
乐达凯

Client:

LumCAT: MIAP15LAJUDPC-3000K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP26010191

Voltage(V): 120.030

LampCAT:

Current(A): 0.112

Lamp flux(lm): 1242.1

Power (W): 13.240

Number of Lamps: 1

PF: 0.984

Length(mm): -45

Width(mm): -45

Phm Type: C

Height(mm): 380

Photometric Results

Lumens(lm): 1242.12, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 93.82

Central intensity(cd): 15.482, Maximum intensity(cd): 129.321

Angle of maximum intensity: C=0.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=287.8

[C90/270]Total=293.0

Field angle(10%Imax): [C0/180]Total=328.4

[C90/270]Total=337.2

Maximum s/h(1/2): C0_180=4.63 C90_270=4.57

Maximum s/h(1/4): C0_180=4.34 C90_270=4.29

Up flux rate of lamp(%): 48.20%

Down flux rate of lamp(%): 51.80%

Up flux rate of LUM(%): 48.20%

Down flux rate of LUM(%): 51.80%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 20.707%

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Zonal flux distribution table

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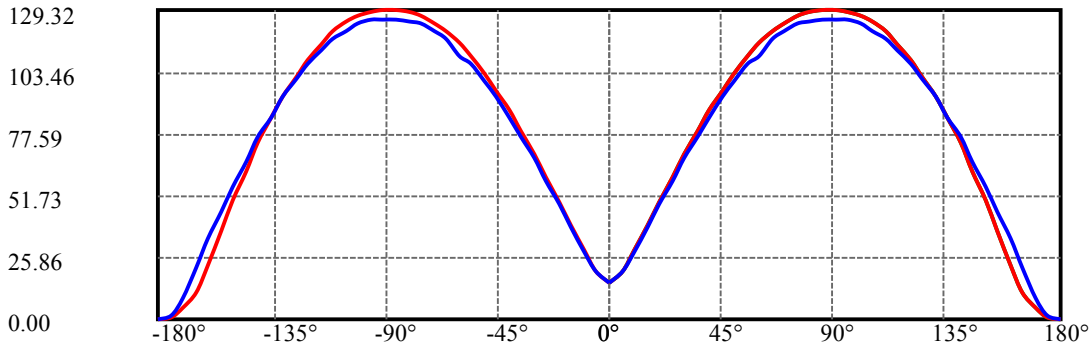
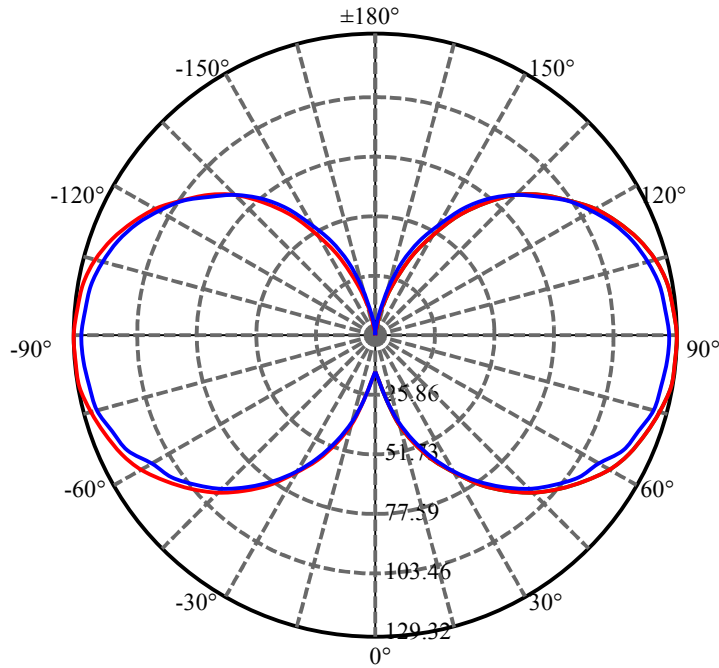
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15.406	0.000	0	0.00%	0.00%
5.0	19.732	0.420	0.42	0.03%	0.03%
10.0	28.498	1.725	2.145	0.14%	0.17%
15.0	38.440	3.971	6.116	0.32%	0.49%
20.0	48.230	7.143	13.259	0.58%	1.07%
25.0	58.096	11.152	24.41	0.90%	1.97%
30.0	67.696	15.919	40.33	1.28%	3.25%
35.0	76.803	21.279	61.608	1.71%	4.96%
40.0	85.189	27.027	88.635	2.18%	7.14%
45.0	93.462	33.079	121.714	2.66%	9.80%
50.0	100.823	39.258	160.972	3.16%	12.96%
55.0	107.426	45.280	206.253	3.65%	16.60%
