



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: 63-0012

Luminaire: 92.70.411.00

Report No: 2024624-B008

Ballast type: AC

Test No: 2024624-C008

Voltage(V): 35.530

LampCAT: LUMILEDS 1208

Current(A): 0.901

Lamp flux(lm): 4560.4

Power (W): 32.012

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 4066.35, Efficiency(%): 89.17% , Luminous Efficacy(lm/W): 127.03

Central intensity(cd): 17456.320, Maximum intensity(cd): 17456.320

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=27.2

[C90/270]Total=27.2

Field angle(10%Imax): [C0/180]Total=43.2

[C90/270]Total=43.2

Maximum s/h(1/2): C0_180=0.46 C90_270=0.46

Maximum s/h(1/4): C0_180=0.43 C90_270=0.43

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 89.17%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.539%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/6/24
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	17456.320	0.000	0	0.00%	0.00%
1.0	17410.568	16.683	16.683	0.37%	0.41%
2.0	17230.287	49.720	66.403	1.09%	1.63%
3.0	16960.551	81.773	148.176	1.79%	3.64%
4.0	16623.209	112.416	260.592	2.47%	6.41%
5.0	16139.730	140.944	401.536	3.09%	9.87%
6.0	15513.530	166.346	567.883	3.65%	13.97%
7.0	14883.233	188.672	756.555	4.14%	18.61%
8.0	14148.455	207.774	964.329	4.56%	23.71%
9.0	13309.197	222.529	1186.858	4.88%	29.19%
10.0	12009.304	229.123	1415.981	5.02%	34.82%
11.0	11308.496	232.993	1648.974	5.11%	40.55%
12.0	10482.425	238.206	1887.18	5.22%	46.41%
13.0	9365.164	235.541	2122.721	5.16%	52.20%
14.0	8208.779	224.945	2347.666	4.93%	57.73%
15.0	7068.429	209.732	2557.398	4.60%	62.89%
16.0	5991.735	191.368	2748.766	4.20%	67.60%
17.0	4876.794	169.252	2918.018	3.71%	71.76%
18.0	4012.952	146.573	3064.591	3.21%	75.36%
19.0	3208.874	125.645	3190.236	2.76%	78.45%
20.0	2539.988	105.220	3295.456	2.31%	81.04%
21.0	2141.206	89.888	3385.345	1.97%	83.25%
22.0	1489.089	72.952	3458.297	1.60%	85.05%
23.0	1204.186	56.512	3514.809	1.24%	86.44%
24.0	958.717	47.289	3562.098	1.04%	87.60%
25.0	746.200	38.766	3600.864	0.85%	88.55%
26.0	586.226	31.452	3632.316	0.69%	89.33%
27.0	457.780	25.542	3657.858	0.56%	89.95%
28.0	363.208	20.786	3678.644	0.46%	90.47%
29.0	301.027	17.378	3696.022	0.38%	90.89%
30.0	259.481	15.134	3711.155	0.33%	91.27%
31.0	242.667	13.974	3725.13	0.31%	91.61%
32.0	208.162	12.916	3738.045	0.28%	91.93%
33.0	178.843	11.401	3749.447	0.25%	92.21%
34.0	161.875	10.311	3759.758	0.23%	92.46%
35.0	148.159	9.628	3769.386	0.21%	92.70%
36.0	137.690	9.101	3778.488	0.20%	92.92%
37.0	129.348	8.709	3787.197	0.19%	93.14%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	122.628	8.411	3795.608	0.18%	93.34%
39.0	118.280	8.223	3803.83	0.18%	93.54%
40.0	114.807	8.129	3811.96	0.18%	93.74%
41.0	112.546	8.096	3820.056	0.18%	93.94%
42.0	110.208	8.093	3828.149	0.18%	94.14%
43.0	107.373	8.060	3836.208	0.18%	94.34%
44.0	104.899	8.012	3844.22	0.18%	94.54%
45.0	102.909	7.986	3852.207	0.18%	94.73%
46.0	101.227	7.983	3860.19	0.18%	94.93%
47.0	99.668	7.990	3868.18	0.18%	95.13%
48.0	97.890	7.986	3876.166	0.18%	95.32%
49.0	95.925	7.959	3884.125	0.17%	95.52%
50.0	94.405	7.936	3892.061	0.17%	95.71%
51.0	93.110	7.933	3899.994	0.17%	95.91%
52.0	91.834	7.936	3907.931	0.17%	96.10%
53.0	90.153	7.916	3915.847	0.17%	96.30%
54.0	87.718	7.840	3923.687	0.17%	96.49%
55.0	84.477	7.686	3931.373	0.17%	96.68%
56.0	81.114	7.483	3938.856	0.16%	96.86%
57.0	77.616	7.258	3946.113	0.16%	97.04%
58.0	74.079	7.015	3953.128	0.15%	97.22%
59.0	69.712	6.722	3959.851	0.15%	97.38%
60.0	65.898	6.407	3966.257	0.14%	97.54%
61.0	61.929	6.100	3972.357	0.13%	97.69%
62.0	57.729	5.766	3978.123	0.13%	97.83%
63.0	54.443	5.456	3983.579	0.12%	97.96%
64.0	51.132	5.181	3988.759	0.11%	98.09%
65.0	48.240	4.918	3993.677	0.11%	98.21%
66.0	45.959	4.700	3998.377	0.10%	98.33%
67.0	43.788	4.513	4002.89	0.10%	98.44%
68.0	42.293	4.361	4007.251	0.10%	98.55%
69.0	40.966	4.248	4011.498	0.09%	98.65%
70.0	40.580	4.188	4015.686	0.09%	98.75%
71.0	40.464	4.189	4019.875	0.09%	98.86%
72.0	39.465	4.156	4024.031	0.09%	98.96%
73.0	38.132	4.058	4028.089	0.09%	99.06%
74.0	36.618	3.930	4032.018	0.09%	99.16%
75.0	34.453	3.755	4035.774	0.08%	99.25%

