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NT

Client:

LumCAT: 2-2682-L

Luminaire: 92.70.411.00

Report No: 2024418-B010

Ballast type: AC

Test No: 2024418-C010

Voltage(V): 33.640

LampCAT: NICHIA NFCWJ120B-V3

Current(A): 0.576

Lamp flux(lm): 2726.0

Power (W): 19.376

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2356.93, Efficiency(%): 86.46% , Luminous Efficacy(lm/W): 121.64

Central intensity(cd): 10430.380, Maximum intensity(cd): 10430.380

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=53.0

[C90/270]Total=53.0

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

Maximum s/h(1/4): C0_180=0.37 C90_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.46%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.023%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/18
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	10430.377	0.000	0	0.00%	0.00%
1.0	10336.449	9.937	9.937	0.36%	0.42%
2.0	10062.051	29.278	39.214	1.07%	1.66%
3.0	9606.381	47.040	86.255	1.73%	3.66%
4.0	9033.811	62.395	148.65	2.29%	6.31%
5.0	8350.634	74.787	223.436	2.74%	9.48%
6.0	7532.928	83.472	306.909	3.06%	13.02%
7.0	6744.191	88.618	395.527	3.25%	16.78%
8.0	5939.288	90.773	486.3	3.33%	20.63%
9.0	5279.666	90.924	577.223	3.34%	24.49%
10.0	4719.679	90.490	667.714	3.32%	28.33%
11.0	4229.041	89.416	757.13	3.28%	32.12%
12.0	3806.801	87.843	844.973	3.22%	35.85%
13.0	3455.154	86.181	931.154	3.16%	39.51%
14.0	3130.427	84.295	1015.449	3.09%	43.08%
15.0	2843.374	82.011	1097.46	3.01%	46.56%
16.0	2597.945	79.731	1177.191	2.92%	49.95%
17.0	2357.345	77.167	1254.358	2.83%	53.22%
18.0	2156.466	74.423	1328.781	2.73%	56.38%
19.0	1962.464	71.661	1400.442	2.63%	59.42%
20.0	1797.358	68.815	1469.257	2.52%	62.34%
21.0	1646.370	66.127	1535.384	2.43%	65.14%
22.0	1497.722	63.182	1598.565	2.32%	67.82%
23.0	1294.788	58.594	1657.16	2.15%	70.31%
24.0	1233.413	55.276	1712.435	2.03%	72.66%
25.0	1158.014	54.376	1766.811	1.99%	74.96%
26.0	1074.020	52.687	1819.499	1.93%	77.20%
27.0	1005.219	50.869	1870.368	1.87%	79.36%
28.0	933.551	49.086	1919.453	1.80%	81.44%
29.0	855.928	46.818	1966.271	1.72%	83.43%
30.0	767.530	43.833	2010.104	1.61%	85.28%
31.0	677.157	40.204	2050.308	1.47%	86.99%
32.0	586.915	36.214	2086.522	1.33%	88.53%
33.0	499.087	31.994	2118.516	1.17%	89.88%
34.0	412.035	27.573	2146.089	1.01%	91.05%
35.0	330.133	23.049	2169.138	0.85%	92.03%
36.0	270.930	19.138	2188.276	0.70%	92.84%
37.0	233.914	16.465	2204.741	0.60%	93.54%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	149.320	12.792	2217.533	0.47%	94.09%
39.0	95.223	8.347	2225.88	0.31%	94.44%
40.0	75.977	5.971	2231.851	0.22%	94.69%
41.0	68.413	5.142	2236.992	0.19%	94.91%
42.0	63.738	4.801	2241.794	0.18%	95.12%
43.0	59.942	4.581	2246.375	0.17%	95.31%
44.0	56.043	4.378	2250.753	0.16%	95.50%
45.0	53.043	4.192	2254.945	0.15%	95.67%
46.0	50.783	4.060	2259.006	0.15%	95.85%
47.0	48.727	3.958	2262.963	0.15%	96.01%
48.0	46.730	3.859	2266.822	0.14%	96.18%
49.0	45.311	3.780	2270.602	0.14%	96.34%
50.0	43.870	3.718	2274.32	0.14%	96.50%
51.0	42.926	3.672	2277.992	0.13%	96.65%
52.0	42.414	3.662	2281.654	0.13%	96.81%
53.0	41.814	3.664	2285.318	0.13%	96.96%
54.0	41.251	3.661	2288.98	0.13%	97.12%
55.0	41.075	3.675	2292.654	0.13%	97.27%
56.0	40.637	3.692	2296.347	0.14%	97.43%
57.0	39.788	3.677	2300.024	0.13%	97.59%
58.0	38.186	3.606	2303.63	0.13%	97.74%
59.0	35.838	3.461	2307.09	0.13%	97.89%
60.0	32.955	3.250	2310.34	0.12%	98.02%
61.0	30.000	3.004	2313.345	0.11%	98.15%
62.0	27.498	2.771	2316.115	0.10%	98.27%
63.0	24.360	2.522	2318.638	0.09%	98.38%
64.0	21.222	2.237	2320.874	0.08%	98.47%
65.0	18.961	1.989	2322.863	0.07%	98.55%
66.0	17.323	1.810	2324.673	0.07%	98.63%
67.0	16.277	1.689	2326.363	0.06%	98.70%
68.0	15.684	1.619	2327.982	0.06%	98.77%
69.0	15.179	1.574	2329.556	0.06%	98.84%
70.0	14.762	1.538	2331.094	0.06%	98.90%
71.0	14.397	1.507	2332.601	0.06%	98.97%
72.0	14.053	1.479	2334.08	0.05%	99.03%
73.0	13.782	1.456	2335.536	0.05%	99.09%
74.0	13.541	1.436	2336.972	0.05%	99.15%
75.0	13.285	1.417	2338.39	0.05%	99.21%

