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Nata

Client:

LumCAT: 2-2521-L

Luminaire: 92.70.412.00

Report No: 2024812-B015

Ballast type: AC

Test No: 2024812-C015

Voltage(V): 36.630

LampCAT: P2141-036-1206-P3090-1

Current(A): 0.695

Lamp flux(lm): 3141.0

Power (W): 25.430

Number of Lamps: 1

PF: 0.000

Length(mm): 40

Width(mm): 280

Phm Type: C

Height(mm): 25

Photometric Results

Lumens(lm): 2841.43, Efficiency(%): 90.46% , Luminous Efficacy(lm/W): 111.74

Central intensity(cd): 4706.236, Maximum intensity(cd): 4706.236

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=48.8

[C90/270]Total=48.8

Field angle(10%Imax): [C0/180]Total=70.0

[C90/270]Total=70.0

Maximum s/h(1/2): C0_180=0.77 C90_270=0.77

Maximum s/h(1/4): C0_180=0.74 C90_270=0.74

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.46%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.217%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/12
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4706.236	0.000	0	0.00%	0.00%
1.0	4697.182	4.499	4.499	0.14%	0.16%
2.0	4667.221	13.441	17.94	0.43%	0.63%
3.0	4617.773	22.207	40.147	0.71%	1.41%
4.0	4562.478	30.729	70.876	0.98%	2.49%
5.0	4495.552	38.967	109.843	1.24%	3.87%
6.0	4418.811	46.847	156.69	1.49%	5.51%
7.0	4331.393	54.312	211.003	1.73%	7.43%
8.0	4257.983	61.473	272.475	1.96%	9.59%
9.0	4185.769	68.432	340.907	2.18%	12.00%
10.0	4100.933	74.992	415.899	2.39%	14.64%
11.0	4015.276	81.098	496.997	2.58%	17.49%
12.0	3918.265	86.725	583.722	2.76%	20.54%
13.0	3831.419	91.969	675.691	2.93%	23.78%
14.0	3745.965	96.990	772.681	3.09%	27.19%
15.0	3654.454	101.596	874.277	3.23%	30.77%
16.0	3538.908	105.403	979.68	3.36%	34.48%
17.0	3439.591	108.674	1088.354	3.46%	38.30%
18.0	3331.845	111.646	1200	3.55%	42.23%
19.0	3206.418	113.752	1313.752	3.62%	46.24%
20.0	3072.561	114.923	1428.675	3.66%	50.28%
21.0	2924.006	115.146	1543.821	3.67%	54.33%
22.0	2767.159	114.366	1658.188	3.64%	58.36%
23.0	2602.251	112.665	1770.852	3.59%	62.32%
24.0	2424.025	109.892	1880.745	3.50%	66.19%
25.0	2237.369	105.990	1986.735	3.37%	69.92%
26.0	2059.287	101.423	2088.158	3.23%	73.49%
27.0	1851.468	95.677	2183.835	3.05%	76.86%
28.0	1590.167	87.135	2270.97	2.77%	79.92%
29.0	1425.883	78.908	2349.879	2.51%	82.70%
30.0	1177.328	70.286	2420.165	2.24%	85.17%
31.0	1039.141	61.681	2481.846	1.96%	87.34%
32.0	891.808	55.319	2537.165	1.76%	89.29%
33.0	719.909	47.482	2584.647	1.51%	90.96%
34.0	593.273	39.741	2624.388	1.27%	92.36%
35.0	474.541	33.162	2657.55	1.06%	93.53%
36.0	371.906	26.951	2684.501	0.86%	94.48%
37.0	306.636	22.130	2706.631	0.70%	95.26%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	239.021	18.213	2724.845	0.58%	95.90%
39.0	189.271	14.619	2739.464	0.47%	96.41%
40.0	149.284	11.808	2751.271	0.38%	96.83%
41.0	111.971	9.303	2760.574	0.30%	97.15%
42.0	88.101	7.269	2767.843	0.23%	97.41%
43.0	73.423	5.983	2773.827	0.19%	97.62%
44.0	62.582	5.133	2778.96	0.16%	97.80%
45.0	54.100	4.484	2783.444	0.14%	97.96%
46.0	47.234	3.963	2787.407	0.13%	98.10%
47.0	41.853	3.543	2790.95	0.11%	98.22%
48.0	37.792	3.220	2794.17	0.10%	98.34%
49.0	34.238	2.958	2797.128	0.09%	98.44%
50.0	31.137	2.726	2799.854	0.09%	98.54%
51.0	28.430	2.520	2802.374	0.08%	98.63%
52.0	26.163	2.343	2804.716	0.07%	98.71%
53.0	24.350	2.197	2806.914	0.07%	98.79%
54.0	22.530	2.066	2808.98	0.07%	98.86%
55.0	20.959	1.941	2810.921	0.06%	98.93%
56.0	19.639	1.835	2812.756	0.06%	98.99%
57.0	18.298	1.735	2814.49	0.06%	99.05%
58.0	17.175	1.640	2816.131	0.05%	99.11%
59.0	16.150	1.558	2817.689	0.05%	99.16%
60.0	15.210	1.482	2819.17	0.05%	99.22%
61.0	14.409	1.413	2820.584	0.05%	99.27%
62.0	13.857	1.362	2821.946	0.04%	99.31%
63.0	13.364	1.324	2823.27	0.04%	99.36%
64.0	12.898	1.289	2824.558	0.04%	99.41%
65.0	12.438	1.254	2825.812	0.04%	99.45%
66.0	11.886	1.214	2827.026	0.04%	99.49%
67.0	11.399	1.171	2828.196	0.04%	99.53%
68.0	10.854	1.127	2829.324	0.04%	99.57%
69.0	10.361	1.082	2830.406	0.03%	99.61%
70.0	9.842	1.038	2831.444	0.03%	99.65%
71.0	9.251	0.987	2832.431	0.03%	99.68%
72.0	8.357	0.916	2833.346	0.03%	99.72%
73.0	7.714	0.840	2834.187	0.03%	99.74%
74.0	7.149	0.781	2834.968	0.02%	99.77%
75.0	6.610	0.727	2835.695	0.02%	99.80%

