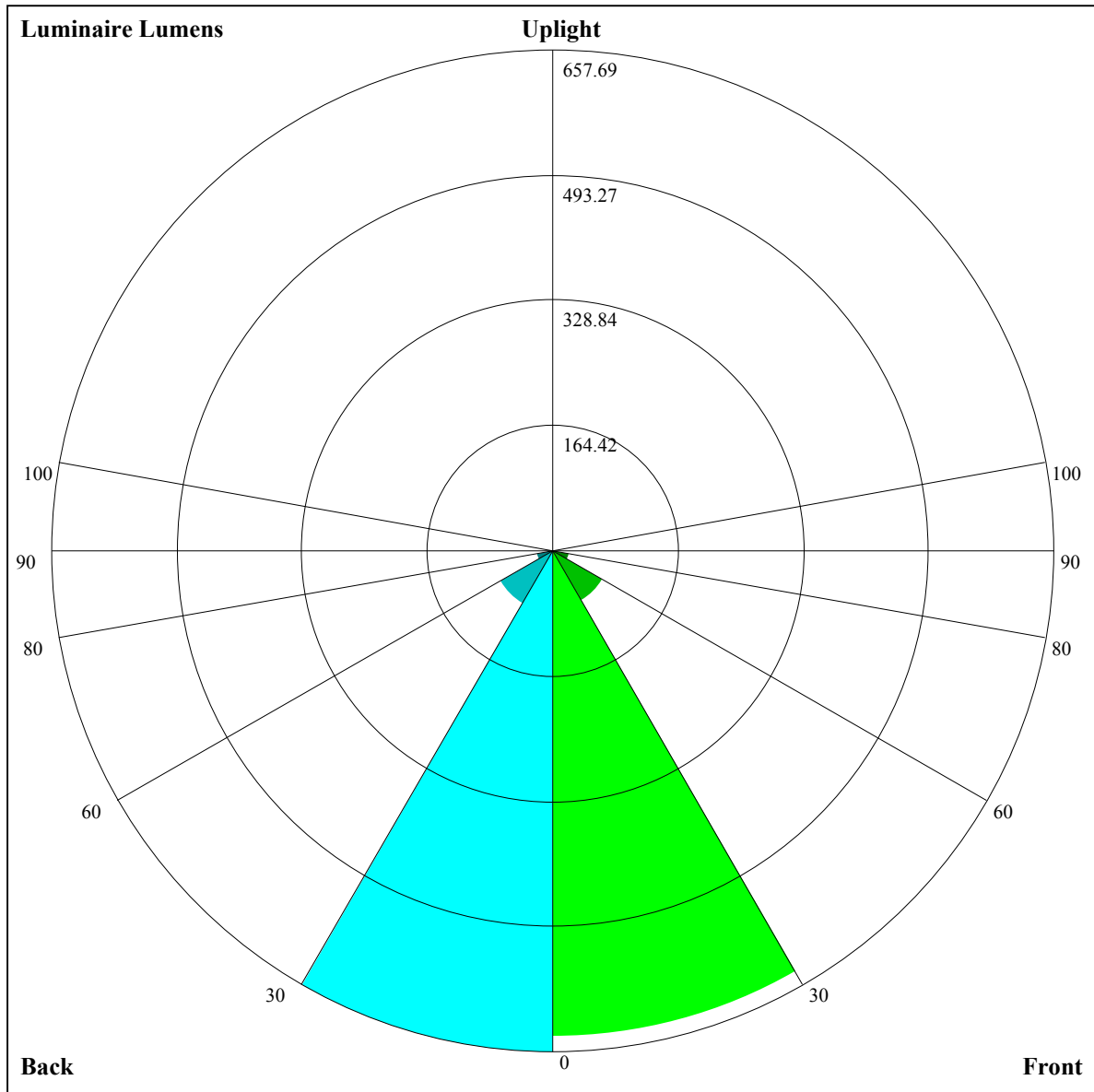
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.07	1.04	1.02	1.05	1.02	1.01	1.01	0.99	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.96	0.93	0.98	0.95	0.92	0.95	0.93	0.90	0.92	0.90	0.88	0.90	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.89	0.86	0.91	0.87	0.85	0.88	0.86	0.83	0.86	0.84	0.82	0.81
4	0.90	0.85	0.81	0.88	0.84	0.81	0.86	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.73
6	0.81	0.76	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.70
7	0.78	0.73	0.69	0.77	0.73	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
8	0.75	0.70	0.66	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.64
9	0.72	0.67	0.64	0.71	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.62
10	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.60







Luminaire Lumens:

