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Nata

Client:

LumCAT: 2-2751-L

Luminaire: 92.70.411.00

Report No: 2024912-B010

Ballast type: AC

Test No: 2024912-C010

Voltage(V): 36.830

LampCAT: NICHIA NFCWJ130B-V3

Current(A): 0.576

Lamp flux(lm): 2826.0

Power (W): 21.170

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2652.84, Efficiency(%): 93.87% , Luminous Efficacy(lm/W): 125.31

Central intensity(cd): 13266.620, Maximum intensity(cd): 13266.620

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.2

[C90/270]Total=18.2

Field angle(10%Imax): [C0/180]Total=47.8

[C90/270]Total=47.8

Maximum s/h(1/2): C0_180=0.31 C90_270=0.31

Maximum s/h(1/4): C0_180=0.34 C90_270=0.34

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.87%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.076%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/12
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	13266.617	0.000	0	0.00%	0.00%
1.0	13175.382	12.652	12.652	0.45%	0.48%
2.0	12785.960	37.262	49.914	1.32%	1.88%
3.0	12318.114	60.041	109.955	2.12%	4.14%
4.0	11629.979	80.162	190.117	2.84%	7.17%
5.0	10809.807	96.535	286.652	3.42%	10.81%
6.0	10027.276	109.504	396.156	3.87%	14.93%
7.0	8893.654	117.442	513.598	4.16%	19.36%
8.0	7795.768	119.443	633.041	4.23%	23.86%
9.0	6724.064	117.675	750.716	4.16%	28.30%
10.0	5839.293	113.694	864.41	4.02%	32.58%
11.0	5042.616	108.733	973.143	3.85%	36.68%
12.0	4377.917	102.980	1076.123	3.64%	40.56%
13.0	3881.839	98.022	1174.145	3.47%	44.26%
14.0	3434.440	93.648	1267.793	3.31%	47.79%
15.0	3066.707	89.251	1357.043	3.16%	51.15%
16.0	2823.368	86.306	1443.35	3.05%	54.41%
17.0	2583.795	84.204	1527.554	2.98%	57.58%
18.0	2315.102	80.772	1608.326	2.86%	60.63%
19.0	2083.203	76.522	1684.847	2.71%	63.51%
20.0	1852.013	72.025	1756.873	2.55%	66.23%
21.0	1694.628	68.103	1824.975	2.41%	68.79%
22.0	1559.996	65.403	1890.378	2.31%	71.26%
23.0	1425.101	62.635	1953.014	2.22%	73.62%
24.0	1316.566	59.943	2012.956	2.12%	75.88%
25.0	1205.521	57.347	2070.303	2.03%	78.04%
26.0	1128.786	55.102	2125.405	1.95%	80.12%
27.0	1070.356	53.803	2179.207	1.90%	82.15%
28.0	990.146	52.168	2231.375	1.85%	84.11%
29.0	908.142	49.665	2281.039	1.76%	85.98%
30.0	813.240	46.477	2327.516	1.64%	87.74%
31.0	716.197	42.562	2370.078	1.51%	89.34%
32.0	618.726	38.244	2408.322	1.35%	90.78%
33.0	528.102	33.786	2442.108	1.20%	92.06%
34.0	435.441	29.160	2471.268	1.03%	93.16%
35.0	344.435	24.220	2495.488	0.86%	94.07%
36.0	287.721	20.128	2515.616	0.71%	94.83%
37.0	214.278	16.372	2531.988	0.58%	95.44%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	171.373	12.873	2544.861	0.46%	95.93%
39.0	116.597	9.829	2554.69	0.35%	96.30%
40.0	87.825	7.130	2561.82	0.25%	96.57%
41.0	74.185	5.769	2567.589	0.20%	96.79%
42.0	66.643	5.117	2572.705	0.18%	96.98%
43.0	60.677	4.716	2577.422	0.17%	97.16%
44.0	55.585	4.388	2581.81	0.16%	97.32%
45.0	50.828	4.090	2585.899	0.14%	97.48%
46.0	46.590	3.810	2589.709	0.13%	97.62%
47.0	43.180	3.570	2593.279	0.13%	97.75%
48.0	40.013	3.363	2596.643	0.12%	97.88%
49.0	37.359	3.177	2599.82	0.11%	98.00%
50.0	34.928	3.014	2602.834	0.11%	98.12%
51.0	32.917	2.870	2605.704	0.10%	98.22%
52.0	31.222	2.752	2608.456	0.10%	98.33%
53.0	29.869	2.657	2611.114	0.09%	98.43%
54.0	28.745	2.583	2613.697	0.09%	98.52%
55.0	27.865	2.527	2616.224	0.09%	98.62%
56.0	27.181	2.487	2618.712	0.09%	98.71%
57.0	26.616	2.460	2621.171	0.09%	98.81%
58.0	25.933	2.430	2623.601	0.09%	98.90%
59.0	25.138	2.388	2625.989	0.08%	98.99%
60.0	24.152	2.329	2628.318	0.08%	99.08%
61.0	22.891	2.245	2630.563	0.08%	99.16%
62.0	21.386	2.134	2632.696	0.08%	99.24%
63.0	19.606	1.994	2634.69	0.07%	99.32%
64.0	17.569	1.824	2636.514	0.06%	99.38%
65.0	15.401	1.632	2638.146	0.06%	99.45%
66.0	13.482	1.441	2639.587	0.05%	99.50%
67.0	11.781	1.270	2640.857	0.04%	99.55%
68.0	10.407	1.124	2641.981	0.04%	99.59%
69.0	9.350	1.008	2642.989	0.04%	99.63%
70.0	8.581	0.921	2643.91	0.03%	99.66%
71.0	7.937	0.854	2644.764	0.03%	99.70%
72.0	7.398	0.797	2645.561	0.03%	99.73%
73.0	6.853	0.745	2646.306	0.03%	99.75%
74.0	6.347	0.694	2647	0.02%	99.78%
75.0	5.907	0.647	2647.648	0.02%	99.80%