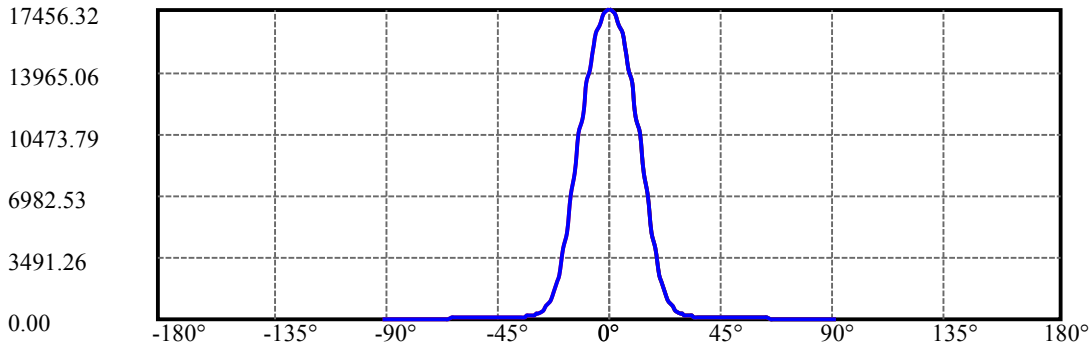
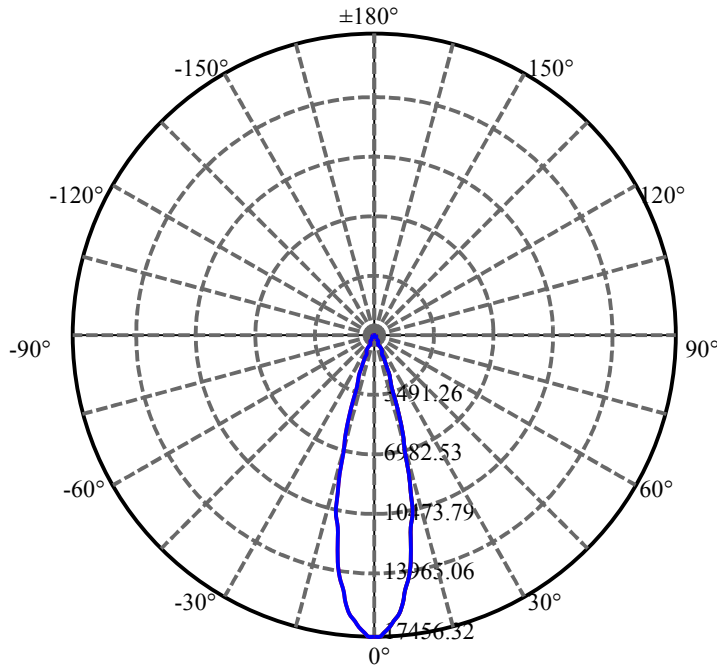
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	31.915	3.523	4039.297	0.08%	99.33%
77.0	29.699	3.285	4042.582	0.07%	99.42%
78.0	27.959	3.086	4045.668	0.07%	99.49%
79.0	26.033	2.901	4048.569	0.06%	99.56%
80.0	23.585	2.675	4051.244	0.06%	99.63%
81.0	21.182	2.421	4053.665	0.05%	99.69%
82.0	18.521	2.153	4055.818	0.05%	99.74%
83.0	16.241	1.890	4057.708	0.04%	99.79%
84.0	14.315	1.665	4059.372	0.04%	99.83%
85.0	12.981	1.490	4060.862	0.03%	99.87%
86.0	11.564	1.342	4062.204	0.03%	99.90%
87.0	10.456	1.205	4063.409	0.03%	99.93%
88.0	9.393	1.087	4064.496	0.02%	99.95%
89.0	8.362	0.973	4065.469	0.02%	99.98%
90.0	7.615	0.876	4066.345	0.02%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3711.16	81.38%	91.27%
0-40	3811.96	83.59%	93.74%
0-60	3966.26	86.97%	97.54%
0-90	4065.47	89.15%	99.98%
0-120	4065.47	89.15%	99.98%
0-180	4066.35	89.17%	100.00%
60-90	99.21	2.18%	2.44%
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%
0-19.60	3253.08	71.33%	80.00%

ZONAL LUMEN SUMMARY

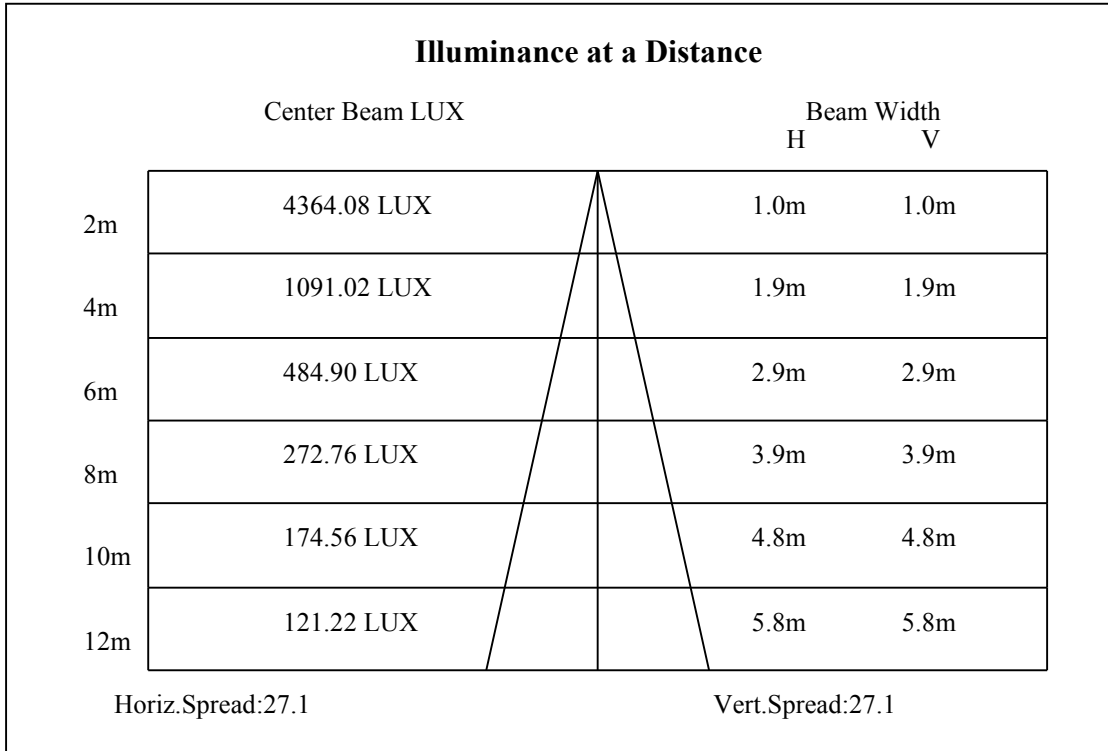
0-10	1415.98
10-20	1879.47
20-30	415.70
30-40	100.80
40-50	80.10
50-60	74.20
60-70	49.43
70-80	35.56
80-90	14.23
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

