

Client:

LumCAT: MR8 2.5W

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 12.004

LampCAT:

Current(A): 0.218

Lamp flux(lm): 159.1

Power (W): 1.990

Number of Lamps: 1

PF: 0.760

Length(mm): -20

Width(mm): -20

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 159.07, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 79.93

Central intensity(cd): 638.140, Maximum intensity(cd): 638.140

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=26.0

[C90/270]Total=25.6

Field angle(10%Imax): [C0/180]Total=47.6

[C90/270]Total=46.0

Maximum s/h(1/2): C0_180=0.44 C90_270=0.43

Maximum s/h(1/4): C0_180=0.44 C90_270=0.43

Up flux rate of lamp(%): 0.10%

Down flux rate of lamp(%): 99.90%

Up flux rate of LUM(%): 0.10%

Down flux rate of LUM(%): 99.90%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.284%

MR8 2.5W

Zonal flux distribution table

Appendix Page: 2 Total:24

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	638.140	0.000	0	0.00%	0.00%
1.0	635.696	0.610	0.61	0.38%	0.38%
2.0	628.107	1.814	2.423	1.14%	1.52%
3.0	615.430	2.974	5.398	1.87%	3.39%
4.0	598.029	4.062	9.459	2.55%	5.95%
5.0	577.181	5.056	14.515	3.18%	9.12%
6.0	549.984	5.924	20.439	3.72%	12.85%
7.0	521.371	6.650	27.089	4.18%	17.03%
8.0	489.044	7.231	34.32	4.55%	21.58%
9.0	455.808	7.658	41.977	4.81%	26.39%
10.0	419.667	7.923	49.9	4.98%	31.37%
11.0	387.212	8.062	57.962	5.07%	36.44%
12.0	351.408	8.074	66.037	5.08%	41.51%
13.0	314.834	7.907	73.943	4.97%	46.48%
14.0	280.112	7.615	81.559	4.79%	51.27%
15.0	245.555	7.217	88.775	4.54%	55.81%
16.0	213.885	6.732	95.507	4.23%	60.04%
17.0	185.324	6.217	101.724	3.91%	63.95%
18.0	158.915	5.676	107.4	3.57%	67.52%
19.0	135.683	5.125	112.525	3.22%	70.74%
20.0	114.498	4.579	117.104	2.88%	73.62%
21.0	95.948	4.041	121.145	2.54%	76.16%
22.0	80.267	3.541	124.686	2.23%	78.38%
23.0	67.368	3.098	127.784	1.95%	80.33%
24.0	56.013	2.698	130.482	1.70%	82.03%
25.0	46.979	2.342	132.823	1.47%	83.50%
26.0	39.105	2.032	134.855	1.28%	84.78%
27.0	32.841	1.760	136.616	1.11%	85.88%
28.0	27.599	1.530	138.146	0.96%	86.85%
29.0	23.461	1.336	139.482	0.84%	87.69%
30.0	20.285	1.181	140.663	0.74%	88.43%
31.0	17.720	1.058	141.72	0.66%	89.09%
32.0	15.812	0.961	142.681	0.60%	89.70%
33.0	14.198	0.884	143.565	0.56%	90.25%
34.0	12.951	0.822	144.387	0.52%	90.77%
35.0	11.873	0.771	145.158	0.48%	91.25%
36.0	11.006	0.728	145.886	0.46%	91.71%
37.0	10.169	0.691	146.577	0.43%	92.15%

MR8 2.5W

Zonal flux distribution table

Appendix Page: 3 Total:24

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	9.459	0.655	147.232	0.41%	92.56%
39.0	8.790	0.623	147.855	0.39%	92.95%
40.0	8.272	0.595	148.45	0.37%	93.32%
41.0	7.773	0.571	149.021	0.36%	93.68%
42.0	7.341	0.549	149.57	0.35%	94.03%
43.0	6.928	0.529	150.099	0.33%	94.36%
44.0	6.586	0.510	150.609	0.32%	94.68%
45.0	6.237	0.493	151.102	0.31%	94.99%
46.0	5.843	0.472	151.574	0.30%	95.29%
47.0	5.494	0.451	152.025	0.28%	95.57%
48.0	5.178	0.431	152.457	0.27%	95.84%
49.0	4.848	0.412	152.868	0.26%	96.10%
50.0	4.570	0.393	153.261	0.25%	96.35%
51.0	4.314	0.376	153.637	0.24%	96.58%
52.0	4.100	0.361	153.998	0.23%	96.81%
53.0	3.845	0.346	154.344	0.22%	97.03%
54.0	3.620	0.329	154.673	0.21%	97.24%
55.0	3.398	0.313	154.986	0.20%	97.43%
56.0	3.177	0.297	155.283	0.19%	97.62%
57.0	3.000	0.282	155.565	0.18%	97.80%
58.0	2.828	0.269	155.835	0.17%	97.97%
59.0	2.700	0.258	156.093	0.16%	98.13%
60.0	2.531	0.247	156.34	0.16%	98.28%
61.0	2.399	0.235	156.576	0.15%	98.43%
62.0	2.227	0.223	156.799	0.14%	98.57%
63.0	1.968	0.204	157.003	0.13%	98.70%
64.0	1.953	0.192	157.195	0.12%	98.82%
65.0	1.799	0.186	157.381	0.12%	98.94%
66.0	1.660	0.173	157.553	0.11%	99.05%
67.0	1.528	0.160	157.713	0.10%	99.15%
68.0	1.389	0.148	157.861	0.09%	99.24%
69.0	1.284	0.136	157.998	0.09%	99.33%
70.0	1.183	0.127	158.124	0.08%	99.41%
71.0	1.051	0.115	158.24	0.07%	99.48%
72.0	0.920	0.103	158.342	0.06%	99.54%
73.0	0.856	0.093	158.435	0.06%	99.60%
74.0	0.762	0.085	158.52	0.05%	99.65%
75.0	0.683	0.076	158.597	0.05%	99.70%

MR8 2.5W

Zonal flux distribution table

Appendix Page: 4 Total:24

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	0.597	0.068	158.665	0.04%	99.75%
77.0	0.526	0.060	158.725	0.04%	99.78%
78.0	0.409	0.050	158.775	0.03%	99.81%
79.0	0.349	0.041	158.815	0.03%	99.84%
80.0	0.270	0.033	158.849	0.02%	99.86%
81.0	0.203	0.026	158.874	0.02%	99.88%
82.0	0.101	0.016	158.891	0.01%	99.89%
83.0	0.060	0.009	158.9	0.01%	99.89%
84.0	0.019	0.004	158.904	0.00%	99.90%
85.0	0.008	0.001	158.905	0.00%	99.90%
86.0	0.000	0.000	158.906	0.00%	99.90%
87.0	0.000	0.000	158.906	0.00%	99.90%
88.0	0.000	0.000	158.906	0.00%	99.90%
89.0	0.000	0.000	158.906	0.00%	99.90%
90.0	0.000	0.000	158.906	0.00%	99.90%
91.0	0.000	0.000	158.906	0.00%	99.90%
92.0	0.000	0.000	158.906	0.00%	99.90%
93.0	0.000	0.000	158.906	0.00%	99.90%
94.0	0.000	0.000	158.906	0.00%	99.90%
95.0	0.000	0.000	158.906	0.00%	99.90%
96.0	0.000	0.000	158.906	0.00%	99.90%
97.0	0.000	0.000	158.906	0.00%	99.90%
98.0	0.000	0.000	158.906	0.00%	99.90%
99.0	0.000	0.000	158.906	0.00%	99.90%
100.0	0.000	0.000	158.906	0.00%	99.90%
101.0	0.000	0.000	158.906	0.00%	99.90%
102.0	0.000	0.000	158.906	0.00%	99.90%
103.0	0.000	0.000	158.906	0.00%	99.90%
104.0	0.000	0.000	158.906	0.00%	99.90%
105.0	0.000	0.000	158.906	0.00%	99.90%
106.0	0.000	0.000	158.906	0.00%	99.90%
107.0	0.000	0.000	158.906	0.00%	99.90%
108.0	0.000	0.000	158.906	0.00%	99.90%
109.0	0.000	0.000	158.906	0.00%	99.90%
110.0	0.000	0.000	158.906	0.00%	99.90%
111.0	0.000	0.000	158.906	0.00%	99.90%
112.0	0.000	0.000	158.906	0.00%	99.90%
113.0	0.000	0.000	158.906	0.00%	99.90%