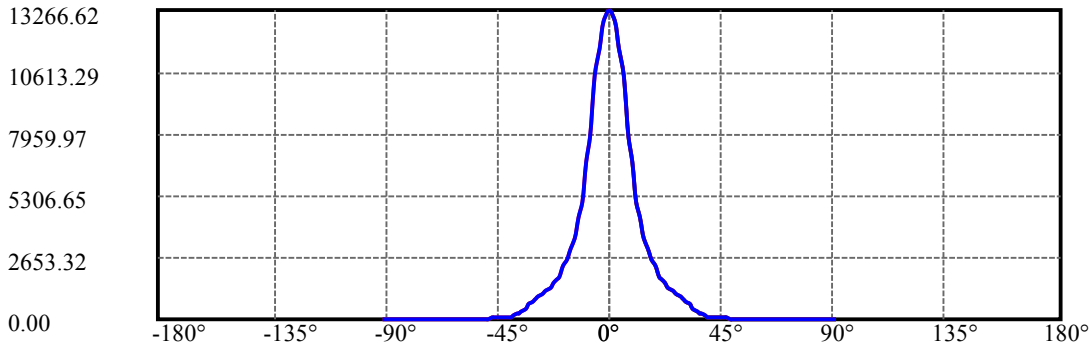
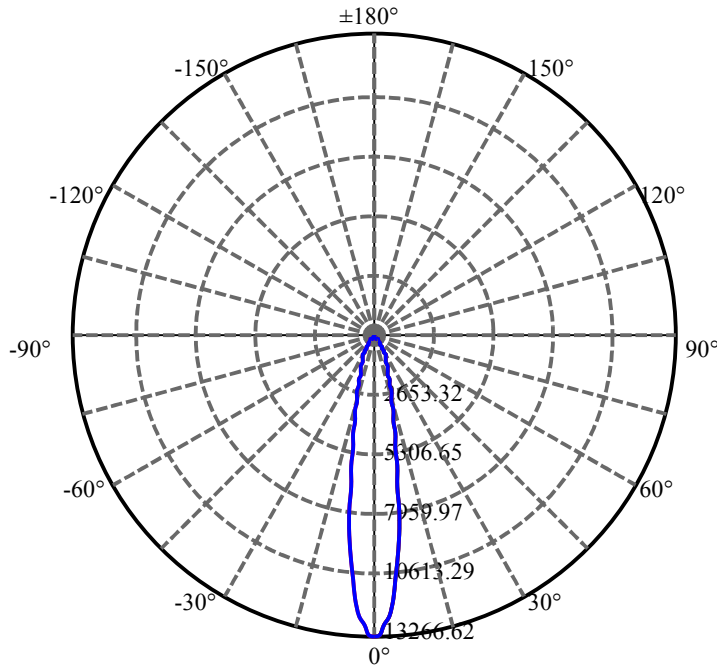
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.434	0.602	2648.25	0.02%	99.83%
77.0	5.053	0.559	2648.809	0.02%	99.85%
78.0	4.704	0.522	2649.331	0.02%	99.87%
79.0	4.244	0.481	2649.812	0.02%	99.89%
80.0	3.929	0.441	2650.252	0.02%	99.90%
81.0	3.568	0.405	2650.658	0.01%	99.92%
82.0	3.187	0.366	2651.024	0.01%	99.93%
83.0	2.858	0.329	2651.353	0.01%	99.94%
84.0	2.543	0.294	2651.647	0.01%	99.96%
85.0	2.260	0.262	2651.909	0.01%	99.97%
86.0	2.011	0.233	2652.142	0.01%	99.97%
87.0	1.774	0.207	2652.35	0.01%	99.98%
88.0	1.564	0.183	2652.532	0.01%	99.99%
89.0	1.380	0.161	2652.694	0.01%	99.99%
90.0	1.222	0.143	2652.836	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2327.52	82.36%	87.74%
0-40	2561.82	90.65%	96.57%
0-60	2628.32	93.00%	99.08%
0-90	2652.69	93.87%	99.99%
0-120	2652.69	93.87%	99.99%
0-180	2652.84	93.87%	100.00%
60-90	24.38	0.86%	0.92%
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%
0-25.94	2122.27	75.10%	80.00%

ZONAL LUMEN SUMMARY

0-10	864.41
10-20	892.46
20-30	570.64
30-40	234.30
40-50	41.01
50-60	25.48
60-70	15.59
70-80	6.34
80-90	2.44
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



