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NT

Client: NT

LumCAT: 3-2884-L

Luminaire: 92.70.412.00

Report No: 20241112-B014

Ballast type: AC

Test No: 20241122-C014

Voltage(V): 34.280

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.450

Lamp flux(lm): 2610.0

Power (W): 15.426

Number of Lamps: 1

PF: 0.000

Length(mm): 92

Width(mm): 92

Phm Type: C

Height(mm): 50

Photometric Results

Lumens(lm): 2552.95, Efficiency(%): 97.81% , Luminous Efficacy(lm/W): 165.50

Central intensity(cd): 4147.475, Maximum intensity(cd): 4147.475

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=42.6

[C90/270]Total=42.6

Field angle(10%Imax): [C0/180]Total=78.4

[C90/270]Total=78.4

Maximum s/h(1/2): C0_180=0.67 C90_270=0.67

Maximum s/h(1/4): C0_180=0.72 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 97.81%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.523%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/22
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	4147.475	0.000	0	0.00%	0.00%
1.0	4137.380	3.964	3.964	0.15%	0.16%
2.0	4111.484	11.840	15.804	0.45%	0.62%
3.0	4072.786	19.574	35.378	0.75%	1.39%
4.0	4022.310	27.097	62.475	1.04%	2.45%
5.0	3955.302	34.319	96.794	1.31%	3.79%
6.0	3880.027	41.177	137.971	1.58%	5.40%
7.0	3798.461	47.660	185.631	1.83%	7.27%
8.0	3702.997	53.687	239.317	2.06%	9.37%
9.0	3607.824	59.250	298.568	2.27%	11.70%
10.0	3496.485	64.291	362.859	2.46%	14.21%
11.0	3385.805	68.768	431.627	2.63%	16.91%
12.0	3260.493	72.654	504.281	2.78%	19.75%
13.0	3141.766	75.979	580.26	2.91%	22.73%
14.0	3017.332	78.836	659.095	3.02%	25.82%
15.0	2885.071	81.031	740.126	3.10%	28.99%
16.0	2753.981	82.628	822.754	3.17%	32.23%
17.0	2614.332	83.599	906.353	3.20%	35.50%
18.0	2485.070	84.078	990.431	3.22%	38.80%
19.0	2353.248	84.177	1074.608	3.23%	42.09%
20.0	2230.644	83.898	1158.506	3.21%	45.38%
21.0	2110.672	83.362	1241.868	3.19%	48.64%
22.0	1995.749	82.520	1324.388	3.16%	51.88%
23.0	1882.142	81.369	1405.757	3.12%	55.06%
24.0	1769.925	79.847	1485.604	3.06%	58.19%
25.0	1668.828	78.190	1563.794	3.00%	61.25%
26.0	1568.681	76.422	1640.216	2.93%	64.25%
27.0	1466.559	74.258	1714.474	2.85%	67.16%
28.0	1356.317	71.469	1785.943	2.74%	69.96%
29.0	1279.404	68.958	1854.901	2.64%	72.66%
30.0	1216.734	67.395	1922.296	2.58%	75.30%
31.0	1134.868	65.442	1987.738	2.51%	77.86%
32.0	1073.778	63.275	2051.013	2.42%	80.34%
33.0	1008.862	61.355	2112.368	2.35%	82.74%
34.0	948.481	59.235	2171.603	2.27%	85.06%
35.0	871.159	56.511	2228.115	2.17%	87.28%
36.0	782.234	52.644	2280.759	2.02%	89.34%
37.0	671.502	47.413	2328.172	1.82%	91.20%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	556.571	40.991	2369.163	1.57%	92.80%
39.0	437.441	33.928	2403.091	1.30%	94.13%
40.0	320.959	26.450	2429.542	1.01%	95.17%
41.0	245.392	20.168	2449.709	0.77%	95.96%
42.0	179.247	15.428	2465.137	0.59%	96.56%
43.0	99.905	10.341	2475.478	0.40%	96.97%
44.0	54.294	5.820	2481.298	0.22%	97.19%
45.0	44.426	3.794	2485.092	0.15%	97.34%
46.0	38.288	3.235	2488.326	0.12%	97.47%
47.0	34.141	2.881	2491.207	0.11%	97.58%
48.0	30.454	2.611	2493.818	0.10%	97.68%
49.0	27.659	2.386	2496.205	0.09%	97.78%
50.0	25.223	2.205	2498.409	0.08%	97.86%
51.0	23.380	2.056	2500.466	0.08%	97.94%
52.0	21.814	1.939	2502.405	0.07%	98.02%
53.0	20.410	1.837	2504.242	0.07%	98.09%
54.0	19.225	1.747	2505.989	0.07%	98.16%
55.0	18.215	1.671	2507.66	0.06%	98.23%
56.0	17.381	1.608	2509.269	0.06%	98.29%
57.0	16.635	1.555	2510.824	0.06%	98.35%
58.0	16.042	1.511	2512.335	0.06%	98.41%
59.0	15.487	1.474	2513.809	0.06%	98.47%
60.0	15.011	1.441	2515.25	0.06%	98.52%
61.0	14.587	1.412	2516.662	0.05%	98.58%
62.0	14.221	1.388	2518.05	0.05%	98.63%
63.0	13.914	1.368	2519.419	0.05%	98.69%
64.0	13.599	1.350	2520.769	0.05%	98.74%
65.0	13.372	1.335	2522.104	0.05%	98.79%
66.0	13.146	1.323	2523.427	0.05%	98.84%
67.0	12.941	1.312	2524.738	0.05%	98.90%
68.0	12.751	1.301	2526.04	0.05%	98.95%
69.0	12.590	1.293	2527.332	0.05%	99.00%
70.0	12.407	1.284	2528.616	0.05%	99.05%
71.0	12.260	1.275	2529.891	0.05%	99.10%
72.0	12.143	1.269	2531.16	0.05%	99.15%
73.0	12.004	1.263	2532.423	0.05%	99.20%
74.0	11.887	1.256	2533.679	0.05%	99.25%
75.0	11.778	1.250	2534.929	0.05%	99.29%