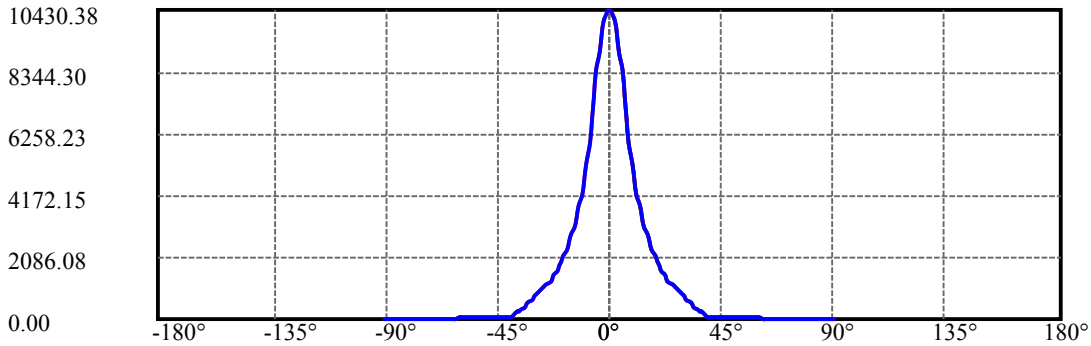
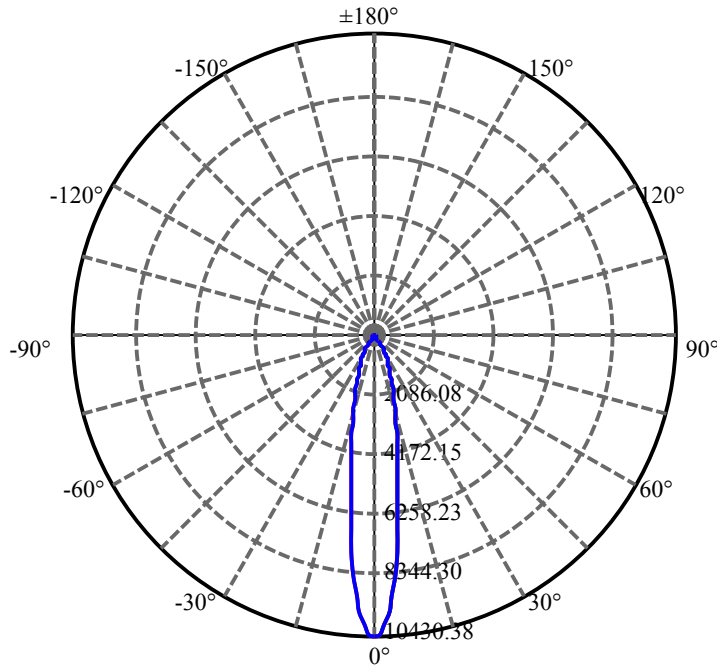
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.065	1.399	2339.788	0.05%	99.27%
77.0	12.831	1.381	2341.169	0.05%	99.33%
78.0	12.604	1.362	2342.531	0.05%	99.39%
79.0	12.334	1.340	2343.871	0.05%	99.45%
80.0	12.041	1.314	2345.185	0.05%	99.50%
81.0	11.748	1.286	2346.471	0.05%	99.56%
82.0	11.448	1.258	2347.729	0.05%	99.61%
83.0	11.163	1.229	2348.958	0.05%	99.66%
84.0	10.914	1.203	2350.161	0.04%	99.71%
85.0	10.673	1.178	2351.339	0.04%	99.76%
86.0	10.461	1.155	2352.494	0.04%	99.81%
87.0	10.285	1.135	2353.63	0.04%	99.86%
88.0	10.088	1.116	2354.746	0.04%	99.91%
89.0	9.912	1.096	2355.842	0.04%	99.95%
90.0	9.876	1.085	2356.927	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2010.10	73.74%	85.28%
0-40	2231.85	81.87%	94.69%
0-60	2310.34	84.75%	98.02%
0-90	2355.84	86.42%	99.95%
0-120	2355.84	86.42%	99.95%
0-180	2356.93	86.46%	100.00%
60-90	45.50	1.67%	1.93%
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%
0-27.31	1885.54	69.17%	80.00%

ZONAL LUMEN SUMMARY

0-10	667.71
10-20	801.54
20-30	540.85
30-40	221.75
40-50	42.47
50-60	36.02
60-70	20.75
70-80	14.09
80-90	10.66
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



