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乐达凯

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Client:

LumCAT: AUGW0808LAJMV BK

Luminaire: LED 灯具

Report No:

Ballast type:

Test No:

Voltage(V): 120.020

LampCAT:

Current(A): 0.080

Lamp flux(lm): 700.7

Power (W): 9.440

Number of Lamps: 1

PF: 0.980

Length(mm): 180

Width(mm): 50

Phm Type: C

Height(mm): 175

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Photometric Results

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Lumens(lm): 700.68, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 74.22

Central intensity(cd): 34.132, Maximum intensity(cd): 150.898

Angle of maximum intensity: C=90.0  $\gamma$ =85.0

Beam Angle(50%Imax): [C0/180]Total=330.8

[C90/270]Total=131.5

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=223.4

Maximum s/h(1/2): C0\_180=1.82 C90\_270=3.49

Maximum s/h(1/4): C0\_180=1.95 C90\_270=3.40

Up flux rate of lamp(%): 50.53%

Down flux rate of lamp(%): 49.47%

Up flux rate of LUM(%): 50.53%

Down flux rate of LUM(%): 49.47%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 22.432%

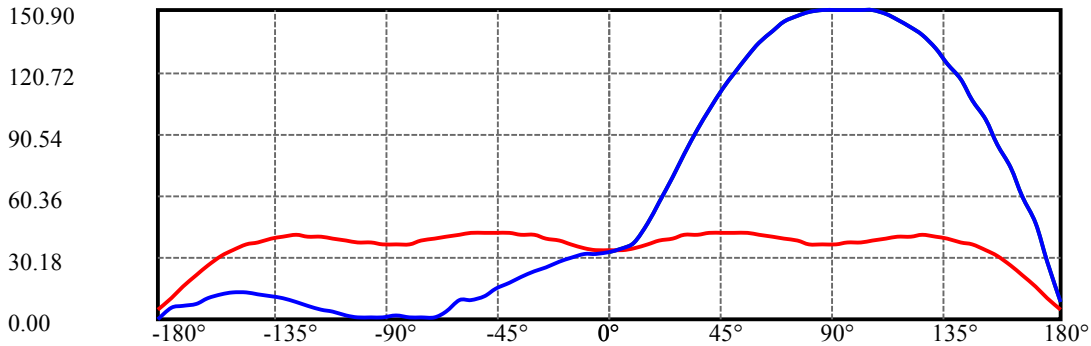
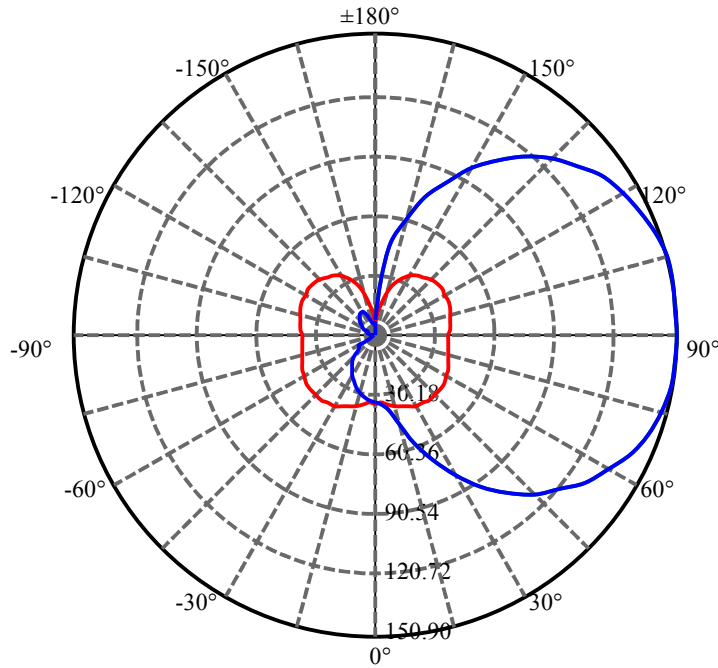
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	33.683	0.000	0	0.00%	0.00%
5.0	33.757	0.806	0.806	0.12%	0.12%
10.0	34.506	2.442	3.248	0.35%	0.46%
15.0	36.527	4.214	7.462	0.60%	1.06%
20.0	39.671	6.280	13.742	0.90%	1.96%
25.0	42.665	8.635	22.377	1.23%	3.19%
30.0	45.771	11.192	33.569	1.60%	4.79%
35.0	48.765	13.921	47.49	1.99%	6.78%
40.0	51.609	16.747	64.236	2.39%	9.17%
45.0	53.780	19.514	83.75	2.78%	11.95%
50.0	55.726	22.127	105.877	3.16%	15.11%
55.0	57.185	24.551	130.428	3.50%	18.61%
60.0	58.533	26.748	157.176	3.82%	22.43%
65.0	59.169	28.614	185.789	4.08%	26.52%
70.0	59.730	30.106	215.895	4.30%	30.81%
75.0	60.292	31.372	247.267	4.48%	35.29%
80.0	60.816	32.405	279.672	4.62%	39.91%
85.0	61.489	33.233	312.905	4.74%	44.66%
90.0	61.751	33.744	346.65	4.82%	49.47%
95.0	62.013	33.888	380.537	4.84%	54.31%
100.0	62.126	33.732	414.269	4.81%	59.12%
105.0	62.500	33.346	447.615	4.76%	63.88%
110.0	62.650	32.712	480.327	4.67%	68.55%
115.0	62.350	31.651	511.978	4.52%	73.07%
120.0	61.639	30.142	542.12	4.30%	77.37%
125.0	60.629	28.262	570.382	4.03%	81.40%
130.0	59.019	26.015	596.397	3.71%	85.12%
135.0	56.549	23.352	619.749	3.33%	88.45%
140.0	53.705	20.414	640.164	2.91%	91.36%
145.0	50.299	17.352	657.516	2.48%	93.84%
150.0	46.182	14.208	671.724	2.03%	95.87%
155.0	41.205	11.059	682.783	1.58%	97.45%
160.0	35.629	8.058	690.841	1.15%	98.60%
165.0	28.930	5.321	696.162	0.76%	99.35%
170.0	21.931	3.017	699.179	0.43%	99.79%
175.0	13.960	1.284	700.463	0.18%	99.97%
180.0	4.491	0.221	700.683	0.03%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	33.57	4.79%	4.79%
0-40	64.24	9.17%	9.17%
0-60	157.18	22.43%	22.43%
0-90	346.65	49.47%	49.47%
0-120	542.12	77.37%	77.37%
0-180	700.68	100.00%	100.00%
60-90	189.47	27.04%	27.04%
90-120	195.47	27.90%	27.90%
90-130	249.75	35.64%	35.64%
90-150	325.07	46.39%	46.39%
90-180	353.81	50.50%	50.50%
0-123.26	560.55	80.00%	80.00%