MR8 2.5W

Zonal flux distribution table

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	0.000	0.000	158.906	0.00%	99.90%
115.0	0.000	0.000	158.906	0.00%	99.90%
116.0	0.000	0.000	158.906	0.00%	99.90%
117.0	0.000	0.000	158.906	0.00%	99.90%
118.0	0.000	0.000	158.906	0.00%	99.90%
119.0	0.000	0.000	158.906	0.00%	99.90%
120.0	0.000	0.000	158.906	0.00%	99.90%
121.0	0.000	0.000	158.906	0.00%	99.90%
122.0	0.000	0.000	158.906	0.00%	99.90%
123.0	0.000	0.000	158.906	0.00%	99.90%
124.0	0.000	0.000	158.906	0.00%	99.90%
125.0	0.000	0.000	158.906	0.00%	99.90%
126.0	0.000	0.000	158.906	0.00%	99.90%
127.0	0.000	0.000	158.906	0.00%	99.90%
128.0	0.000	0.000	158.906	0.00%	99.90%
129.0	0.000	0.000	158.906	0.00%	99.90%
130.0	0.000	0.000	158.906	0.00%	99.90%
131.0	0.000	0.000	158.906	0.00%	99.90%
132.0	0.000	0.000	158.906	0.00%	99.90%
133.0	0.000	0.000	158.906	0.00%	99.90%
134.0	0.000	0.000	158.906	0.00%	99.90%
135.0	0.000	0.000	158.906	0.00%	99.90%
136.0	0.000	0.000	158.906	0.00%	99.90%
137.0	0.000	0.000	158.906	0.00%	99.90%
138.0	0.000	0.000	158.906	0.00%	99.90%
139.0	0.000	0.000	158.906	0.00%	99.90%
140.0	0.000	0.000	158.906	0.00%	99.90%
141.0	0.000	0.000	158.906	0.00%	99.90%
142.0	0.000	0.000	158.906	0.00%	99.90%
143.0	0.000	0.000	158.906	0.00%	99.90%
144.0	0.000	0.000	158.906	0.00%	99.90%
145.0	0.000	0.000	158.906	0.00%	99.90%
146.0	0.000	0.000	158.906	0.00%	99.90%
147.0	0.000	0.000	158.906	0.00%	99.90%
148.0	0.000	0.000	158.906	0.00%	99.90%
149.0	0.000	0.000	158.906	0.00%	99.90%
150.0	0.000	0.000	158.906	0.00%	99.90%
151.0	0.000	0.000	158.906	0.00%	99.90%

MR8 2.5W

Zonal flux distribution table

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	0.000	0.000	158.906	0.00%	99.90%
153.0	0.000	0.000	158.906	0.00%	99.90%
154.0	0.004	0.000	158.906	0.00%	99.90%
155.0	0.019	0.001	158.906	0.00%	99.90%
156.0	0.030	0.001	158.907	0.00%	99.90%
157.0	0.045	0.002	158.909	0.00%	99.90%
158.0	0.071	0.002	158.912	0.00%	99.90%
159.0	0.109	0.004	158.915	0.00%	99.90%
160.0	0.150	0.005	158.92	0.00%	99.91%
161.0	0.203	0.006	158.927	0.00%	99.91%
162.0	0.214	0.007	158.934	0.00%	99.91%
163.0	0.285	0.008	158.942	0.01%	99.92%
164.0	0.323	0.009	158.952	0.01%	99.93%
165.0	0.372	0.010	158.962	0.01%	99.93%
166.0	0.406	0.011	158.972	0.01%	99.94%
167.0	0.458	0.011	158.983	0.01%	99.95%
168.0	0.496	0.011	158.995	0.01%	99.95%
169.0	0.526	0.011	159.006	0.01%	99.96%
170.0	0.537	0.011	159.017	0.01%	99.97%
171.0	0.559	0.010	159.026	0.01%	99.97%
172.0	0.563	0.009	159.036	0.01%	99.98%
173.0	0.544	0.008	159.044	0.00%	99.98%
174.0	0.556	0.007	159.05	0.00%	99.99%
175.0	0.563	0.006	159.056	0.00%	99.99%
176.0	0.556	0.005	159.061	0.00%	99.99%
177.0	0.563	0.004	159.065	0.00%	100.00%
178.0	0.575	0.003	159.067	0.00%	100.00%
179.0	0.578	0.002	159.069	0.00%	100.00%
180.0	0.267	0.000	159.07	0.00%	100.00%

MR8 2.5W

Zonal flux distribution table

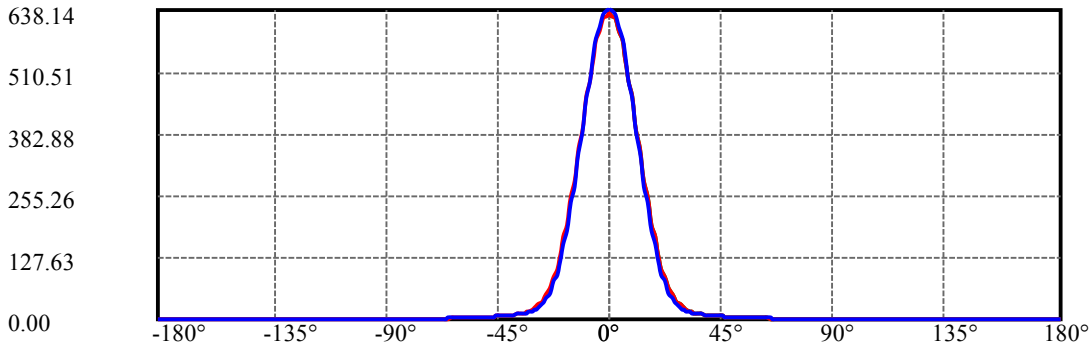
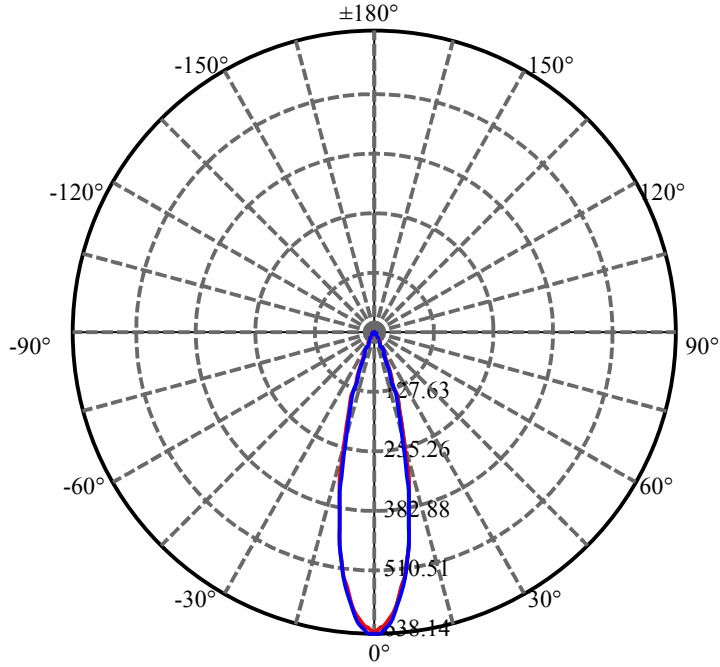
Appendix Page: 7 Total:24