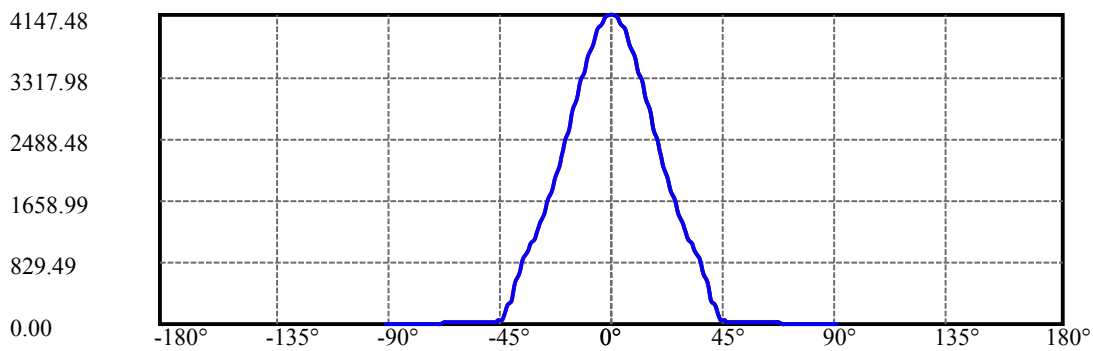
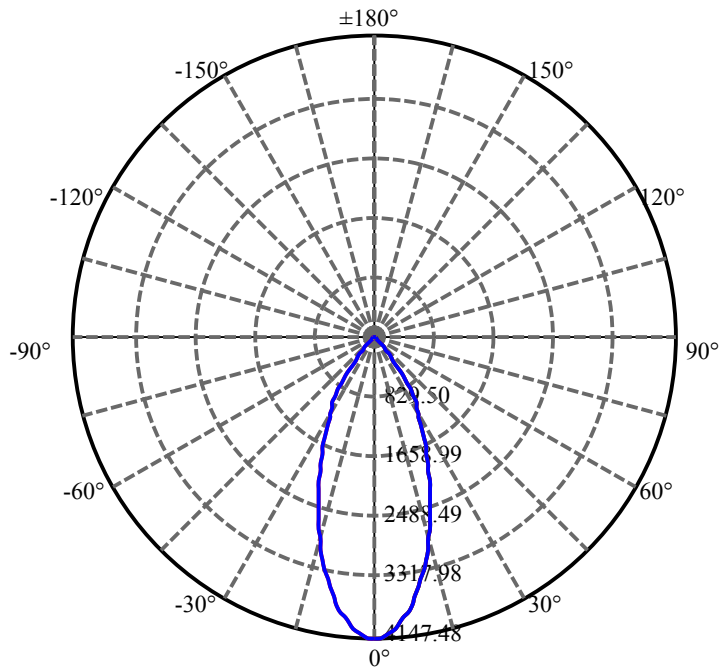
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.653	1.244	2536.173	0.05%	99.34%
77.0	11.566	1.238	2537.411	0.05%	99.39%
78.0	11.456	1.232	2538.643	0.05%	99.44%
79.0	11.368	1.226	2539.87	0.05%	99.49%
80.0	11.295	1.222	2541.091	0.05%	99.54%
81.0	11.200	1.216	2542.308	0.05%	99.58%
82.0	11.119	1.210	2543.518	0.05%	99.63%
83.0	11.024	1.204	2544.722	0.05%	99.68%
84.0	10.936	1.196	2545.918	0.05%	99.72%
85.0	10.849	1.189	2547.107	0.05%	99.77%
86.0	10.797	1.183	2548.291	0.05%	99.82%
87.0	10.702	1.177	2549.467	0.05%	99.86%
88.0	10.622	1.168	2550.635	0.04%	99.91%
89.0	10.556	1.161	2551.796	0.04%	99.95%
90.0	10.446	1.152	2552.948	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1922.30	73.65%	75.30%
0-40	2429.54	93.09%	95.17%
0-60	2515.25	96.37%	98.52%
0-90	2551.80	97.77%	99.95%
0-120	2551.80	97.77%	99.95%
0-180	2552.95	97.81%	100.00%
60-90	36.55	1.40%	1.43%
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%
0-31.86	2042.36	78.25%	80.00%

ZONAL LUMEN SUMMARY

0-10	362.86
10-20	795.65
20-30	763.79
30-40	507.25
40-50	68.87
50-60	16.84
60-70	13.37
70-80	12.48
80-90	10.70
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: —————