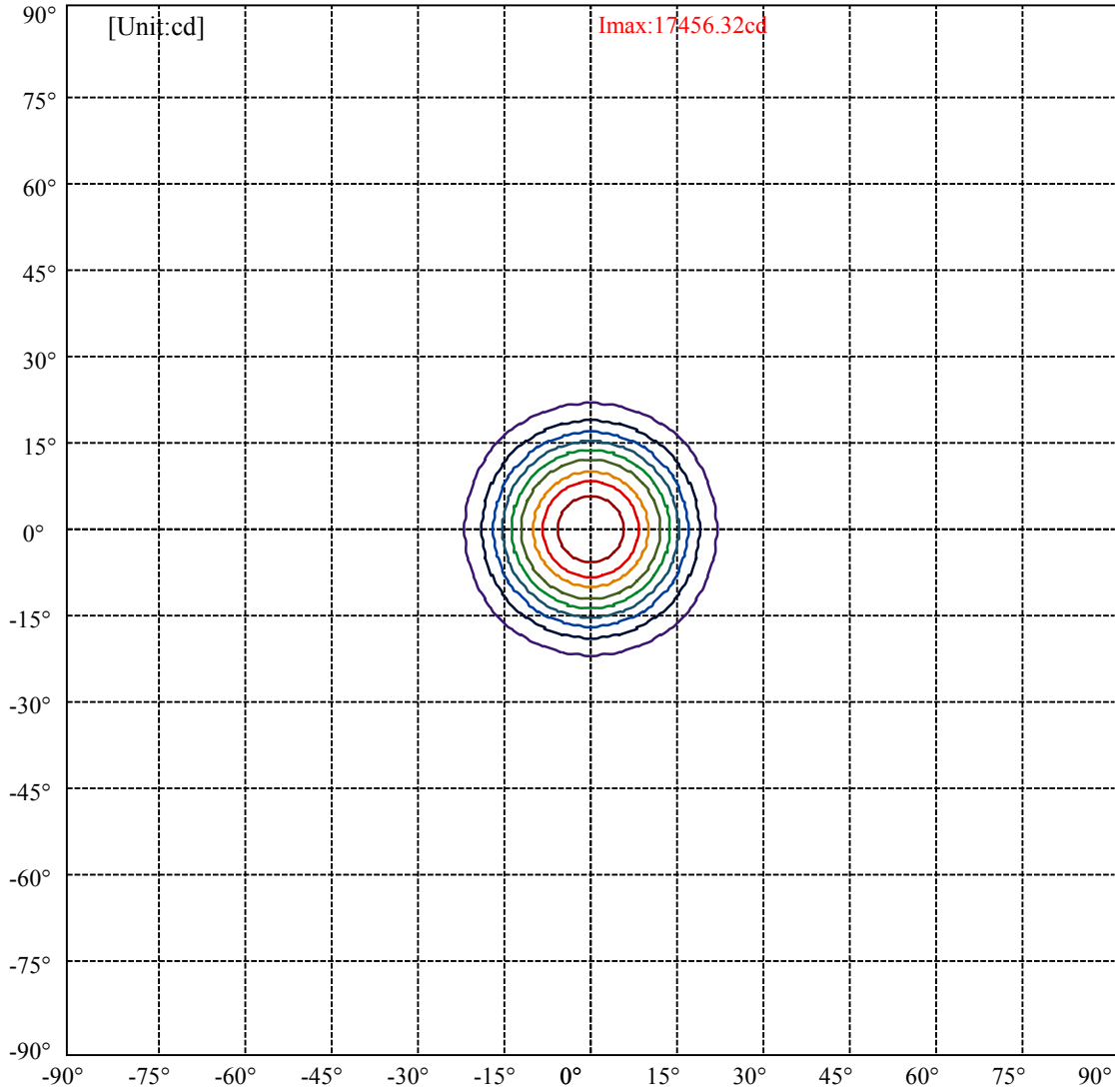


C0(Max): —————
C0/C180: —————
C90/C270: —————

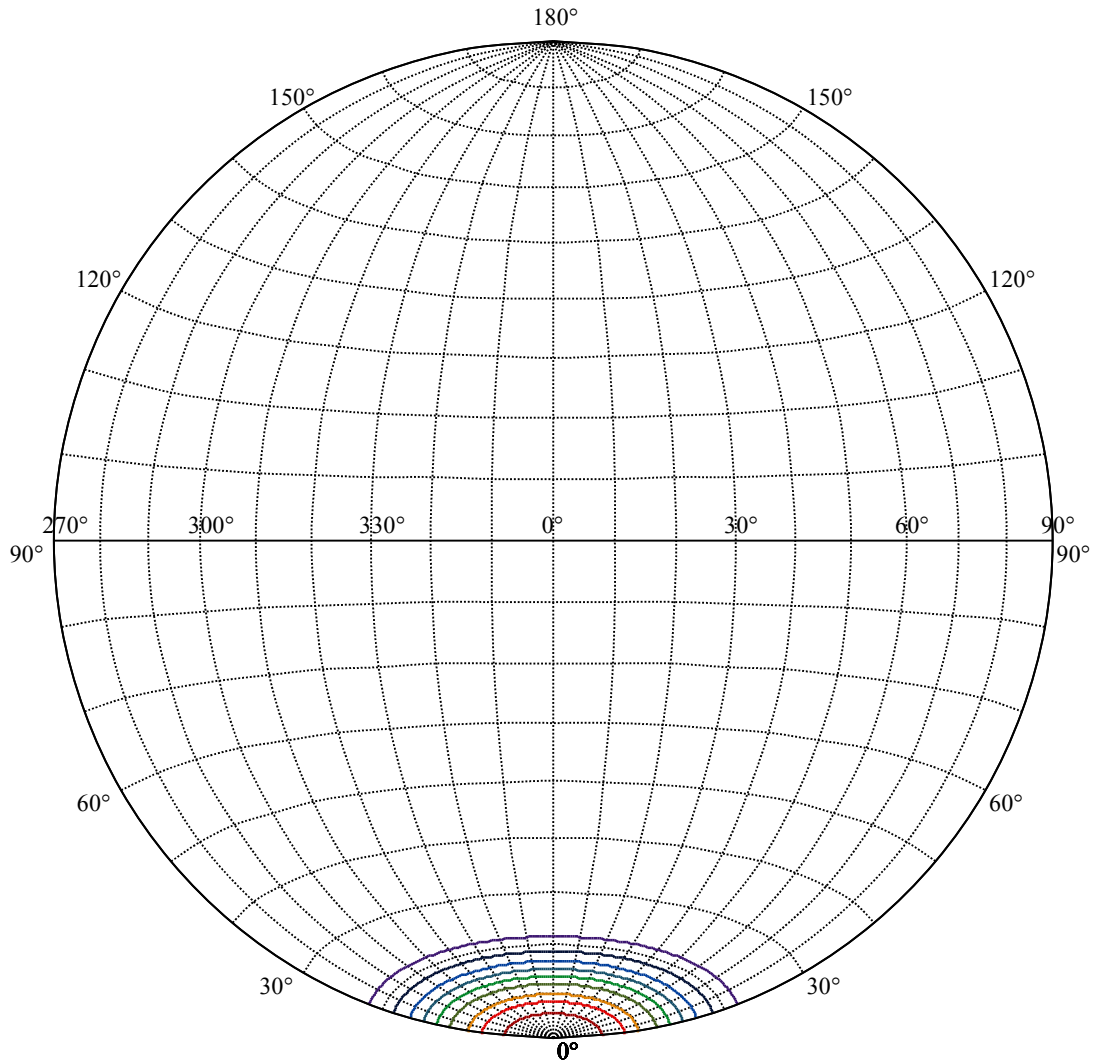
Field angle(10%Imax):C0/180Left:21.6 Right:21.6
:C90/270Left:21.6 Right:21.6

Beam Angle(50%Imax):C0/180Left:13.6 Right:13.6
