



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86 750 3771111
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:

LumCAT: 2-2756-L

Luminaire: 92.70.411.00

Report No: 2024913-B007

Ballast type: AC

Test No: 2024913-C007

Voltage(V): 36.740

LampCAT: NICHIA NFCWJ130B-V3

Current(A): 0.580

Lamp flux(lm): 2833.0

Power (W): 21.290

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2600.62, Efficiency(%): 91.80% , Luminous Efficacy(lm/W): 122.15

Central intensity(cd): 5569.825, Maximum intensity(cd): 5569.825

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.0

[C90/270]Total=37.0

Field angle(10%Imax): [C0/180]Total=66.8

[C90/270]Total=66.8

Maximum s/h(1/2): C0_180=0.59 C90_270=0.59

Maximum s/h(1/4): C0_180=0.64 C90_270=0.64

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.80%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.172%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5569.825	0.000	0	0.00%	0.00%
1.0	5551.724	5.321	5.321	0.19%	0.20%
2.0	5507.078	15.873	21.194	0.56%	0.81%
3.0	5438.412	26.178	47.372	0.92%	1.82%
4.0	5365.146	36.163	83.535	1.28%	3.21%
5.0	5247.656	45.656	129.191	1.61%	4.97%
6.0	5124.653	54.509	183.7	1.92%	7.06%
7.0	4973.523	62.679	246.379	2.21%	9.47%
8.0	4808.542	70.008	316.388	2.47%	12.17%
9.0	4629.350	76.489	392.877	2.70%	15.11%
10.0	4441.925	82.092	474.968	2.90%	18.26%
11.0	4252.917	86.879	561.848	3.07%	21.60%
12.0	4061.577	90.889	652.737	3.21%	25.10%
13.0	3867.069	94.093	746.83	3.32%	28.72%
14.0	3670.531	96.481	843.311	3.41%	32.43%
15.0	3470.787	98.039	941.35	3.46%	36.20%
16.0	3278.369	98.894	1040.244	3.49%	40.00%
17.0	3067.482	98.822	1139.066	3.49%	43.80%
18.0	2876.719	98.007	1237.073	3.46%	47.57%
19.0	2709.347	97.186	1334.259	3.43%	51.31%
20.0	2528.079	95.859	1430.118	3.38%	54.99%
21.0	2356.679	93.797	1523.916	3.31%	58.60%
22.0	2202.408	91.617	1615.532	3.23%	62.12%
23.0	2026.823	88.741	1704.273	3.13%	65.53%
24.0	1856.974	84.914	1789.187	3.00%	68.80%
25.0	1729.589	81.551	1870.737	2.88%	71.93%
26.0	1571.566	77.924	1948.662	2.75%	74.93%
27.0	1417.532	73.129	2021.791	2.58%	77.74%
28.0	1245.521	67.423	2089.213	2.38%	80.34%
29.0	1123.142	61.971	2151.184	2.19%	82.72%
30.0	1011.460	57.634	2208.818	2.03%	84.93%
31.0	867.170	52.280	2261.098	1.85%	86.94%
32.0	729.002	45.728	2306.826	1.61%	88.70%
33.0	603.779	39.264	2346.09	1.39%	90.21%
34.0	497.064	33.315	2379.405	1.18%	91.49%
35.0	415.546	28.342	2407.747	1.00%	92.58%
36.0	344.199	24.190	2431.938	0.85%	93.51%
37.0	286.216	20.561	2452.498	0.73%	94.30%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	258.811	18.192	2470.691	0.64%	95.00%
39.0	214.218	16.146	2486.836	0.57%	95.62%
40.0	174.409	13.554	2500.39	0.48%	96.15%
41.0	136.663	11.077	2511.468	0.39%	96.57%
42.0	112.753	9.062	2520.529	0.32%	96.92%
43.0	92.944	7.620	2528.149	0.27%	97.21%
44.0	77.162	6.420	2534.569	0.23%	97.46%
45.0	65.079	5.466	2540.036	0.19%	97.67%
46.0	55.375	4.711	2544.746	0.17%	97.85%
47.0	47.891	4.107	2548.853	0.14%	98.01%
48.0	42.030	3.635	2552.488	0.13%	98.15%
49.0	37.398	3.262	2555.75	0.12%	98.27%
50.0	33.633	2.962	2558.712	0.10%	98.39%
51.0	30.486	2.713	2561.425	0.10%	98.49%
52.0	27.858	2.504	2563.928	0.09%	98.59%
53.0	25.598	2.325	2566.254	0.08%	98.68%
54.0	23.666	2.171	2568.425	0.08%	98.76%
55.0	21.971	2.037	2570.462	0.07%	98.84%
56.0	20.447	1.917	2572.379	0.07%	98.91%
57.0	19.244	1.815	2574.194	0.06%	98.98%
58.0	17.976	1.721	2575.915	0.06%	99.05%
59.0	16.892	1.630	2577.545	0.06%	99.11%
60.0	15.907	1.550	2579.095	0.05%	99.17%
61.0	15.105	1.480	2580.574	0.05%	99.23%
62.0	14.166	1.410	2581.985	0.05%	99.28%
63.0	13.456	1.343	2583.328	0.05%	99.34%
64.0	12.694	1.283	2584.611	0.05%	99.38%
65.0	11.971	1.221	2585.832	0.04%	99.43%
66.0	11.439	1.168	2587	0.04%	99.48%
67.0	10.782	1.117	2588.117	0.04%	99.52%
68.0	10.204	1.063	2589.18	0.04%	99.56%
69.0	9.658	1.013	2590.194	0.04%	99.60%
70.0	9.133	0.965	2591.159	0.03%	99.64%
71.0	8.607	0.917	2592.076	0.03%	99.67%
72.0	8.068	0.867	2592.943	0.03%	99.70%
73.0	7.582	0.818	2593.761	0.03%	99.74%
74.0	7.116	0.773	2594.534	0.03%	99.77%
75.0	6.623	0.726	2595.26	0.03%	99.79%