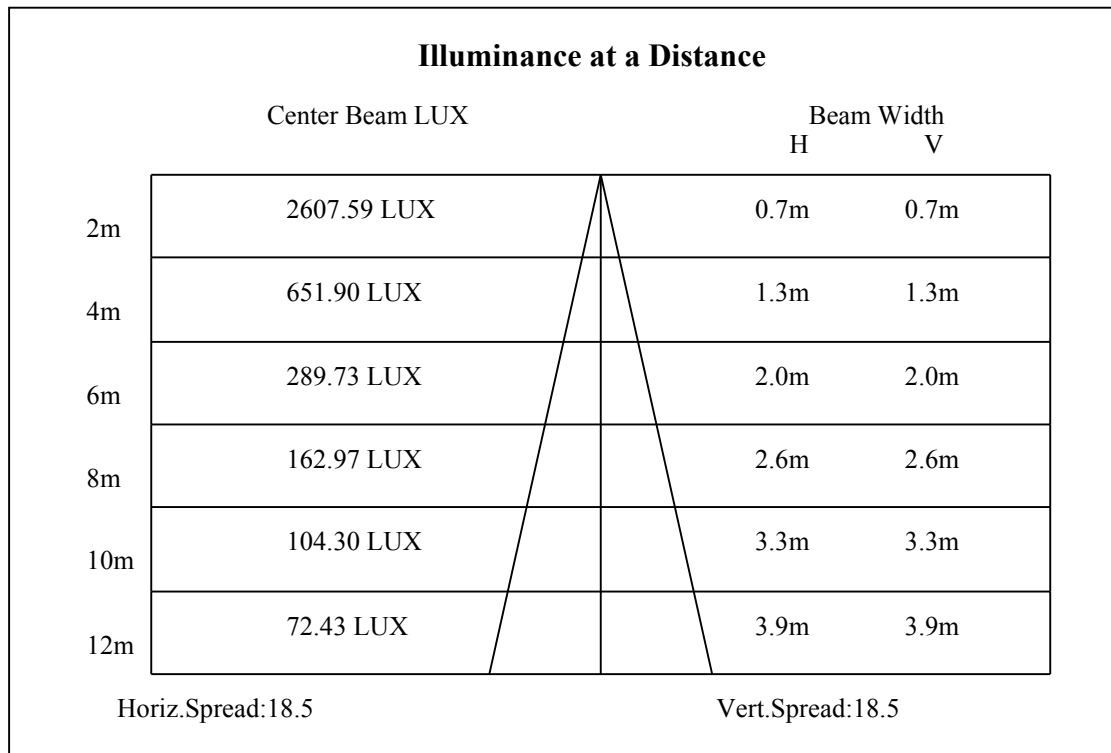
C0(Max): —————

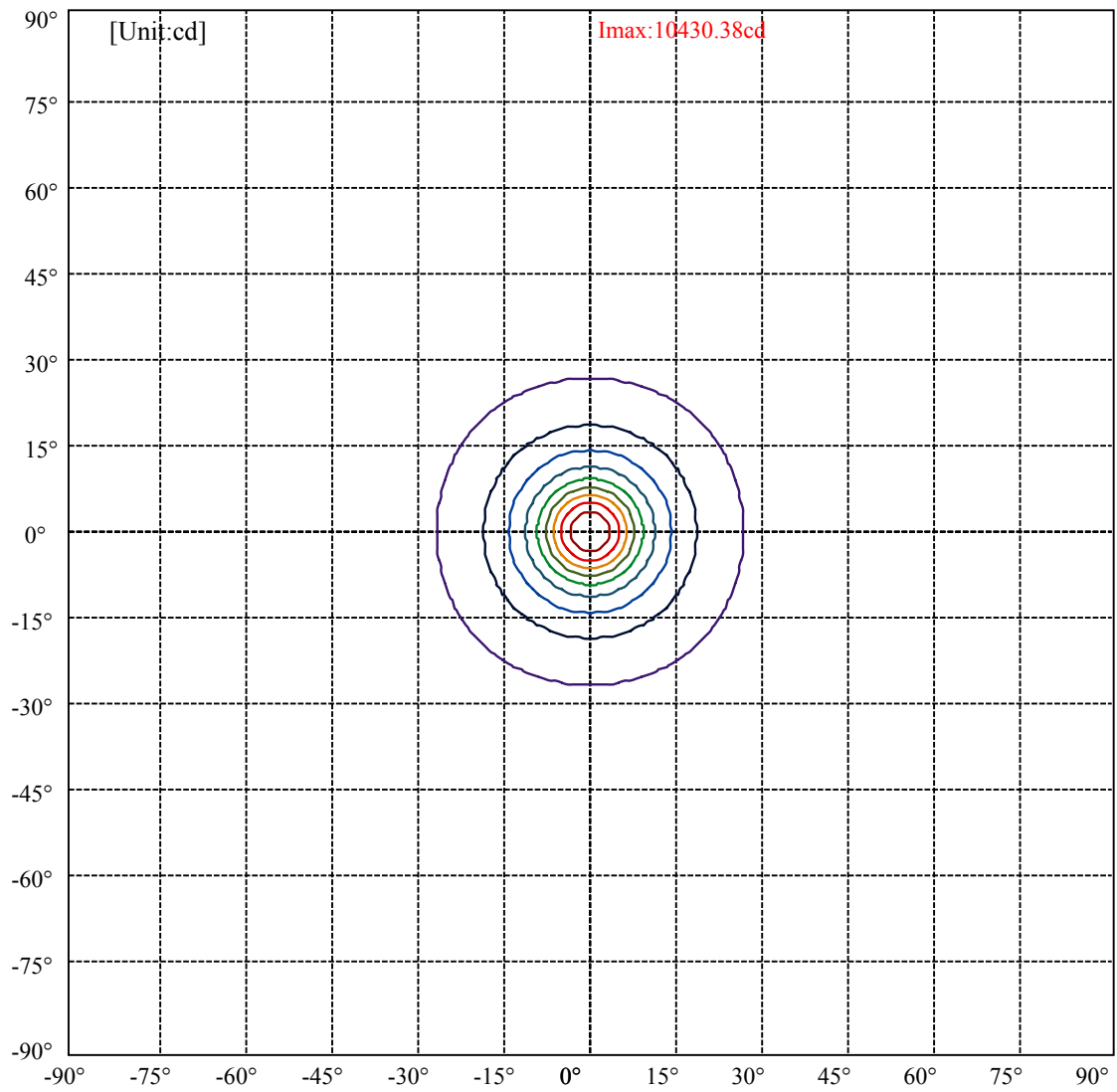
C0/C180: —————

C90/C270: —————

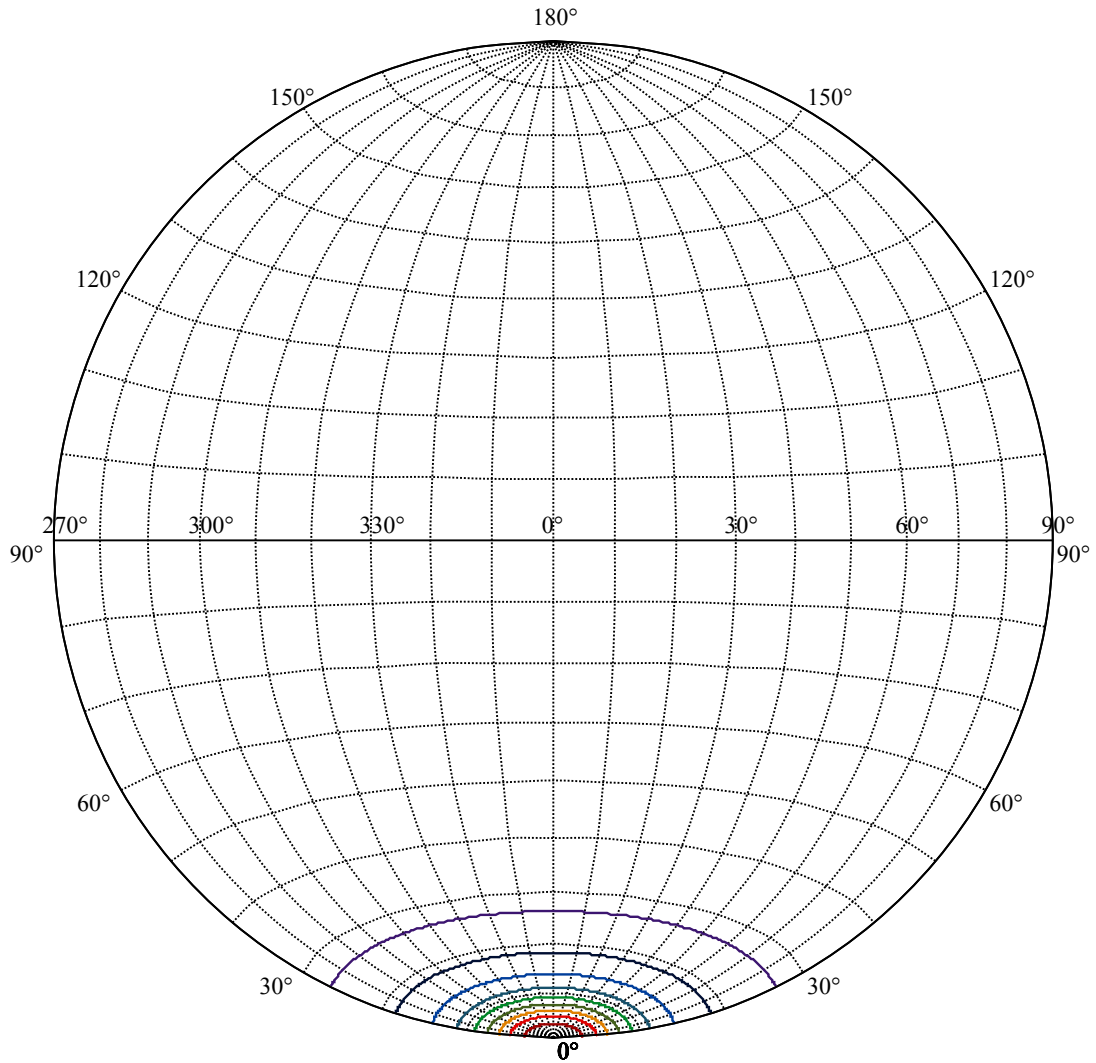
Field angle(10%Imax):C0/180Left:26.5 Right:26.5
:C90/270Left:26.5 Right:26.5