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	140.66	88.43%	88.43%
0-40	148.45	93.32%	93.32%
0-60	156.34	98.28%	98.28%
0-90	158.91	99.90%	99.90%
0-120	158.91	99.90%	99.90%
0-180	159.07	100.00%	100.00%
60-90	2.57	1.61%	1.61%
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	0.16	0.10%	0.10%
0-22.83	127.26	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	49.90
10-20	67.20
20-30	23.56
30-40	7.79
40-50	4.81
50-60	3.08
60-70	1.78
70-80	0.72
80-90	0.06
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	0.01
160-170	0.10
170-180	0.05



C0(Max): ———

C0/C180: ———

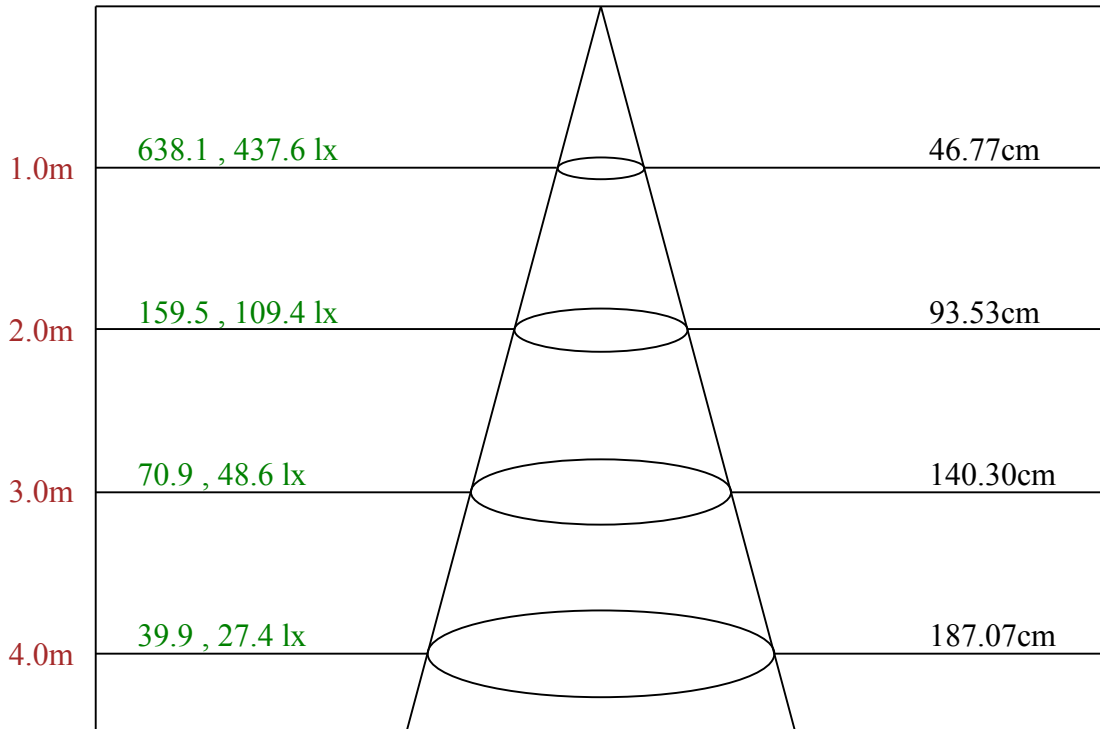
C90/C270: ———

Field angle(10%I_{max}):C0/180Left:23.8 Right:23.8

:C90/270Left:23.0 Right:23.0

Beam Angle(50%I_{max}):C0/180Left:13.0 Right:13.0

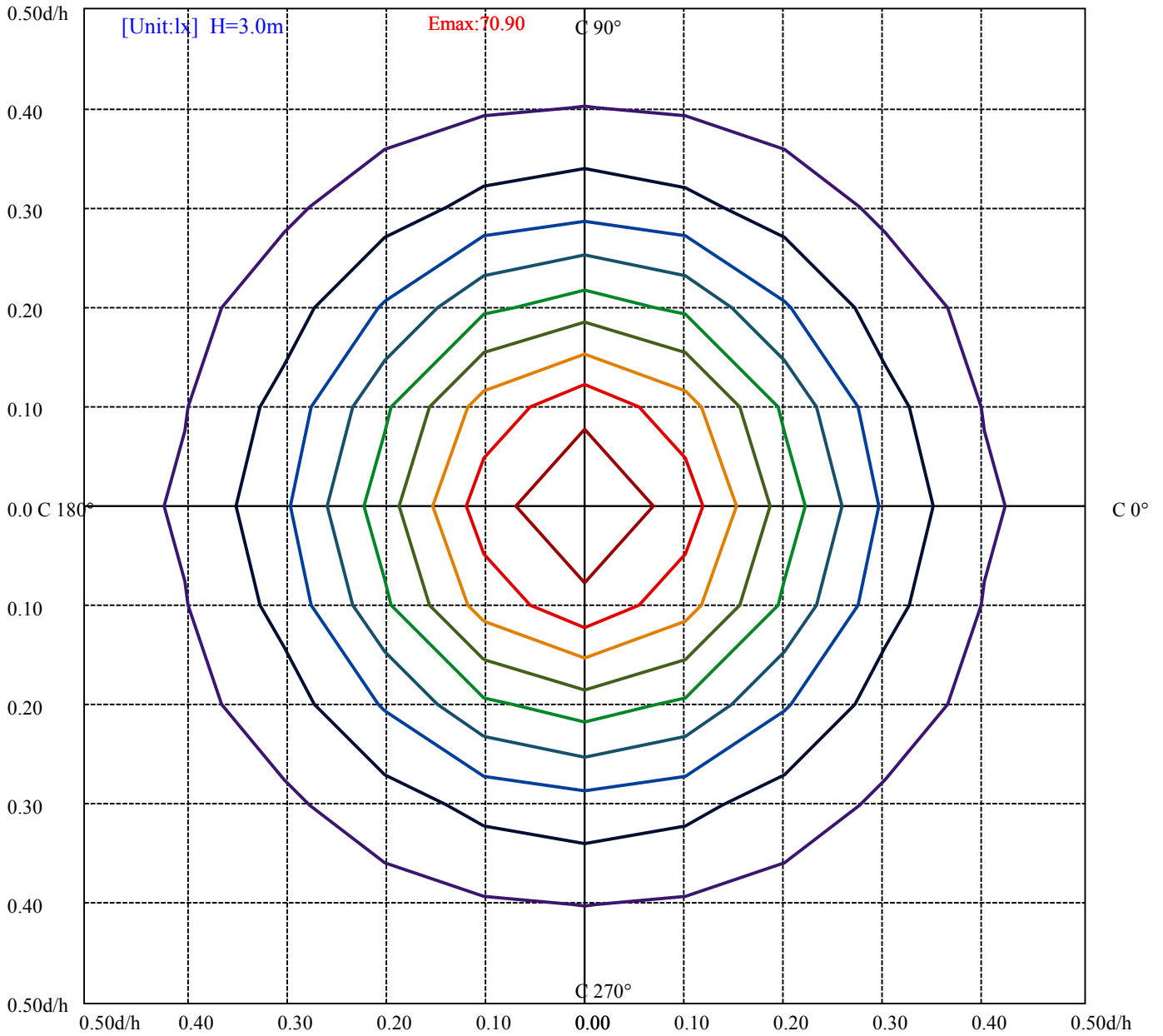