## ZONAL LUMEN SUMMARY

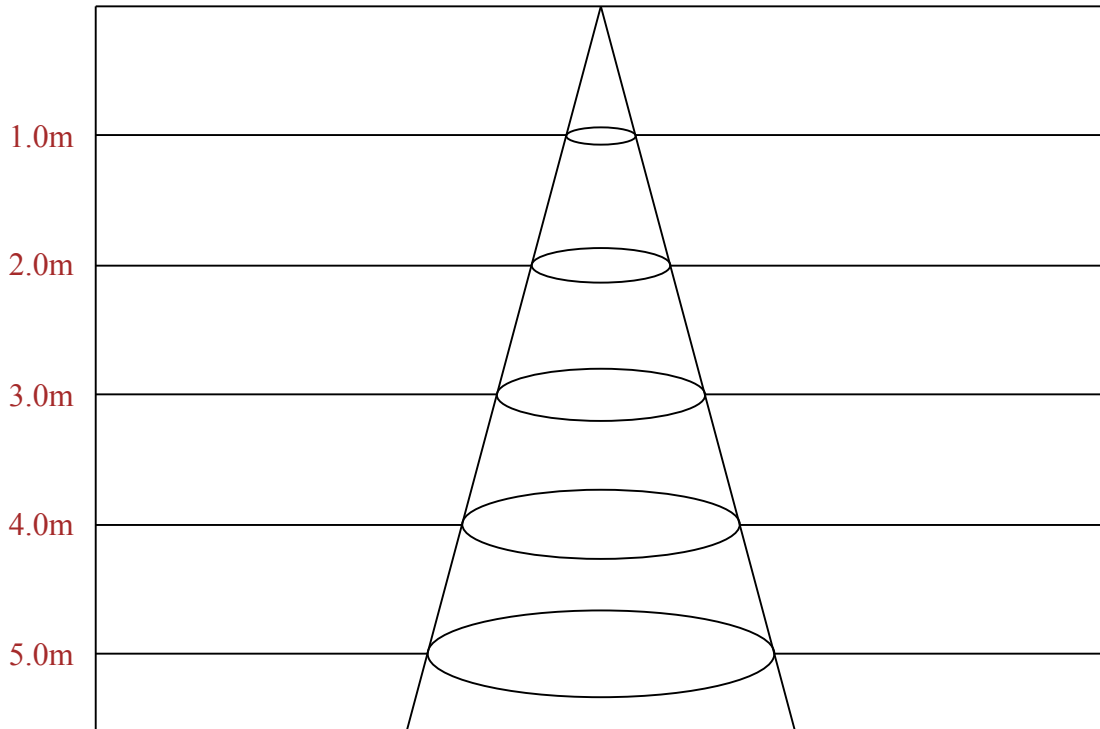
0-10	3.25
10-20	10.49
20-30	19.83
30-40	30.67
40-50	41.64
50-60	51.30
60-70	58.72
70-80	63.78
80-90	66.98
90-100	67.62
100-110	66.06