FL=637.06,FM=76.07,FH=21.98,FVH=6.96

BL=657.69,BM=80.74,BH=22.62,BVH=7.11

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	3674.10	3672.35	3660.64	3653.62	3627.87	3582.22	3534.23	3469.27	3372.12
45.0	3641.33	3668.25	3677.61	3688.15	3671.76	3655.96	3627.87	3585.15	3518.43
90.0	3669.42	3681.71	3675.86	3669.42	3648.94	3620.85	3584.56	3516.09	3449.37
135.0	3644.84	3664.15	3662.98	3647.77	3633.72	3609.14	3571.10	3524.87	3452.89
180.0	3674.10	3658.89	3639.57	3620.85	3582.81	3549.45	3488.58	3432.40	3365.69
225.0	3641.33	3618.50	3579.29	3541.25	3494.44	3427.14	3362.18	3289.61	3204.17
270.0	3669.42	3644.25	3616.75	3590.41	3548.86	3505.56	3452.89	3389.68	3301.31
315.0	3644.84	3627.28	3607.97	3578.71	3543.60	3482.73	3422.45	3346.38	3255.08
360.0	3674.10	3672.35	3660.64	3653.62	3627.87	3582.22	3534.23	3469.27	3372.12
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3272.05	3156.18	2989.97	2841.33	2639.42	2469.71	2292.97	2110.97	1884.48
45.0	3448.79	3361.01	3253.32	3128.67	2950.76	2789.24	2575.05	2390.12	2202.26
90.0	3365.10	3231.67	3108.77	2971.83	2775.20	2605.48	2434.01	2253.17	2026.11
135.0	3385.59	3307.75	3209.43	3099.41	2939.06	2798.02	2644.69	2483.17	2263.71
180.0	3273.81	3175.49	3073.07	2953.10	2786.31	2637.08	2479.66	2324.57	2108.62
225.0	3112.87	2981.78	2860.64	2727.21	2549.30	2400.07	2238.54	2038.98	1870.44
270.0	3216.46	3119.89	2973.00	2848.35	2674.54	2521.21	2370.22	2218.06	2009.72
315.0	3122.23	3006.36	2879.37	2701.46	2546.96	2346.81	2181.19	2013.82	1840.01
360.0	3272.05	3156.18	2989.97	2841.33	2639.42	2469.71	2292.97	2110.97	1884.48
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1705.40	1527.50	1148.74	1148.74	993.77	849.69	715.96	571.88	472.34
45.0	1969.34	1784.99	1605.92	1384.12	1216.74	1056.97	906.57	735.69	615.72
90.0	1844.69	1667.95	1356.61	1149.50	1109.12	918.04	777.30	653.64	518.98
135.0	2089.31	1917.26	1697.80	1527.50	1318.57	1162.32	1011.91	838.10	711.69
180.0	1950.61	1776.22	1554.42	1390.55	1231.37	1046.44	906.57	746.22	627.42
225.0	1703.65	1499.40	1141.25	1141.25	994.18	859.23	731.77	615.01	488.08
270.0	1856.98	1688.43	1515.79	1311.55	1159.39	1013.67	876.14	718.13	602.26
315.0	1625.81	1328.52	1138.20	1138.20	957.25	824.17	702.04	590.37	471.11
360.0	1705.40	1527.50	1148.74	1148.74	993.77	849.69	715.96	571.88	472.34
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	385.55	297.00	242.28	198.39	157.78	134.31	113.12	100.89	91.65
45.0	508.62	416.74	323.69	307.89	307.89	177.32	143.50	123.95	106.39
90.0	426.04	346.80	284.83	222.56	183.76	154.03	131.32	110.67	99.02
135.0	595.23	492.23	385.72	317.25	302.03	302.03	170.42	145.14	125.24
180.0	524.42	432.54	354.70	305.55	305.55	186.45	158.24	130.51	114.70
225.0	399.94	326.38	265.69	207.35	172.47	145.72	120.50	106.34	92.93
270.0	480.53	396.26	322.52	306.13	237.31	166.61	141.57	117.75	103.99
315.0	388.59	302.03	245.68	200.56	158.42	133.72	115.64	99.66	90.12
360.0	385.55	297.00	242.28	198.39	157.78	134.31	113.12	100.89	91.65
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	85.09	79.82	74.67	71.28	68.59	66.13	63.44	61.62	59.81
45.0	96.15	88.54	81.40	76.90	72.98	69.29	66.48	64.26	62.03
90.0	90.65	83.04	78.07	73.97	69.88	66.95	64.32	61.51	59.34
135.0	110.14	96.50	88.90	81.58	76.96	72.92	68.94	66.19	63.56
180.0	102.18	90.65	83.63	78.01	72.57	68.88	64.96	62.33	59.99
225.0	85.09	79.12	73.62	69.93	66.77	63.91	61.68	59.05	57.41
270.0	93.46	85.44	77.89	73.56	69.88	65.90	63.26	60.92	58.29
315.0	82.58	76.84	71.57	68.06	64.96	62.27	59.46	57.59	55.48
360.0	85.09	79.82	74.67	71.28	68.59	66.13	63.44	61.62	59.81