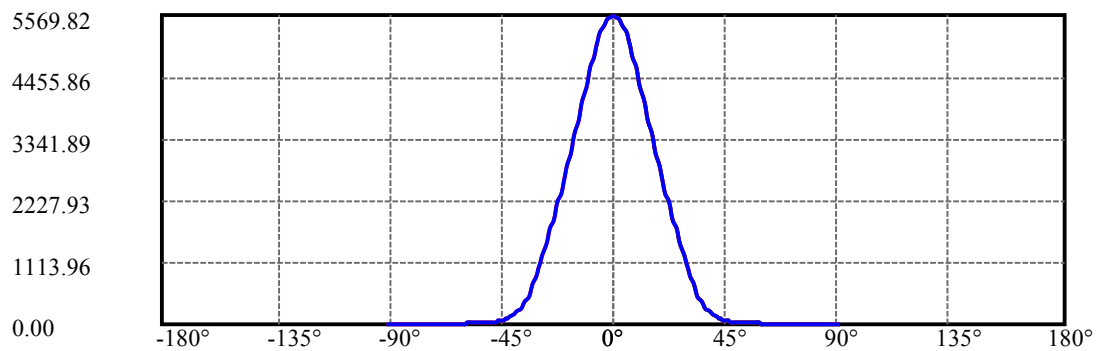
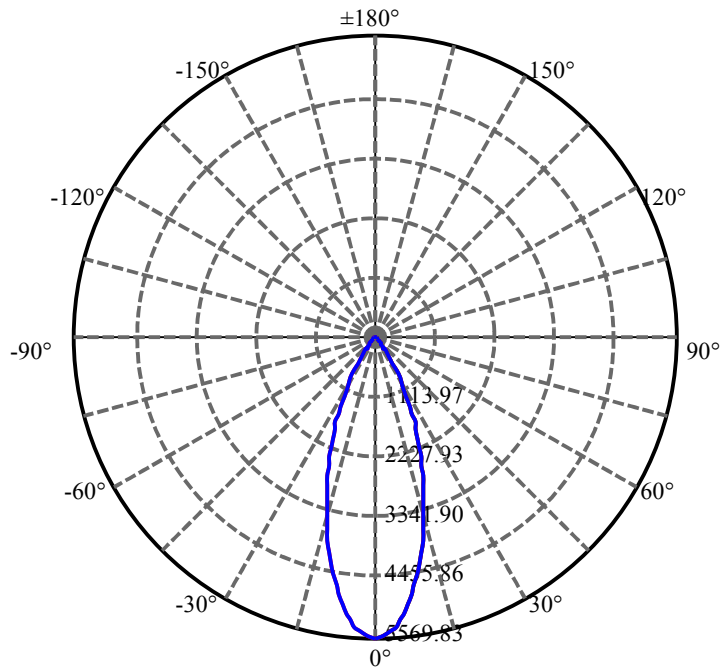
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.110	0.676	2595.936	0.02%	99.82%
77.0	5.618	0.625	2596.561	0.02%	99.84%
78.0	5.243	0.581	2597.142	0.02%	99.87%
79.0	4.691	0.534	2597.676	0.02%	99.89%
80.0	4.198	0.479	2598.155	0.02%	99.91%
81.0	3.765	0.431	2598.586	0.02%	99.92%
82.0	3.298	0.383	2598.969	0.01%	99.94%
83.0	2.904	0.337	2599.306	0.01%	99.95%
84.0	2.484	0.294	2599.6	0.01%	99.96%
85.0	2.122	0.251	2599.851	0.01%	99.97%
86.0	1.813	0.215	2600.066	0.01%	99.98%
87.0	1.524	0.183	2600.249	0.01%	99.99%
88.0	1.242	0.152	2600.4	0.01%	99.99%
89.0	0.986	0.122	2600.523	0.00%	100.00%
90.0	0.834	0.100	2600.622	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2208.82	77.97%	84.93%
0-40	2500.39	88.26%	96.15%
0-60	2579.09	91.04%	99.17%
0-90	2600.52	91.79%	100.00%
0-120	2600.52	91.79%	100.00%
0-180	2600.62	91.80%	100.00%
60-90	21.43	0.76%	0.82%
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%
0-27.87	2080.50	73.44%	80.00%

ZONAL LUMEN SUMMARY

0-10	474.97
10-20	955.15
20-30	778.70
30-40	291.57
40-50	58.32
50-60	20.38
60-70	12.06
70-80	7.00
80-90	2.37
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: —————