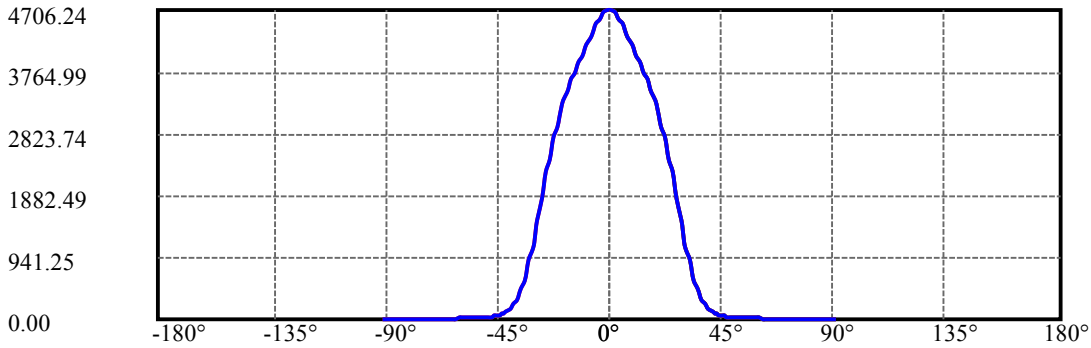
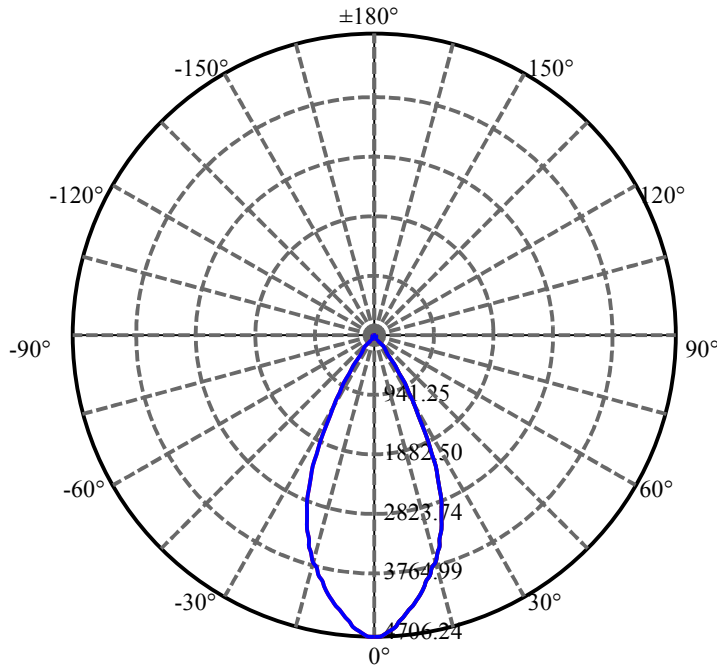
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.058	0.672	2836.367	0.02%	99.82%
77.0	5.644	0.624	2836.991	0.02%	99.84%
78.0	5.171	0.579	2837.57	0.02%	99.86%
79.0	4.757	0.533	2838.103	0.02%	99.88%
80.0	4.356	0.491	2838.595	0.02%	99.90%
81.0	3.936	0.448	2839.043	0.01%	99.92%
82.0	3.555	0.406	2839.449	0.01%	99.93%
83.0	3.180	0.366	2839.815	0.01%	99.94%
84.0	2.799	0.326	2840.141	0.01%	99.95%
85.0	2.470	0.288	2840.429	0.01%	99.96%
86.0	2.201	0.255	2840.684	0.01%	99.97%
87.0	1.899	0.224	2840.908	0.01%	99.98%
88.0	1.649	0.194	2841.103	0.01%	99.99%
89.0	1.491	0.172	2841.275	0.01%	99.99%
90.0	1.399	0.159	2841.433	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2420.16	77.05%	85.17%
0-40	2751.27	87.59%	96.83%
0-60	2819.17	89.75%	99.22%
0-90	2841.27	90.46%	99.99%
0-120	2841.27	90.46%	99.99%
0-180	2841.43	90.46%	100.00%
60-90	22.10	0.70%	0.78%
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%
0-28.03	2273.15	72.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	415.90
10-20	1012.78
20-30	991.49
30-40	331.11
40-50	48.58
50-60	19.32
60-70	12.27
70-80	7.15
80-90	2.68
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: —————