110-120	61.79
120-130	54.28
130-140	43.77
140-150	31.56
150-160	19.12
160-170	8.34
170-180	1.28



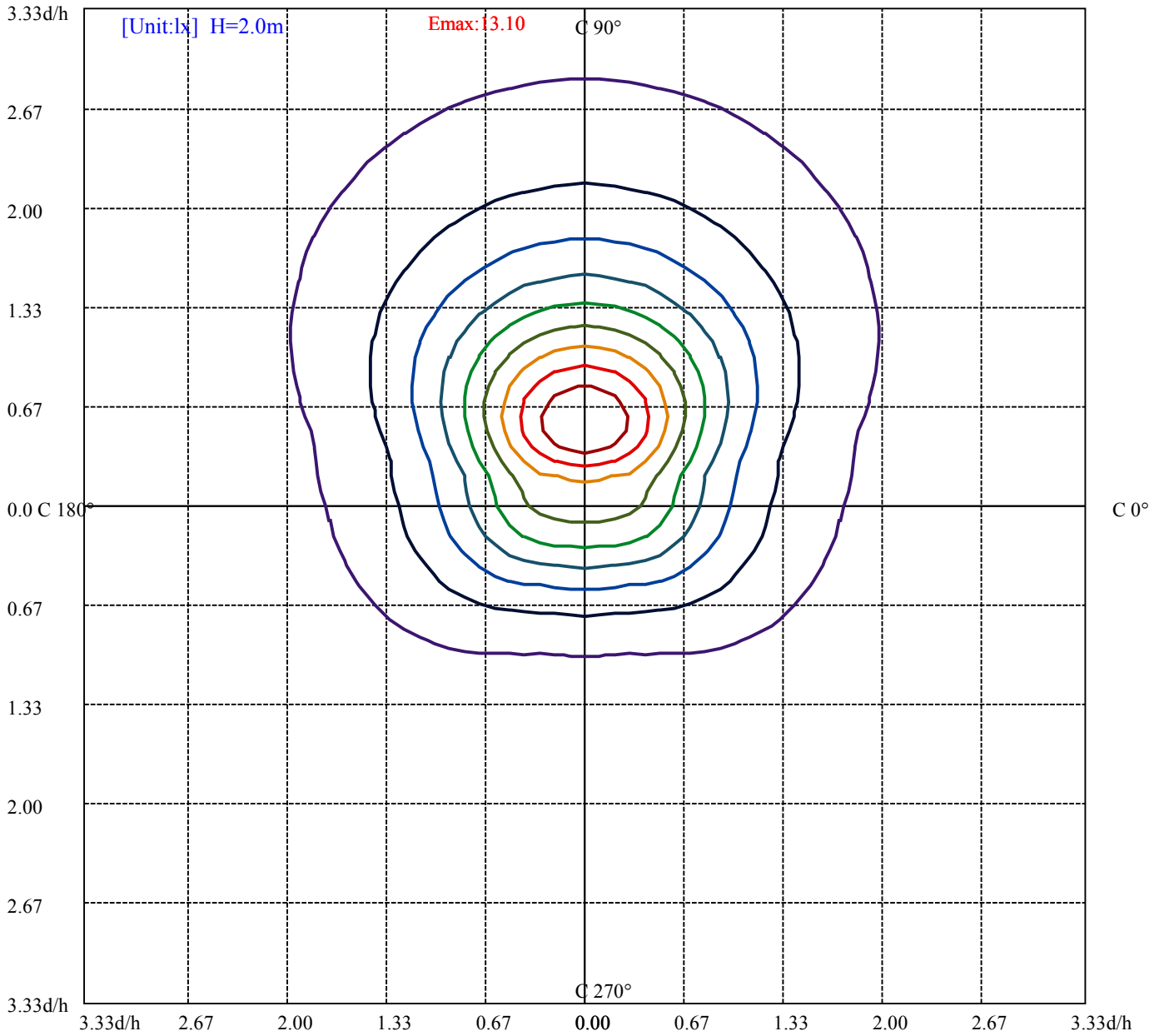
C90(Max): ——  
 C0/C180: ——  
 C90/C270: ——