60.0	113.004	50.952	257.204	4.10%	20.71%
65.0	117.823	56.115	313.319	4.52%	25.22%
70.0	121.542	60.609	373.928	4.88%	30.10%
75.0	124.388	64.282	438.21	5.18%	35.28%
80.0	126.058	67.012	505.222	5.39%	40.67%
85.0	126.892	68.733	573.955	5.53%	46.21%
90.0	126.855	69.478	643.433	5.59%	51.80%
95.0	126.058	69.249	712.682	5.58%	57.38%
100.0	124.388	68.052	780.734	5.48%	62.86%
105.0	121.694	65.845	846.579	5.30%	68.16%
110.0	117.861	62.616	909.195	5.04%	73.20%
115.0	112.776	58.399	967.594	4.70%	77.90%
120.0	107.047	53.439	1021.033	4.30%	82.20%
125.0	100.140	47.891	1068.924	3.86%	86.06%
130.0	92.665	41.922	1110.846	3.38%	89.43%
135.0	84.279	35.754	1146.6	2.88%	92.31%
140.0	75.096	29.509	1176.11	2.38%	94.69%
145.0	64.395	23.273	1199.383	1.87%	96.56%
150.0	53.277	17.328	1216.711	1.40%	97.95%
155.0	42.158	12.077	1228.788	0.97%	98.93%
160.0	30.433	7.613	1236.402	0.61%	99.54%
165.0	17.721	3.969	1240.37	0.32%	99.86%
170.0	6.792	1.454	1241.824	0.12%	99.98%
175.0	1.025	0.280	1242.104	0.02%	100.00%
180.0	0.000	0.012	1242.116	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	40.33	3.25%	3.25%
0-40	88.64	7.14%	7.14%
0-60	257.20	20.71%	20.71%
0-90	643.43	51.80%	51.80%
0-120	1021.03	82.20%	82.20%
0-180	1242.12	100.00%	100.00%
60-90	386.23	31.09%	31.09%
90-120	377.60	30.40%	30.40%
90-130	467.41	37.63%	37.63%
90-150	573.28	46.15%	46.15%
90-180	598.67	48.20%	48.20%
0-117.44	993.69	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	2.15
10-20	11.11
20-30	27.07
30-40	48.31
40-50	72.34
50-60	96.23
60-70	116.72
70-80	131.29
80-90	138.21
90-100	137.30
100-110	128.46
110-120	111.84
120-130	89.81
130-140	65.26
140-150	40.60
150-160	19.69
160-170	5.42
170-180	0.28