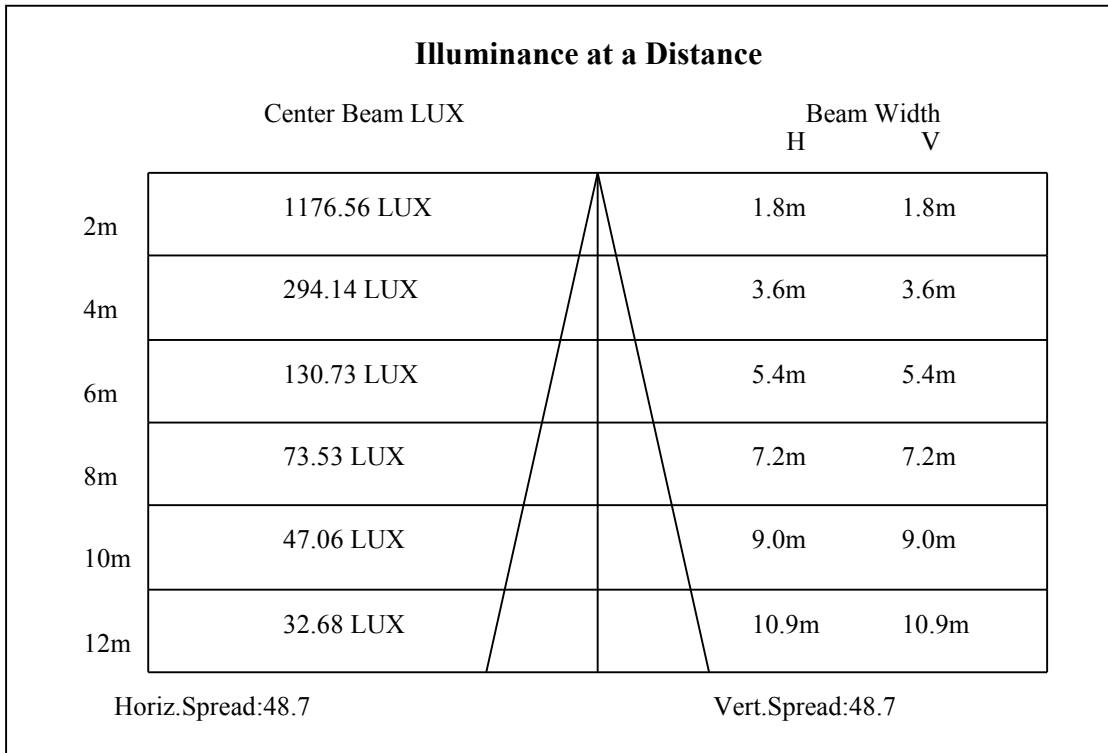
C90/C270: —————

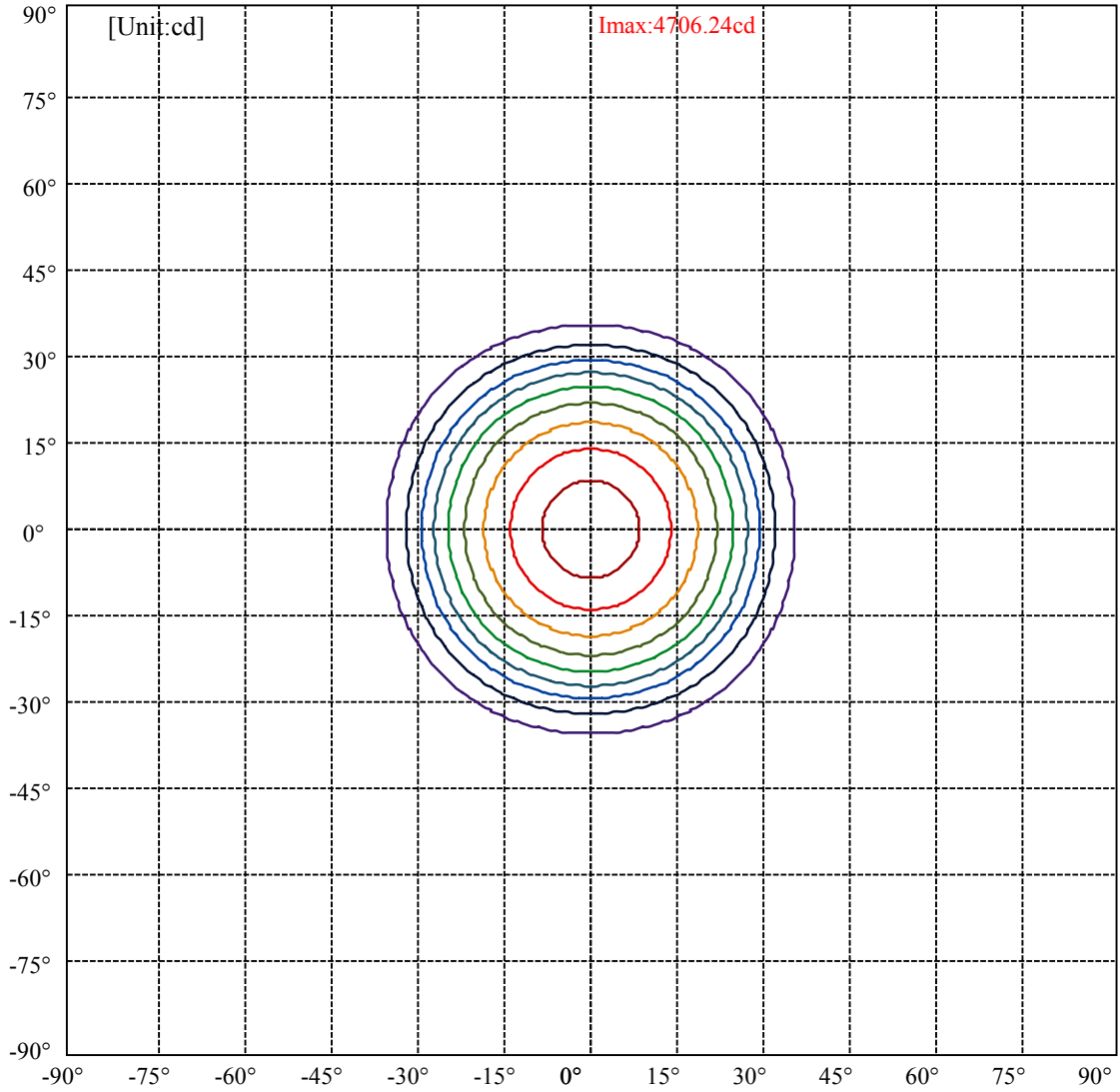
Field angle(10%Imax):C0/180Left:35.0 Right:35.0

:C90/270Left:35.0 Right:35.0

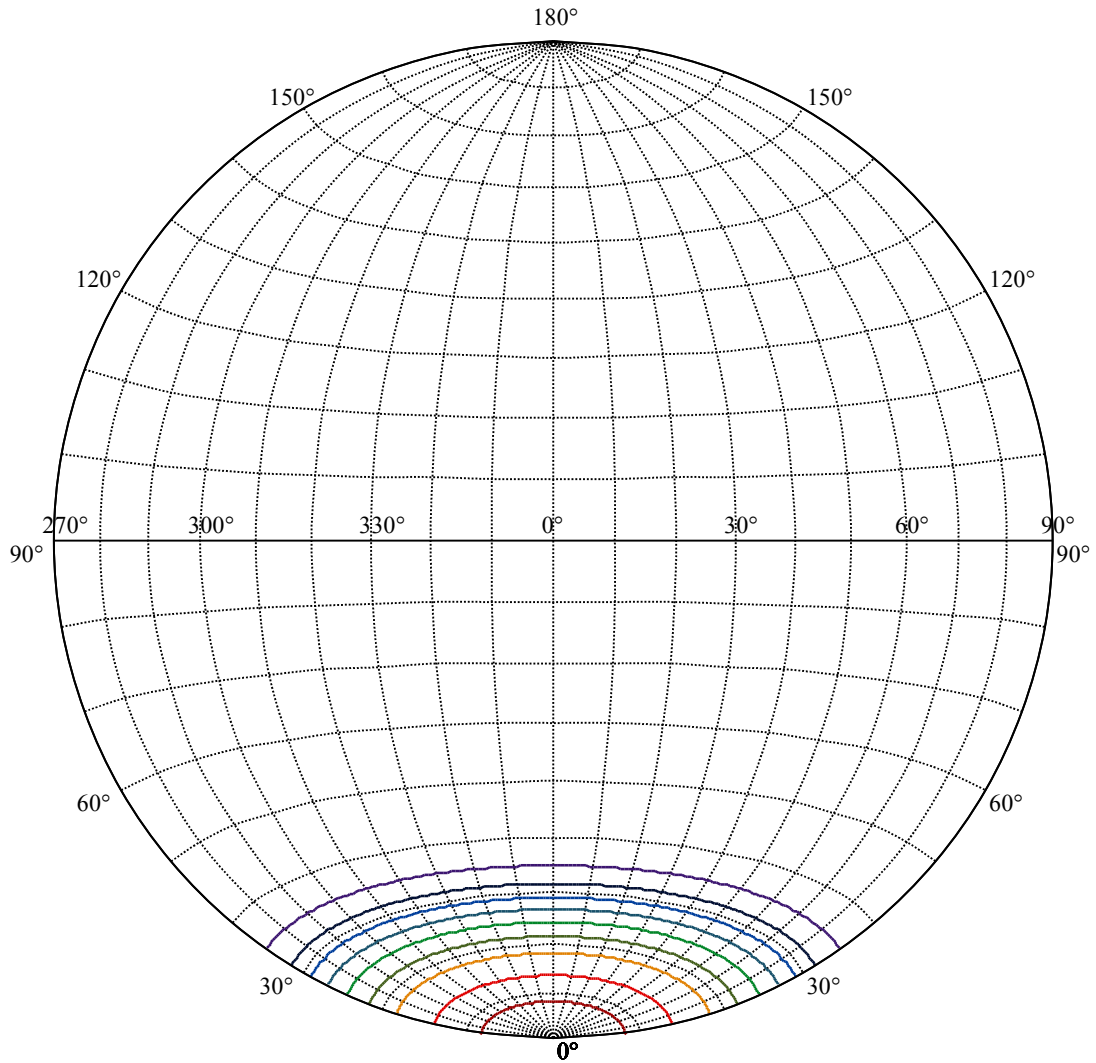
Beam Angle(50%Imax):C0/180Left:24.4 Right:24.4