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	57.64	55.77	53.37	51.56	49.74	47.40	45.59	43.89	42.25
45.0	60.04	57.76	55.77	53.78	51.62	49.63	47.52	45.71	44.01
90.0	57.59	55.65	53.31	51.50	49.86	48.28	46.29	44.83	43.37
135.0	61.39	58.93	57.06	55.25	53.49	51.15	49.39	47.75	45.82
180.0	57.94	56.18	53.90	52.09	50.39	48.81	46.76	45.12	43.48
225.0	55.54	53.96	51.73	50.04	47.87	46.23	44.36	42.84	41.43
270.0	56.47	54.66	52.32	50.56	48.87	46.76	45.18	43.77	42.49
315.0	53.31	51.62	49.57	48.11	46.58	45.06	43.31	42.02	40.61
360.0	57.64	55.77	53.37	51.56	49.74	47.40	45.59	43.89	42.25
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	40.67	38.68	37.22	35.82	33.88	32.54	31.25	29.90	28.73
45.0	42.02	40.32	38.57	36.81	34.94	33.53	32.07	30.67	29.14
90.0	41.38	39.80	37.69	36.17	34.65	32.66	31.31	30.02	28.79
135.0	44.30	42.60	40.44	38.68	36.75	35.17	33.65	32.30	30.67
180.0	41.73	40.32	38.39	36.99	35.52	33.71	32.42	31.37	30.20
225.0	40.03	38.27	36.81	35.52	34.18	32.89	31.19	30.08	29.03
270.0	40.67	39.39	38.10	36.75	35.17	33.83	32.42	31.13	30.02
315.0	39.21	37.63	36.28	34.76	33.53	32.07	30.90	29.38	28.27
360.0	40.67	38.68	37.22	35.82	33.88	32.54	31.25	29.90	28.73
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	27.33	26.10	25.16	24.23	23.17	22.36	21.65	20.89	20.07
45.0	27.97	26.86	25.34	24.29	23.53	22.36	21.48	20.78	19.84
90.0	27.33	26.16	24.93	24.05	22.94	22.06	21.24	20.31	19.55
135.0	29.44	28.38	27.27	25.93	24.87	24.05	22.94	22.18	21.48
180.0	28.73	27.68	26.74	25.69	24.64	23.82	23.12	22.18	21.48
225.0	27.86	26.80	25.63	24.35	23.47	22.41	21.65	20.89	20.19
270.0	28.62	27.56	26.39	25.34	24.23	23.47	22.59	21.89	20.95
315.0	27.15	25.81	24.81	23.94	23.06	22.06	21.30	20.54	19.78
360.0	27.33	26.10	25.16	24.23	23.17	22.36	21.65	20.89	20.07
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.43	18.84	18.08	17.44	16.80	16.09	15.57	15.10	14.46
45.0	19.08	18.43	17.62	16.97	16.62	16.15	15.74	15.27	14.86
90.0	18.84	18.08	17.44	16.80	16.27	15.86	15.39	14.98	14.40
135.0	20.54	19.78	18.96	18.32	17.56	17.09	16.62	16.04	15.51
180.0	20.78	19.90	19.25	18.38	17.73	17.15	16.56	16.09	15.57
225.0	19.25	18.61	17.97	17.38	16.80	16.44	15.98	15.45	15.04
270.0	20.25	19.61	18.84	18.08	17.62	17.21	16.74	16.33	15.74
315.0	18.90	18.26	17.62	17.03	16.62	16.15	15.63	15.16	14.57
360.0	19.43	18.84	18.08	17.44	16.80	16.09	15.57	15.10	14.46
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.05	13.58	13.17	12.76	12.99	12.11	11.29	11.12	10.94
45.0	14.34	13.93	13.34	12.99	12.64	12.52	11.53	10.94	10.65
90.0	13.99	13.52	13.11	12.76	12.87	12.23	11.29	10.83	10.59
135.0	15.04	14.40	13.87	13.28	12.76	12.76	12.52	11.24	10.89
180.0	15.10	14.63	14.05	13.58	13.23	13.40	12.87	11.65	11.29
225.0	14.63	14.16	13.64	13.28	12.99	12.41	11.82	11.59	11.41
270.0	15.27	14.75	14.28	13.93	13.93	13.93	12.52	12.00	11.70
315.0	14.22	13.81	13.46	13.28	12.93	11.94	11.47	11.24	11.18
360.0	14.05	13.58	13.17	12.76	12.99	12.11	11.29	11.12	10.94

Intensity data(cd)

C/ $\gamma$ (°)	90.0
0.0	11.00
45.0	10.53
90.0	10.53
135.0	10.65
180.0	11.00
225.0	11.41
270.0	11.53
315.0	11.12
360.0	11.00