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





(10%Imax) 1043.04	—
(20%Imax) 2086.08	—
(30%Imax) 3129.11	—
(40%Imax) 4172.15	—
(50%Imax) 5215.19	—
(60%Imax) 6258.23	—
(70%Imax) 7301.26	—
(80%Imax) 8344.3	—
(90%Imax) 9387.34	—



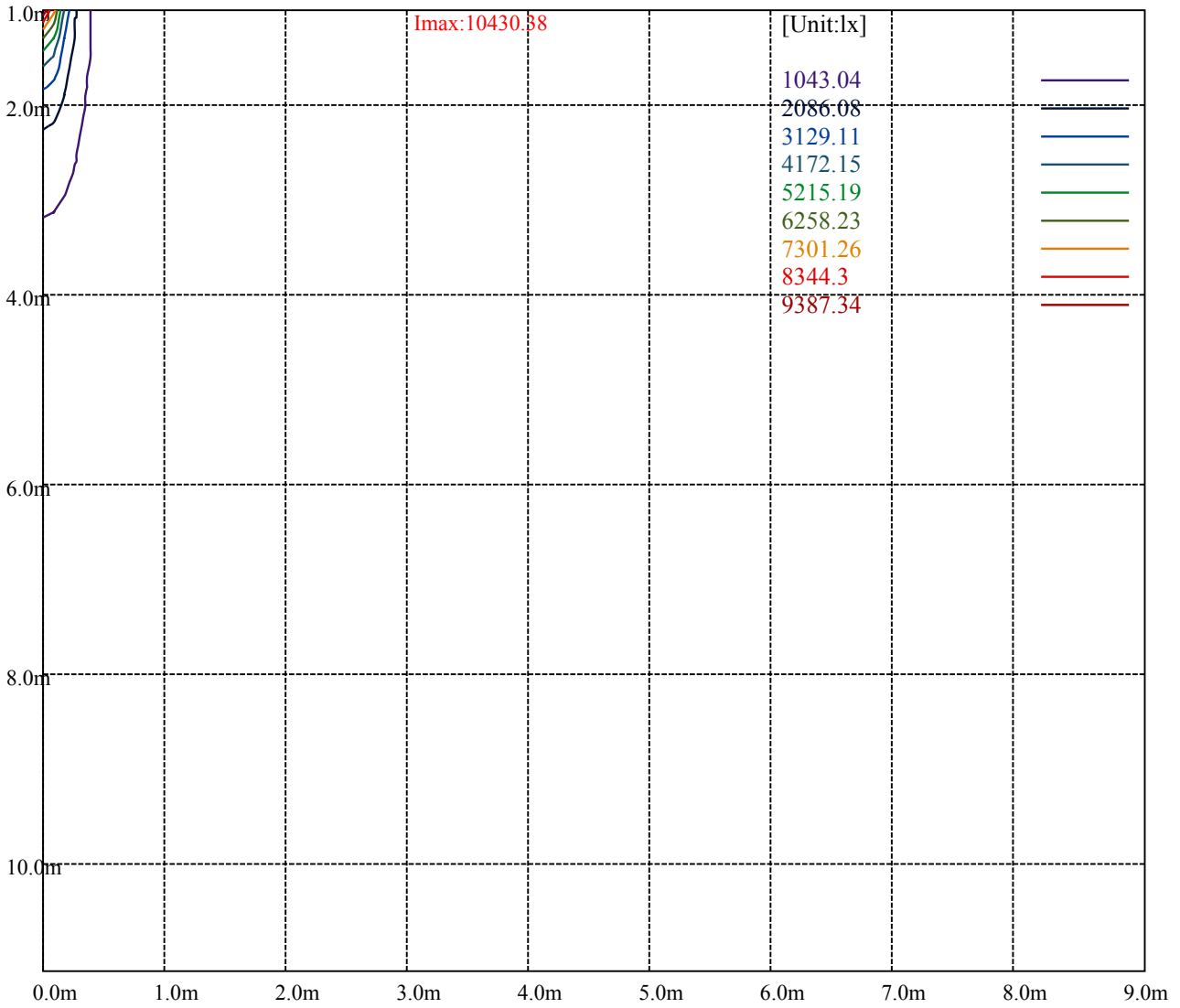
House

[Unit:cd]