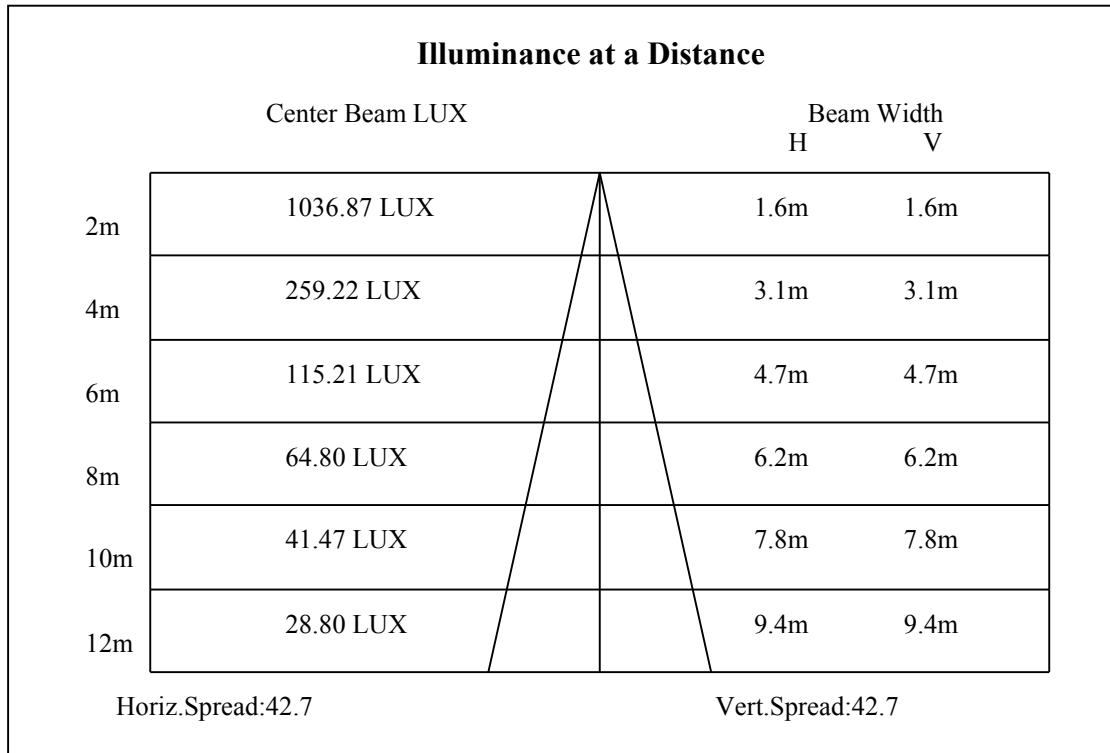
C90/C270: —————

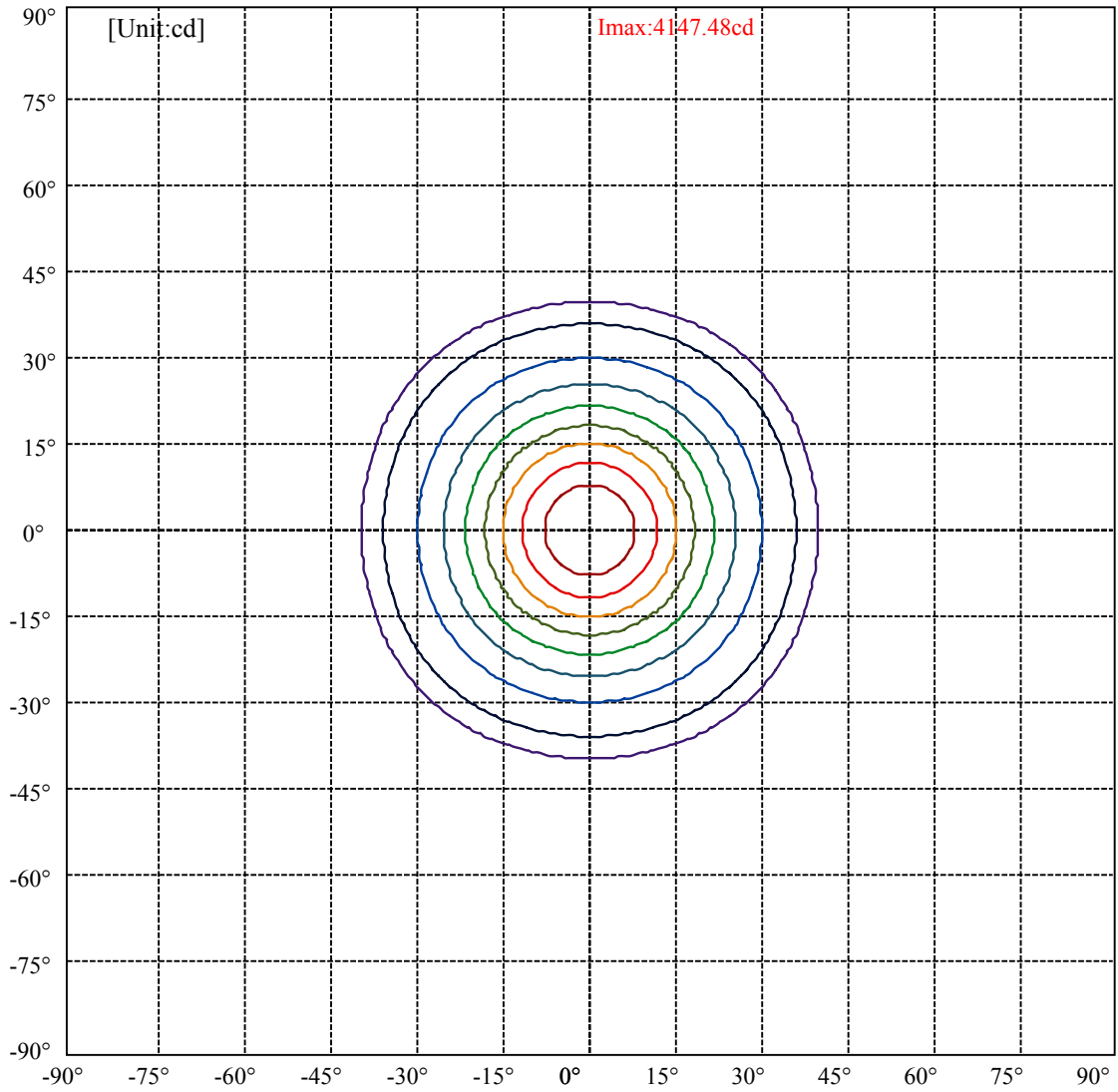
Field angle(10%Imax):C0/180Left:39.2 Right:39.2

:C90/270Left:39.2 Right:39.2

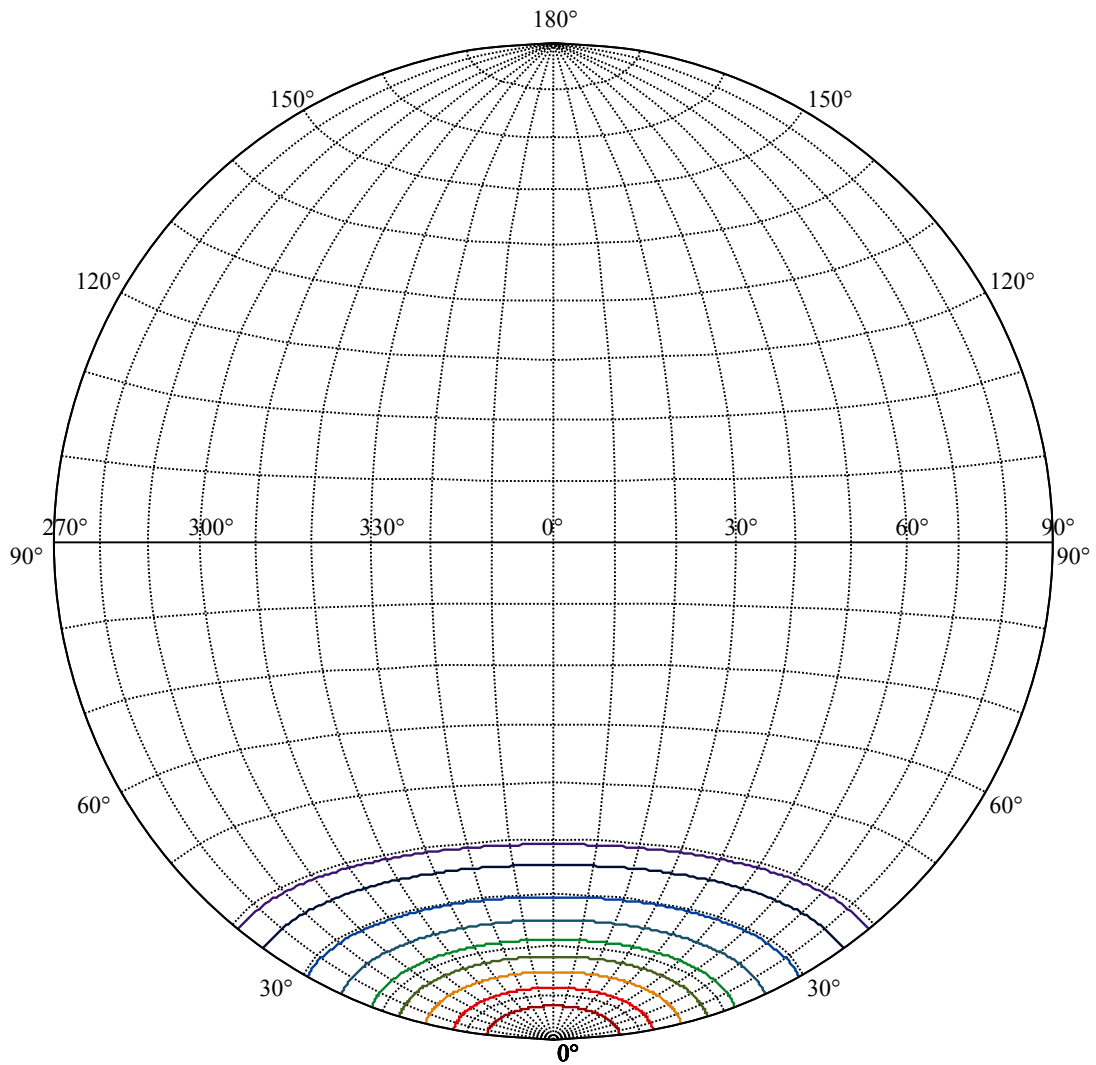
Beam Angle(50%Imax):C0/180Left:21.3 Right:21.3