C0(Max): ———

C0/C180: ———

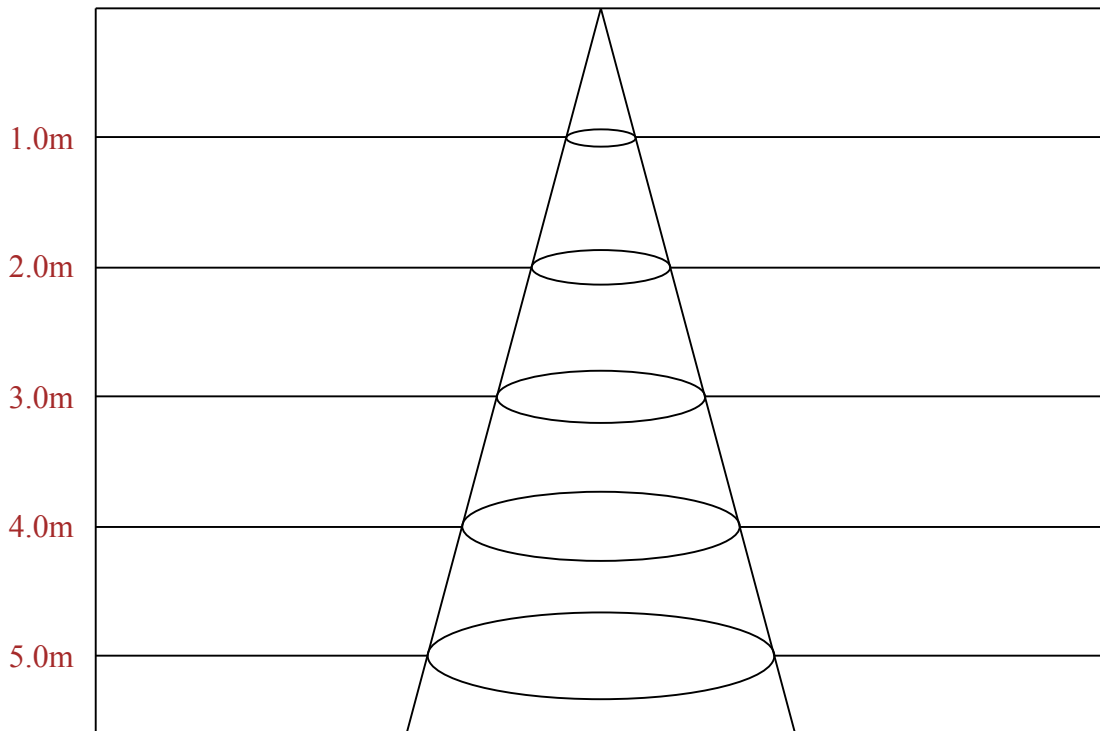
C90/C270: ———

Field angle(10%Imax):C0/180Left:254.2 Right:74.2

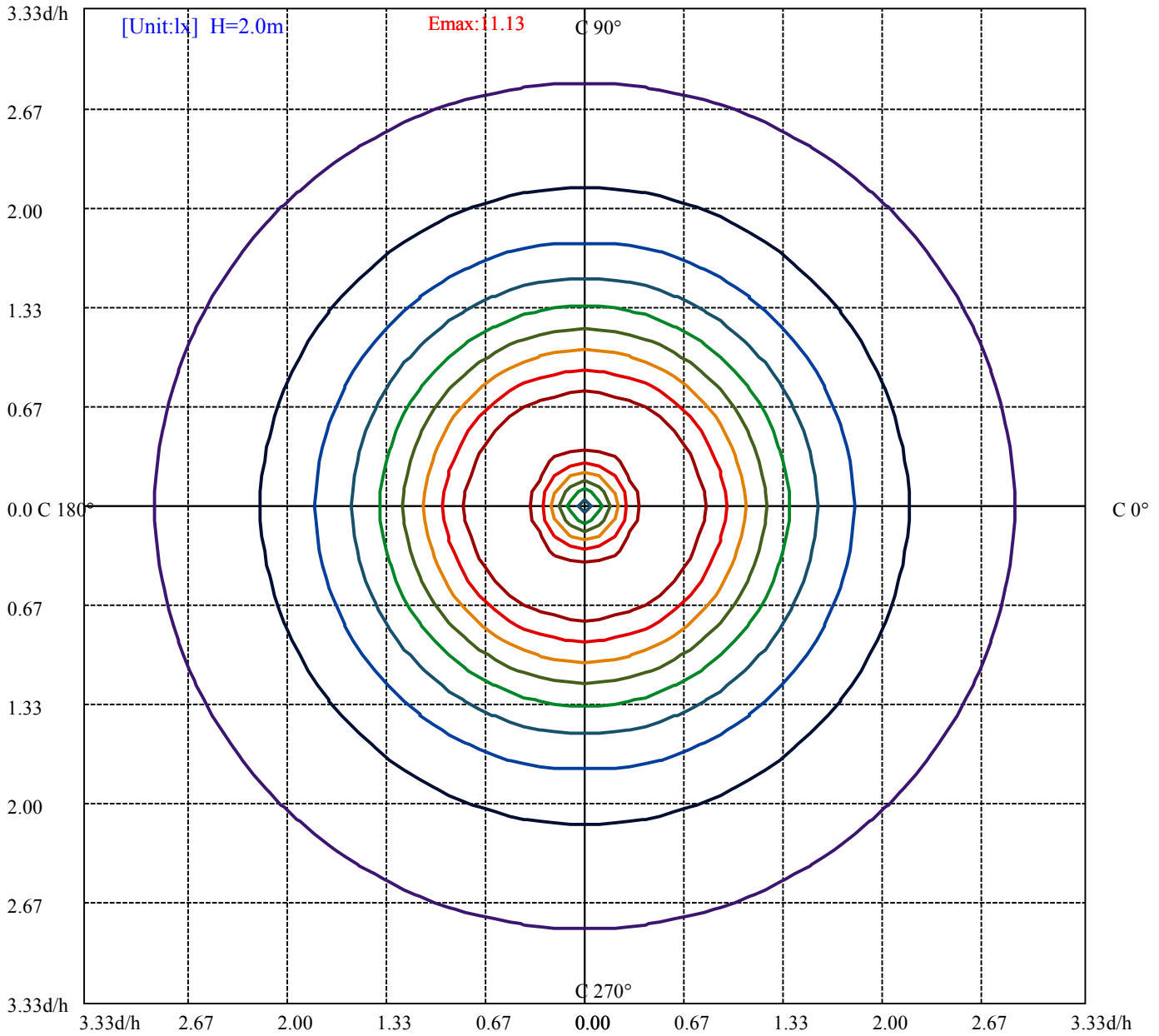
:C90/270Left:258.6 Right:78.6