Road

Imax:10430.38

(10%Imax) 1043.04	—
(20%Imax) 2086.08	—
(30%Imax) 3129.11	—
(40%Imax) 4172.15	—
(50%Imax) 5215.19	—
(60%Imax) 6258.23	—
(70%Imax) 7301.26	—
(80%Imax) 8344.3	—
(90%Imax) 9387.34	—



Luminance Table

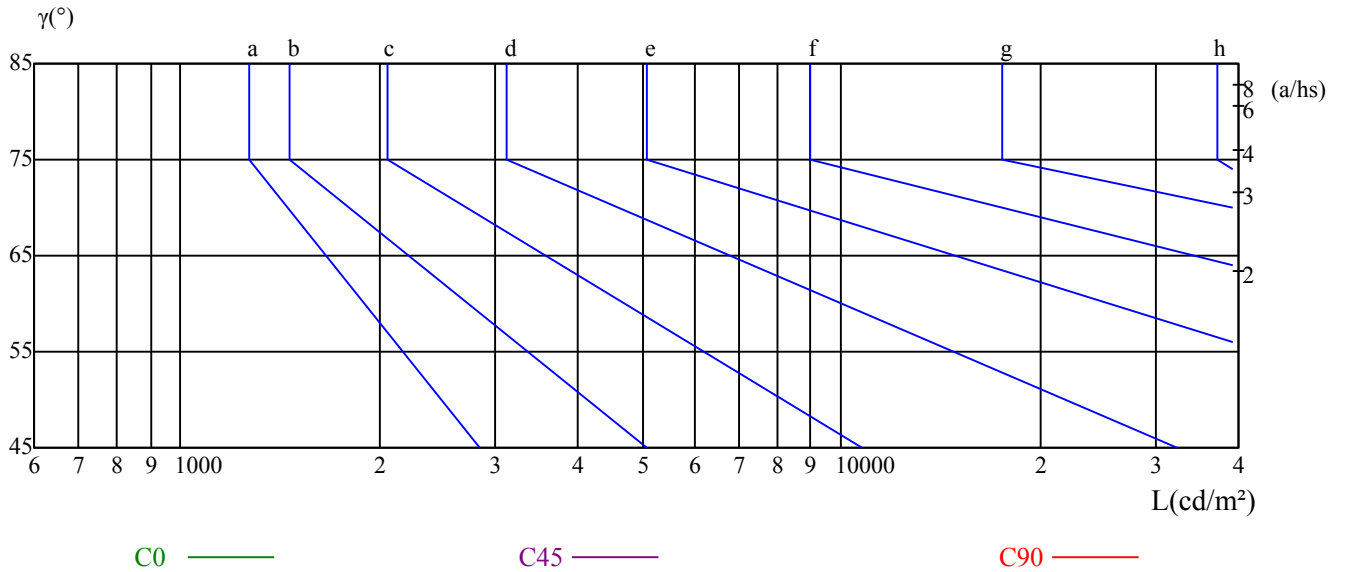
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

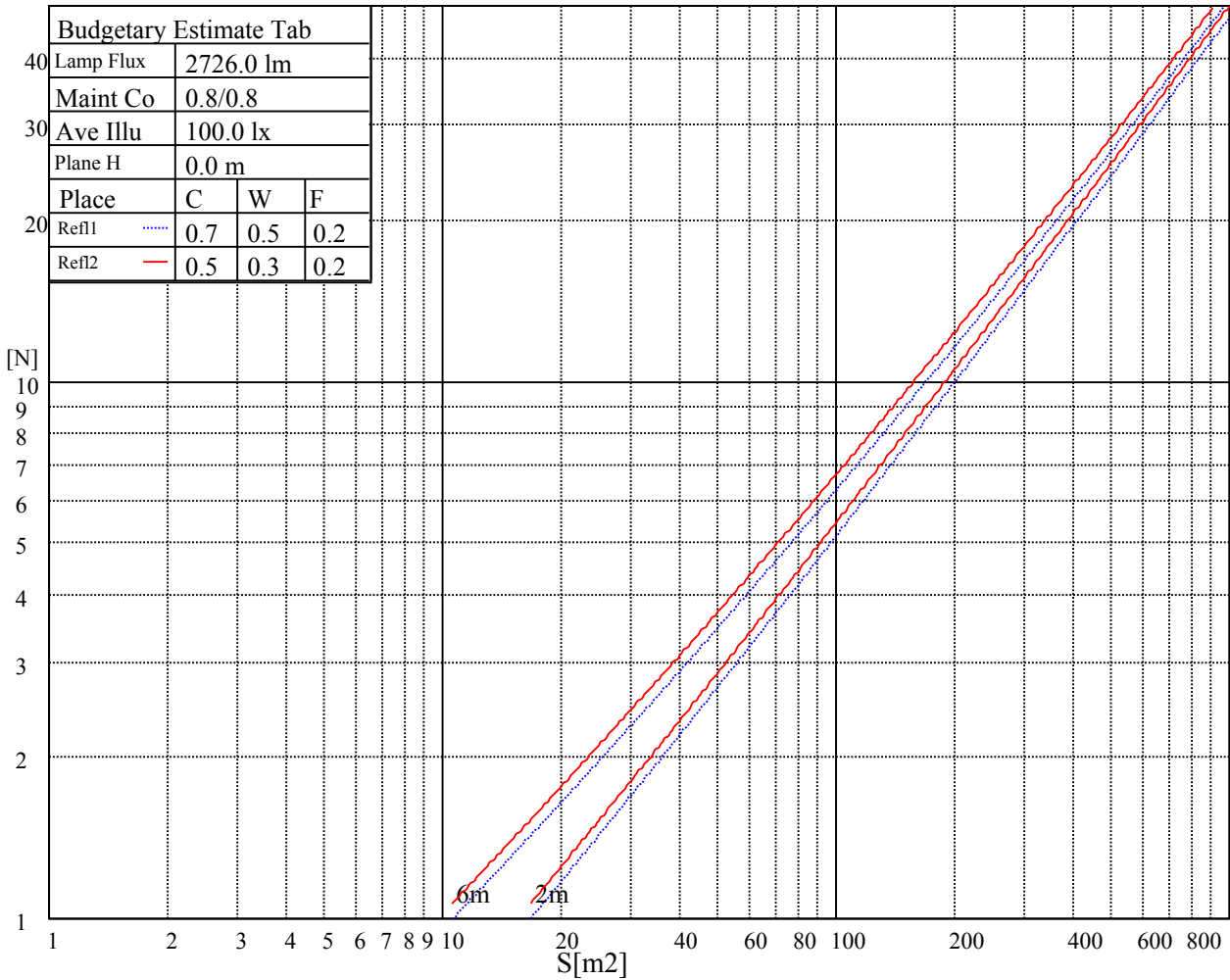
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