:C90/270Left:21.3 Right:21.3





(10%Imax) 414.747	—
(20%Imax) 829.495	—
(30%Imax) 1244.24	—
(40%Imax) 1658.99	—
(50%Imax) 2073.74	—
(60%Imax) 2488.49	—
(70%Imax) 2903.23	—
(80%Imax) 3317.98	—
(90%Imax) 3732.73	—



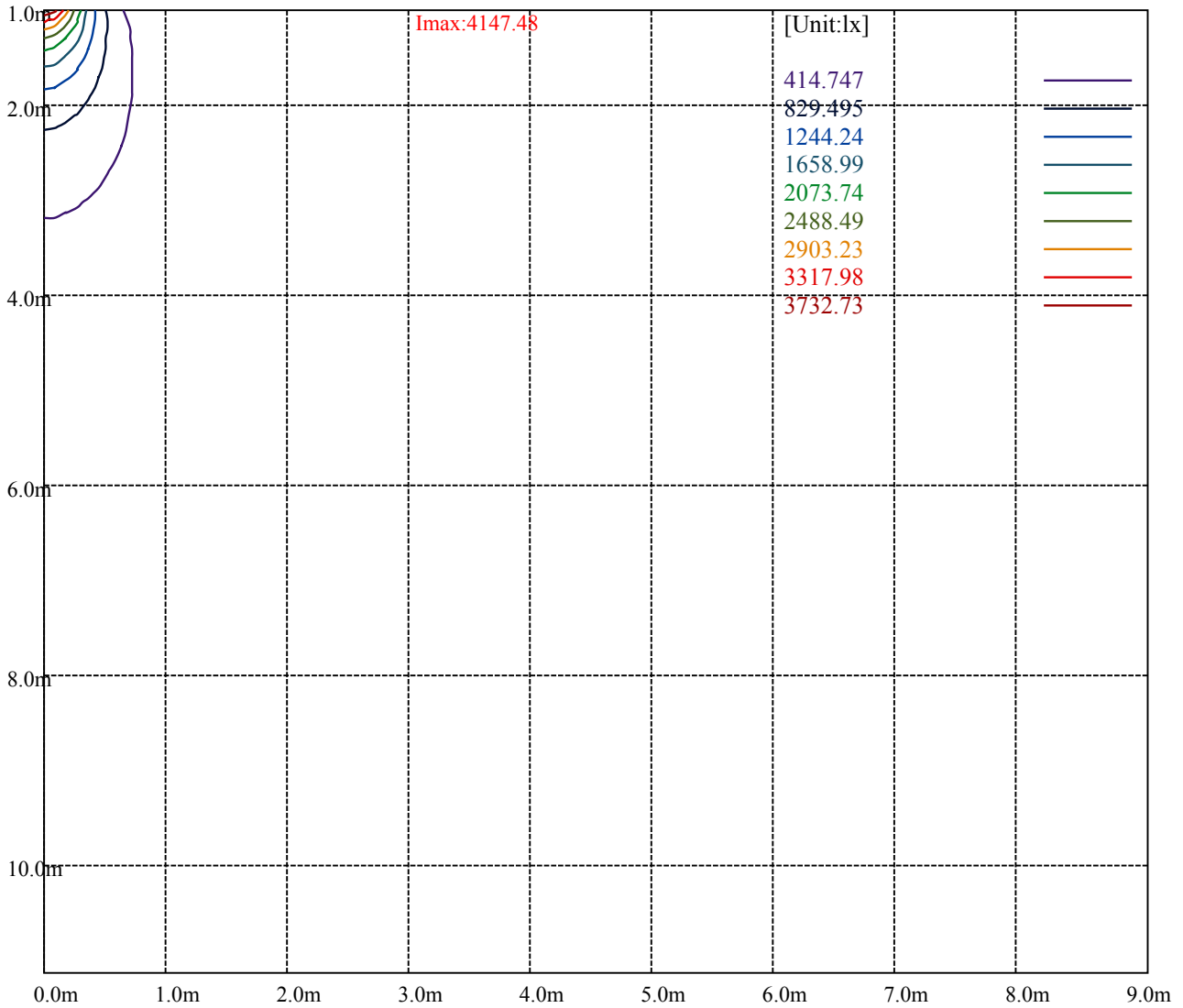
House

[Unit:cd]

Road

Imax:4147.48

(10%Imax) 414.747	—
(20%Imax) 829.495	—
(30%Imax) 1244.24	—
(40%Imax) 1658.99	—
(50%Imax) 2073.74	—
(60%Imax) 2488.49	—
(70%Imax) 2903.23	—
(80%Imax) 3317.98	—
(90%Imax) 3732.73	—