:C90/270Left:24.4 Right:24.4





(10%Imax) 470.624	—
(20%Imax) 941.247	—
(30%Imax) 1411.87	—
(40%Imax) 1882.49	—
(50%Imax) 2353.12	—
(60%Imax) 2823.74	—
(70%Imax) 3294.37	—
(80%Imax) 3764.99	—
(90%Imax) 4235.61	—



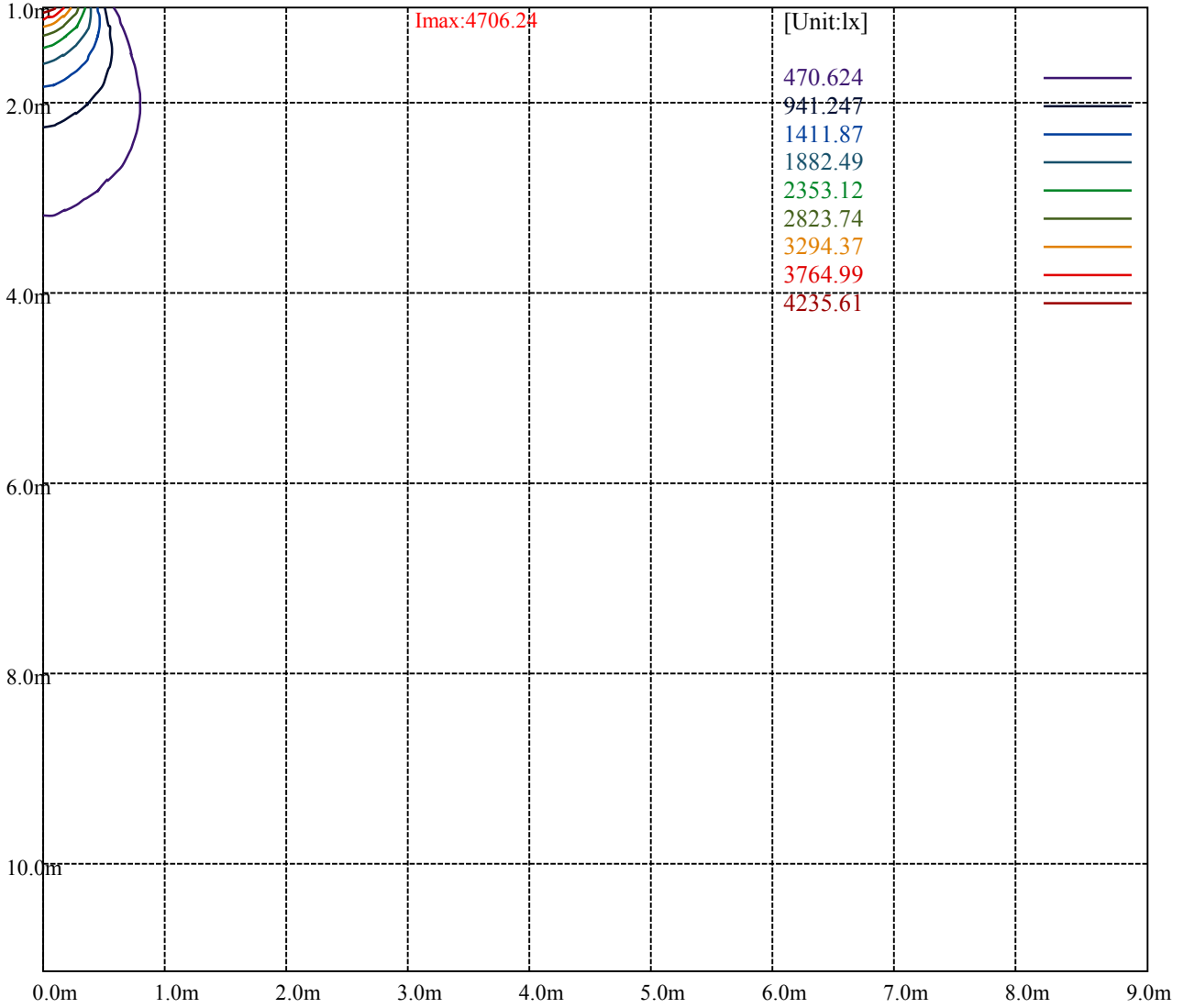
House

[Unit:cd]

Road

Imax:4706.24

(10%Imax) 470.624	—
(20%Imax) 941.247	—
(30%Imax) 1411.87	—
(40%Imax) 1882.49	—
(50%Imax) 2353.12	—
(60%Imax) 2823.74	—
(70%Imax) 3294.37	—
(80%Imax) 3764.99	—
(90%Imax) 4235.61	—