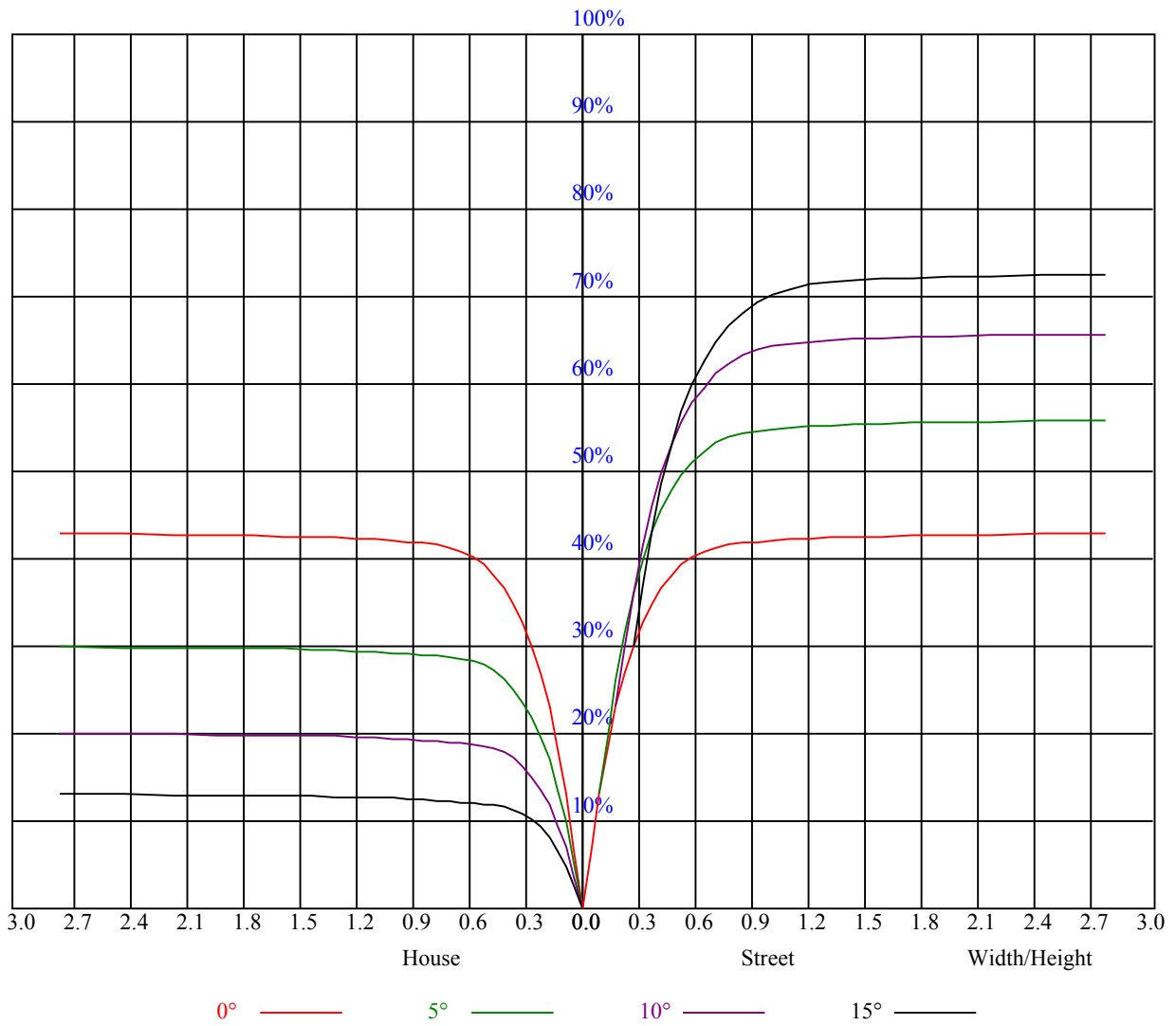


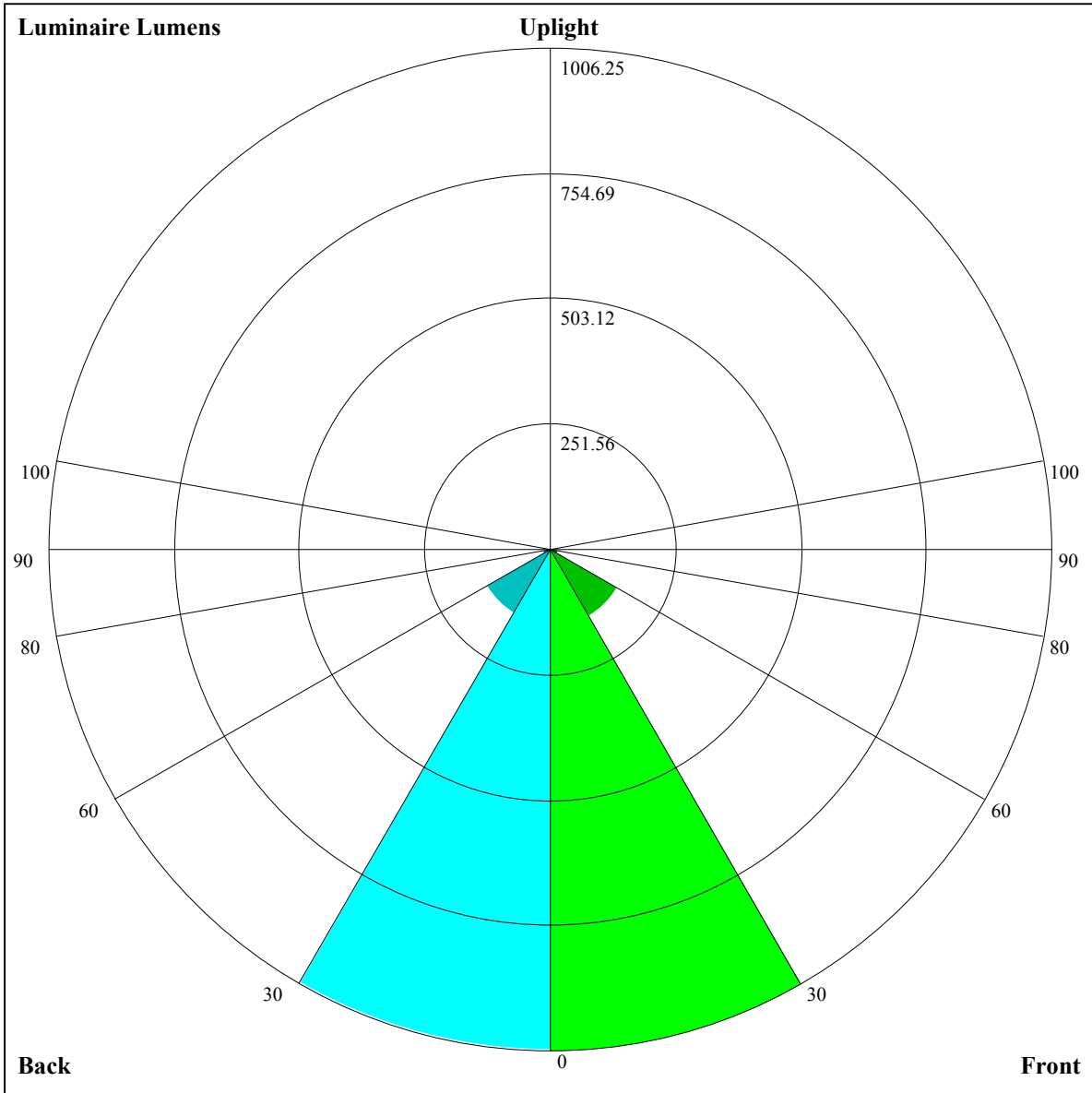
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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	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	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	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	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	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	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	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	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	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	非数字
8H	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	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	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	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	非数字
12H	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	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	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	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	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	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.95	0.93	0.95	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.85	0.90	0.87	0.84	0.87	0.85	0.83	0.84	0.82	0.81	0.82	0.80	0.79	0.78
3	0.86	0.82	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.71
5	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.68
6	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
8	0.69	0.65	0.62	0.68	0.64	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56





Luminaire Lumens:

FL=1006.25,FM=153.07,FH=17.46,FVH=5.88

BL=1004.46,BM=148.84,BH=17.53,BVH=5.87

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	10452.18	10319.33	10029.06	9587.21	8887.87	8206.67	7272.65	6514.20	5829.48
45.0	10387.80	10438.72	10316.40	9910.26	9433.89	8848.66	7974.92	7217.64	6477.33
90.0	10421.75	10193.51	9826.57	9186.92	8571.85	7849.68	7088.30	6153.70	5500.59
135.0	10459.78	10415.89	10203.46	9825.40	9169.36	8550.20	7823.93	7033.88	6108.64
180.0	10452.18	10377.85	10123.87	9739.96	9236.66	8483.48	7771.85	6994.08	6074.69
225.0	10387.80	10188.24	9742.88	9242.52	8632.13	7953.85	7018.66	6254.36	5430.36
270.0	10421.75	10462.71	10270.17	9934.84	9491.24	8928.25	8106.60	7362.19	6384.28
315.0	10459.78	10295.34	9984.00	9423.94	8847.49	7984.28	7206.52	6423.49	5708.93
360.0	10452.18	10319.33	10029.06	9587.21	8887.87	8206.67	7272.65	6514.20	5829.48
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5081.57	4577.10	4143.45	3754.86	3339.35	3054.93	2803.87	2565.10	2304.09