Luminance Table

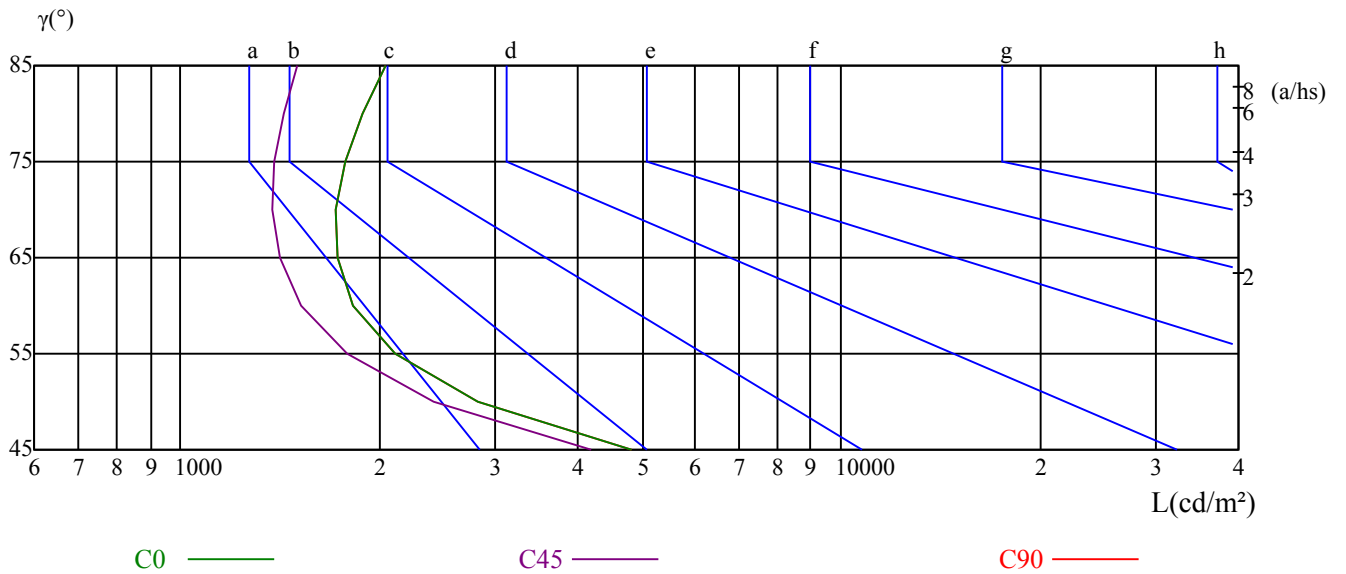
γ	45	50	55	60	65	70	75	80	85
C0	4809	2814	2112	1827	1726	1719	1775	1883	2039
C45	4197	2420	1789	1522	1412	1377	1390	1434	1503
C90	4809	2814	2112	1827	1726	1719	1775	1883	2039

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3738	3738	3738	5376	5376	5376	14706	14706	14706

Glare Table

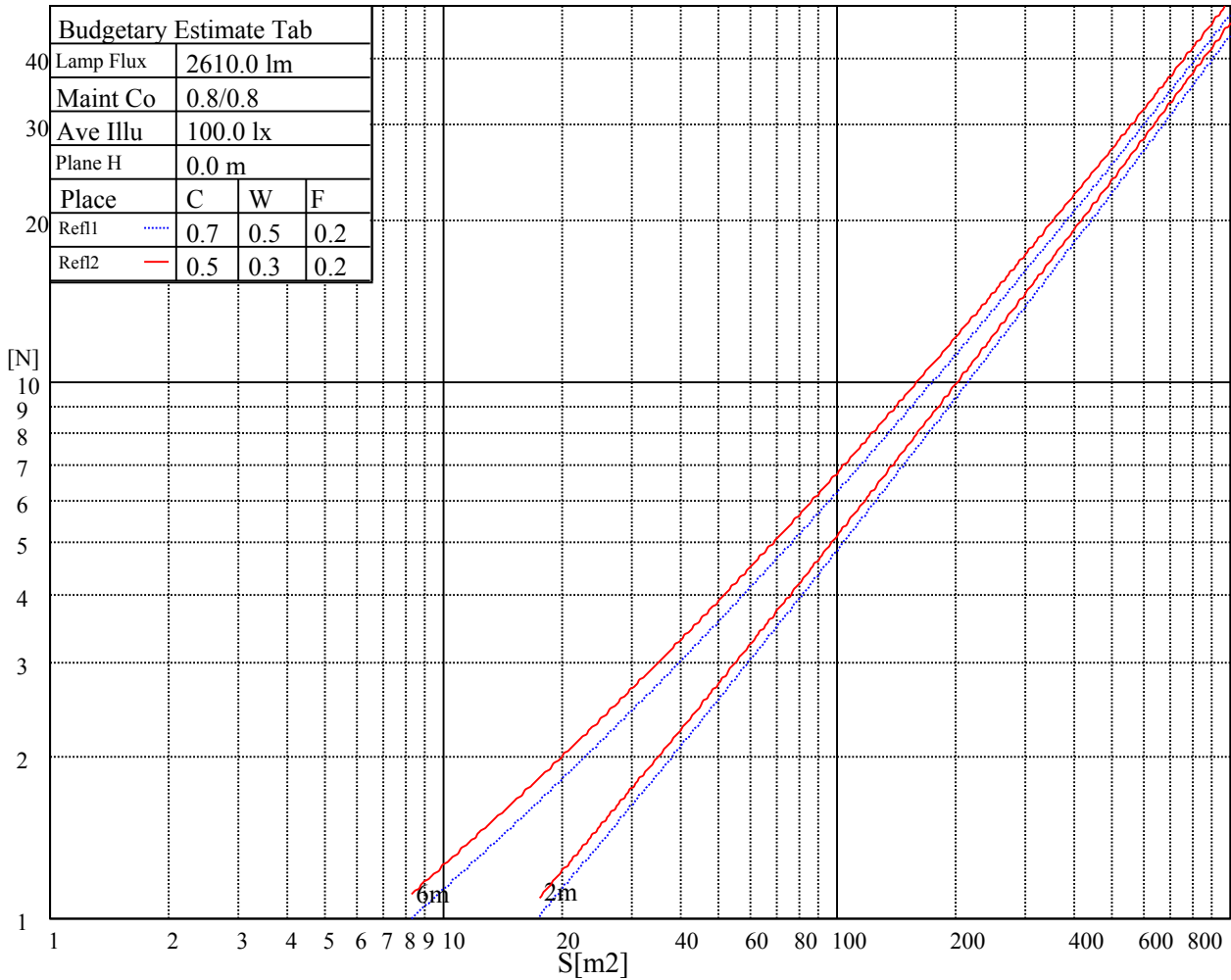
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