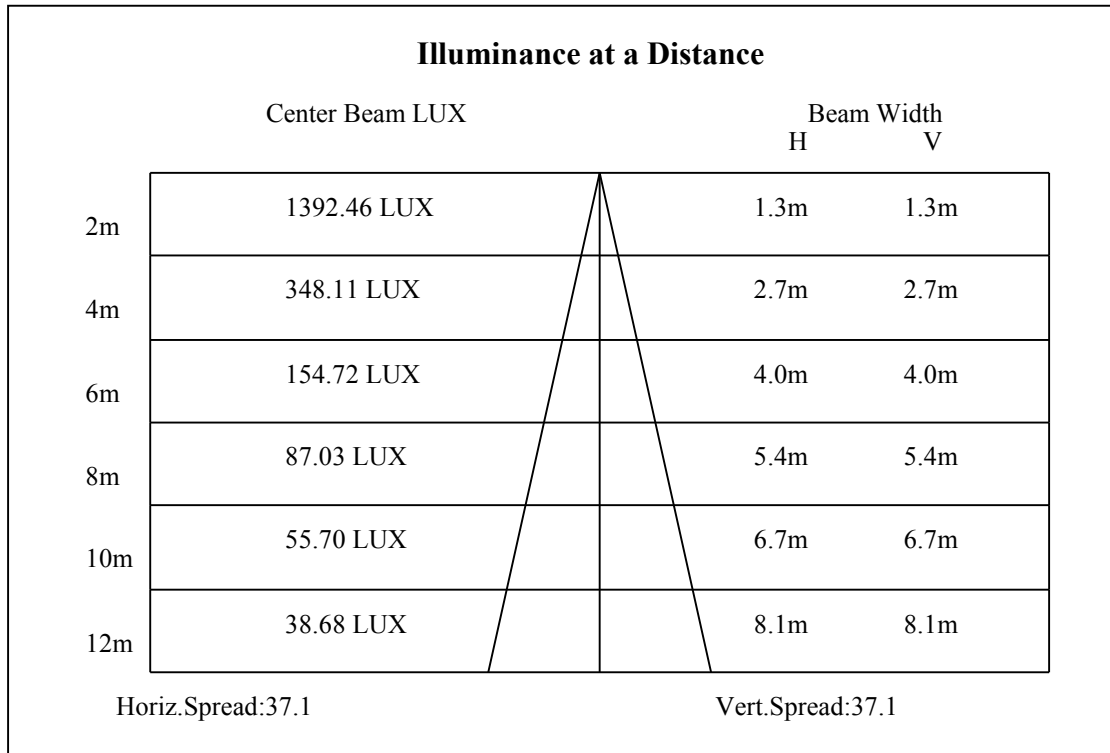
C90/C270: —————

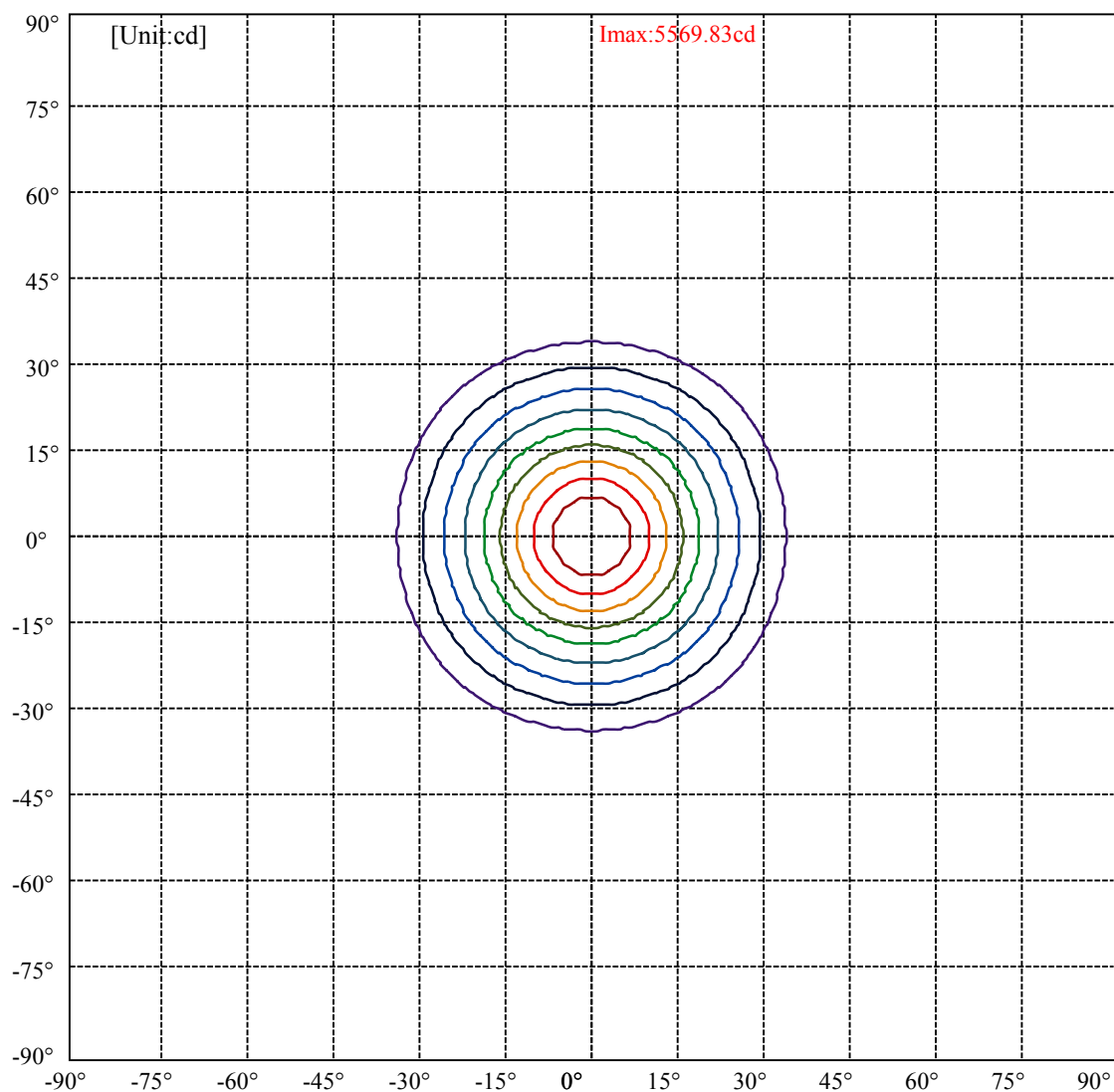
Field angle(10%Imax):C0/180Left:33.4 Right:33.4