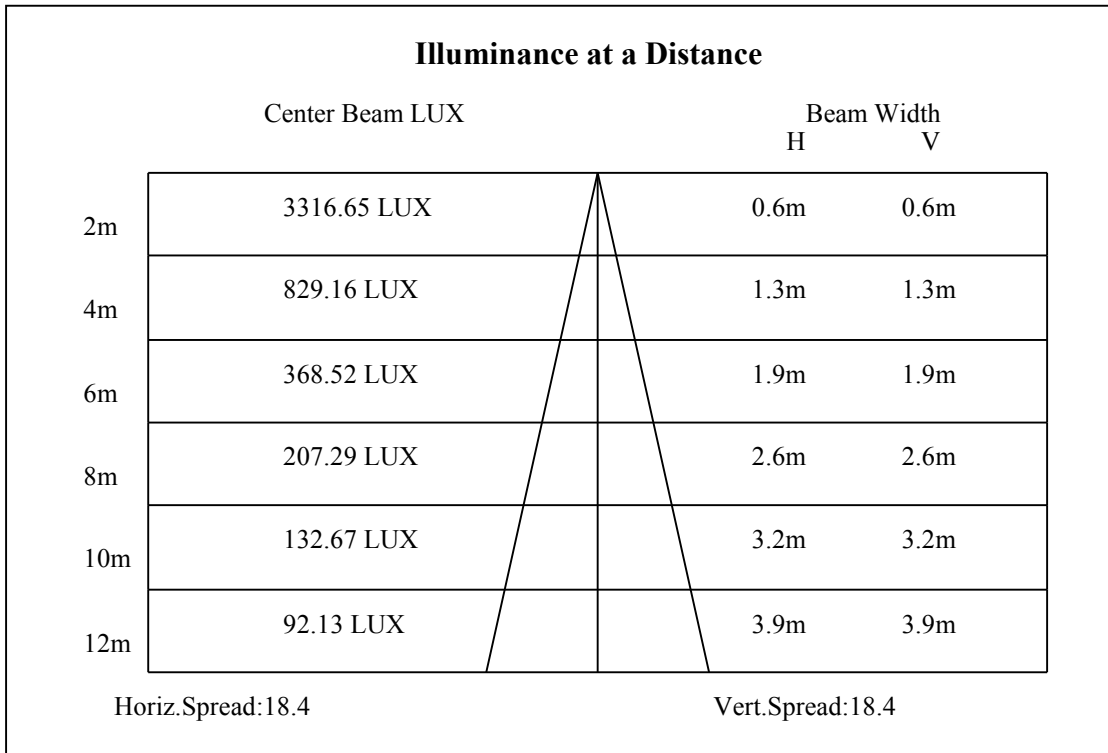
C0(Max): —————

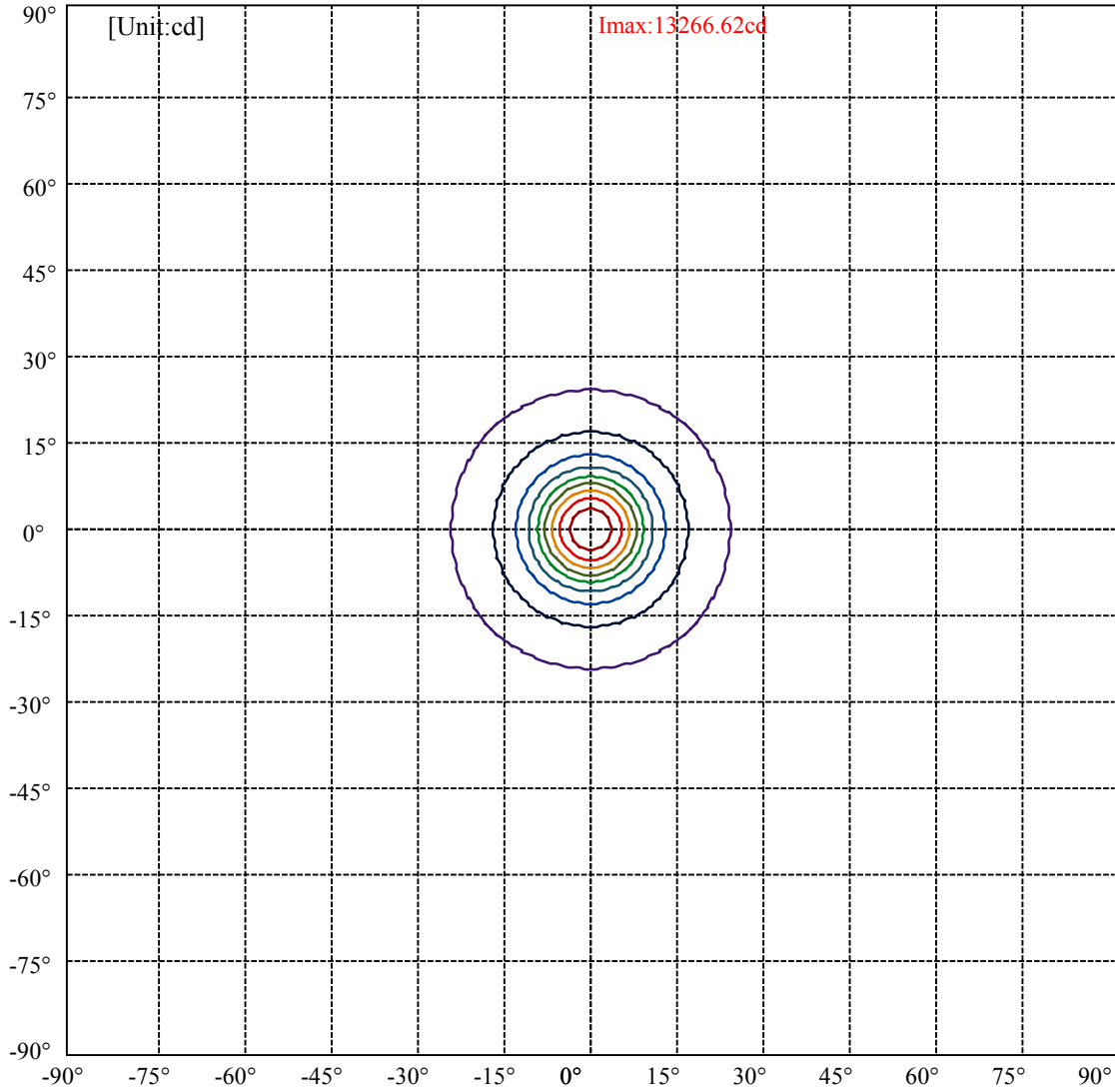
C0/C180: —————

C90/C270: —————

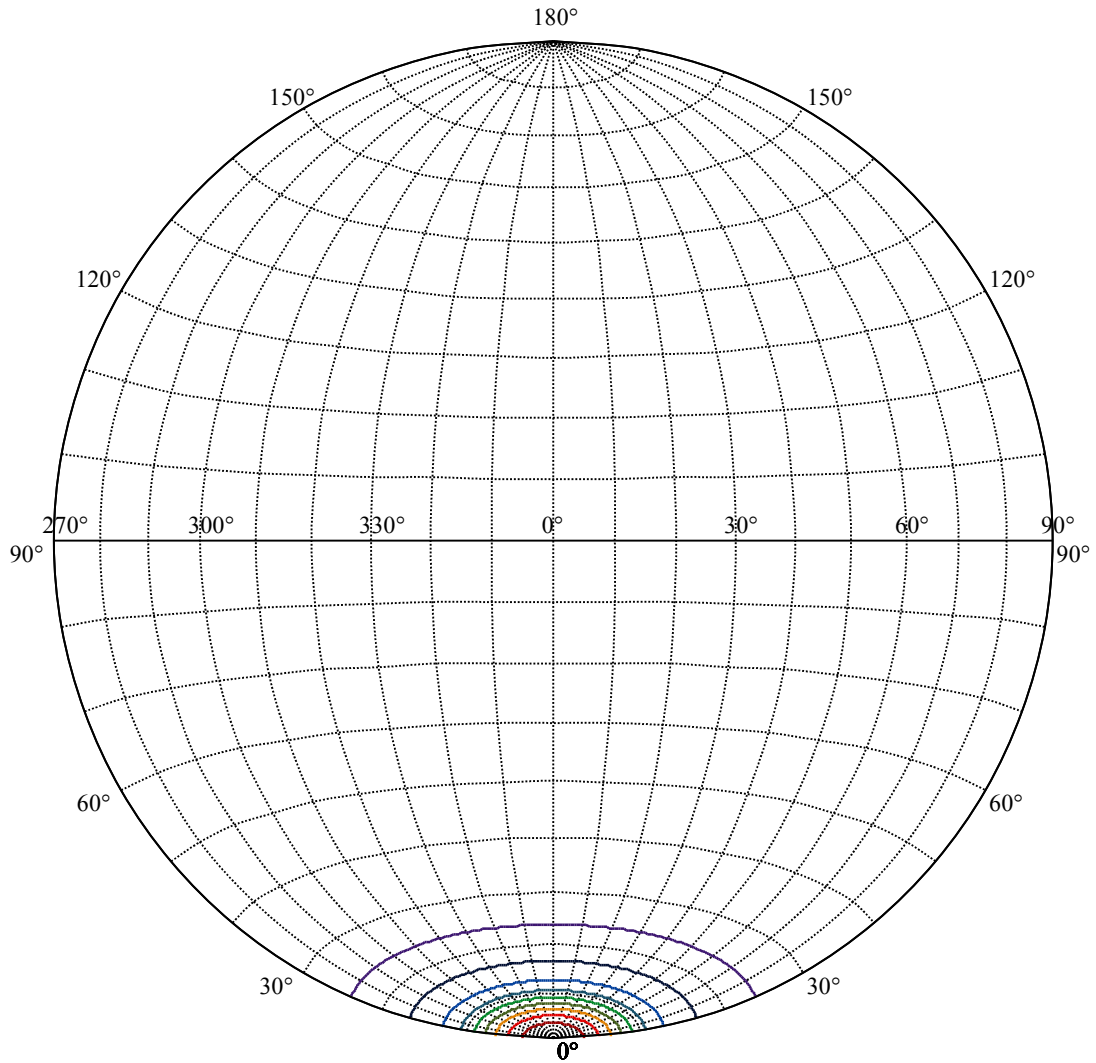
Field angle(10%Imax):C0/180Left:23.9 Right:23.9
:C90/270Left:23.9 Right:23.9

Beam Angle(50%Imax):C0/180Left:9.1 Right:9.1