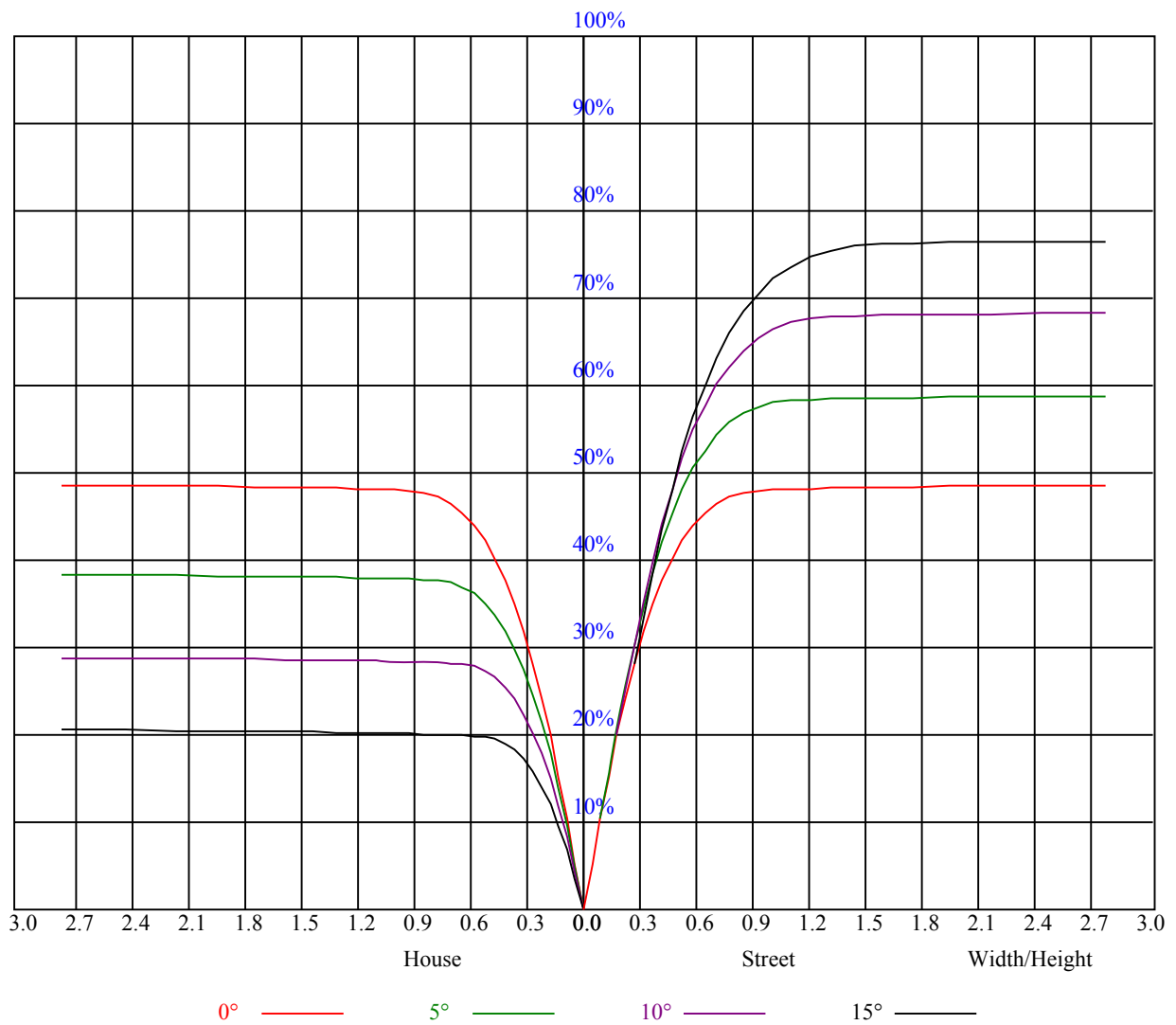


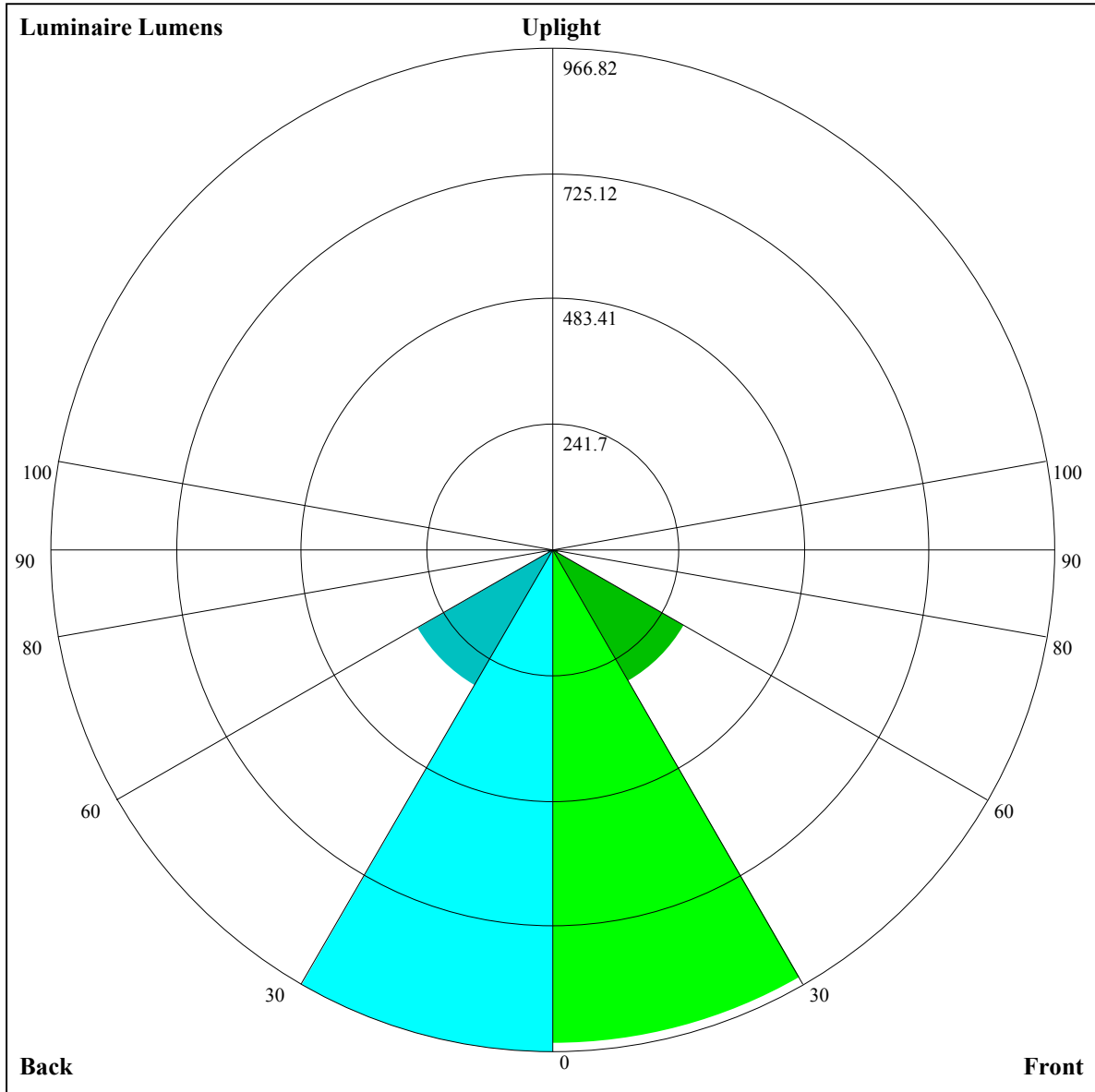
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	17.68	18.63	18.05	18.94	19.26	17.29	18.24	17.65	18.55	18.86
	3H	17.52	18.37	17.91	18.70	19.05	17.13	17.98	17.52	18.32	18.66
	4H	17.46	18.24	17.86	18.60	18.97	17.08	17.86	17.48	18.21	18.58
	6H	17.44	18.16	17.86	18.53	18.93	17.07	17.78	17.49	18.16	18.56
	8H	17.42	18.10	17.84	18.48	18.89	17.05	17.73	17.47	18.11	18.52
	12H	17.41	18.05	17.83	18.45	18.86	17.04	17.69	17.47	18.08	18.50
4H	2H	17.38	18.16	17.78	18.52	18.89	16.99	17.77	17.39	18.12	18.49
	3H	17.21	17.86	17.63	18.26	18.68	16.82	17.48	17.25	17.87	18.29
	4H	17.20	17.77	17.64	18.19	18.64	16.83	17.39	17.27	17.82	18.27
	6H	17.18	17.68	17.65	18.13	18.59	16.82	17.32	17.29	17.77	18.23
	8H	17.21	17.67	17.70	18.13	18.61	16.86	17.32	17.34	17.78	18.25
	12H	17.27	17.69	17.76	18.15	18.67	16.93	17.35	17.42	17.81	18.33
8H	4H	17.04	17.50	17.53	17.96	18.44	16.67	17.13	17.16	17.59	18.07
	6H	17.06	17.44	17.56	17.92	18.43	16.71	17.09	17.21	17.56	18.08
	8H	17.17	17.49	17.71	18.01	18.51	16.84	17.16	17.37	17.68	18.18
	12H	17.30	17.54	17.84	18.06	18.58	16.98	17.22	17.52	17.74	18.26
12H	4H	17.00	17.42	17.49	17.88	18.40	16.63	17.06	17.12	17.51	18.03
	6H	17.07	17.39	17.60	17.91	18.41	16.72	17.04	17.26	17.56	18.06
	8H	17.17	17.41	17.71	17.93	18.45	16.84	17.08	17.38	17.60	18.12
Variation with the observer position at spacings:											
S = 1.0H	5.1/-9.5					5.1/-9.5					
S = 1.5H	7.7/-7.9					7.7/-7.9					
S = 2.0H	9.5/-6.9					9.5/-6.9					
Standard tables:	BK1					BK1					
Uncorrected UGR	-1.0					-1.0					