Luminance Table

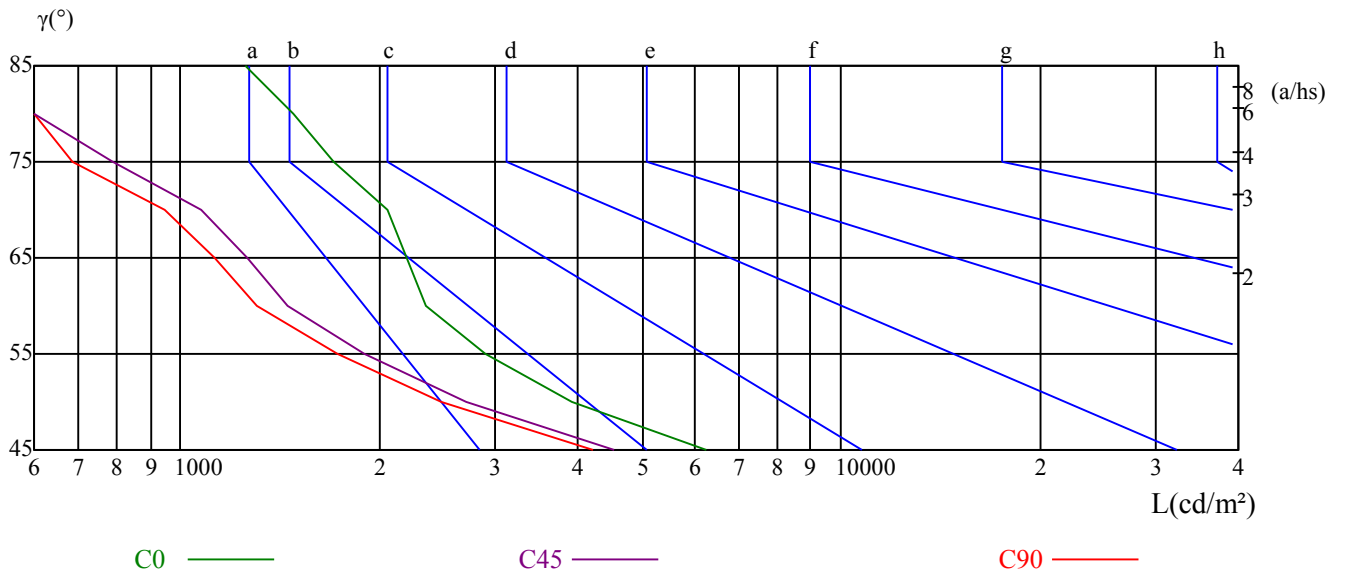
γ	45	50	55	60	65	70	75	80	85
C0	6271	3909	2894	2352	2205	2063	1710	1487	1253
C45	4539	2700	1895	1449	1261	1076	790	580	374
C90	4204	2479	1724	1304	1123	946	684	493	311

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2628	2628	2628	2280	2280	2280	2531	2531	2531

Glare Table

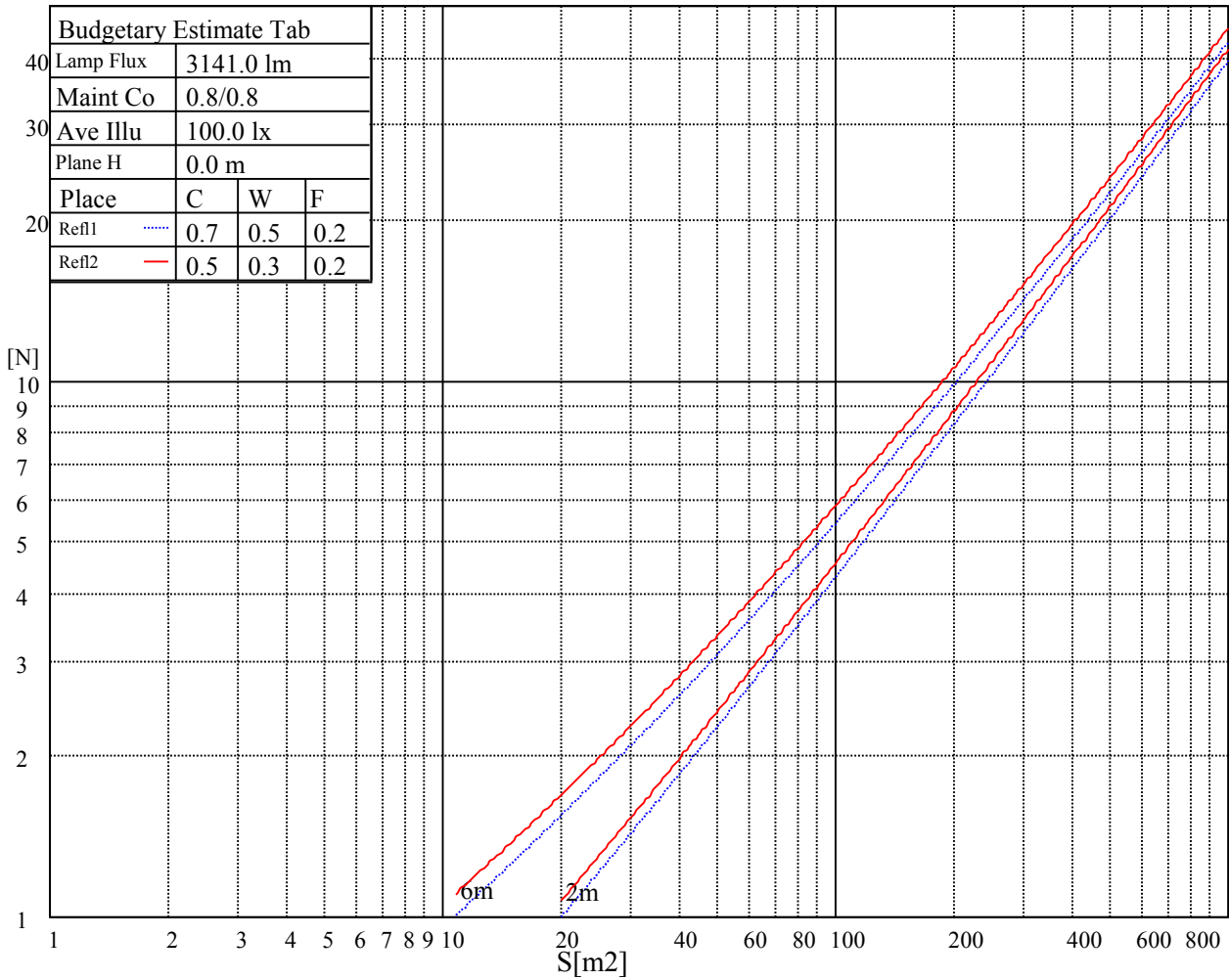
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