:C90/270Left:33.4 Right:33.4

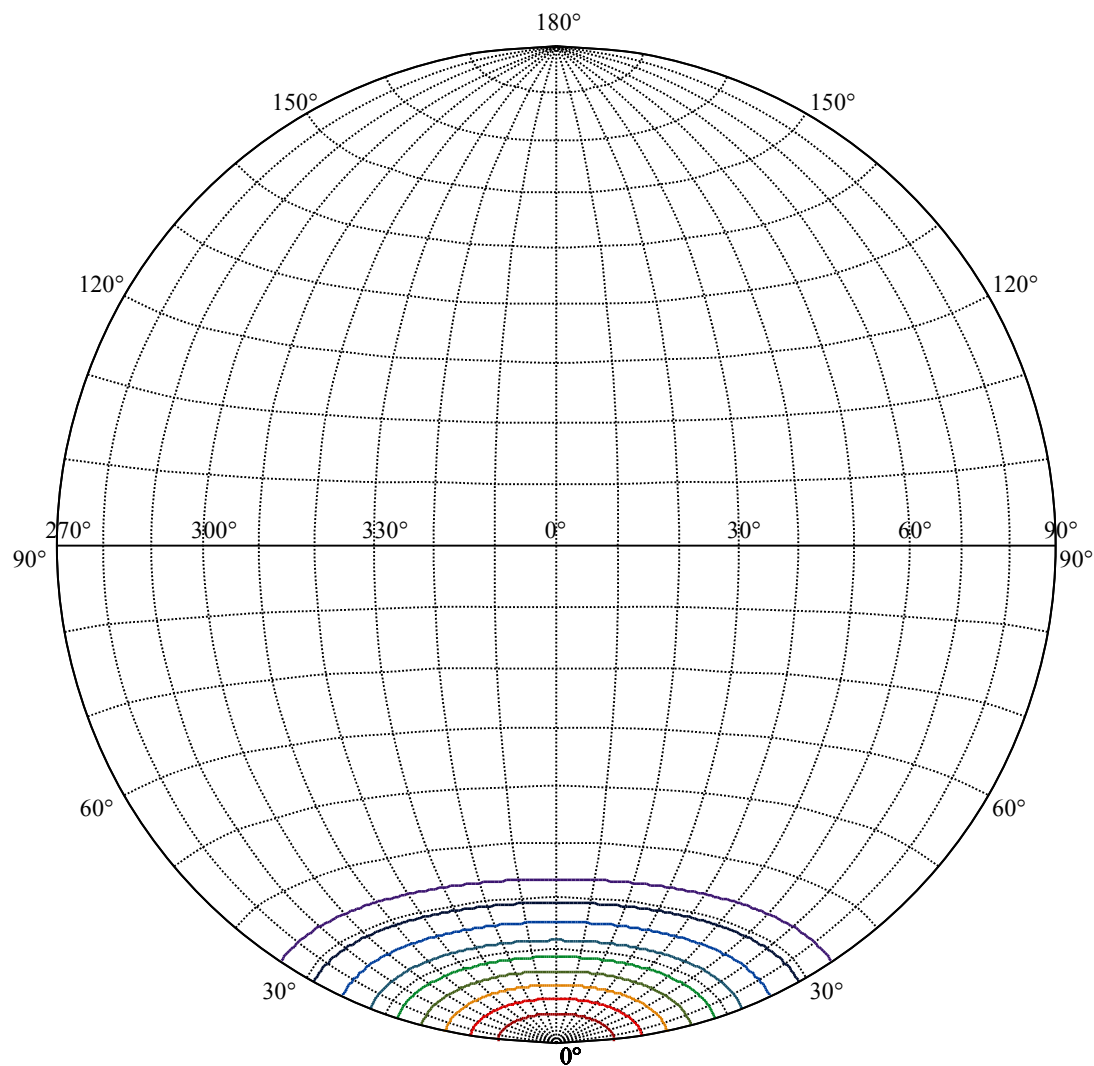
Beam Angle(50%Imax):C0/180Left:18.5 Right:18.5

:C90/270Left:18.5 Right:18.5





(10%Imax)	556.982	—
(20%Imax)	1113.96	—
(30%Imax)	1670.95	—
(40%Imax)	2227.93	—
(50%Imax)	2784.91	—
(60%Imax)	3341.89	—
(70%Imax)	3898.88	—
(80%Imax)	4455.86	—
(90%Imax)	5012.84	—

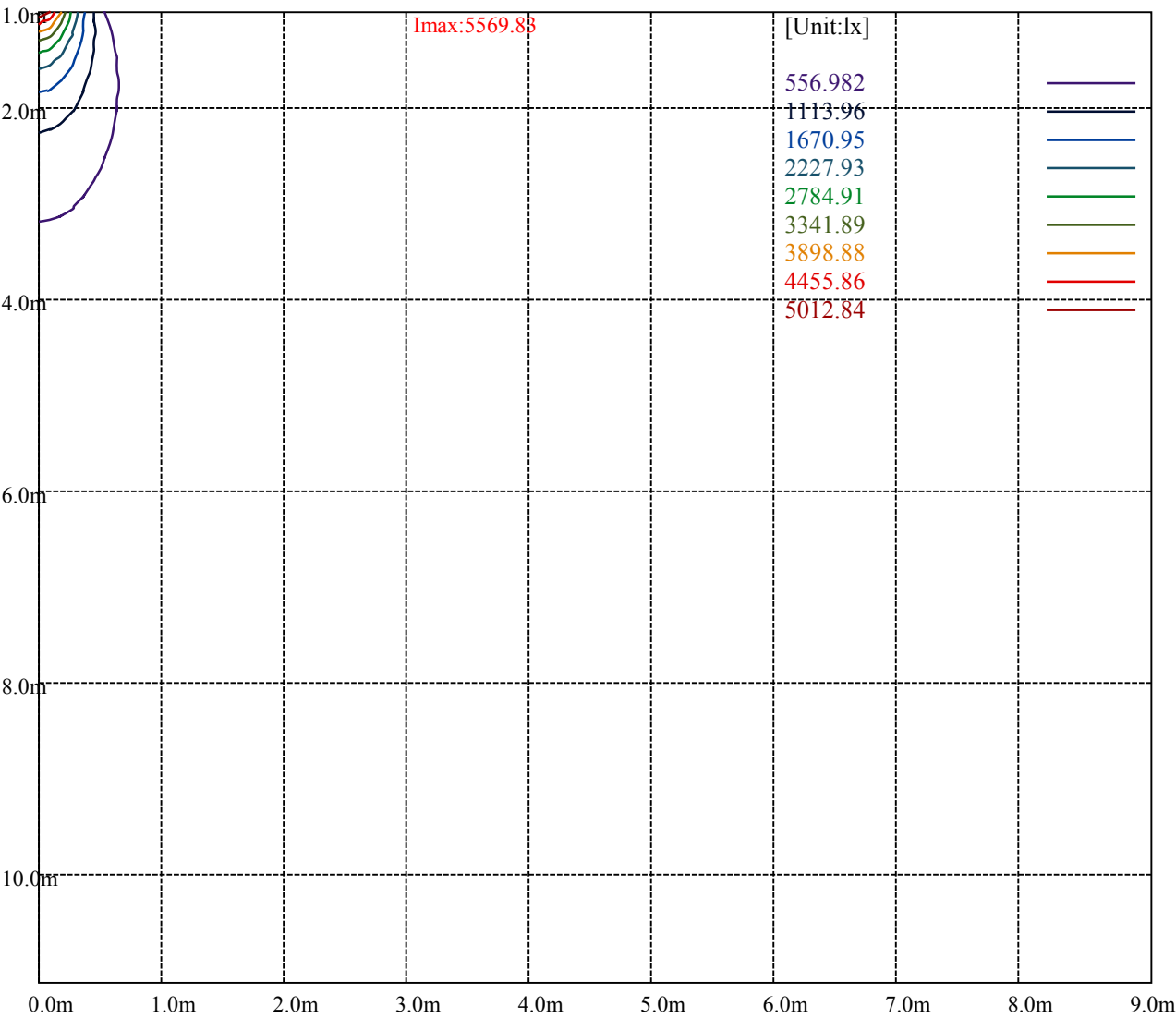


House

[Unit:cd]