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	1.16	1.16	1.16	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.08	1.06	1.04	1.06	1.04	1.02	1.02	1.01	0.99	0.99	0.97	0.96	0.95	0.94	0.93	0.92
2	1.01	0.97	0.94	1.00	0.96	0.93	0.96	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.86
3	0.95	0.90	0.86	0.93	0.89	0.86	0.91	0.87	0.84	0.89	0.86	0.83	0.86	0.84	0.82	0.80
4	0.89	0.84	0.80	0.88	0.83	0.80	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.75
5	0.84	0.78	0.74	0.83	0.78	0.74	0.81	0.77	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.71
6	0.79	0.74	0.70	0.78	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.68	0.74	0.71	0.68	0.67
7	0.75	0.69	0.65	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.63
8	0.71	0.65	0.62	0.70	0.65	0.62	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.59
9	0.67	0.62	0.58	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.56
10	0.64	0.59	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.53





Luminaire Lumens:

FL=950.25,FM=293.04,FH=12.91,FVH=5.93

BL=966.82,BM=301.51,BH=12.97,BVH=5.94

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	4144.04	4118.29	4084.34	4035.77	3961.45	3897.66	3827.43	3748.42	3630.21
45.0	4150.47	4141.70	4119.46	4074.98	4025.82	3966.13	3898.24	3811.04	3733.21
90.0	4144.04	4112.43	4071.47	4021.72	3961.45	3869.57	3788.22	3701.61	3581.05
135.0	4151.64	4153.40	4131.75	4099.56	4050.99	3976.08	3906.44	3829.77	3716.82
180.0	4144.04	4145.79	4128.82	4101.32	4069.13	4003.00	3933.94	3862.54	3780.61
225.0	4149.89	4140.53	4119.46	4084.34	4046.30	3993.05	3911.70	3837.38	3756.03
270.0	4144.04	4153.40	4146.38	4125.31	4085.51	4036.94	3977.83	3891.22	3813.97
315.0	4151.64	4133.50	4090.20	4039.28	3977.83	3900.00	3796.41	3705.70	3612.07
360.0	4144.04	4118.29	4084.34	4035.77	3961.45	3897.66	3827.43	3748.42	3630.21
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3535.99	3437.08	3325.89	3178.42	3069.56	2956.62	2805.63	2685.07	2531.16
45.0	3650.11	3562.32	3435.91	3330.57	3221.14	3108.77	2960.13	2837.81	2687.41
90.0	3478.05	3341.11	3222.31	3109.94	2987.05	2833.72	2709.07	2577.39	2442.79
135.0	3619.09	3517.85	3414.26	3274.39	3161.44	3046.74	2924.43	2772.27	2644.11
180.0	3674.10	3573.44	3466.35	3354.57	3207.09	3088.88	2965.39	2846.01	2700.29
225.0	3668.25	3550.62	3444.69	3337.60	3224.06	3074.25	2950.76	2825.52	2669.27
270.0	3725.60	3607.97	3507.90	3373.88	3257.42	3140.38	3022.75	2867.66	2743.59
315.0	3511.41	3381.49	3269.13	3124.57	3006.36	2889.31	2742.42	2620.11	2496.04
360.0	3535.99	3437.08	3325.89	3178.42	3069.56	2956.62	2805.63	2685.07	2531.16
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2411.77	2292.97	2177.10	2038.98	1933.06	1827.13	1728.81	1610.60	1518.13
45.0	2574.46	2456.25	2316.96	2209.87	2105.70	2004.45	1881.56	1784.99	1690.19
90.0	2288.87	2170.07	2056.54	1947.10	1815.43	1713.60	1588.36	1495.89	1408.11
135.0	2520.04	2368.46	2249.66	2104.53	1990.41	1877.46	1745.20	1642.79	1542.71
180.0	2576.22	2418.21	2295.90	2174.75	2037.81	1930.13	1818.35	1698.38	1599.48
225.0	2541.11	2390.70	2280.10	2171.24	2065.90	1937.15	1837.67	1745.78	1656.25
270.0	2621.28	2497.80	2345.64	2225.08	2109.21	1985.73	1877.46	1784.41	1662.68
315.0	2346.81	2231.52	2123.25	2013.82	1908.48	1781.48	1682.00	1587.77	1471.90
360.0	2411.77	2292.97	2177.10	2038.98	1933.06	1827.13	1728.81	1610.60	1518.13
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1429.76	1346.08	1161.50	1161.50	1113.33	1035.44	981.25	910.26	828.09
45.0	1599.48	1491.80	1411.04	1336.13	1252.44	1185.14	1106.13	1049.37	974.46
90.0	1254.20	1160.15	1160.15	1095.83	1011.27	952.45	894.57	819.26	702.62
135.0	1443.22	1326.18	1240.15	1165.24	1096.77	1016.01	959.83	913.01	843.37
180.0	1500.58	1415.13	1331.45	1230.79	1157.05	1095.01	1017.18	961.00	897.79
225.0	1548.56	1466.05	1387.04	1313.30	1154.94	1154.94	1095.48	1025.90	950.41
270.0	1573.14	1484.77	1383.53	1305.11	1230.79	1165.24	1081.55	1023.62	972.70
315.0	1383.53	1160.38	1160.38	1125.97	1062.36	985.99	934.90	885.45	799.83
360.0	1429.76	1346.08	1161.50	1161.50	1113.33	1035.44	981.25	910.26	828.09
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	730.19	622.74	481.41	366.99	263.00	172.17	87.43	53.72	41.73
45.0	876.73	736.27	619.81	500.43	386.31	306.13	306.13	104.17	74.27
90.0	601.55	498.85	399.53	279.44	194.59	111.13	71.75	54.78	44.89
135.0	764.95	670.14	537.30	422.59	311.98	311.98	110.61	60.10	37.04
180.0	810.01	718.13	613.37	465.31	358.80	306.72	306.72	76.61	45.65
225.0	853.43	716.73	602.55	485.50	345.40	244.92	161.00	102.18	73.15
270.0	908.91	798.31	696.48	589.38	451.85	344.76	295.01	295.01	83.51
315.0	712.10	610.86	502.12	389.88	255.74	165.33	95.33	52.67	34.12
360.0	730.19	622.74	481.41	366.99	263.00	172.17	87.43	53.72	41.73