Field angle(10%Imax):C0/180Left:0.0 Right:0.0  
 :C90/270Left:150.3 Right:73.2

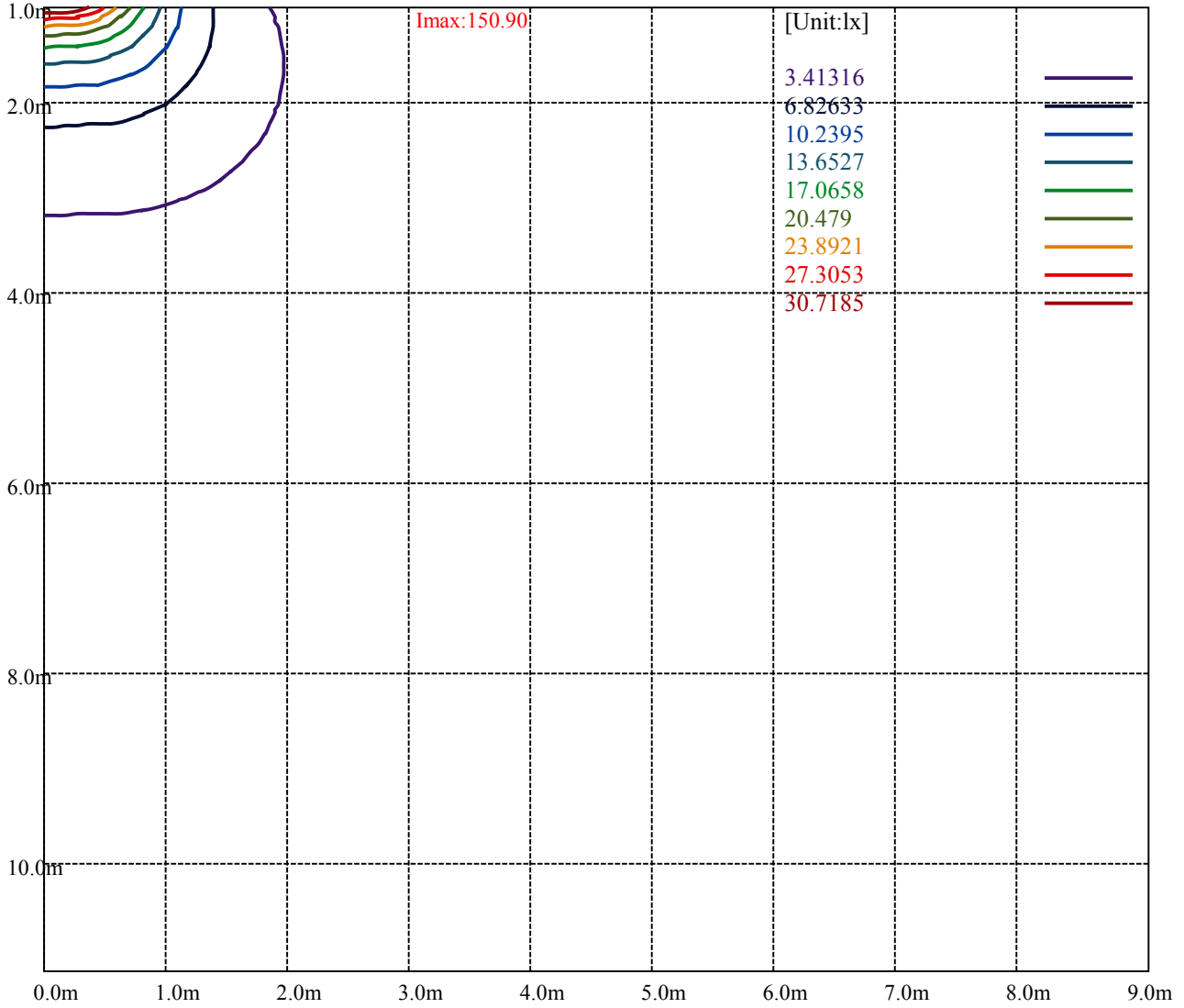
Beam Angle(50%Imax):C0/180Left:215.4 Right:115.4  
 :C90/270Left:77.3 Right:54.2