:C90/270Left:9.1 Right:9.1





(10%Imax) 1326.66	—
(20%Imax) 2653.32	—
(30%Imax) 3979.98	—
(40%Imax) 5306.65	—
(50%Imax) 6633.31	—
(60%Imax) 7959.97	—
(70%Imax) 9286.63	—
(80%Imax) 10613.3	—
(90%Imax) 11940	—



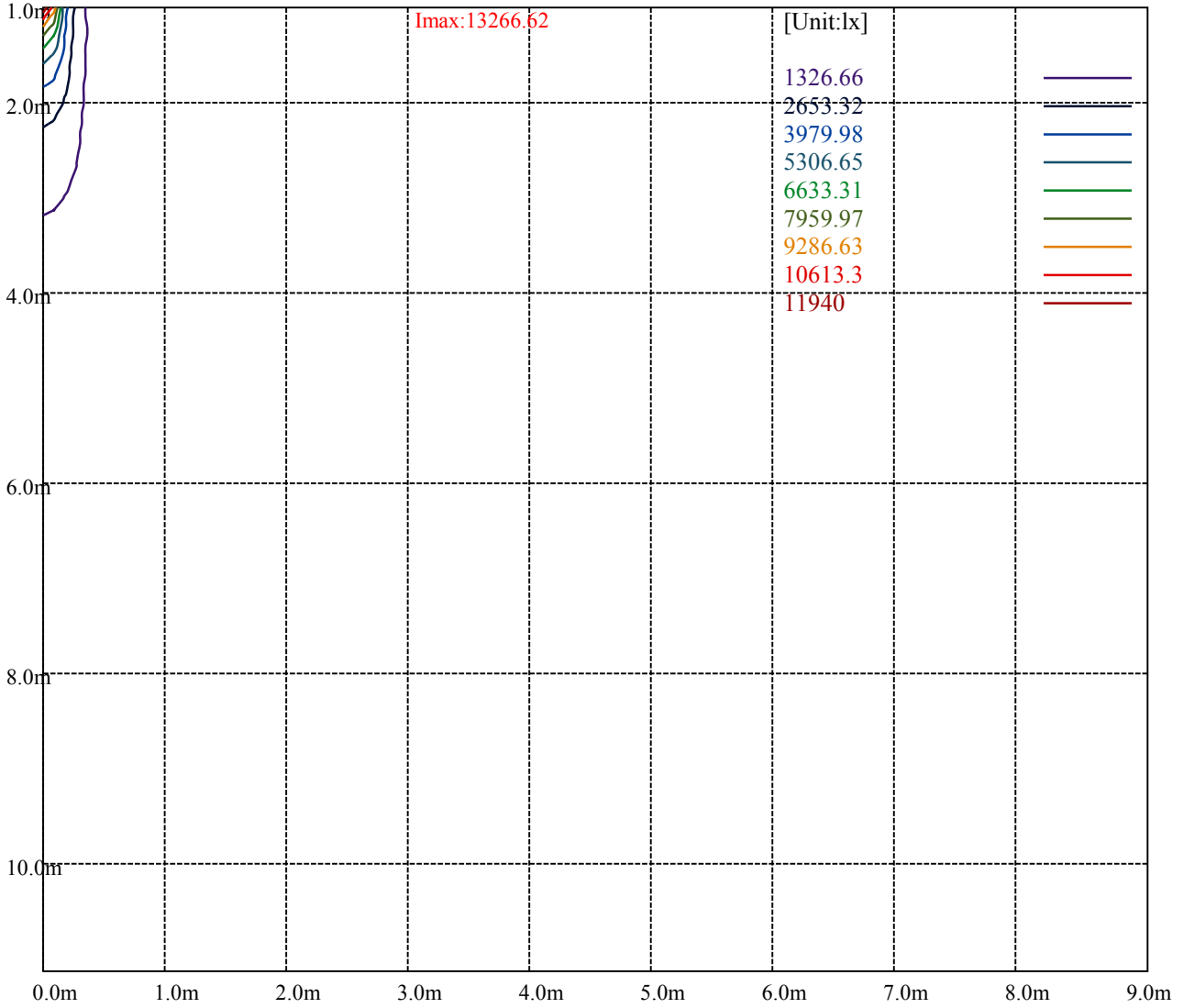
House

[Unit:cd]