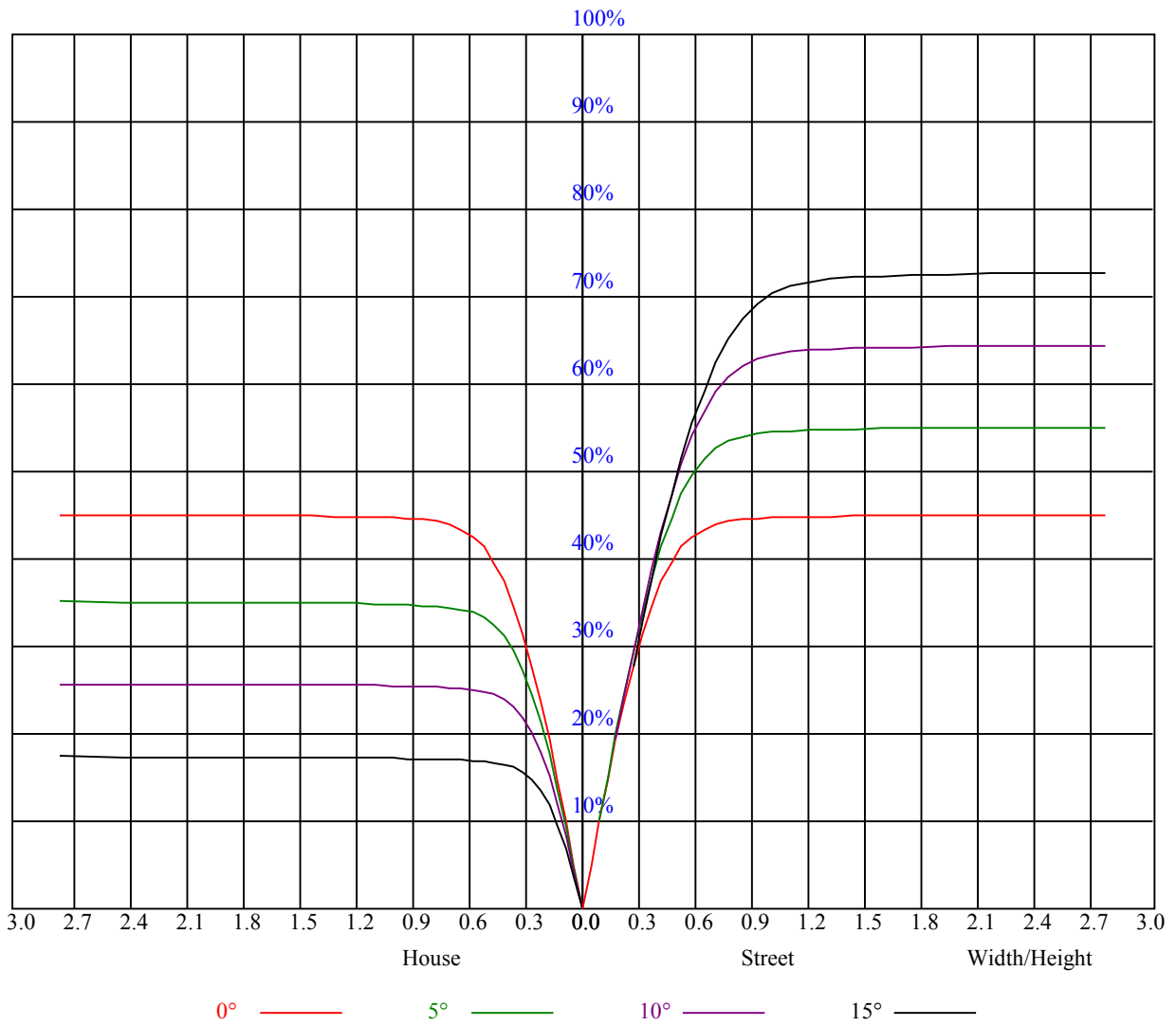


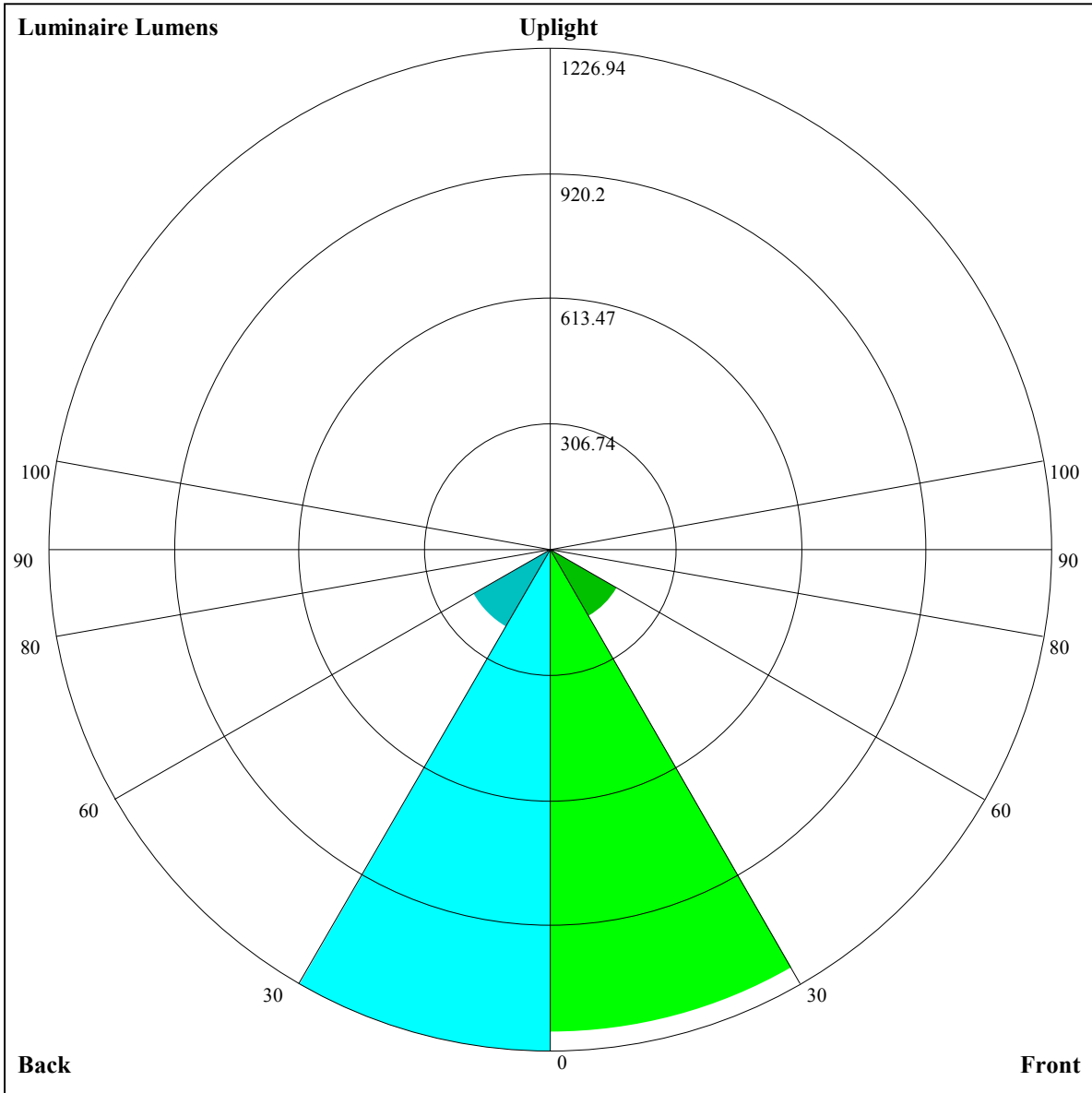
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	12.53	13.45	12.89	13.76	14.08	11.71	12.63	12.07	12.94	13.26
	3H	12.56	13.37	12.94	13.71	14.06	11.61	12.43	12.00	12.77	13.12
	4H	12.53	13.28	12.93	13.64	14.01	11.55	12.31	11.96	12.67	13.03
	6H	12.50	13.19	12.92	13.57	13.97	11.50	12.19	11.92	12.57	12.97
	8H	12.45	13.11	12.88	13.50	13.91	11.43	12.09	11.86	12.48	12.89
	12H	12.41	13.03	12.84	13.43	13.85	11.37	11.99	11.80	12.39	12.81
4H	2H	12.27	13.03	12.67	13.38	13.75	11.46	12.22	11.86	12.57	12.94
	3H	12.32	12.96	12.75	13.35	13.77	11.39	12.02	11.81	12.42	12.84
	4H	12.36	12.90	12.80	13.33	13.78	11.39	11.93	11.83	12.36	12.81
	6H	12.32	12.80	12.79	13.25	13.71	11.31	11.79	11.78	12.24	12.69
	8H	12.31	12.75	12.79	13.21	13.69	11.27	11.71	11.75	12.17	12.65
	12H	12.30	12.71	12.79	13.16	13.68	11.23	11.64	11.72	12.09	12.61
8H	4H	12.20	12.64	12.69	13.10	13.58	11.25	11.69	11.74	12.15	12.63
	6H	12.17	12.54	12.68	13.02	13.53	11.18	11.54	11.69	12.02	12.54
	8H	12.23	12.53	12.76	13.05	13.55	11.20	11.50	11.73	12.02	12.52
	12H	12.24	12.46	12.78	12.98	13.51	11.17	11.40	11.71	11.91	12.44
12H	4H	12.15	12.56	12.64	13.01	13.53	11.20	11.61	11.69	12.07	12.59
	6H	12.17	12.47	12.70	12.99	13.49	11.18	11.48	11.71	12.00	12.50
	8H	12.19	12.41	12.73	12.93	13.46	11.16	11.39	11.71	11.91	12.43
Variation with the observer position at spacings:											
S = 1.0H	6.0/-8.0					5.9/-7.5					
S = 1.5H	8.7/-8.1					8.6/-7.4					
S = 2.0H	10.6/-7.9					10.5/-7.0					
Standard tables:	BK0					BK0					
Uncorrected UGR	-5.0					-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 RHOFC=20 CU															
0	1.08	1.08	1.08	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.95	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.86	0.87	0.85	0.84	0.85	0.83	0.82	0.81
3	0.89	0.85	0.82	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
5	0.79	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.59	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.60	0.56	0.54	0.52