:C90/270Left:13.6 Right:13.6





(10%Imax) 1745.63	—
(20%Imax) 3491.26	—
(30%Imax) 5236.9	—
(40%Imax) 6982.53	—
(50%Imax) 8728.16	—
(60%Imax) 10473.8	—
(70%Imax) 12219.4	—
(80%Imax) 13965.1	—
(90%Imax) 15710.7	—



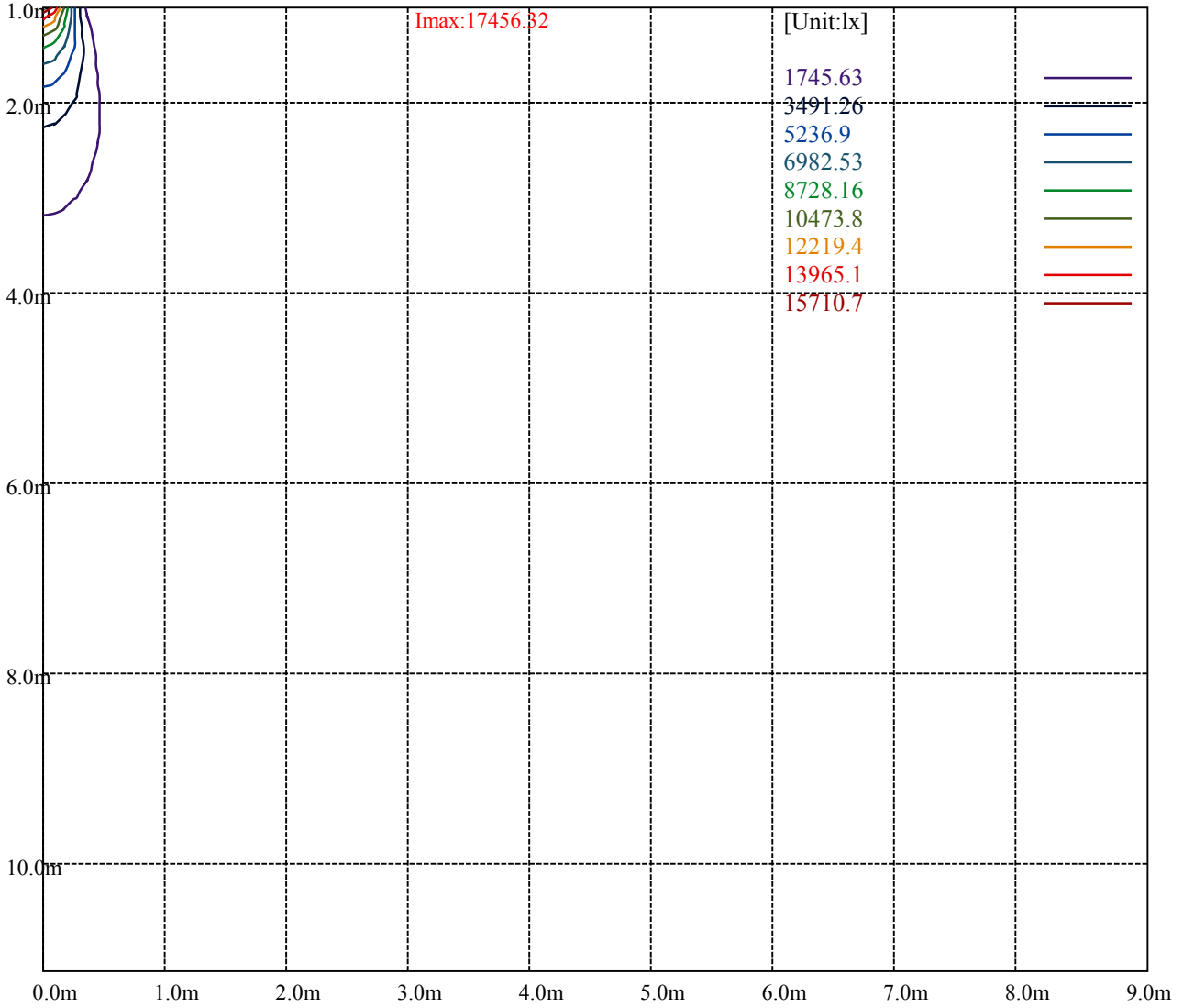
House

[Unit:cd]