Road

Imax:13266.62

(10%Imax) 1326.66	—
(20%Imax) 2653.32	—
(30%Imax) 3979.98	—
(40%Imax) 5306.65	—
(50%Imax) 6633.31	—
(60%Imax) 7959.97	—
(70%Imax) 9286.63	—
(80%Imax) 10613.3	—
(90%Imax) 11940	—



Luminance Table

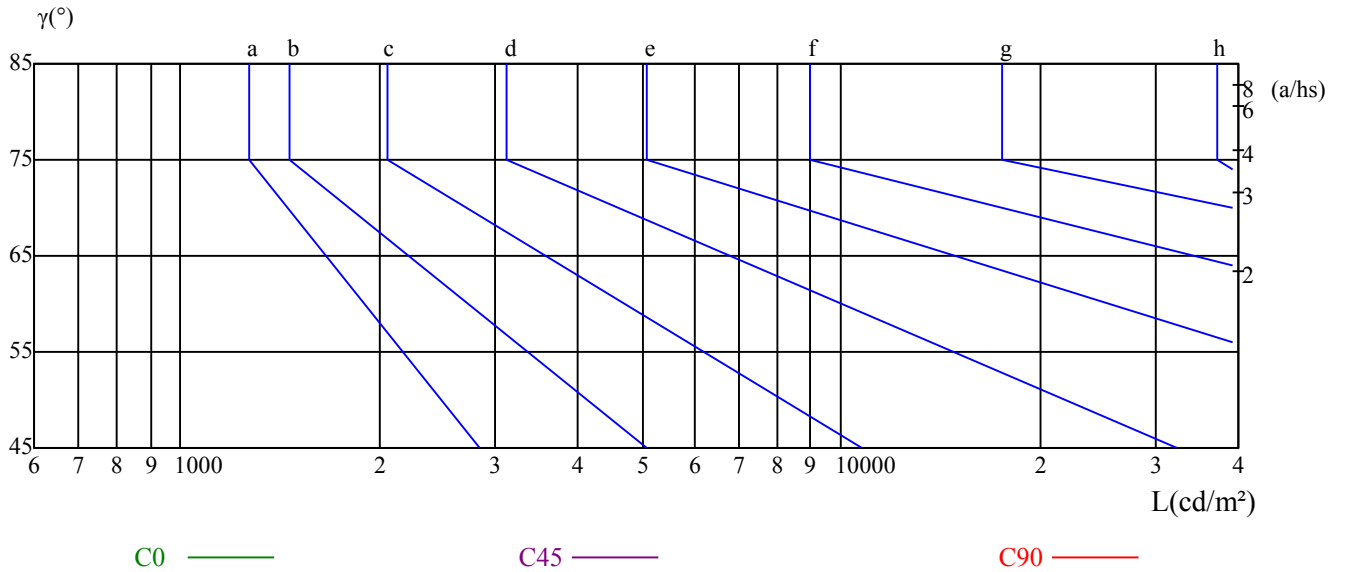
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

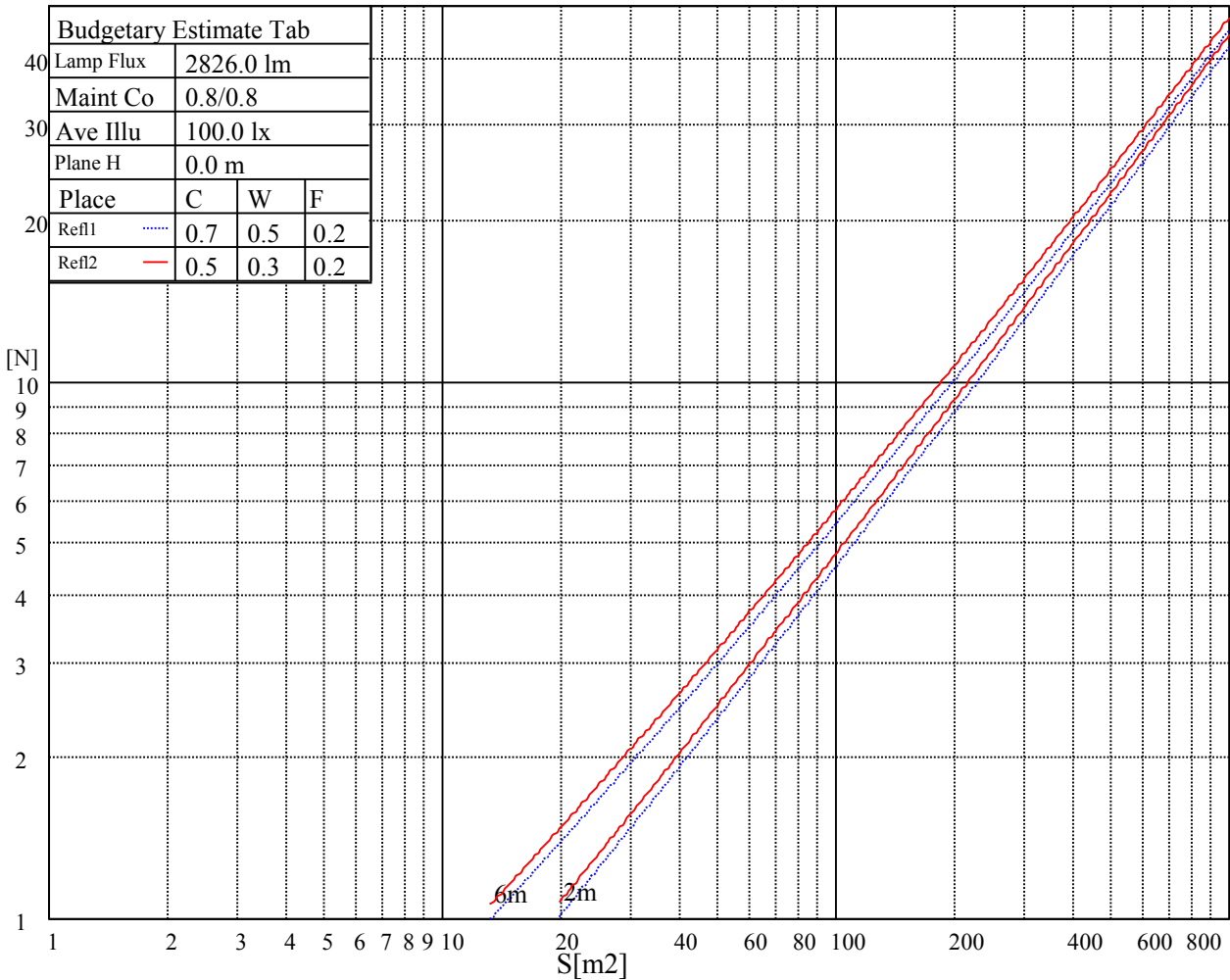
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