Max , Ave      Beam angle of C90 plane 221.29



- (10%Emax) 1.309677
- (20%Emax) 2.61935
- (30%Emax) 3.929025
- (40%Emax) 5.2387
- (50%Emax) 6.548375
- (60%Emax) 7.858075
- (70%Emax) 9.16775
- (80%Emax) 10.47742
- (90%Emax) 11.7871



Luminance Table

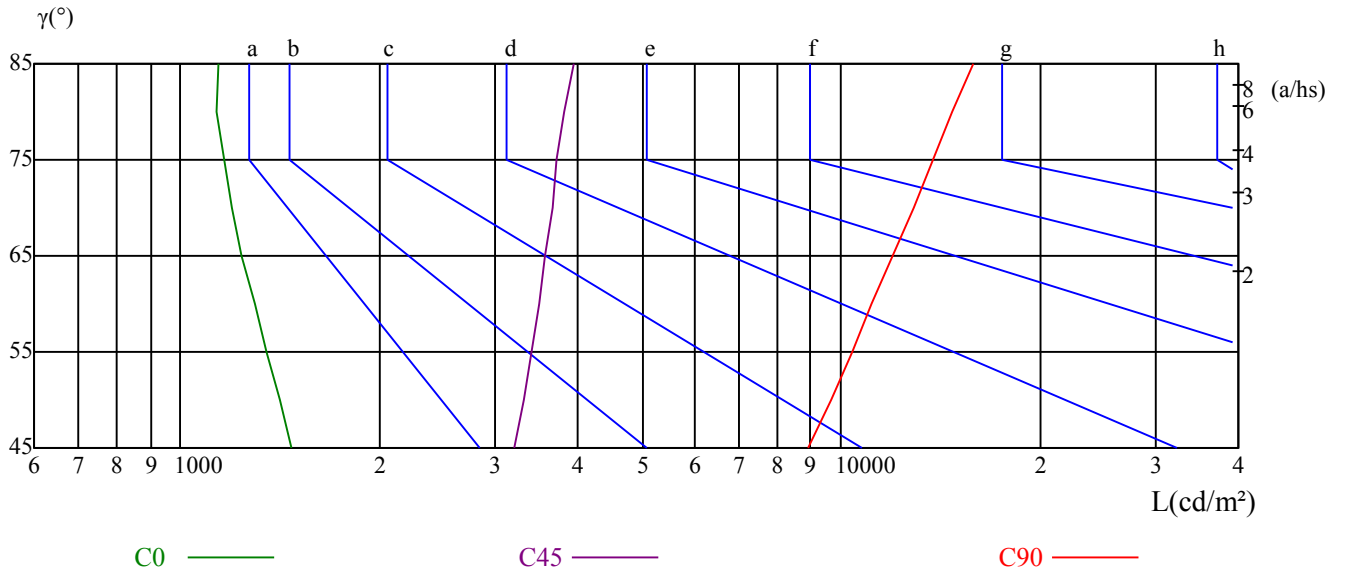
$\gamma$	45	50	55	60	65	70	75	80	85
C0	1474	1411	1349	1300	1235	1196	1165	1130	1145
C45	3204	3305	3407	3498	3566	3659	3720	3809	3930
C90	8945	9638	10417	11155	12018	12876	13746	14735	15882