Road

Imax:17456.32

(10%Imax) 1745.63	—
(20%Imax) 3491.26	—
(30%Imax) 5236.9	—
(40%Imax) 6982.53	—
(50%Imax) 8728.16	—
(60%Imax) 10473.8	—
(70%Imax) 12219.4	—
(80%Imax) 13965.1	—
(90%Imax) 15710.7	—



Luminance Table

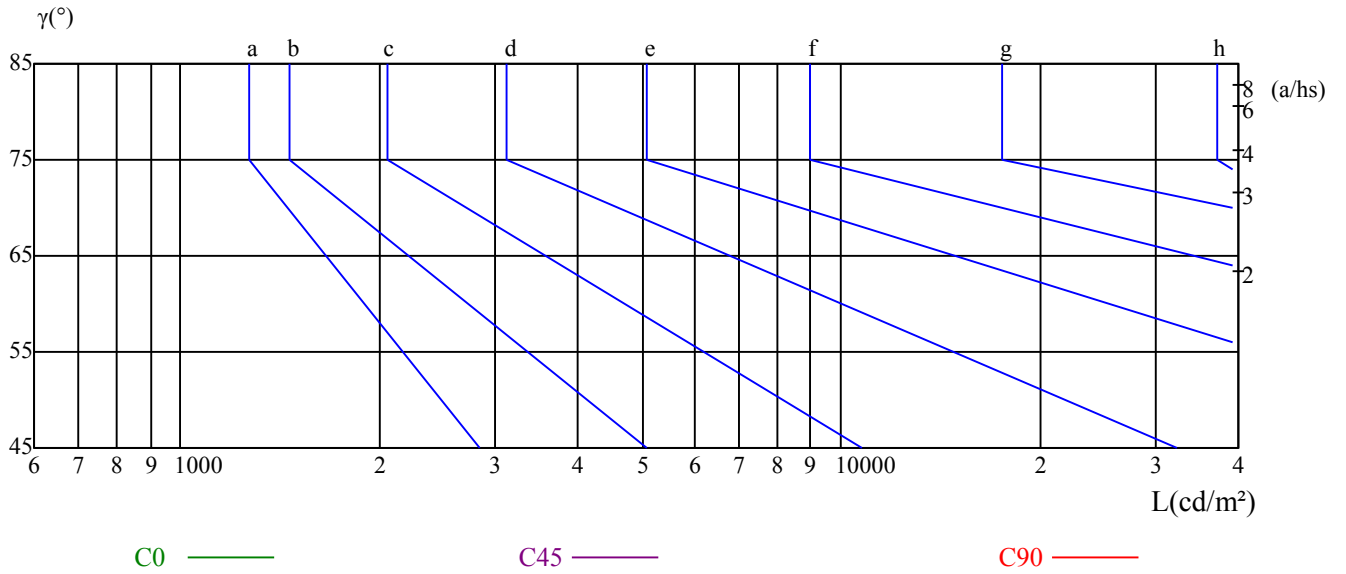
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

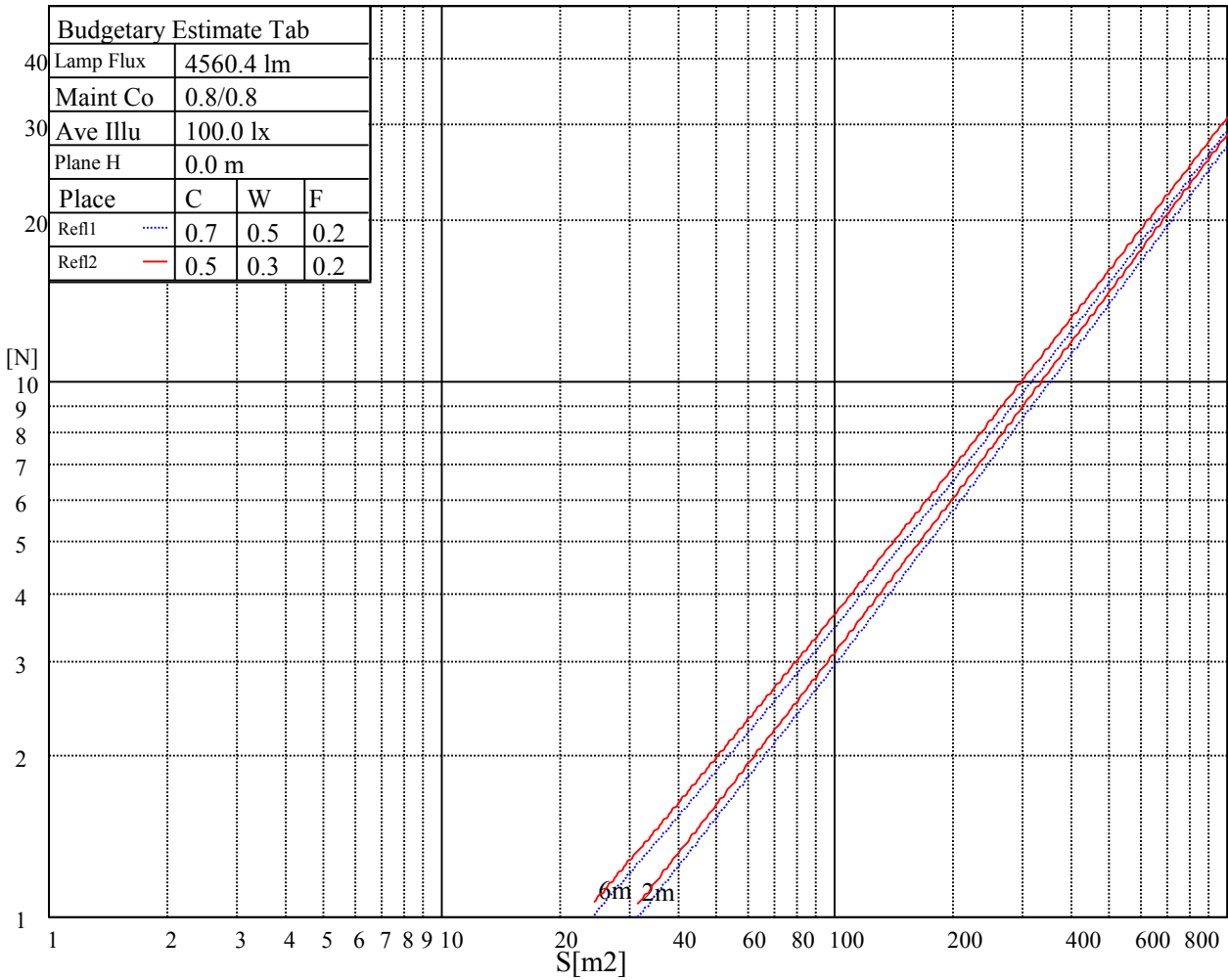
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