Luminaire Lumens:

FL=1181.77,FM=188.85,FH=9.8,FVH=1.45

BL=1226.94,BM=217.71,BH=9.45,BVH=1.4

UL=0,UH=0

BUG Rating:B3-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	4686.05	4663.77	4635.33	4559.01	4483.21	4388.50	4317.75	4242.53	4171.20
45.0	4724.48	4689.94	4648.68	4591.86	4522.79	4480.43	4404.11	4291.57	4250.89
90.0	4682.69	4642.58	4587.97	4514.96	4439.74	4355.07	4283.21	4199.64	4123.84
135.0	4731.73	4700.51	4664.29	4616.93	4572.36	4497.14	4416.93	4343.92	4273.17
180.0	4686.05	4702.77	4681.58	4634.75	4611.36	4584.08	4535.62	4406.31	4340.03
225.0	4724.48	4726.16	4693.25	4662.08	4614.72	4525.58	4444.79	4355.07	4257.56
270.0	4682.69	4729.47	4743.98	4723.90	4674.91	4627.55	4531.15	4481.53	4385.71
315.0	4731.73	4722.27	4682.69	4638.69	4580.72	4506.08	4416.93	4330.57	4261.45
360.0	4686.05	4663.77	4635.33	4559.01	4483.21	4388.50	4317.75	4242.53	4171.20
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4082.63	3982.87	3895.99	3799.59	3710.44	3652.52	3547.18	3404.58	3328.78
45.0	4180.14	4087.10	3978.98	3872.02	3785.08	3708.76	3610.15	3489.26	3372.25
90.0	4029.13	3943.87	3844.74	3751.65	3645.26	3533.83	3459.72	3310.39	3177.77
135.0	4239.17	4150.02	4064.24	3970.10	3875.38	3789.02	3695.41	3582.87	3477.54
180.0	4264.82	4211.31	4136.09	4053.67	3960.06	3869.81	3780.66	3702.08	3603.47
225.0	4199.06	4111.60	4017.98	3932.20	3853.62	3758.90	3683.16	3557.22	3472.54
270.0	4305.50	4226.92	4135.56	4036.96	3953.38	3875.91	3781.77	3694.83	3603.47
315.0	4185.71	4093.78	4048.63	3929.94	3868.13	3778.98	3677.59	3570.05	3480.90
360.0	4082.63	3982.87	3895.99	3799.59	3710.44	3652.52	3547.18	3404.58	3328.78
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3189.49	3049.10	2898.66	2742.66	2580.50	2402.21	2206.10	1998.27	1794.90
45.0	3256.35	3124.32	2982.24	2827.34	2674.70	2507.55	2319.22	2128.68	2009.41
90.0	3095.88	2945.44	2785.55	2616.72	2442.32	2247.89	2051.20	1854.51	1649.52
135.0	3362.79	3225.13	3090.31	2942.66	2778.87	2607.26	2416.14	2227.81	2026.70
180.0	3504.29	3412.94	3295.93	3163.84	3008.41	2862.45	2700.87	2527.05	2338.14
225.0	3377.25	3247.99	3139.35	2987.81	2837.90	2681.37	2518.69	2339.24	2146.49
270.0	3495.93	3407.36	3288.10	3156.64	3018.45	2869.70	2716.48	2557.11	2454.04
315.0	3372.78	3239.06	3100.35	2954.38	2796.11	2639.58	2463.50	2266.28	2055.09
360.0	3189.49	3049.10	2898.66	2742.66	2580.50	2402.21	2206.10	1998.27	1794.90
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1582.66	1077.79	1077.79	929.41	762.52	674.53	495.45	432.80	340.92
45.0	1806.05	1595.43	1379.29	1165.89	972.56	796.48	640.47	510.64	403.68
90.0	1438.90	1037.32	1037.32	851.83	692.67	554.53	439.37	345.07	281.42
135.0	1825.55	1613.30	1396.53	1185.92	985.34	810.41	683.37	545.76	430.96
180.0	2174.35	1931.41	1775.98	1569.83	1314.06	1146.39	954.17	780.34	624.34
225.0	1952.59	1757.01	1546.44	1068.91	1068.91	1032.12	782.34	687.36	550.64
270.0	2187.70	2070.17	1870.12	1578.71	1448.94	1237.22	1039.95	858.87	694.51
315.0	1843.95	1638.90	1323.58	1068.12	1068.12	882.79	724.15	585.34	469.86
360.0	1582.66	1077.79	1077.79	929.41	762.52	674.53	495.45	432.80	340.92
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	242.00	208.31	161.00	125.31	98.76	80.05	66.96	57.82	51.09
45.0	317.90	317.90	181.13	140.87	109.80	95.61	71.96	61.34	56.19
90.0	218.98	168.52	129.72	101.24	80.37	65.91	55.87	48.41	42.58
135.0	336.82	290.57	290.57	154.59	121.21	96.61	78.90	65.76	55.98
180.0	494.51	387.54	301.18	301.18	178.19	153.17	110.01	88.88	79.11
225.0	433.85	340.71	265.91	207.52	162.68	128.94	103.50	85.36	72.17
270.0	557.48	444.89	352.43	305.60	305.60	168.46	132.72	110.22	84.99
315.0	373.72	294.67	230.22	177.87	137.66	107.02	84.89	69.59	58.55
360.0	242.00	208.31	161.00	125.31	98.76	80.05	66.96	57.82	51.09