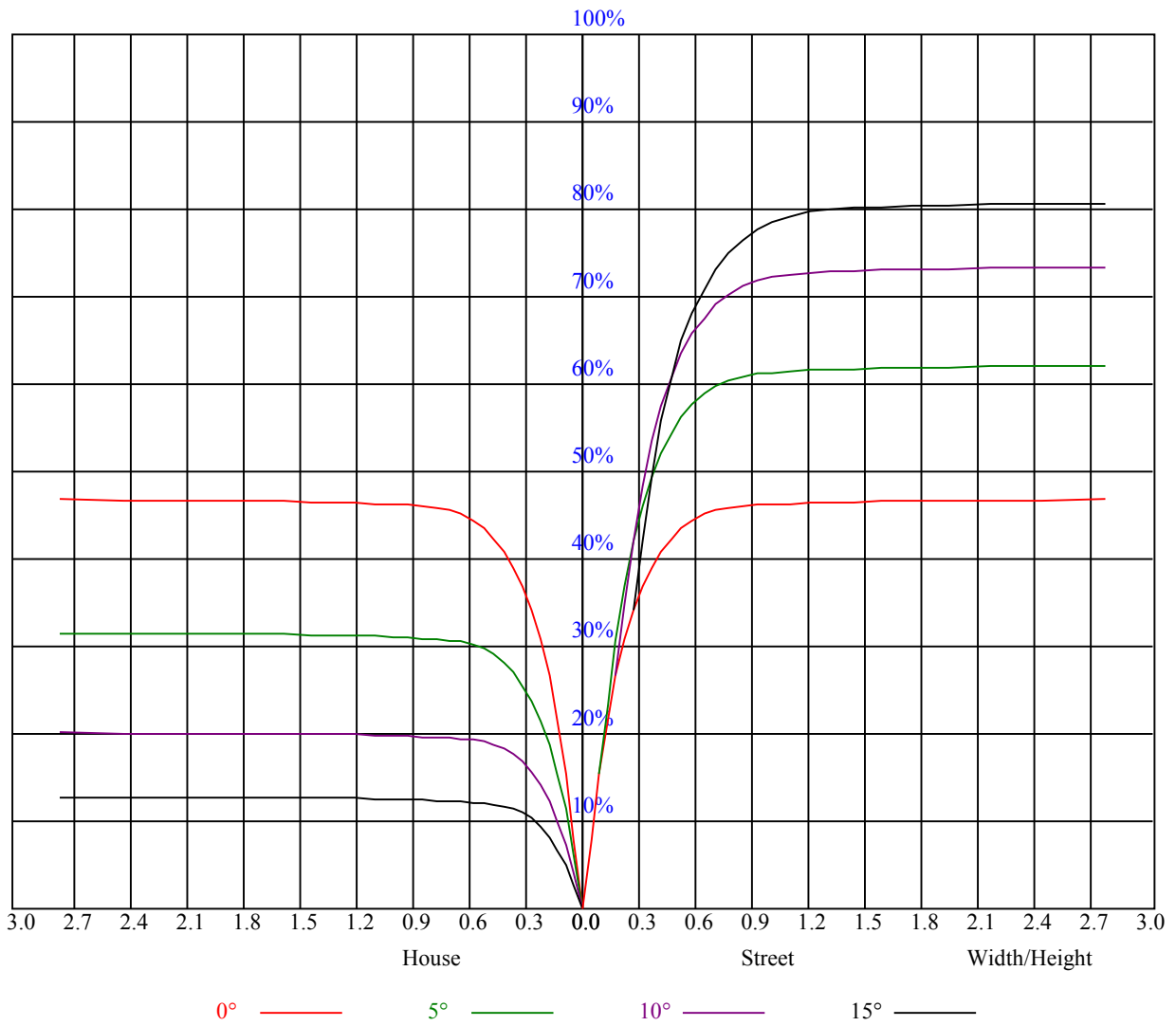


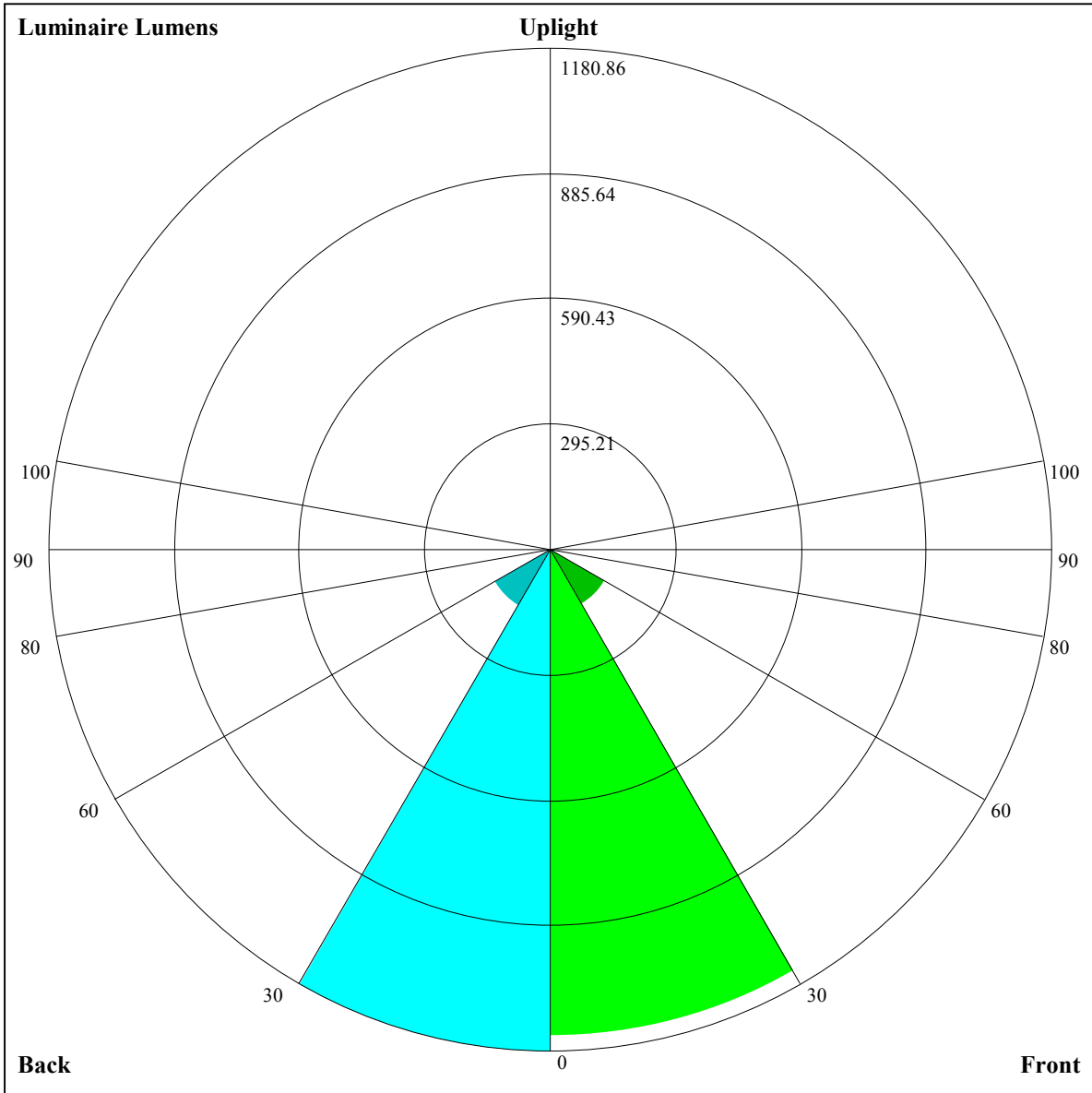
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.02	1.03	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
2	1.00	0.97	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.91	0.89	0.90	0.89	0.87	0.86
3	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.82
4	0.90	0.86	0.83	0.89	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.77	0.76
6	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
7	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
8	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
9	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
10	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64





Luminaire Lumens:

FL=1143.92,FM=147.99,FH=10.95,FVH=1.27

BL=1180.86,BM=153.55,BH=11.02,BVH=1.31

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	13191.40	12873.82	12366.80	10735.68	10735.68	9875.44	8748.87	7645.69	6608.79
45.0	13391.98	13169.11	12767.96	12182.94	11408.48	10444.59	9558.70	8176.94	7296.62
90.0	13040.97	12539.52	10922.91	10922.91	10063.20	8862.51	7684.11	6623.82	5692.26
135.0	13442.12	13274.97	12929.53	12366.80	11581.20	10617.31	9497.41	8321.80	7196.33
180.0	13191.40	13336.26	13297.26	13057.68	12634.24	11982.36	11118.76	10071.29	8890.11
225.0	13391.98	13430.98	13280.55	12974.11	12338.94	11030.45	10574.16	9337.78	8068.03
270.0	13040.97	13369.69	13508.98	13458.84	13252.69	12851.53	12221.94	11324.91	10182.72
315.0	13442.12	13408.69	13213.69	12845.96	11025.40	10814.26	10814.26	9647.01	8431.29
360.0	13191.40	12873.82	12366.80	10735.68	10735.68	9875.44	8748.87	7645.69	6608.79
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5704.50	4960.17	4367.89	3874.80	3453.04	3089.20	2761.58	2487.47	2245.68
45.0	6271.44	5418.98	4716.96	4148.65	3680.64	3273.91	2928.47	2867.18	2744.60
90.0	4920.59	4313.86	3826.87	3420.14	3058.56	2753.22	2476.90	2237.85	2028.39
135.0	6176.72	5335.41	4644.53	4198.80	3730.78	3251.62	2967.47	2906.18	2778.03
180.0	7692.21	6600.17	5652.99	4889.68	4271.23	3769.78	3346.34	3117.90	2850.46
225.0	6856.20	6218.25	5301.72	4328.31	3999.59	3533.83	3144.34	2803.95	2509.75
270.0	8890.11	7619.78	6444.16	5474.70	4711.39	4120.79	3624.92	3223.76	2872.75