Road

Imax:5569.83	
(10%Imax) 556.982	—
(20%Imax) 1113.96	—
(30%Imax) 1670.95	—
(40%Imax) 2227.93	—
(50%Imax) 2784.91	—
(60%Imax) 3341.89	—
(70%Imax) 3898.88	—
(80%Imax) 4455.86	—
(90%Imax) 5012.84	—



Luminance Limiting Curve(no luminous side)

Luminance Table

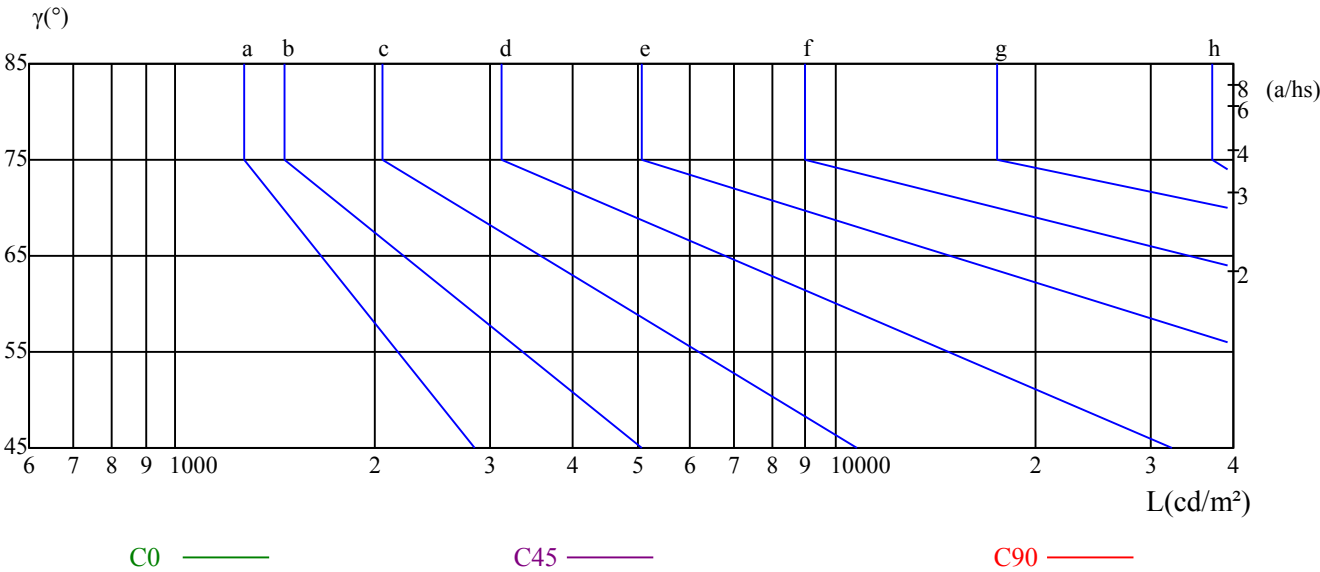
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

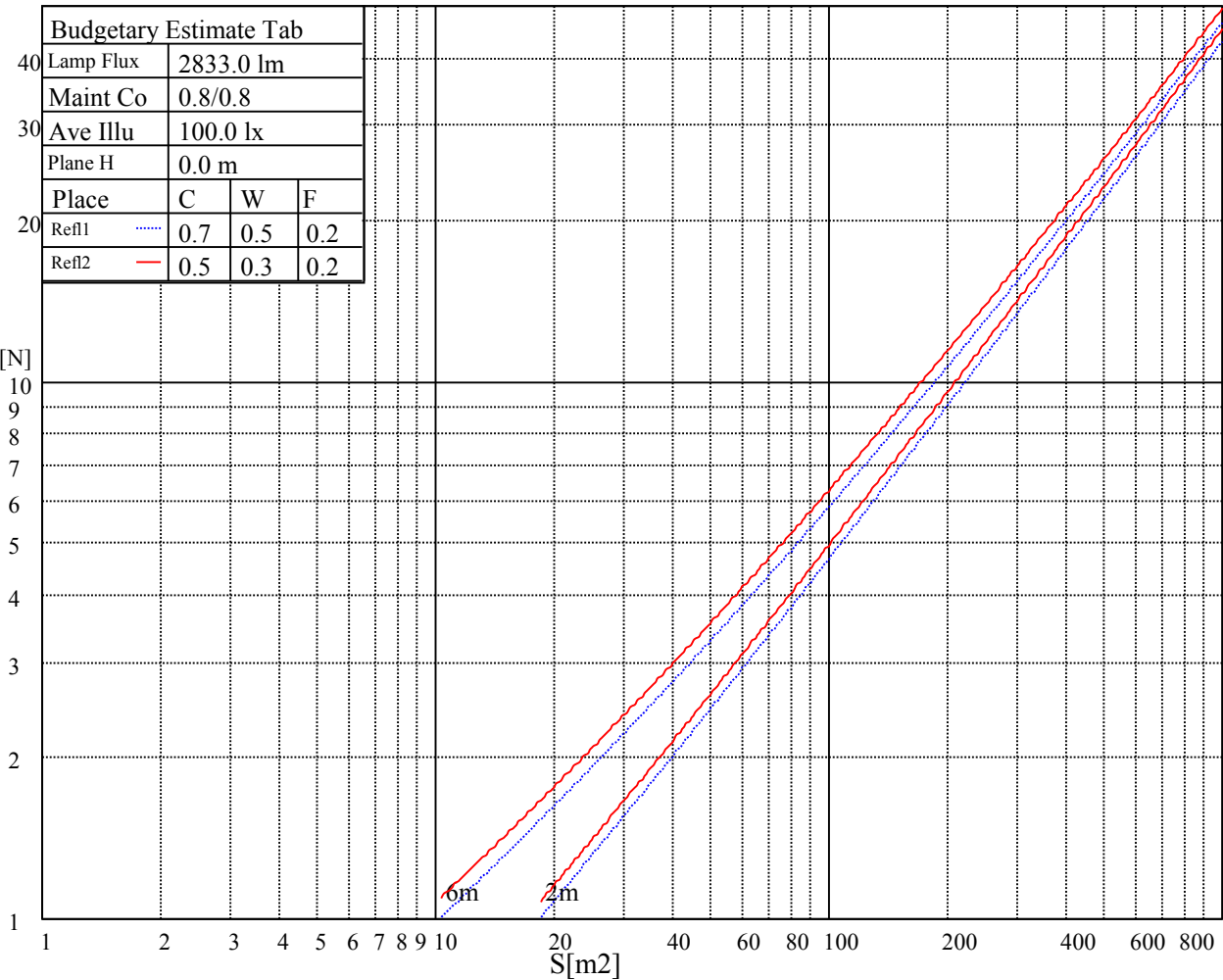
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