45.0	5649.24	5082.15	4585.88	4049.23	3675.86	3352.81	3069.56	2747.69	2517.70
90.0	4939.94	4348.87	3939.21	3503.80	3206.51	2942.57	2641.76	2420.55	2220.99
135.0	5464.30	4915.95	4440.75	3937.45	3581.05	3266.78	2923.26	2678.05	2407.09
180.0	5435.04	4883.18	4303.22	3908.19	3554.13	3171.39	2900.43	2658.15	2388.95
225.0	4874.98	4403.29	3922.24	3582.22	3265.03	2920.92	2681.56	2460.34	2259.03
270.0	5696.64	5087.42	4459.47	4050.99	3680.54	3349.89	2992.31	2744.76	2511.26
315.0	5095.61	4459.47	4038.11	3667.66	3338.77	2984.12	2734.23	2508.92	2249.66
360.0	5081.57	4577.10	4143.45	3754.86	3339.35	3054.93	2803.87	2565.10	2304.09
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2109.21	1937.15	1748.71	1611.77	1452.59	1166.18	1166.18	1145.64	1059.08
45.0	2311.70	2123.25	1905.55	1756.32	1617.62	1462.54	1346.08	1243.08	1130.13
90.0	2043.66	1838.84	1694.28	1560.27	1434.44	1150.08	1150.08	1112.45	1043.05
135.0	2212.79	2036.64	1876.29	1692.53	1556.17	1432.69	1316.23	1189.82	1105.55
180.0	2184.70	1996.26	1844.10	1661.51	1516.96	1398.75	1287.55	1164.07	1085.07
225.0	2024.35	1855.81	1710.67	1570.22	1412.21	1148.27	1148.27	1091.85	1024.90
270.0	2302.33	2051.86	1886.82	1741.10	1573.14	1443.81	1296.92	1200.94	1114.91
315.0	2062.98	1859.90	1712.43	1577.24	1418.64	1155.99	1155.99	1116.26	1029.47
360.0	2109.21	1937.15	1748.71	1611.77	1452.59	1166.18	1166.18	1145.64	1059.08
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	998.51	935.42	863.15	763.84	679.39	593.59	510.49	408.37	330.24
45.0	1060.49	998.45	916.52	839.86	759.68	677.16	571.24	488.14	409.72
90.0	967.03	897.97	803.05	719.65	631.87	526.88	445.12	366.29	273.24
135.0	1036.49	954.56	880.82	801.82	697.65	611.62	507.45	429.61	354.12
180.0	1004.30	938.17	862.09	757.92	670.73	583.53	500.43	401.52	327.78
225.0	958.31	868.77	787.13	700.92	593.36	510.37	431.78	355.88	267.80
270.0	1047.03	965.09	899.55	822.88	736.86	628.00	543.73	461.22	366.41
315.0	969.60	909.97	835.12	733.35	647.73	564.16	482.46	385.25	311.75
360.0	998.51	935.42	863.15	763.84	679.39	593.59	510.49	408.37	330.24
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	258.38	180.66	130.51	87.67	74.91	70.29	64.78	60.51	56.18
45.0	333.64	296.77	296.77	126.58	83.75	71.16	66.54	61.74	58.35
90.0	207.17	152.86	110.31	77.78	69.64	65.19	61.80	58.23	54.13
135.0	299.11	299.11	142.62	102.24	79.47	70.34	66.07	63.26	58.64
180.0	309.64	309.64	129.28	93.58	75.08	68.47	62.74	59.75	56.36
225.0	205.53	152.86	110.61	79.88	71.75	66.42	61.62	58.23	54.60
270.0	311.98	311.98	154.15	111.95	83.10	70.40	65.37	61.39	56.94
315.0	241.99	167.43	120.32	82.11	70.11	65.02	60.98	56.42	53.14
360.0	258.38	180.66	130.51	87.67	74.91	70.29	64.78	60.51	56.18