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10509	19010	16589	16388	32005	27763	46948	97332	85022

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





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	1.07	1.07	1.07	0.99	0.99	0.99	0.83	0.83	0.83	0.69	0.69	0.69	0.56	0.56	0.56	0.49
1	0.87	0.81	0.76	0.79	0.74	0.70	0.66	0.62	0.58	0.53	0.50	0.48	0.42	0.39	0.37	0.32
2	0.73	0.65	0.58	0.67	0.60	0.54	0.55	0.49	0.45	0.44	0.40	0.36	0.34	0.31	0.28	0.23
3	0.63	0.54	0.46	0.57	0.49	0.43	0.47	0.41	0.35	0.37	0.33	0.29	0.29	0.25	0.22	0.17
4	0.54	0.45	0.38	0.50	0.41	0.35	0.41	0.34	0.29	0.33	0.27	0.23	0.25	0.21	0.18	0.14
5	0.48	0.39	0.32	0.44	0.35	0.29	0.36	0.29	0.24	0.29	0.23	0.19	0.22	0.18	0.15	0.11
6	0.43	0.33	0.27	0.39	0.31	0.25	0.32	0.25	0.20	0.26	0.20	0.16	0.19	0.15	0.12	0.09
7	0.38	0.29	0.23	0.35	0.27	0.21	0.29	0.22	0.18	0.23	0.18	0.14	0.18	0.14	0.11	0.08
8	0.34	0.26	0.20	0.31	0.24	0.18	0.26	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.09	0.07
9	0.31	0.23	0.17	0.29	0.21	0.16	0.24	0.18	0.13	0.19	0.14	0.11	0.15	0.11	0.08	0.06
10	0.28	0.21	0.15	0.26	0.19	0.14	0.22	0.16	0.12	0.17	0.13	0.09	0.14	0.10	0.07	0.05

## Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	34.13	34.13	35.03	36.83	37.72	39.52	41.32	41.32	42.22
15.0	34.13	34.13	35.03	36.83	39.52	41.32	43.11	45.81	47.60
30.0	34.13	34.13	35.93	38.62	41.32	46.71	52.10	57.48	62.87
45.0	34.13	34.13	35.93	40.42	46.71	55.69	63.77	71.86	79.94
60.0	33.23	35.03	36.83	43.11	52.10	62.87	73.65	83.53	93.41
75.0	33.23	35.03	37.72	45.81	56.59	68.26	79.04	89.82	100.60
90.0	33.23	35.03	37.72	46.71	57.48	69.16	80.84	92.51	102.39
105.0	33.23	35.03	37.72	44.91	55.69	66.47	77.25	88.92	98.80
120.0	33.23	35.03	36.83	42.22	51.20	61.08	70.96	80.84	89.82
135.0	34.13	34.13	36.83	39.52	45.81	52.99	60.18	68.26	75.45
150.0	33.23	34.13	35.93	37.72	44.01	44.01	48.50	52.99	57.48
165.0	34.13	34.13	35.03	36.83	39.52	41.32	42.22	44.01	44.91
180.0	34.13	34.13	35.03	36.83	38.62	39.52	40.42	41.32	42.22
195.0	34.13	34.13	34.13	35.03	35.93	36.83	37.72	37.72	38.62
210.0	34.13	33.23	33.23	33.23	34.13	34.13	34.13	33.23	33.23
225.0	34.13	33.23	32.34	32.34	31.44	30.54	29.64	28.74	27.84
240.0	33.23	32.34	31.44	30.54	28.74	26.95	25.15	23.35	21.56
255.0	33.23	32.34	31.44	29.64	27.84	26.05	23.35	20.66	17.96
270.0	33.23	32.34	31.44	29.64	27.84	25.15	23.35	20.66	17.96
285.0	33.23	32.34	31.44	29.64	27.84	26.05	23.35	20.66	19.76
300.0	33.23	32.34	31.44	30.54	30.54	27.84	26.05	24.25	22.46
315.0	34.13	33.23	32.34	31.44	31.44	30.54	30.54	29.64	28.74
330.0	33.23	33.23	33.23	33.23	34.13	34.13	34.13	34.13	34.13
345.0	34.13	33.23	34.13	35.03	35.93	36.83	37.72	38.62	38.62
360.0	34.13	34.13	35.03	36.83	37.72	39.52	41.32	41.32	42.22
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	42.22	42.22	42.22	41.32	40.42	39.52	38.62	36.83	36.83
15.0	49.40	51.20	52.10	52.99	53.89	54.79	54.79	54.79	55.69
30.0	67.37	72.75	76.35	79.94	83.53	85.33	87.13	88.02	88.92
45.0	88.02	94.31	100.60	105.99	109.58	113.17	114.97	116.77	118.56
60.0	101.50	110.48	116.77	123.05	128.44	132.93	135.63	137.42	139.22
75.0	110.48	118.56	126.65	132.04	139.22	142.81	146.41	148.20	149.10
90.0	112.28	120.36	128.44	134.73	141.02	145.51	148.20	150.00	150.90
105.0	107.78	116.77	123.95	131.14	135.63	141.02	143.71	145.51	146.41
120.0	98.80	105.99	113.17	118.56	123.95	127.54	130.24	132.04	132.93
135.0	81.74	88.02	93.41	97.90	101.50	105.09	106.89	108.68	110.48
150.0	61.98	65.57	68.26	71.86	73.65	75.45	77.25	78.14	79.94
165.0	45.81	45.81	46.71	46.71	46.71	45.81	45.81	45.81	46.71
180.0	42.22	42.22	41.32	41.32	39.52	38.62	37.72	36.83	36.83
195.0	37.72	37.72	36.83	35.93	35.03	34.13	33.23	33.23	33.23
210.0	32.34	31.44	30.54	29.64	27.84	26.95	26.05	26.05	26.95
225.0	26.05	24.25	22.46	21.56	19.76	17.96	17.07	17.96	17.96
240.0	18.86	17.07	14.37	12.57	9.88	8.08	8.08	8.08	8.98
255.0	15.27	12.57	8.98	6.29	3.59	0.90	0.90	0.90	0.90
270.0	15.27	11.68	8.98	8.98	3.59	0.90	0.90	0.90	1.80
285.0	15.27	12.57	9.88	7.19	3.59	1.80	1.80	1.80	1.80
300.0	20.66	17.96	16.17	14.37	12.57	10.78	9.88	10.78	10.78
315.0	26.95	26.05	24.25	23.35	21.56	20.66	19.76	19.76	19.76
330.0	34.13	33.23	32.34	30.54	29.64	28.74	27.84	27.84	27.84
345.0	38.62	38.62	37.72	36.83	35.93	35.03	34.13	33.23	33.23
360.0	42.22	42.22	42.22	41.32	40.42	39.52	38.62	36.83	36.83