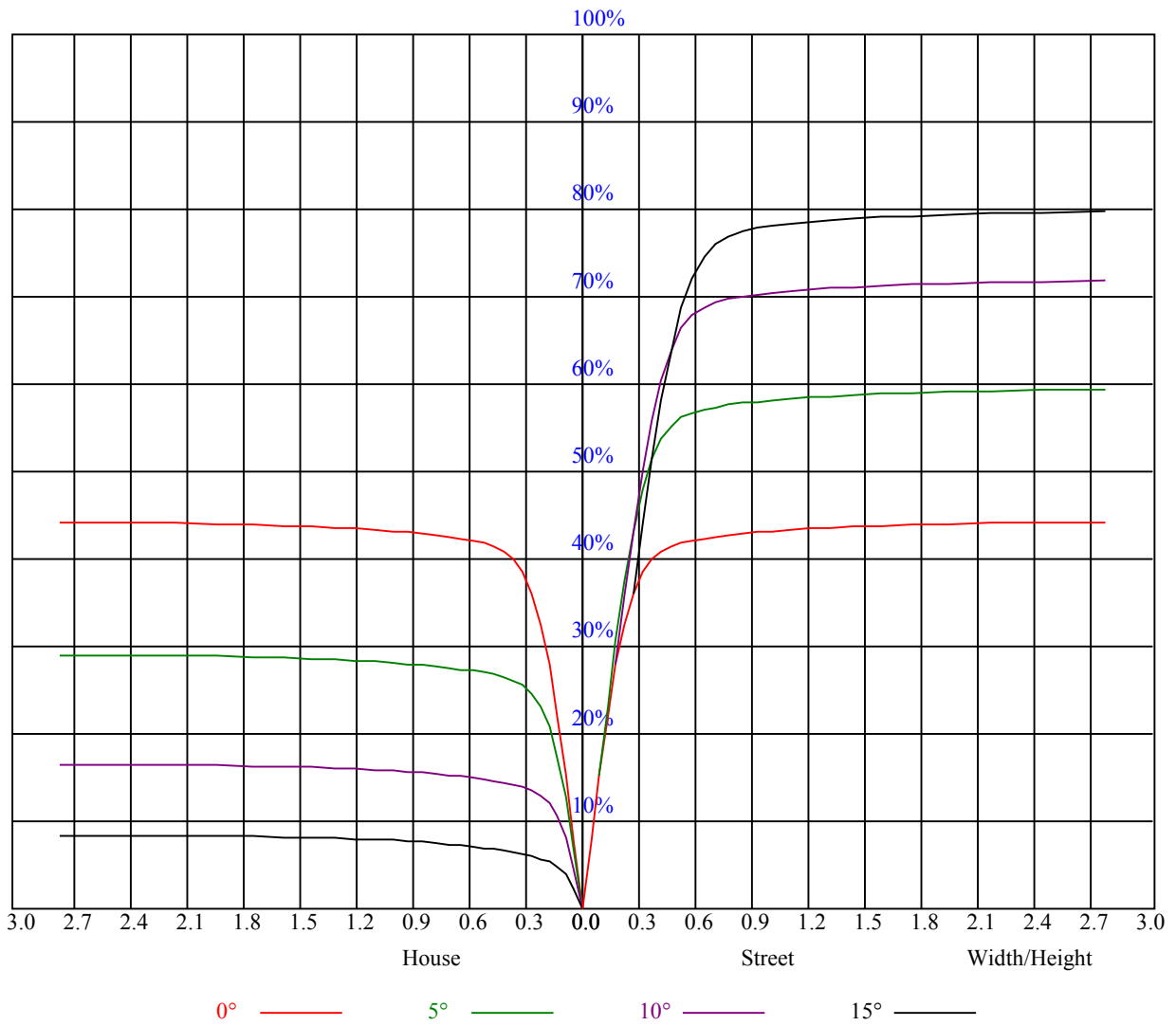


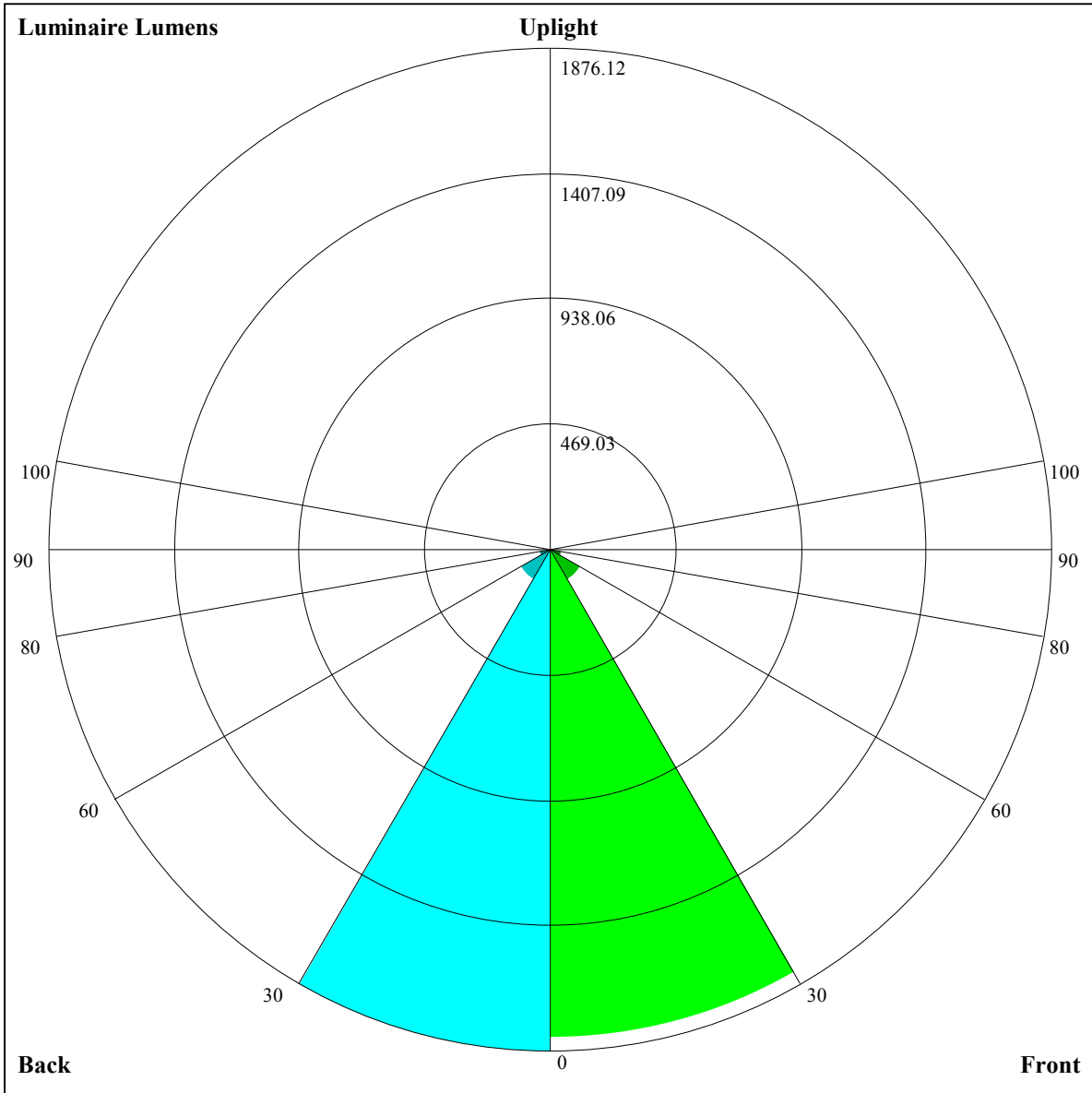
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.85
2	0.95	0.92	0.90	0.93	0.91	0.89	0.91	0.88	0.87	0.88	0.86	0.85	0.86	0.84	0.83	0.82
3	0.91	0.87	0.84	0.89	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.79
4	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.79	0.76	0.75	0.74
6	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
8	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.67
9	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.66
10	0.71	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.64





Luminaire Lumens:

FL=1824.35,FM=126.17,FH=41.92,FVH=7.56

BL=1876.12,BM=127.33,BH=42.44,BVH=7.56

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	17381.20	17370.28	17217.31	17009.72	16758.42	16152.02	15660.35	15053.95	14316.44
45.0	17468.61	17419.45	17266.48	17042.50	16731.10	16490.73	15671.28	15245.16	14562.28
90.0	17446.76	17195.46	16884.07	16512.58	16113.78	15512.85	14633.30	13994.12	13212.91
135.0	17528.71	17501.39	17315.65	17042.50	16731.10	16283.13	15758.68	15108.58	14338.30
180.0	17381.20	17304.72	17140.83	16867.68	16457.95	15960.82	15403.59	14709.78	13950.42
225.0	17468.61	17424.91	17184.54	16834.90	16474.34	15933.50	15261.55	14540.43	13841.16
270.0	17446.76	17605.19	17556.02	17408.52	17179.07	16818.51	16332.30	15725.91	15103.12
315.0	17528.71	17463.15	17277.41	16966.01	16539.90	15966.28	15387.20	14687.93	13863.01
360.0	17381.20	17370.28	17217.31	17009.72	16758.42	16152.02	15660.35	15053.95	14316.44
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	13486.06	12316.97	10878.80	10412.85	9236.65	8021.69	6803.95	5581.88	4475.05
45.0	13486.06	12956.15	12005.58	10989.46	9880.46	8705.91	7536.82	6400.51	5302.44
90.0	12120.30	10744.44	10296.48	9218.09	8130.95	7036.69	5977.38	4910.44	3951.68
135.0	13846.62	12710.31	11825.30	11229.83	10197.32	9159.34	8121.36	7088.85	6083.65
180.0	13180.13	12316.97	11350.02	10306.58	9246.75	8165.07	7110.70	6487.92	5045.68
225.0	13010.78	10618.79	10618.79	10189.95	9047.61	7888.93	6788.64	5699.33	4642.75
270.0	14371.07	13557.08	12639.29	11634.09	10503.25	9279.53	8077.66	6848.48	5652.07