:C90/270Left:12.8 Right:12.8



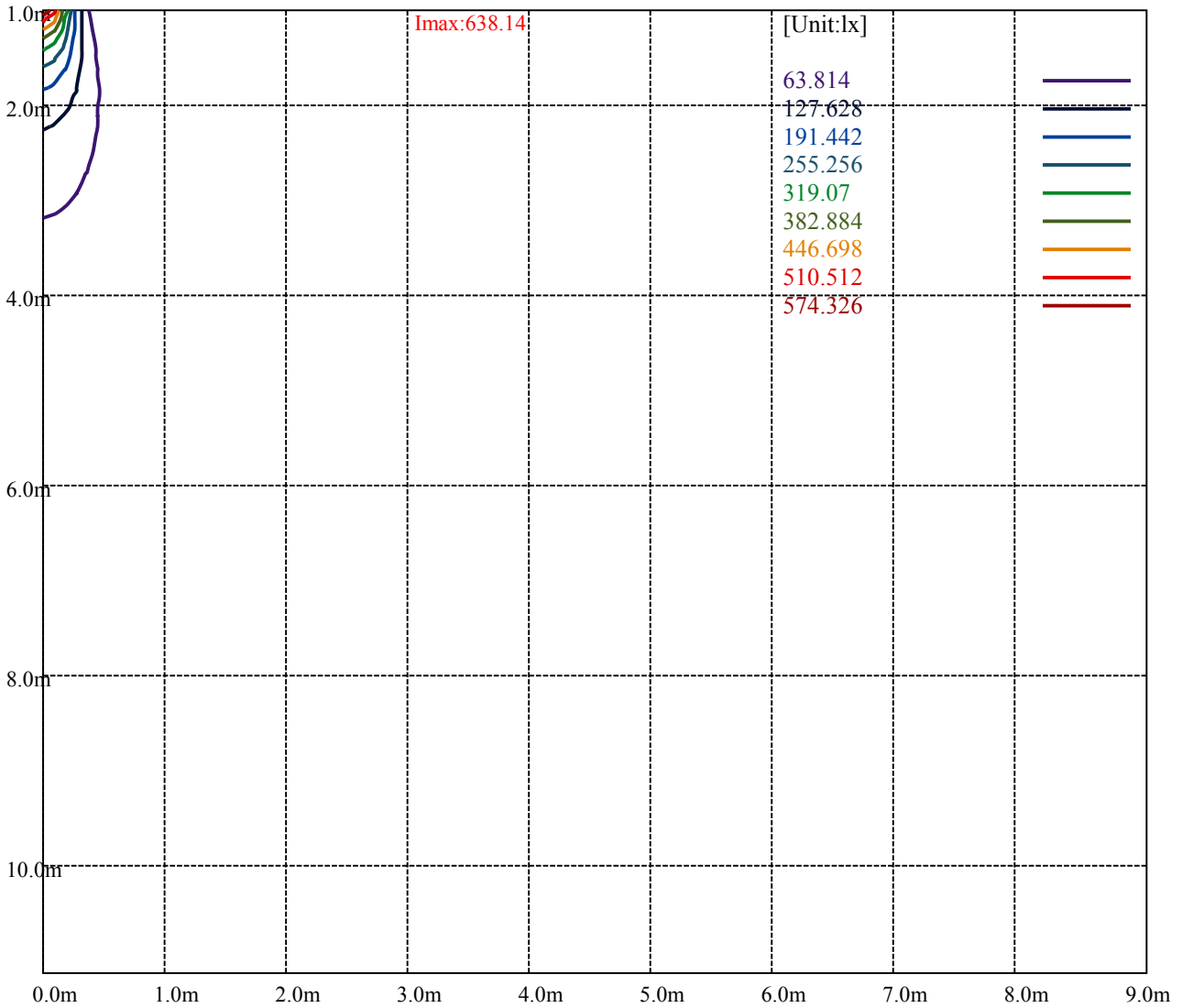
Max , Ave Beam angle of C0 plane 26.32

MR8 2.5W

ISO illuminance diagram



(10%Emax) 7.090445	
(20%Emax) 14.18089	
(30%Emax) 21.27133	
(40%Emax) 28.36178	
(50%Emax) 35.45222	
(60%Emax) 42.54267	
(70%Emax) 49.63311	
(80%Emax) 56.72356	
(90%Emax) 63.814	



MR8 2.5W

Luminance Limiting Curve(no luminous side)

Luminance Table

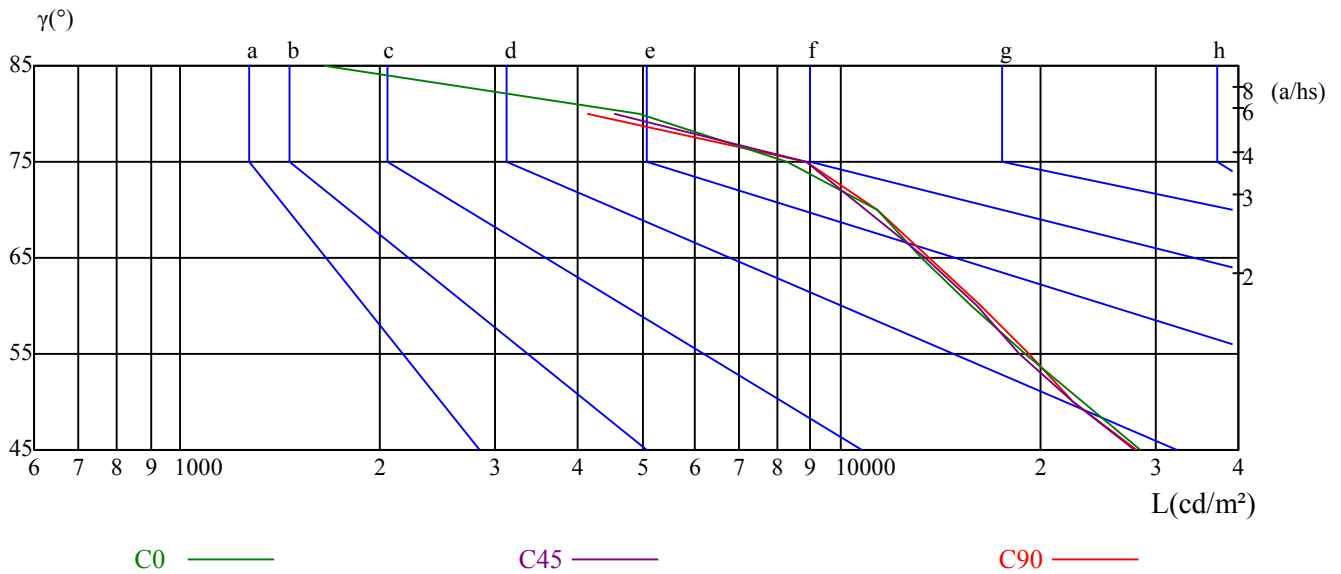
γ	45	50	55	60	65	70	75	80	85
C0	28398	23206	19005	15777	13236	11323	8313	4956	1646
C45	27891	22425	18630	16064	13406	10903	8867	4543	0
C90	27992	22537	19255	16351	13575	11323	8867	4130	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
13236	13575	13406	8313	8867	8867	1646	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