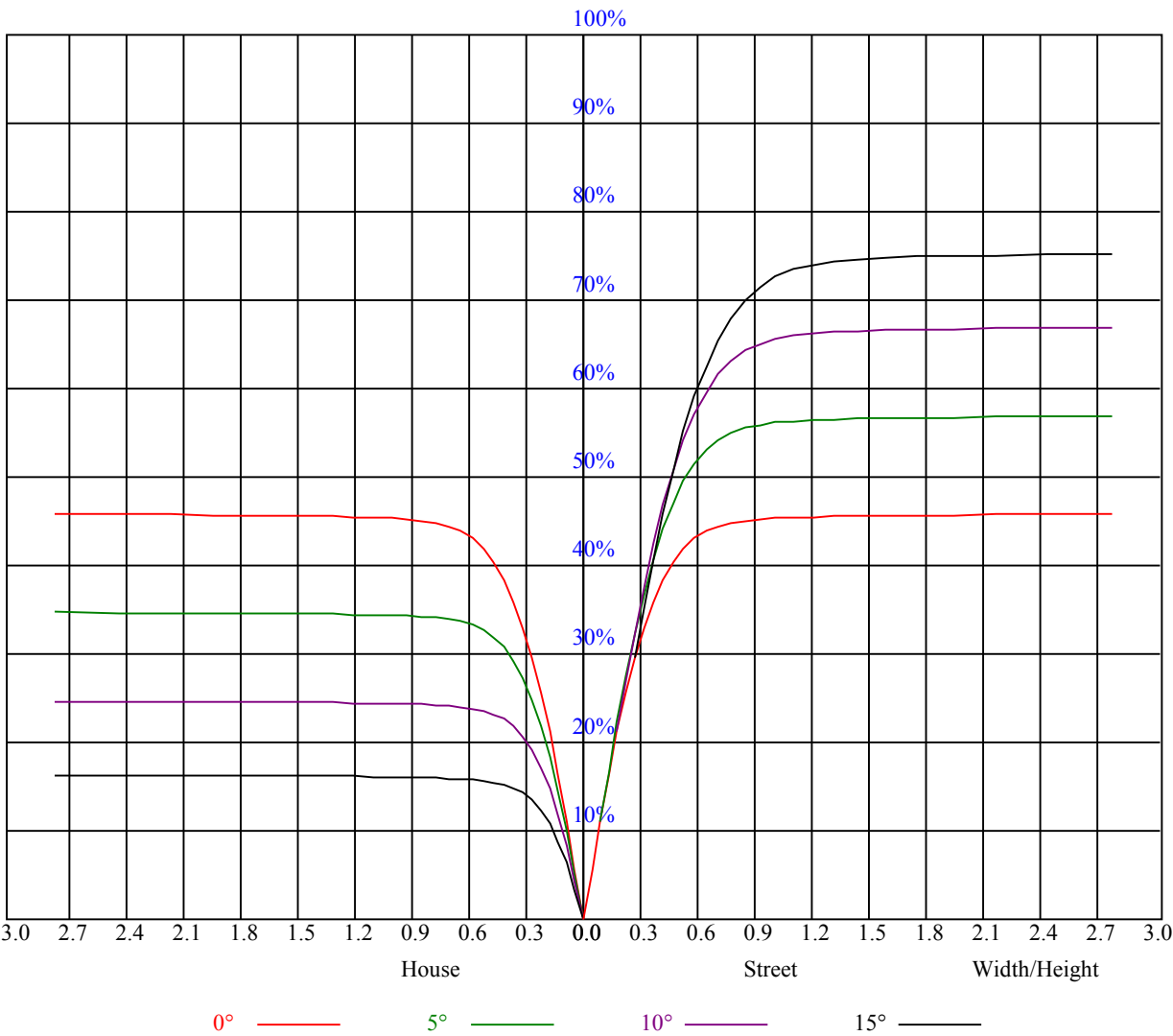


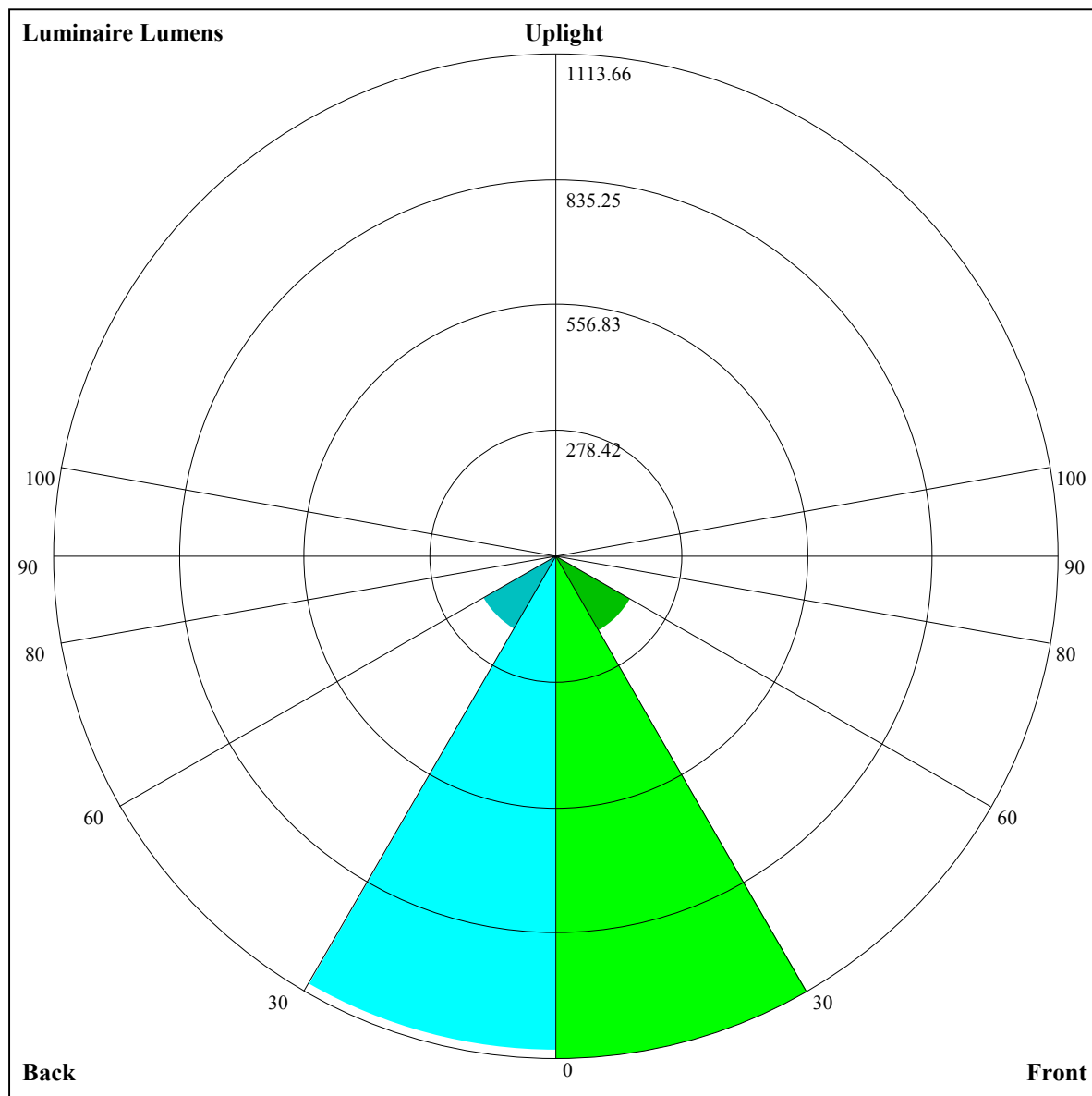
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	
4H	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	
	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	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	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	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	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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.81	0.78	0.85	0.81	0.78	0.83	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
5	0.81	0.77	0.73	0.81	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.73	0.71	0.70
6	0.77	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.66
7	0.74	0.69	0.66	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
8	0.70	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
9	0.67	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.58
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55





Luminaire Lumens:

FL=1113.66,FM=189.33,FH=9.5,FVH=1.25

BL=1094.74,BM=186.46,BH=9.55,BVH=1.24

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	5584.71	5550.76	5513.96	5482.22	5402.53	5247.10	5168.52	5013.10	4842.06
45.0	5568.58	5576.93	5551.86	5506.71	5438.22	5349.60	5225.92	5077.70	4909.44
90.0	5532.94	5486.68	5404.79	5304.50	5237.64	5102.77	4938.40	4772.94	4587.39
135.0	5593.07	5531.78	5495.57	5382.51	5324.53	5198.64	5057.09	4897.77	4724.48
180.0	5584.71	5590.86	5533.46	5453.25	5361.85	5247.10	5107.81	4963.48	4801.37
225.0	5568.58	5508.97	5432.07	5344.61	5258.25	5096.67	4974.09	4796.33	4617.51
270.0	5532.94	5571.94	5578.62	5522.32	5452.15	5378.04	5280.53	5156.28	5017.56
315.0	5593.07	5595.86	5546.29	5511.18	5446.00	5361.32	5244.84	5110.60	4968.52
360.0	5584.71	5550.76	5513.96	5482.22	5402.53	5247.10	5168.52	5013.10	4842.06
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4659.30	4453.15	4257.04	4060.87	3859.19	3654.15	3435.75	3217.93	3005.05
45.0	4729.47	4547.29	4348.97	4162.84	3958.38	3755.01	3551.07	3432.96	3134.35
90.0	4401.32	4217.46	4038.06	3836.90	3643.58	3434.07	3233.49	3028.49	2832.91
135.0	4546.76	4353.96	4156.75	3970.62	3776.72	3580.08	3392.86	3192.86	3005.63
180.0	4620.30	4438.64	4253.67	4063.66	3861.45	3665.87	3476.43	3286.42	3095.35
225.0	4435.33	4252.57	4064.82	3873.12	3684.79	3505.39	3306.50	3114.85	2920.95