315.0	7280.75	6247.74	5385.82	4688.26	4149.49	3683.16	3283.63	2942.66	2640.69
360.0	5704.50	4960.17	4367.89	3874.80	3453.04	3089.20	2761.58	2487.47	2245.68
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2113.07	1845.05	1686.26	1597.69	1468.44	1318.00	1265.07	1086.36	1086.36
45.0	2150.96	1952.01	1846.15	1632.22	1552.54	1430.54	1322.42	1229.96	1148.60
90.0	1850.62	1754.80	1550.86	1479.00	1366.99	1231.07	1082.68	1082.68	1036.37
135.0	2164.89	1959.27	1784.34	1632.22	1500.71	1379.29	1280.63	1192.64	1112.96
180.0	2850.46	2218.35	2008.31	1823.34	1670.12	1530.25	1408.25	1296.82	1202.63
225.0	2251.25	2027.23	1832.80	1665.07	1520.79	1392.07	1280.11	1082.37	1082.37
270.0	2750.18	2750.18	2147.02	1942.03	1768.73	1620.50	1491.25	1376.51	1275.06
315.0	2389.39	2158.74	1960.37	1785.44	1631.65	1499.08	1402.10	1296.82	1085.94
360.0	2113.07	1845.05	1686.26	1597.69	1468.44	1318.00	1265.07	1086.36	1086.36
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1039.27	945.65	848.73	745.02	643.47	542.50	447.46	357.58	276.79
45.0	1076.16	998.74	911.28	812.62	710.70	609.25	509.54	415.40	330.15
90.0	954.59	854.19	754.96	650.41	553.17	459.55	371.20	288.52	214.77
135.0	1070.59	955.85	898.45	800.95	698.40	600.89	506.18	416.51	330.67
180.0	1119.06	1047.78	975.88	889.52	794.80	697.29	598.69	541.29	411.46
225.0	1035.74	966.99	893.88	810.93	724.47	636.16	546.65	452.56	364.94
270.0	1181.50	1101.24	1028.81	944.13	853.30	756.37	696.19	556.90	460.50
315.0	1085.94	1050.72	953.17	852.35	751.28	647.78	548.91	454.77	366.20
360.0	1039.27	945.65	848.73	745.02	643.47	542.50	447.46	357.58	276.79
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	205.99	148.65	115.74	94.67	84.94	76.95	70.64	64.65	59.13
45.0	297.82	216.08	139.50	90.04	80.32	71.75	64.65	59.08	53.93
90.0	164.31	106.07	82.94	70.12	63.55	57.45	52.46	48.20	44.47
135.0	298.40	217.35	122.58	87.41	71.91	65.02	58.76	53.98	51.20
180.0	359.69	311.17	311.17	146.39	100.76	76.06	67.23	61.18	56.08
225.0	283.42	210.51	151.27	105.70	78.84	66.96	61.55	55.61	50.46
270.0	405.89	288.36	288.36	219.45	125.99	93.46	77.69	69.59	62.86
315.0	286.26	216.03	159.42	119.00	96.29	85.83	80.16	73.11	66.54
360.0	205.99	148.65	115.74	94.67	84.94	76.95	70.64	64.65	59.13