MR8 2.5W

Utilization factor table for indoor luminaire

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.95
2	1.06	1.03	1.00	1.04	1.01	0.99	1.01	0.99	0.97	0.98	0.96	0.95	0.96	0.94	0.93	0.91
3	1.01	0.97	0.94	1.00	0.96	0.93	0.97	0.94	0.91	0.95	0.92	0.90	0.93	0.90	0.89	0.87
4	0.96	0.92	0.89	0.95	0.91	0.88	0.93	0.90	0.87	0.91	0.88	0.86	0.90	0.87	0.85	0.84
5	0.92	0.88	0.84	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.85	0.83	0.87	0.84	0.82	0.81
6	0.89	0.84	0.81	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.79	0.78
7	0.85	0.81	0.78	0.85	0.80	0.77	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.75
8	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.74	0.73
9	0.80	0.75	0.72	0.79	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.71
10	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68

MR8 2.5W

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	638.14	639.76	645.44	646.88	640.12	629.67	611.73	593.62	571.72
15.0	638.14	638.41	641.29	639.49	629.94	615.97	601.28	575.33	551.99
30.0	638.14	637.69	637.24	633.72	620.57	604.80	583.53	561.00	529.64
45.0	638.14	636.52	634.63	627.78	612.91	594.97	571.63	546.31	517.20
60.0	638.14	636.07	631.20	622.01	604.80	586.95	560.46	533.51	502.87
75.0	638.14	636.52	628.77	617.50	598.49	578.93	550.81	522.43	491.24
90.0	638.14	636.43	626.60	613.81	592.63	572.35	547.21	513.14	482.23
105.0	638.14	636.79	626.97	611.19	589.02	566.76	536.39	506.29	470.52
120.0	638.14	637.51	626.97	610.02	587.49	565.05	533.15	503.14	465.47
135.0	638.14	638.14	625.61	610.83	587.76	564.96	534.41	504.40	472.77
150.0	638.14	638.77	627.42	612.19	590.74	568.48	538.83	508.55	476.46
165.0	638.14	638.14	628.23	614.62	594.97	573.79	544.60	515.49	483.40
180.0	638.14	614.71	595.96	570.01	546.04	517.11	476.10	445.10	408.78
195.0	638.14	616.96	599.12	574.88	552.17	521.98	491.51	455.11	417.44
210.0	638.14	620.66	604.71	583.17	561.36	533.87	505.57	469.80	432.76
225.0	638.14	625.97	610.20	592.54	573.52	547.12	515.58	486.11	450.60
240.0	638.14	630.12	620.66	605.79	586.14	565.68	533.78	504.04	466.64
255.0	638.14	635.35	628.14	613.90	598.31	576.23	547.93	519.45	482.41
270.0	638.14	639.76	634.63	623.27	610.02	588.12	564.78	532.52	501.97
285.0	638.14	643.01	639.49	629.67	617.14	595.69	573.16	543.06	514.68
300.0	638.14	645.53	643.01	633.99	620.75	602.18	575.69	550.27	521.80
315.0	638.14	646.88	644.09	632.28	619.12	599.21	575.24	550.99	517.65
330.0	638.14	645.44	639.94	628.68	613.99	593.53	567.85	542.70	510.44
345.0	638.14	641.56	634.26	622.10	604.71	588.93	558.38	530.54	496.38
360.0	638.14	639.76	645.44	646.88	640.12	629.67	611.73	593.62	571.72

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	540.63	505.30	475.65	438.61	404.73	367.15	336.33	298.21	265.67
15.0	519.45	485.93	455.20	417.44	385.26	347.05	314.07	274.33	241.07
30.0	500.80	467.18	438.52	400.22	364.90	322.72	288.02	250.89	221.42
45.0	483.67	448.35	417.53	385.26	346.69	312.27	273.51	236.29	206.83
60.0	468.17	432.04	401.30	369.31	330.47	293.07	260.00	222.96	194.66
75.0	454.39	418.97	386.34	347.50	312.63	273.42	241.43	208.36	182.76
90.0	447.27	409.05	373.91	332.09	298.21	260.36	229.81	196.82	171.32
105.0	439.52	400.67	364.72	329.66	289.02	251.34	221.79	189.70	165.10
120.0	433.57	395.18	361.47	327.50	287.48	254.59	220.79	194.57	165.82
135.0	434.56	395.36	363.18	329.57	293.25	262.43	226.29	197.81	168.07
150.0	438.70	401.76	370.57	337.77	298.75	265.67	228.36	195.47	170.51
165.0	446.36	410.95	379.50	345.25	305.60	266.76	234.22	200.34	174.92
180.0	375.08	335.07	302.17	265.13	233.23	204.30	174.11	150.50	126.26
195.0	386.98	349.85	316.41	280.90	250.17	215.30	187.09	162.04	135.81
210.0	402.12	366.07	333.35	301.00	257.20	231.07	198.62	169.70	147.08
225.0	419.96	383.28	349.85	315.69	277.66	245.94	207.28	185.29	157.44
240.0	436.09	399.95	367.15	328.94	296.68	264.50	228.45	201.15	171.95
255.0	449.79	413.38	381.30	343.99	311.82	281.54	246.57	216.11	183.84
270.0	465.20	428.34	396.44	358.68	326.32	288.02	254.41	224.13	192.59
285.0	479.62	449.16	413.20	373.19	337.77	297.40	264.05	226.92	197.81
300.0	486.11	455.38	419.42	387.97	342.64	308.03	274.15	235.75	206.92
315.0	485.57	447.63	416.35	385.80	343.45	315.42	272.34	241.43	211.51
330.0	480.52	444.11	412.30	373.64	337.68	303.43	259.46	233.41	199.80
345.0	465.29	429.06	397.25	358.68	324.43	290.91	252.16	221.06	188.62
360.0	540.63	505.30	475.65	438.61	404.73	367.15	336.33	298.21	265.67

MR8 2.5W

Intensity data(cd)

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	233.77	199.08	171.68	144.73	124.73	103.91	88.14	73.27	62.63
15.0	211.96	183.03	159.24	133.56	113.64	94.00	80.30	66.96	55.51
30.0	194.21	166.36	144.82	122.38	101.66	86.61	71.74	61.55	52.63
45.0	180.51	153.65	129.50	111.12	92.55	79.04	65.97	56.23	48.30
60.0	169.88	143.20	122.20	101.84	86.70	71.92	59.39	50.38	42.27
75.0	158.07	132.03	112.56	93.27	79.13	64.89	54.52	44.70	37.85
90.0	147.71	122.92	104.18	86.15	73.18	60.38	50.83	41.55	33.80
105.0	142.30	117.88	99.67	81.92	69.84	57.41	46.77	39.38	33.43
120.0	142.48	121.39	97.60	82.46	67.50	56.69	46.32	39.02	32.89
135.0	141.04	123.19	98.95	83.63	68.13	57.32	46.59	39.11	33.25
150.0	148.25	124.01	105.26	86.70	71.65	60.65	49.93	42.18	35.33
165.0	152.48	128.24	109.50	90.75	76.87	63.90	54.25	44.34	37.04
180.0	104.45	88.50	75.34	62.09	51.10	43.26	34.97	28.93	23.70
195.0	112.74	95.53	80.84	66.24	55.60	45.24	36.77	30.73	25.50
210.0	122.83	103.82	85.16	72.10	59.84	51.10	43.44	35.06	28.39
225.0	133.02	116.62	93.27	78.67	65.34	56.05	46.23	38.75	31.72
240.0	145.09	123.64	101.39	85.79	70.83	60.11	49.75	42.18	34.61
255.0	154.83	132.12	112.29	92.73	78.22	63.90	52.00	43.71	35.78
270.0	163.03	140.50	120.13	98.68	83.09	68.31	56.05	47.31	38.75
285.0	168.52	145.54	125.00	103.73	85.79	73.09	62.09	50.74	41.09
300.0	176.82	153.02	127.97	108.50	88.95	75.25	62.18	53.35	43.98
315.0	178.62	153.47	128.51	109.23	90.57	77.23	63.80	53.89	44.43
330.0	170.69	149.15	125.54	106.52	88.14	75.34	62.90	53.53	44.16
345.0	160.68	139.51	117.34	99.94	83.36	71.28	59.39	50.65	41.46
360.0	233.77	199.08	171.68	144.73	124.73	103.91	88.14	73.27	62.63