270.0	4853.20	4664.87	4486.58	4293.78	4115.49	3932.20	3745.55	3543.87	3349.97
315.0	4789.13	4607.47	4417.46	4230.81	4036.96	3837.48	3624.66	3409.57	3195.64
360.0	4659.30	4453.15	4257.04	4060.87	3859.19	3654.15	3435.75	3217.93	3005.05
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2803.95	2610.04	2428.97	2252.36	2084.63	1924.16	1772.62	1660.66	1495.72
45.0	2919.85	2801.69	2607.26	2430.65	2257.93	2091.88	1920.84	1764.26	1618.29
90.0	2646.84	2467.39	2291.36	2118.64	2017.77	1778.19	1621.08	1530.83	1384.29
135.0	2811.73	2635.69	2454.62	2280.74	2114.17	2016.67	1794.38	1700.76	1552.54
180.0	2904.76	2795.01	2615.62	2446.26	2280.21	2116.38	1953.17	1790.44	1641.68
225.0	2749.33	2578.82	2415.04	2243.42	2141.45	1913.01	1758.69	1671.80	1471.22
270.0	3150.49	2991.12	2764.95	2621.76	2446.26	2276.85	2105.81	1940.87	1783.24
315.0	3026.81	2795.01	2646.84	2459.61	2276.85	2097.45	1929.20	1777.09	1625.55
360.0	2803.95	2610.04	2428.97	2252.36	2084.63	1924.16	1772.62	1660.66	1495.72
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1384.29	1045.84	1045.84	957.32	810.57	670.86	550.80	452.25	374.56
45.0	1474.01	1334.72	1193.17	1049.99	905.70	764.15	631.54	518.48	428.75
90.0	1075.85	1075.85	928.20	780.76	646.05	530.67	438.53	361.84	299.87
135.0	1403.21	1257.82	1114.06	969.20	824.34	687.83	565.26	463.86	384.18
180.0	1498.50	1359.21	1220.50	1080.05	936.35	793.69	661.66	545.76	449.36
225.0	1389.86	1055.30	1055.30	966.68	816.77	677.85	557.58	459.24	381.66
270.0	1630.54	1489.04	1354.75	1214.35	1067.28	917.95	769.73	637.69	526.83
315.0	1484.00	1346.39	1073.33	1073.33	930.30	789.02	655.14	537.40	479.16
360.0	1384.29	1045.84	1045.84	957.32	810.57	670.86	550.80	452.25	374.56
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	311.12	257.82	213.67	176.40	144.97	128.78	106.18	81.68	73.53
45.0	354.64	295.03	295.03	239.32	172.25	142.34	116.90	95.93	79.00
90.0	249.04	206.62	171.46	141.34	125.83	96.08	85.99	71.64	56.50
135.0	318.42	294.46	294.46	173.04	153.59	127.04	96.82	86.41	71.38
180.0	371.93	307.86	307.86	284.99	178.24	146.44	120.95	99.87	82.79
225.0	316.37	260.76	214.88	184.70	146.54	120.79	103.44	85.73	71.75
270.0	435.43	363.57	301.71	290.04	290.04	181.03	148.54	121.58	99.66
315.0	396.64	303.60	271.43	223.92	183.81	150.80	123.21	100.71	82.68
360.0	311.12	257.82	213.67	176.40	144.97	128.78	106.18	81.68	73.53