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	45.41	40.42	35.95	32.69	29.86	27.44	25.28	23.39	22.39
45.0	49.62	44.42	39.84	36.11	32.59	29.65	27.02	24.76	23.18
90.0	37.79	34.01	30.85	28.17	25.86	23.76	21.76	20.18	18.76
135.0	51.30	42.79	38.11	35.74	32.38	29.70	27.17	25.12	23.44
180.0	66.49	57.40	50.41	44.89	40.37	36.58	33.43	30.70	28.33
225.0	61.66	53.40	47.31	42.42	38.00	34.53	31.64	29.22	27.07
270.0	70.43	61.92	53.82	47.57	42.42	38.11	34.74	31.85	29.38
315.0	50.09	43.52	38.53	34.74	32.43	29.33	26.39	24.07	22.23
360.0	45.41	40.42	35.95	32.69	29.86	27.44	25.28	23.39	22.39
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.13	19.34	18.03	16.45	15.82	14.93	14.09	13.40	14.14
45.0	21.45	19.82	18.40	17.03	15.93	14.93	14.03	13.35	13.09
90.0	17.87	16.14	15.61	14.56	13.40	12.98	12.25	11.56	11.20
135.0	21.81	20.34	19.03	17.82	16.87	15.87	14.93	14.19	13.35
180.0	26.07	24.07	22.34	20.71	19.24	17.98	16.93	15.77	14.72
225.0	25.02	23.34	22.18	20.87	19.45	18.03	16.87	15.98	15.03
270.0	27.23	25.28	23.39	21.81	20.29	18.87	17.66	16.61	15.51
315.0	20.66	19.34	18.13	17.14	16.40	15.61	14.93	14.40	13.82
360.0	20.13	19.34	18.03	16.45	15.82	14.93	14.09	13.40	14.14
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.24	15.40	15.19	14.77	14.03	13.40	12.93	12.56	11.30
45.0	12.40	12.19	12.04	11.72	11.51	11.20	11.04	10.57	10.25
90.0	10.78	10.35	9.88	9.57	9.25	8.73	8.25	7.83	7.36
135.0	12.67	12.09	11.56	11.04	10.51	9.93	9.51	9.04	8.62
180.0	13.82	12.98	12.40	11.46	10.83	10.35	9.72	9.04	8.57
225.0	14.19	13.46	12.83	11.93	11.09	10.35	9.67	8.94	8.25
270.0	14.56	13.82	13.14	12.46	12.04	11.30	10.62	10.04	9.51
315.0	13.25	12.88	12.46	12.14	11.93	11.56	11.14	10.72	10.14
360.0	15.24	15.40	15.19	14.77	14.03	13.40	12.93	12.56	11.30
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.88	7.62	6.94	6.15	5.73	5.31	4.84	4.52	4.15
45.0	9.20	8.36	7.57	6.68	5.99	5.47	4.99	4.63	4.15
90.0	6.83	6.41	5.94	5.62	4.94	4.78	4.26	3.89	3.47
135.0	8.20	7.67	7.31	6.83	6.36	5.89	5.41	4.94	4.52
180.0	7.99	7.52	6.99	6.62	6.20	5.73	5.26	4.89	4.47
225.0	7.67	7.25	6.78	6.52	5.83	5.62	5.15	4.63	4.31
270.0	8.83	8.25	7.73	7.31	6.83	6.25	5.83	5.47	4.99
315.0	9.25	8.62	7.94	7.15	6.57	6.10	5.62	5.10	4.78
360.0	8.88	7.62	6.94	6.15	5.73	5.31	4.84	4.52	4.15
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.78	3.36	3.10	2.79	2.52	2.21	1.94	1.79	1.73
45.0	3.68	3.31	2.84	2.47	2.16	1.94	1.68	1.42	1.37
90.0	3.10	2.73	2.42	2.16	1.89	1.68	1.42	1.26	1.31
135.0	4.05	3.63	3.21	2.79	2.42	2.10	1.84	1.47	1.16
180.0	4.05	3.68	3.26	2.84	2.42	2.21	1.79	1.52	1.26
225.0	3.84	3.47	3.21	2.79	2.42	2.16	1.84	1.52	1.31
270.0	4.63	4.21	3.73	3.36	3.00	2.63	2.31	2.10	1.84
315.0	4.36	4.05	3.68	3.21	2.94	2.68	2.37	2.10	1.94
360.0	3.78	3.36	3.10	2.79	2.52	2.21	1.94	1.79	1.73

Intensity data(cd)

C/ γ ($^{\circ}$)	90.0
0.0	1.73
45.0	1.31
90.0	1.31
135.0	1.16
180.0	1.05
225.0	1.21
270.0	1.58
315.0	1.84
360.0	1.73