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	52.09	42.99	36.23	29.92	25.77	22.35	19.29	17.12	15.23
15.0	48.30	38.84	32.89	27.58	24.06	21.09	18.11	16.31	14.51
30.0	43.35	36.77	30.28	26.13	22.44	19.92	17.48	15.86	14.33
45.0	39.74	33.80	28.21	24.42	21.09	18.93	16.67	14.87	13.61
60.0	34.61	29.56	24.87	21.36	19.11	17.21	15.32	13.97	12.71
75.0	32.08	26.41	23.52	20.28	18.02	16.13	14.51	13.25	11.99
90.0	29.29	23.88	21.00	18.29	16.49	15.14	13.70	12.62	11.90
105.0	27.85	23.88	20.64	18.38	16.13	14.60	13.16	12.26	11.36
120.0	27.13	23.25	20.01	17.84	15.95	14.51	13.07	11.99	10.99
135.0	27.94	24.33	20.91	18.47	16.04	14.42	13.07	11.81	10.81
150.0	28.84	24.69	20.91	18.47	16.31	14.69	13.16	11.90	11.08
165.0	31.09	25.86	21.72	18.47	16.31	14.69	13.16	12.08	11.17
180.0	20.28	17.57	15.68	14.24	12.80	11.63	10.90	10.27	9.73
195.0	21.81	18.65	16.58	14.51	13.16	11.81	10.90	10.00	9.46
210.0	23.43	20.82	17.84	15.77	13.97	12.62	11.63	10.90	10.18
225.0	27.31	23.34	19.56	17.21	14.69	13.34	12.26	11.36	10.63
240.0	29.29	24.33	21.09	18.56	16.04	14.15	12.98	11.99	10.99
255.0	30.28	25.23	21.81	19.29	16.76	14.69	13.07	12.17	10.81
270.0	32.35	26.50	22.53	19.02	16.94	15.05	13.70	12.44	11.63
285.0	34.25	28.30	24.15	20.28	17.75	15.68	14.42	13.07	11.99
300.0	36.95	31.00	25.41	21.45	18.74	16.67	14.87	13.43	12.35
315.0	37.49	31.90	26.59	23.16	19.56	17.21	15.23	13.79	12.35
330.0	37.31	31.72	26.13	22.53	18.74	16.76	15.23	13.79	12.80
345.0	35.15	28.75	24.51	21.18	18.38	16.22	14.87	13.61	12.35
360.0	52.09	42.99	36.23	29.92	25.77	22.35	19.29	17.12	15.23

MR8 2.5W

Intensity data(cd)

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	13.97	12.71	11.72	10.81	10.18	9.46	8.74	8.11	7.66
15.0	13.25	11.99	10.99	10.18	9.55	8.92	8.29	7.75	7.39
30.0	13.25	12.08	11.17	10.00	9.46	8.74	8.20	7.66	7.30
45.0	12.53	11.45	10.45	9.64	9.01	8.38	7.93	7.48	7.03
60.0	11.54	10.54	9.91	9.10	8.47	7.93	7.48	7.12	6.76
75.0	11.27	10.18	9.64	9.19	8.38	7.75	7.39	6.94	6.58
90.0	10.99	10.00	9.28	8.65	8.20	7.66	7.21	6.76	6.49
105.0	10.45	9.64	9.10	8.56	8.02	7.57	7.12	6.76	6.40
120.0	10.18	9.55	8.83	8.29	7.84	7.30	6.94	6.49	6.22
135.0	10.18	9.46	8.83	8.29	7.75	7.21	6.85	6.49	6.13
150.0	10.45	9.64	9.01	8.38	7.93	7.39	7.12	6.58	6.31
165.0	10.36	9.64	9.01	8.38	7.93	7.57	7.12	6.67	6.49
180.0	9.19	8.47	7.93	7.30	6.94	6.58	6.22	6.04	5.59
195.0	9.01	8.47	8.02	7.30	7.03	6.67	6.31	5.95	5.59
210.0	9.46	9.01	8.47	7.75	7.30	7.03	6.58	6.31	5.95
225.0	9.82	9.28	8.56	8.02	7.66	7.30	6.85	6.58	6.31
240.0	10.18	9.64	9.01	8.47	7.93	7.57	7.12	6.76	6.31
255.0	10.27	9.55	9.10	8.38	8.02	7.48	7.03	6.85	6.49
270.0	10.99	10.09	9.46	8.74	8.38	7.84	7.48	6.94	6.67
285.0	11.08	10.27	9.46	8.92	8.29	7.84	7.57	7.12	6.85
300.0	11.27	10.45	9.82	9.28	8.65	8.11	7.66	7.21	6.94
315.0	11.36	10.54	9.73	9.19	8.56	8.02	7.66	7.21	6.85
330.0	11.72	10.90	9.82	9.10	8.56	8.20	7.75	7.30	6.94
345.0	11.36	10.45	9.64	9.01	8.47	8.02	7.57	7.21	6.85
360.0	13.97	12.71	11.72	10.81	10.18	9.46	8.74	8.11	7.66
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	7.30	6.76	6.49	6.13	5.68	5.41	5.14	4.69	4.42
15.0	7.03	6.67	6.13	5.77	5.59	5.14	4.78	4.51	4.24
30.0	6.85	6.58	6.13	5.77	5.32	4.96	4.60	4.42	4.06
45.0	6.67	6.22	5.77	5.32	4.96	4.60	4.42	4.15	3.97
60.0	6.40	5.95	5.59	5.23	4.96	4.51	4.24	4.06	3.69
75.0	6.22	5.77	5.59	5.23	4.78	4.51	4.15	4.06	3.69
90.0	6.13	5.77	5.41	5.05	4.69	4.42	4.15	3.88	3.60
105.0	6.04	5.59	5.23	4.96	4.51	4.42	4.15	3.88	3.51
120.0	5.95	5.50	5.14	4.87	4.51	4.24	3.97	3.79	3.60
135.0	5.86	5.50	5.14	4.87	4.60	4.33	4.06	3.88	3.60
150.0	6.13	5.77	5.23	4.96	4.69	4.33	4.06	3.88	3.69
165.0	6.13	5.77	5.50	5.14	4.78	4.51	4.24	4.15	3.79
180.0	5.32	4.96	4.69	4.42	4.15	3.97	3.79	3.69	3.33
195.0	5.32	5.05	4.78	4.60	4.24	4.06	3.88	3.60	3.42
210.0	5.68	5.23	5.05	4.69	4.42	4.15	3.97	3.79	3.60
225.0	5.86	5.50	5.14	4.96	4.69	4.42	4.24	4.06	3.69
240.0	6.04	5.59	5.23	5.05	4.69	4.51	4.24	4.06	3.79
255.0	6.13	5.68	5.41	5.14	4.96	4.60	4.42	4.24	3.97
270.0	6.31	6.04	5.68	5.32	4.96	4.69	4.51	4.33	4.15
285.0	6.49	6.04	5.68	5.41	5.05	4.78	4.60	4.33	4.15
300.0	6.49	6.22	5.86	5.50	5.14	4.96	4.60	4.33	4.06
315.0	6.40	6.04	5.59	5.32	5.14	4.78	4.51	4.33	4.15
330.0	6.58	6.13	5.86	5.41	5.05	4.78	4.60	4.24	4.06
345.0	6.40	5.95	5.59	5.23	4.87	4.69	4.33	4.15	4.06
360.0	7.30	6.76	6.49	6.13	5.68	5.41	5.14	4.69	4.42