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	62.44	53.93	47.10	41.42	36.79	32.96	29.91	27.39	25.23
45.0	66.02	56.03	48.52	42.42	37.74	34.01	30.80	28.12	25.76
90.0	51.67	44.99	39.84	35.80	32.38	29.38	26.91	24.91	22.97
135.0	59.87	51.35	44.52	39.32	35.27	31.80	28.91	26.39	24.39
180.0	69.07	58.71	50.83	44.52	39.58	35.64	32.43	29.54	27.12
225.0	61.24	52.77	46.15	41.00	36.85	33.32	30.17	27.60	25.49
270.0	81.79	67.96	57.29	49.36	43.05	38.27	34.38	31.17	28.33
315.0	68.54	57.24	48.88	42.42	37.53	33.69	30.38	27.75	25.49
360.0	62.44	53.93	47.10	41.42	36.79	32.96	29.91	27.39	25.23
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.29	21.60	20.13	18.87	17.71	16.56	15.77	14.77	13.88
45.0	23.86	22.71	20.55	19.71	18.45	17.24	16.19	15.24	14.40
90.0	21.29	19.82	18.66	17.40	16.29	15.35	14.56	14.03	12.88
135.0	22.55	20.81	19.40	18.13	17.03	16.40	15.09	14.56	13.82
180.0	25.07	23.18	21.60	20.66	19.34	17.66	16.93	15.98	15.09
225.0	23.60	21.81	20.34	19.03	17.82	16.71	15.66	15.19	13.93
270.0	26.12	24.07	22.34	21.03	19.40	18.29	17.24	16.14	15.19
315.0	23.55	21.76	20.55	19.13	17.77	16.93	15.82	14.93	14.14
360.0	23.29	21.60	20.13	18.87	17.71	16.56	15.77	14.77	13.88
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.25	12.30	11.77	11.20	10.51	9.88	9.41	8.88	8.36
45.0	13.56	12.88	12.19	11.51	10.83	10.30	9.72	9.25	8.67
90.0	12.46	11.77	10.99	10.67	10.04	9.46	8.99	8.52	7.94
135.0	13.09	12.35	11.72	11.20	10.57	10.04	9.46	8.94	8.52
180.0	14.19	13.40	12.62	12.04	11.35	10.67	10.14	9.57	8.99
225.0	13.40	12.67	11.67	11.41	10.67	10.14	9.57	9.04	8.46
270.0	14.35	13.56	12.83	12.14	11.56	10.99	10.35	9.72	9.30
315.0	13.35	12.62	11.98	11.35	10.72	10.14	9.62	9.15	8.62
360.0	13.25	12.30	11.77	11.20	10.51	9.88	9.41	8.88	8.36
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.78	7.31	6.89	6.25	5.78	5.31	4.94	4.31	3.89
45.0	8.20	7.67	7.25	6.73	6.41	5.73	5.47	4.99	4.52
90.0	7.41	6.94	6.47	5.94	5.47	4.99	4.52	3.94	3.42
135.0	7.94	7.46	6.99	6.52	5.94	5.52	5.05	4.52	3.94
180.0	8.46	7.88	7.46	6.99	6.41	5.89	5.47	5.10	4.52
225.0	7.94	7.52	6.99	6.52	5.94	5.57	5.10	4.63	4.05
270.0	8.78	8.25	7.73	7.36	6.83	6.25	5.99	5.31	4.89
315.0	8.04	7.62	7.15	6.68	6.10	5.68	5.41	4.73	4.36
360.0	7.78	7.31	6.89	6.25	5.78	5.31	4.94	4.31	3.89
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.47	3.10	2.73	2.26	2.00	1.73	1.47	1.21	0.89
45.0	3.94	3.36	3.00	2.52	2.16	1.84	1.52	1.26	1.05
90.0	3.10	2.73	2.26	1.94	1.73	1.42	1.16	0.84	0.79
135.0	3.47	3.10	2.73	2.31	1.94	1.68	1.37	1.10	0.68
180.0	4.05	3.57	3.15	2.73	2.26	1.94	1.68	1.31	1.05
225.0	3.68	3.26	2.79	2.42	2.10	1.79	1.58	1.26	1.05
270.0	4.63	3.94	3.57	3.05	2.52	2.21	1.84	1.58	1.31
315.0	3.78	3.31	3.00	2.63	2.26	1.89	1.58	1.37	1.05
360.0	3.47	3.10	2.73	2.26	2.00	1.73	1.47	1.21	0.89

Intensity data(cd)

Appendix Page: 20 Total:20

C/ γ (°)	90.0
0.0	0.84
45.0	0.84
90.0	0.89
135.0	0.84
180.0	0.68
225.0	0.68
270.0	1.00
315.0	0.89
360.0	0.84