Intensity data(cd)									
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	36.83	37.72	37.72	38.62	39.52	40.42	40.42	41.32	41.32
15.0	56.59	57.48	58.38	58.38	59.28	59.28	59.28	59.28	58.38
30.0	89.82	90.72	91.62	90.72	90.72	89.82	88.02	86.23	83.53
45.0	118.56	119.46	119.46	118.56	117.66	115.87	114.07	109.58	105.09
60.0	139.22	139.22	139.22	139.22	137.42	134.73	131.14	126.65	121.26
75.0	149.10	149.10	149.10	148.20	147.30	144.61	141.02	136.53	130.24
90.0	150.90	150.90	150.90	150.90	149.10	146.41	142.81	138.32	132.04
105.0	147.30	147.30	146.41	146.41	144.61	141.92	138.32	133.83	128.44
120.0	133.83	133.83	133.83	133.83	132.04	130.24	126.65	122.16	116.77
135.0	111.38	112.28	111.38	111.38	110.48	109.58	106.89	103.29	99.70
150.0	80.84	80.84	81.74	81.74	81.74	81.74	79.94	78.14	75.45
165.0	47.60	48.50	48.50	50.30	51.20	51.20	51.20	51.20	50.30
180.0	36.83	37.72	37.72	38.62	39.52	39.52	40.42	40.42	39.52
195.0	33.23	33.23	33.23	34.13	35.03	35.03	35.03	35.03	35.03
210.0	26.95	26.95	26.95	27.84	27.84	27.84	27.84	27.84	27.84
225.0	17.96	17.96	17.96	18.86	18.86	19.76	19.76	20.66	20.66
240.0	8.98	8.98	8.98	8.98	9.88	11.68	12.57	13.47	14.37
255.0	0.90	0.90	0.90	2.69	3.59	5.39	7.19	8.98	10.78
270.0	0.90	0.90	0.90	1.80	3.59	4.49	6.29	8.08	9.88
285.0	1.80	1.80	1.80	2.69	4.49	5.39	7.19	8.08	9.88
300.0	10.78	10.78	10.78	11.68	12.57	13.47	14.37	15.27	16.17
315.0	19.76	19.76	20.66	20.66	21.56	22.46	22.46	23.35	23.35
330.0	27.84	27.84	28.74	28.74	29.64	29.64	29.64	30.54	29.64
345.0	34.13	34.13	34.13	35.03	35.93	35.93	36.83	36.83	36.83
360.0	36.83	37.72	37.72	38.62	39.52	40.42	40.42	41.32	41.32
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	40.42	38.62	37.72	35.03	31.44	27.84	23.35	17.07	10.78
15.0	55.69	53.89	50.30	47.60	42.22	35.93	30.54	22.46	12.57
30.0	79.04	74.55	69.16	62.87	56.59	49.40	39.52	29.64	15.27
45.0	99.70	93.41	85.33	77.25	69.16	60.18	48.50	35.93	20.66
60.0	114.07	106.89	97.90	88.02	77.25	66.47	55.69	41.32	24.25
75.0	123.05	114.07	105.09	94.31	83.53	71.86	59.28	44.01	27.84
90.0	124.85	116.77	106.89	97.01	85.33	73.65	60.18	46.71	27.84
105.0	120.36	112.28	103.29	92.51	82.63	70.96	58.38	44.91	27.84
120.0	110.48	103.29	94.31	85.33	75.45	64.67	52.99	41.32	26.05
135.0	94.31	88.02	80.84	72.75	64.67	56.59	45.81	35.03	22.46
150.0	71.86	67.37	62.87	57.48	52.10	44.91	36.83	27.84	19.76
165.0	49.40	47.60	44.91	42.22	37.72	32.34	26.95	20.66	15.27
180.0	38.62	36.83	35.93	33.23	29.64	25.15	19.76	14.37	9.88
195.0	34.13	33.23	32.34	29.64	26.95	26.05	17.07	11.68	8.98
210.0	27.84	26.95	25.15	24.25	21.56	18.86	14.37	10.78	7.19
225.0	20.66	20.66	19.76	17.96	16.17	14.37	10.78	8.98	5.39
240.0	15.27	15.27	16.17	15.27	12.57	9.88	8.98	7.19	1.80
255.0	11.68	12.57	14.37	14.37	13.47	9.88	7.19	6.29	2.69
270.0	10.78	12.57	13.47	13.47	12.57	9.88	7.19	6.29	5.39
285.0	10.78	11.68	12.57	12.57	11.68	9.88	8.08	7.19	6.29
300.0	16.17	16.17	16.17	16.17	14.37	12.57	10.78	8.98	8.08
315.0	22.46	22.46	21.56	20.66	19.76	17.07	14.37	10.78	8.98
330.0	29.64	28.74	27.84	26.95	24.25	21.56	17.96	12.57	8.98
345.0	35.93	35.03	33.23	31.44	27.84	25.15	19.76	14.37	10.78
360.0	40.42	38.62	37.72	35.03	31.44	27.84	23.35	17.07	10.78

Intensity data(cd)

C/γ(°)	180.0
0.0	8.98
15.0	7.19
30.0	7.19
45.0	6.29
60.0	6.29
75.0	7.19
90.0	8.08
105.0	9.88
120.0	11.68
135.0	12.57
150.0	11.68
165.0	10.78
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	8.98