MR8 2.5W

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.15	3.88	3.60	3.42	3.24	3.06	2.79	2.70	2.52
15.0	4.06	3.79	3.51	3.24	3.15	2.97	2.70	2.52	2.43
30.0	3.79	3.60	3.42	3.15	2.97	2.79	2.70	2.52	2.34
45.0	3.69	3.42	3.15	3.06	2.88	2.79	2.61	2.43	2.25
60.0	3.51	3.33	3.15	2.97	2.70	2.61	2.43	2.43	2.16
75.0	3.51	3.24	3.15	2.88	2.70	2.61	2.52	2.34	2.25
90.0	3.42	3.24	2.97	2.79	2.70	2.52	2.43	2.25	2.07
105.0	3.33	3.24	2.97	2.88	2.70	2.52	2.34	2.25	1.98
120.0	3.42	3.06	2.88	2.79	2.61	2.43	2.34	2.25	2.16
135.0	3.33	3.15	3.06	2.88	2.70	2.52	2.34	2.16	2.07
150.0	3.51	3.24	3.06	2.88	2.79	2.61	2.43	2.25	2.16
165.0	3.51	3.33	3.15	2.97	2.79	2.61	2.52	2.34	2.16
180.0	3.15	2.97	2.79	2.61	2.52	2.43	2.16	2.16	1.98
195.0	3.24	3.06	2.79	2.70	2.52	2.43	2.25	2.07	1.89
210.0	3.33	3.15	2.97	2.79	2.61	2.61	2.34	2.25	2.07
225.0	3.42	3.24	2.97	2.88	2.79	2.79	2.43	2.25	2.16
240.0	3.69	3.42	3.24	2.97	2.79	2.70	2.52	2.61	2.25
255.0	3.79	3.60	3.33	3.15	2.97	2.70	2.70	2.52	2.34
270.0	3.97	3.69	3.42	3.24	2.97	2.88	2.70	2.61	2.43
285.0	3.88	3.60	3.33	3.15	2.97	2.79	2.61	2.61	2.43
300.0	3.88	3.69	3.42	3.24	3.06	2.79	2.70	2.61	2.34
315.0	3.79	3.60	3.33	3.24	2.97	2.88	2.70	2.52	2.34
330.0	3.79	3.51	3.33	3.06	2.88	2.88	2.70	2.52	2.34
345.0	3.69	3.42	3.15	2.97	2.79	2.79	2.70	2.34	2.25
360.0	4.15	3.88	3.60	3.42	3.24	3.06	2.79	2.70	2.52
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2.43	2.25	2.07	1.98	1.80	1.62	1.62	1.44	1.26
15.0	2.25	2.16	1.89	1.89	1.62	1.62	1.44	1.35	1.17
30.0	2.16	1.98	1.98	1.80	1.62	1.53	1.35	1.26	1.08
45.0	2.07	1.98	1.80	1.71	1.53	1.53	1.35	1.26	1.08
60.0	2.07	1.98	1.80	1.62	1.53	1.35	1.26	1.17	0.99
75.0	1.89	1.80	1.80	1.62	1.44	1.35	1.26	1.17	1.08
90.0	1.89	1.80	1.71	1.53	1.44	1.35	1.17	1.17	0.99
105.0	1.89	1.89	1.62	1.53	1.44	1.26	1.17	1.08	0.99
120.0	1.98	1.80	1.71	1.53	1.35	1.26	1.17	1.08	0.99
135.0	1.89	1.71	1.71	1.53	1.44	1.26	1.17	0.99	0.90
150.0	1.98	1.89	1.80	1.62	1.44	1.35	1.26	1.17	0.99
165.0	1.98	1.89	1.71	1.62	1.44	1.35	1.26	1.17	0.99
180.0	1.80	1.62	1.44	1.44	1.26	1.08	1.08	0.99	0.81
195.0	1.80	1.71	1.53	1.44	1.26	1.17	1.08	0.99	0.90
210.0	1.89	1.80	1.53	1.53	1.35	1.26	1.17	1.08	0.90
225.0	1.98	1.89	1.71	1.53	1.53	1.35	1.26	1.17	1.08
240.0	2.16	2.07	1.89	1.62	1.53	1.35	1.26	1.17	1.17
255.0	2.16	2.07	1.89	1.71	1.62	1.44	1.35	1.17	1.08
270.0	2.16	2.16	1.89	1.80	1.71	1.44	1.44	1.26	1.17
285.0	2.16	2.07	1.89	1.80	1.71	1.53	1.35	1.35	1.17
300.0	2.25	2.16	1.98	1.80	1.71	1.53	1.44	1.26	1.08
315.0	2.16	2.16	1.89	1.71	1.62	1.44	1.35	1.26	1.17
330.0	0.00	1.98	1.98	1.80	1.62	1.44	1.26	1.17	1.08
345.0	2.16	1.98	1.89	1.62	1.62	1.44	1.26	1.17	1.08
360.0	2.43	2.25	2.07	1.98	1.80	1.62	1.62	1.44	1.26

MR8 2.5W

Intensity data(cd)

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1.08	1.08	0.90	0.81	0.81	0.72	0.63	0.45	0.45
15.0	1.17	0.99	0.81	0.81	0.72	0.72	0.54	0.54	0.36
30.0	1.08	0.99	0.81	0.72	0.72	0.63	0.45	0.45	0.36
45.0	1.08	0.90	0.81	0.81	0.63	0.63	0.45	0.45	0.27
60.0	0.99	0.81	0.72	0.63	0.63	0.54	0.45	0.36	0.27
75.0	0.99	0.90	0.72	0.63	0.54	0.45	0.45	0.36	0.27
90.0	0.90	0.81	0.81	0.63	0.54	0.45	0.36	0.27	0.18
105.0	0.90	0.72	0.63	0.63	0.54	0.45	0.36	0.27	0.27
120.0	0.81	0.81	0.63	0.63	0.54	0.45	0.36	0.18	0.18
135.0	0.81	0.81	0.72	0.63	0.54	0.45	0.27	0.36	0.18
150.0	0.90	0.81	0.72	0.63	0.63	0.45	0.45	0.27	0.18
165.0	0.90	0.81	0.81	0.72	0.63	0.54	0.45	0.27	0.36
180.0	0.72	0.72	0.54	0.54	0.36	0.36	0.18	0.18	0.09
195.0	0.81	0.72	0.63	0.54	0.45	0.45	0.27	0.27	0.18
210.0	0.81	0.72	0.72	0.54	0.45	0.45	0.27	0.27	0.18
225.0	0.90	0.72	0.72	0.63	0.63	0.45	0.36	0.27	0.18
240.0	0.99	0.81	0.72	0.72	0.54	0.54	0.36	0.36	0.27
255.0	0.99	0.90	0.81	0.72	0.63	0.54	0.45	0.27	0.36
270.0	1.08	0.90	0.81	0.81	0.63	0.63	0.45	0.36	0.27
285.0	0.99	0.99	0.90	0.81	0.63	0.54	0.45	0.54	0.36
300.0	1.08	0.90	0.90	0.63	0.63	0.54	0.45	0.45	0.36
315.0	0.00	0.90	0.81	0.81	0.63	0.54	0.45	0.45	0.36
330.0	0.99	0.90	0.81	0.72	0.63	0.54	0.45	0.36	0.27
345.0	1.08	0.90	0.81	0.63	0.63	0.54	0.45	0.36	0.27
360.0	1.08	1.08	0.90	0.81	0.81	0.72	0.63	0.45	0.45