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	53.84	51.15	49.16	47.81	46.53	44.48	43.95	43.66	42.96
45.0	53.55	51.56	49.51	47.34	45.82	44.71	43.42	42.72	42.25
90.0	51.91	49.45	47.40	46.06	44.65	43.25	42.66	42.14	41.55
135.0	55.07	52.85	51.15	48.57	47.23	45.59	44.13	43.83	43.48
180.0	52.79	50.50	48.11	46.23	44.71	43.54	42.19	41.96	41.43
225.0	51.91	49.86	47.99	45.82	44.54	43.31	42.66	42.02	41.49
270.0	54.48	52.14	49.98	47.23	45.65	44.48	43.37	42.25	41.55
315.0	50.80	48.75	46.53	44.77	43.37	41.61	41.02	40.73	39.80
360.0	53.84	51.15	49.16	47.81	46.53	44.48	43.95	43.66	42.96
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	42.14	42.02	41.20	40.44	38.51	35.29	32.54	29.90	27.56
45.0	41.73	41.32	41.32	40.79	39.56	37.28	34.53	31.60	28.50
90.0	41.08	41.14	40.44	38.92	37.04	34.35	30.72	28.32	25.81
135.0	42.60	42.14	42.08	41.61	40.20	38.33	35.46	32.30	29.44
180.0	40.91	40.91	40.61	40.03	38.45	36.52	33.47	29.79	27.62
225.0	41.20	41.02	40.20	39.21	36.99	34.29	31.25	28.32	25.69
270.0	40.97	40.73	40.61	39.56	38.51	37.04	34.82	31.31	28.97
315.0	39.39	39.33	38.62	37.75	36.23	33.59	30.84	28.44	26.39
360.0	42.14	42.02	41.20	40.44	38.51	35.29	32.54	29.90	27.56
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.82	20.95	18.73	16.97	16.21	15.68	15.22	14.75	14.46
45.0	25.87	22.47	20.01	17.79	16.56	15.92	15.45	14.92	14.57
90.0	21.89	19.49	17.44	16.33	15.68	15.27	14.75	14.40	14.10
135.0	26.57	22.30	20.07	18.32	16.74	16.15	15.63	15.22	14.75
180.0	24.87	20.95	18.84	17.26	16.09	15.57	15.10	14.75	14.28
225.0	22.65	19.72	17.85	16.68	15.98	15.33	14.92	14.51	14.22
270.0	26.57	23.70	20.42	18.49	17.15	16.27	15.63	15.16	14.69
315.0	22.65	20.19	18.32	16.74	15.80	15.27	14.75	14.40	14.10
360.0	23.82	20.95	18.73	16.97	16.21	15.68	15.22	14.75	14.46
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.05	13.81	13.58	13.34	13.11	12.87	12.70	12.41	12.11
45.0	14.22	13.87	13.58	13.34	13.11	12.93	12.76	12.47	12.23
90.0	13.75	13.52	13.34	13.11	12.87	12.70	12.47	12.17	11.82
135.0	14.40	14.10	13.87	13.58	13.34	13.11	12.82	12.58	12.29
180.0	14.05	13.75	13.52	13.23	13.05	12.82	12.58	12.35	12.00
225.0	13.87	13.58	13.40	13.11	12.93	12.58	12.35	12.06	11.82
270.0	14.34	14.10	13.75	13.52	13.28	12.99	12.76	12.47	12.23
315.0	13.75	13.52	13.28	13.05	12.82	12.64	12.41	12.17	11.82
360.0	14.05	13.81	13.58	13.34	13.11	12.87	12.70	12.41	12.11
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.82	11.53	11.24	11.00	10.77	10.53	10.36	10.18	9.95
45.0	11.94	11.65	11.35	11.06	10.77	10.65	10.36	10.18	10.01
90.0	11.59	11.24	11.00	10.83	10.59	10.36	10.18	10.01	9.83
135.0	11.94	11.65	11.29	11.00	10.77	10.53	10.36	10.12	9.95
180.0	11.76	11.53	11.18	10.94	10.71	10.42	10.30	10.07	9.89
225.0	11.47	11.18	10.94	10.71	10.48	10.36	10.18	10.01	9.89
270.0	11.88	11.53	11.29	11.00	10.77	10.48	10.36	10.12	9.95
315.0	11.59	11.29	11.00	10.77	10.53	10.36	10.18	10.01	9.83
360.0	11.82	11.53	11.24	11.00	10.77	10.53	10.36	10.18	9.95

Intensity data(cd)

C/γ(°)	90.0
0.0	9.95
45.0	9.89
90.0	9.83
135.0	9.83
180.0	9.89
225.0	9.89
270.0	9.89
315.0	9.83
360.0	9.95