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	54.24	49.88	45.99	42.68	39.68	37.32	35.27	33.48	31.91
45.0	49.46	45.36	41.79	38.53	35.85	33.85	32.06	30.85	29.65
90.0	40.95	37.95	35.27	32.96	31.06	29.33	28.12	27.07	26.49
135.0	47.25	42.58	40.68	37.95	35.43	33.27	31.48	30.07	29.07
180.0	50.99	46.94	43.57	40.53	38.06	35.48	33.64	31.59	30.33
225.0	46.31	42.73	39.84	37.06	35.43	33.01	30.96	29.38	27.75
270.0	56.93	51.98	47.73	43.94	40.47	37.53	34.90	32.69	31.06
315.0	60.50	55.30	50.57	46.47	42.89	39.63	36.90	34.64	32.69
360.0	54.24	49.88	45.99	42.68	39.68	37.32	35.27	33.48	31.91
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.75	29.80	29.01	28.54	27.17	25.76	24.76	22.18	20.60
45.0	28.54	28.02	27.70	27.17	26.75	26.44	24.39	23.55	21.97
90.0	26.28	26.02	25.70	25.49	24.28	23.13	22.13	20.60	18.19
135.0	28.07	27.28	26.81	26.23	25.55	24.76	23.44	21.76	20.39
180.0	29.12	28.17	27.39	26.86	26.39	25.55	24.81	24.02	22.29
225.0	26.81	25.76	25.02	24.49	24.28	23.76	23.34	22.39	20.97
270.0	29.28	27.96	26.86	25.97	25.49	25.07	24.91	24.39	23.71
315.0	31.12	29.91	28.96	28.17	27.54	26.65	25.44	24.23	22.97
360.0	30.75	29.80	29.01	28.54	27.17	25.76	24.76	22.18	20.60
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.29	15.82	13.35	11.67	10.51	9.57	8.78	8.04	7.52
45.0	19.87	17.50	15.19	12.62	10.88	9.72	8.88	8.20	7.52
90.0	16.03	13.82	11.46	10.14	9.04	8.30	7.67	7.10	6.73
135.0	18.13	16.03	13.98	12.67	10.67	10.09	9.25	8.62	8.04
180.0	20.66	18.98	16.61	14.61	12.56	10.78	9.83	8.99	8.36
225.0	19.61	17.61	15.66	13.82	11.98	10.25	8.99	8.41	7.73
270.0	22.81	21.55	19.82	17.77	15.61	13.25	11.30	10.04	9.04
315.0	21.45	19.24	17.14	14.56	12.98	11.30	10.09	9.25	8.57
360.0	18.29	15.82	13.35	11.67	10.51	9.57	8.78	8.04	7.52
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.94	6.41	5.83	5.41	4.99	4.57	4.31	3.73	3.57
45.0	7.04	6.68	6.15	5.73	5.26	4.89	4.52	4.05	3.73
90.0	6.25	5.78	5.26	4.99	4.68	4.21	4.05	3.42	3.10
135.0	7.57	6.99	6.57	5.99	5.62	5.26	4.84	4.36	3.94
180.0	7.99	7.36	6.83	6.57	5.94	5.68	5.31	4.99	4.57
225.0	7.15	6.62	6.10	5.68	5.31	4.94	4.63	4.21	3.94
270.0	8.36	7.67	7.36	6.78	6.10	5.83	5.31	4.89	4.63
315.0	7.88	7.31	6.68	6.10	5.57	5.05	4.68	4.31	3.94
360.0	6.94	6.41	5.83	5.41	4.99	4.57	4.31	3.73	3.57
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.15	2.84	2.52	2.31	2.16	2.00	1.79	1.73	1.68
45.0	3.26	2.94	2.63	2.26	1.94	1.73	1.42	1.16	0.95
90.0	2.79	2.42	2.10	1.89	1.73	1.42	1.26	1.05	0.89
135.0	3.63	3.26	2.84	2.47	2.26	1.89	1.73	1.42	1.26
180.0	4.15	3.68	3.26	3.00	2.47	2.26	1.94	1.73	1.47
225.0	3.63	3.26	2.94	2.52	2.26	2.05	1.73	1.47	1.26
270.0	4.26	3.78	3.47	3.10	2.79	2.42	2.16	1.94	1.73
315.0	3.68	3.31	3.10	2.79	2.47	2.31	2.16	2.00	1.79
360.0	3.15	2.84	2.52	2.31	2.16	2.00	1.79	1.73	1.68

Intensity data(cd)

C/ γ (°)	90.0
0.0	1.58
45.0	1.05
90.0	0.84
135.0	0.84
180.0	1.21
225.0	1.16
270.0	1.42
315.0	1.68
360.0	1.58