315.0	12972.54	10853.71	10853.71	9878.55	8678.34	7413.08	6130.91	4916.47	3861.02
360.0	13486.06	12316.97	10878.80	10412.85	9236.65	8021.69	6803.95	5581.88	4475.05
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3539.22	2794.65	2207.37	1739.72	1084.00	1084.00	884.39	679.32	523.52
45.0	4280.85	3390.38	2800.37	2800.37	1763.22	1394.98	992.93	848.68	654.22
90.0	3096.71	2663.54	1878.46	1070.91	977.57	977.57	770.80	599.95	471.52
135.0	5067.53	4089.65	3188.25	2865.93	2153.26	1363.85	1177.03	845.95	666.23
180.0	4444.74	3521.49	3024.36	3024.36	1633.76	1279.74	1013.13	801.16	630.16
225.0	3679.66	2869.48	2228.66	1733.17	990.05	990.05	855.69	662.37	567.69
270.0	4969.19	3958.53	3111.76	2822.22	2292.57	1525.01	1192.85	930.11	711.02
315.0	3025.70	2383.27	1880.67	1072.97	1018.29	1018.29	782.91	602.07	465.44
360.0	3539.22	2794.65	2207.37	1739.72	1084.00	1084.00	884.39	679.32	523.52
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	414.31	333.45	281.09	243.93	216.67	193.68	175.02	160.28	148.48
45.0	499.04	387.05	310.57	285.98	276.71	203.37	181.67	163.53	149.05
90.0	377.10	309.33	262.12	227.03	200.28	178.01	160.08	145.29	132.14
135.0	578.26	420.40	370.15	302.94	281.09	271.81	195.23	173.94	157.14
180.0	500.69	404.57	331.34	281.66	281.66	244.86	203.52	183.68	168.07
225.0	390.30	338.30	275.32	234.24	208.73	186.36	165.90	149.25	136.58
270.0	536.77	414.37	323.71	277.79	277.79	209.71	188.01	170.64	155.03
315.0	365.77	298.20	253.93	222.28	198.42	177.50	161.31	148.38	138.79
360.0	414.31	333.45	281.09	243.93	216.67	193.68	175.02	160.28	148.48
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	139.98	133.69	128.74	126.94	123.43	121.01	116.68	113.28	110.60
45.0	137.97	130.49	122.30	118.49	116.17	115.39	113.28	109.93	107.56
90.0	125.96	117.76	113.54	112.10	110.50	109.62	108.08	102.72	99.47
135.0	144.25	134.21	125.96	119.72	115.08	112.66	110.34	107.56	104.73
180.0	154.77	143.95	135.85	130.13	125.39	122.56	120.39	117.61	113.90
225.0	126.11	117.92	111.53	107.20	104.73	102.56	100.50	98.90	98.28
270.0	141.88	132.87	124.88	118.02	113.07	109.16	106.58	104.31	101.74
315.0	130.60	123.90	118.23	113.64	110.09	107.41	105.81	104.67	102.92
360.0	139.98	133.69	128.74	126.94	123.43	121.01	116.68	113.28	110.60