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	35.70	30.49	27.39	24.46	22.77	21.30	19.90	18.96	18.08
45.0	60.98	52.79	46.58	39.91	35.70	31.66	28.97	26.74	24.29
90.0	39.50	35.23	30.90	28.15	25.87	23.76	21.59	20.13	19.02
135.0	30.14	26.45	24.35	22.53	20.72	19.55	18.73	17.85	17.32
180.0	37.04	30.67	27.51	24.87	22.36	20.83	19.61	18.38	17.56
225.0	63.15	55.30	48.98	42.43	38.27	34.00	31.13	28.73	26.10
270.0	58.99	49.28	43.31	38.92	35.05	31.08	28.32	25.81	23.58
315.0	29.90	26.10	24.11	22.36	20.54	19.61	18.79	17.91	17.32
360.0	35.70	30.49	27.39	24.46	22.77	21.30	19.90	18.96	18.08
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.15	16.44	15.92	15.45	14.92	14.46	14.16	13.93	13.64
45.0	22.71	21.24	20.01	18.67	17.79	16.97	16.33	15.51	15.04
90.0	18.08	17.21	16.62	16.04	15.39	14.98	14.51	14.16	13.87
135.0	16.74	16.09	15.68	15.16	14.86	14.57	14.28	13.99	13.64
180.0	16.85	16.09	15.51	15.04	14.63	14.28	13.93	13.69	13.46
225.0	24.29	22.65	20.95	19.78	18.79	17.85	16.91	16.27	15.74
270.0	21.24	19.72	18.61	17.62	16.97	16.15	15.68	15.16	14.69
315.0	16.74	16.27	15.74	15.33	14.98	14.63	14.28	13.99	13.69
360.0	17.15	16.44	15.92	15.45	14.92	14.46	14.16	13.93	13.64
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.34	13.17	12.99	12.82	12.64	12.52	12.41	12.29	12.11
45.0	14.63	14.10	13.81	13.52	13.23	12.99	12.76	12.47	12.29
90.0	13.64	13.34	13.17	12.93	12.76	12.52	12.41	12.23	12.06
135.0	13.46	13.28	13.11	12.87	12.76	12.58	12.47	12.35	12.23
180.0	13.23	12.99	12.82	12.64	12.52	12.41	12.29	12.17	12.11
225.0	15.22	14.63	14.28	13.99	13.58	13.34	13.05	12.82	12.58
270.0	14.34	13.99	13.69	13.46	13.23	12.99	12.82	12.58	12.47
315.0	13.46	13.28	13.11	12.93	12.82	12.64	12.52	12.35	12.23
360.0	13.34	13.17	12.99	12.82	12.64	12.52	12.41	12.29	12.11
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.00	11.88	11.82	11.70	11.59	11.53	11.41	11.29	11.24
45.0	12.11	12.00	11.82	11.70	11.65	11.53	11.35	11.24	11.18
90.0	12.00	11.88	11.76	11.65	11.53	11.47	11.35	11.29	11.24
135.0	12.11	12.06	11.94	11.82	11.76	11.65	11.53	11.47	11.41
180.0	12.06	11.94	11.88	11.82	11.65	11.53	11.47	11.41	11.29
225.0	12.41	12.17	12.00	11.82	11.65	11.53	11.41	11.35	11.24
270.0	12.35	12.17	12.06	11.94	11.82	11.76	11.70	11.53	11.53
315.0	12.11	11.94	11.82	11.76	11.59	11.53	11.41	11.35	11.24
360.0	12.00	11.88	11.82	11.70	11.59	11.53	11.41	11.29	11.24
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.12	11.06	11.00	10.89	10.89	10.83	10.71	10.71	10.65
45.0	11.06	11.00	10.89	10.83	10.77	10.71	10.65	10.59	10.53
90.0	11.12	11.06	11.00	10.89	10.77	10.71	10.59	10.48	10.48
135.0	11.29	11.24	11.12	11.00	10.89	10.89	10.77	10.65	10.59
180.0	11.24	11.12	11.00	10.94	10.83	10.83	10.71	10.65	10.59
225.0	11.18	11.06	10.94	10.89	10.77	10.71	10.65	10.59	10.48
270.0	11.47	11.35	11.29	11.18	11.06	10.94	10.83	10.71	10.53
315.0	11.12	11.06	10.94	10.89	10.83	10.77	10.71	10.59	10.59
360.0	11.12	11.06	11.00	10.89	10.89	10.83	10.71	10.71	10.65

Intensity data(cd)

<i>C/γ</i> (°)	90.0
0.0	10.48
45.0	10.42
90.0	10.42
135.0	10.48
180.0	10.42
225.0	10.42
270.0	10.48
315.0	10.48
360.0	10.48