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.36	0.27	0.18	0.18	0.09	0.00	0.00	0.00	0.00
15.0	0.27	0.27	0.18	0.09	0.09	0.00	0.00	0.00	0.00
30.0	0.27	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00
45.0	0.27	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.27	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.09	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.27	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.27	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.18	0.09	0.18	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.36	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
315.0	0.27	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.27	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.18	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.36	0.27	0.18	0.18	0.09	0.00	0.00	0.00	0.00

MR8 2.5W

Intensity data(cd)

C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MR8 2.5W

Intensity data(cd)

C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MR8 2.5W

Intensity data(cd)

C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MR8 2.5W

Intensity data(cd)

C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	0.00	0.00	0.00	0.09	0.09	0.09	0.18	0.09	0.27
15.0	0.00	0.00	0.00	0.09	0.09	0.09	0.09	0.18	0.18
30.0	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.18	0.27
45.0	0.00	0.00	0.00	0.00	0.09	0.09	0.18	0.09	0.27
60.0	0.00	0.00	0.09	0.00	0.09	0.09	0.18	0.18	0.27
75.0	0.00	0.00	0.00	0.09	0.18	0.18	0.18	0.18	0.27
90.0	0.00	0.00	0.09	0.00	0.09	0.09	0.18	0.27	0.18
105.0	0.00	0.00	0.00	0.09	0.09	0.09	0.27	0.27	0.36
120.0	0.00	0.00	0.09	0.09	0.09	0.18	0.18	0.27	0.27
135.0	0.00	0.00	0.09	0.09	0.09	0.18	0.18	0.27	0.27
150.0	0.00	0.09	0.09	0.09	0.09	0.18	0.09	0.27	0.36
165.0	0.00	0.00	0.00	0.09	0.09	0.18	0.18	0.18	0.27
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.27
195.0	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.18	0.18
210.0	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.00	0.18
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.09
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.09
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.18	0.18
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09	0.09
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.09
360.0	0.00	0.00	0.00	0.09	0.09	0.09	0.18	0.09	0.27

MR8 2.5W

Intensity data(cd)

C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	0.18	0.27	0.36	0.36	0.45	0.45	0.54	0.63	0.54
15.0	0.18	0.27	0.36	0.36	0.45	0.45	0.54	0.63	0.54
30.0	0.27	0.27	0.36	0.45	0.45	0.45	0.54	0.63	0.63
45.0	0.18	0.36	0.36	0.45	0.45	0.63	0.63	0.63	0.63
60.0	0.27	0.36	0.36	0.45	0.45	0.54	0.63	0.63	0.72
75.0	0.27	0.36	0.45	0.45	0.45	0.54	0.54	0.54	0.72
90.0	0.27	0.36	0.36	0.45	0.54	0.54	0.54	0.63	0.72
105.0	0.36	0.36	0.36	0.45	0.63	0.54	0.54	0.63	0.63
120.0	0.36	0.36	0.45	0.45	0.45	0.54	0.63	0.54	0.63
135.0	0.36	0.36	0.45	0.45	0.45	0.54	0.63	0.63	0.72
150.0	0.27	0.45	0.45	0.45	0.45	0.63	0.63	0.63	0.72
165.0	0.27	0.45	0.45	0.45	0.45	0.54	0.63	0.63	0.63
180.0	0.18	0.27	0.27	0.36	0.45	0.45	0.45	0.45	0.54
195.0	0.18	0.36	0.36	0.36	0.36	0.45	0.45	0.45	0.00
210.0	0.27	0.27	0.18	0.36	0.36	0.36	0.36	0.45	0.54
225.0	0.27	0.27	0.27	0.27	0.36	0.45	0.45	0.45	0.36
240.0	0.18	0.18	0.27	0.36	0.36	0.45	0.45	0.45	0.45
255.0	0.18	0.27	0.36	0.27	0.36	0.36	0.36	0.45	0.45
270.0	0.18	0.18	0.18	0.27	0.27	0.36	0.36	0.45	0.45
285.0	0.09	0.09	0.18	0.36	0.36	0.36	0.45	0.45	0.36
300.0	0.18	0.18	0.18	0.27	0.27	0.36	0.45	0.45	0.45
315.0	0.09	0.09	0.18	0.27	0.27	0.27	0.36	0.36	0.45
330.0	0.00	0.18	0.27	0.27	0.27	0.36	0.36	0.36	0.45
345.0	0.09	0.27	0.27	0.27	0.36	0.36	0.36	0.45	0.54
360.0	0.18	0.27	0.36	0.36	0.45	0.45	0.54	0.63	0.54
C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	0.63	0.54	0.63	0.63	0.63	0.54	0.54	0.63	0.54
15.0	0.63	0.63	0.54	0.63	0.54	0.63	0.63	0.63	0.54
30.0	0.63	0.63	0.54	0.63	0.63	0.54	0.63	0.63	0.54
45.0	0.63	0.72	0.63	0.63	0.63	0.54	0.63	0.54	0.54
60.0	0.63	0.72	0.54	0.63	0.63	0.63	0.63	0.54	0.54
75.0	0.63	0.63	0.72	0.63	0.63	0.63	0.54	0.63	0.63
90.0	0.63	0.63	0.54	0.63	0.63	0.63	0.63	0.63	0.54
105.0	0.63	0.63	0.72	0.63	0.72	0.63	0.63	0.63	0.54
120.0	0.72	0.63	0.63	0.63	0.63	0.63	0.54	0.54	0.54
135.0	0.72	0.63	0.72	0.63	0.63	0.63	0.63	0.63	0.63
150.0	0.63	0.63	0.63	0.63	0.63	0.63	0.54	0.63	0.54
165.0	0.63	0.63	0.63	0.72	0.54	0.63	0.63	0.54	0.63
180.0	0.54	0.45	0.45	0.54	0.54	0.54	0.63	0.54	0.63
195.0	0.54	0.45	0.45	0.54	0.45	0.54	0.45	0.54	0.63
210.0	0.54	0.54	0.54	0.54	0.63	0.45	0.54	0.54	0.54
225.0	0.45	0.54	0.54	0.45	0.54	0.54	0.54	0.54	0.63
240.0	0.45	0.54	0.45	0.45	0.45	0.54	0.54	0.54	0.63
255.0	0.45	0.54	0.45	0.45	0.54	0.45	0.54	0.54	0.63
270.0	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.63	0.63
285.0	0.54	0.54	0.45	0.45	0.45	0.54	0.54	0.54	0.54
300.0	0.36	0.45	0.45	0.45	0.54	0.45	0.54	0.54	0.63
315.0	0.45	0.45	0.45	0.45	0.45	0.54	0.54	0.54	0.54
330.0	0.45	0.45	0.45	0.45	0.54	0.54	0.45	0.54	0.54
345.0	0.45	0.45	0.45	0.45	0.45	0.45	0.54	0.54	0.54
360.0	0.63	0.54	0.63	0.63	0.63	0.54	0.54	0.63	0.54

MR8 2.5W

Intensity data(cd)

Appendix Page: 24 Total:24

C/γ(°)	180.0
0.0	0.00
15.0	0.54
30.0	0.63
45.0	0.63
60.0	0.63
75.0	0.72
90.0	0.54
105.0	0.54
120.0	0.54
135.0	0.54
150.0	0.54
165.0	0.54
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	0.00