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	109.16	108.02	106.58	104.31	102.56	101.43	100.45	98.49	95.91
45.0	105.24	104.00	102.41	100.96	99.31	97.36	96.17	94.68	93.13
90.0	98.39	97.66	94.83	92.87	90.29	87.00	85.76	86.69	85.24
135.0	101.63	99.52	98.44	96.48	94.52	93.03	90.91	89.73	88.85
180.0	110.34	106.63	104.26	103.18	100.09	98.59	96.84	94.68	93.75
225.0	96.17	93.90	92.87	91.43	89.68	88.59	88.49	86.79	84.37
270.0	100.29	99.26	98.33	95.45	94.01	93.70	92.82	92.25	91.27
315.0	102.05	100.81	99.62	98.44	96.94	95.55	93.44	91.38	88.70
360.0	109.16	108.02	106.58	104.31	102.56	101.43	100.45	98.49	95.91
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	92.36	88.23	84.32	80.30	75.50	70.61	67.82	61.33	58.86
45.0	91.12	87.72	84.06	80.50	78.23	73.03	68.44	65.97	61.23
90.0	82.41	78.49	74.73	72.00	68.91	64.73	62.21	58.55	53.81
135.0	86.94	85.24	82.82	79.57	76.74	73.44	69.68	65.87	62.15
180.0	91.69	88.85	85.91	82.56	79.37	75.55	71.23	66.74	62.41
225.0	83.18	79.73	76.33	73.08	69.42	64.83	61.33	57.21	52.88
270.0	88.80	86.07	83.29	79.78	75.81	71.53	66.90	62.88	58.86
315.0	85.24	81.48	77.46	73.13	68.65	63.96	59.58	56.90	51.64
360.0	92.36	88.23	84.32	80.30	75.50	70.61	67.82	61.33	58.86
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	55.09	51.74	48.91	46.64	44.63	42.88	41.80	42.26	43.76
45.0	57.21	53.81	50.46	47.83	45.61	43.86	42.42	41.75	42.73
90.0	51.80	49.01	46.64	44.84	43.14	41.80	40.56	40.10	39.53
135.0	59.53	54.53	52.67	49.53	46.08	44.79	42.52	40.46	38.91
180.0	58.39	54.99	51.74	49.06	46.69	44.68	43.24	41.33	40.61
225.0	50.25	46.75	44.07	42.06	39.89	38.86	37.00	38.65	39.38
270.0	54.94	51.59	48.24	45.61	43.65	41.85	40.15	38.24	38.45
315.0	48.34	46.64	43.19	42.11	40.61	39.63	40.05	41.85	40.35
360.0	55.09	51.74	48.91	46.64	44.63	42.88	41.80	42.26	43.76
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	42.00	40.61	38.91	37.16	35.72	33.76	31.90	28.76	26.59
45.0	41.80	41.08	39.22	36.70	34.07	32.98	32.62	31.49	27.83
90.0	38.91	37.52	35.77	33.65	32.47	32.11	30.82	27.73	24.58
135.0	38.09	37.16	37.00	38.60	37.31	34.74	33.14	32.31	30.15
180.0	41.59	40.10	40.25	38.91	36.70	34.43	33.14	31.85	28.86
225.0	38.09	36.85	35.46	32.21	27.68	23.71	21.03	19.07	17.37
270.0	36.33	35.66	32.78	28.66	25.87	23.66	21.54	19.58	17.78
315.0	38.91	36.08	33.55	29.74	25.51	22.21	19.48	17.47	15.51
360.0	42.00	40.61	38.91	37.16	35.72	33.76	31.90	28.76	26.59
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	23.81	21.03	17.52	14.84	13.40	11.80	10.77	9.69	8.76
45.0	24.84	22.06	20.20	18.09	16.75	14.53	13.09	11.60	9.95
90.0	22.47	20.56	18.45	16.23	14.95	13.09	12.06	11.13	10.46
135.0	26.75	22.16	18.19	15.82	14.07	12.94	11.75	10.62	9.43
180.0	25.20	20.56	17.21	14.64	13.19	11.85	10.67	9.48	8.56
225.0	15.93	14.22	13.25	12.16	10.98	9.90	8.76	7.94	6.65
270.0	16.23	14.43	13.14	11.75	10.62	9.53	8.66	7.68	6.80
315.0	14.22	13.14	11.96	10.98	9.90	8.86	7.89	7.01	6.29
360.0	23.81	21.03	17.52	14.84	13.40	11.80	10.77	9.69	8.76

Intensity data(cd)

C/γ(°)	90.0
0.0	8.14
45.0	8.81
90.0	10.15
135.0	8.14
180.0	7.47
225.0	6.13
270.0	5.82
315.0	6.24
360.0	8.14