Beam Angle(50%Imax):C0/180Left:233.9 Right:53.9

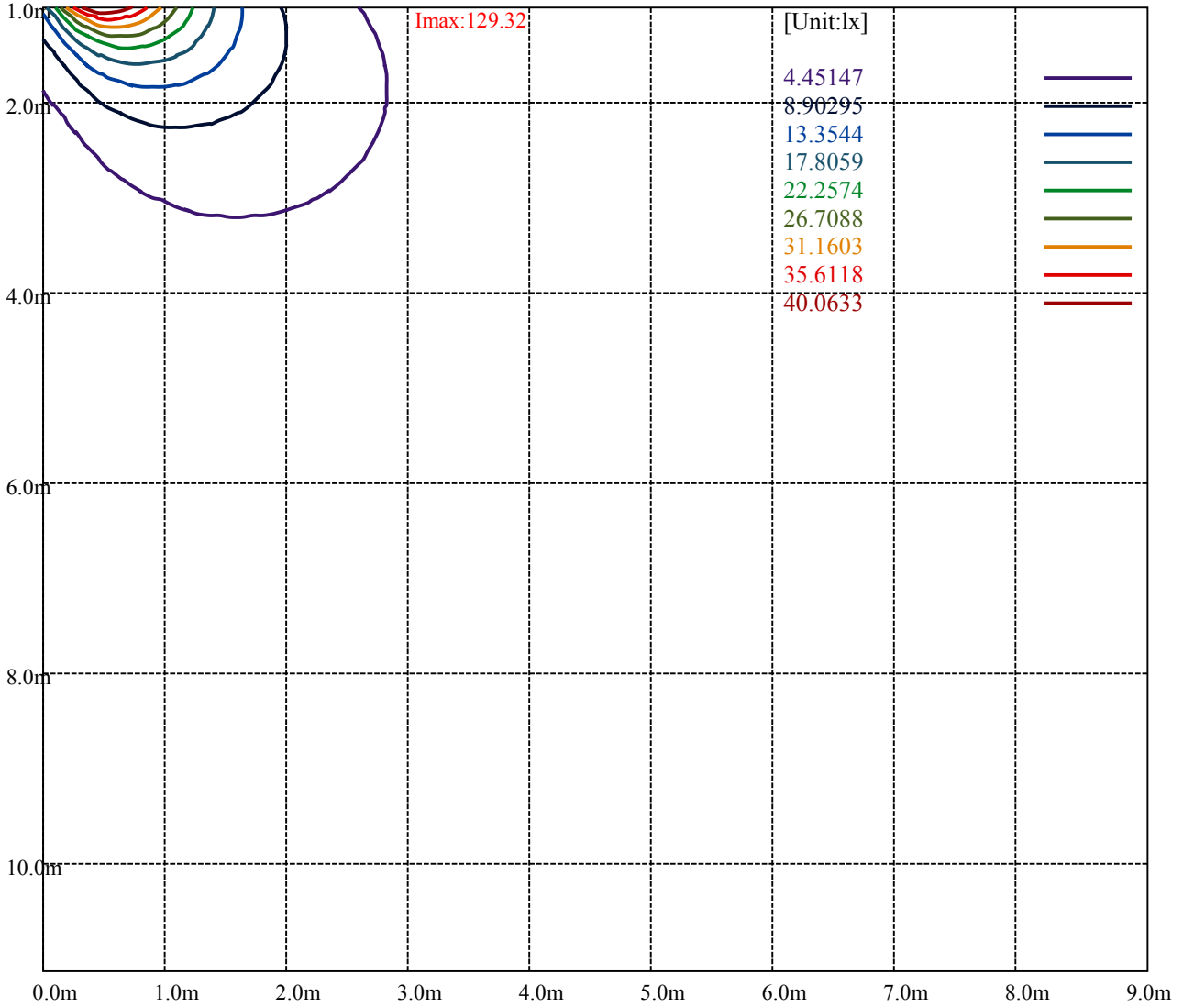
:C90/270Left:236.5 Right:56.5



Max , Ave Beam angle of C0 plane 331.43



- (10%Emax) 1.112867
- (20%Emax) 2.225735
- (30%Emax) 3.3386
- (40%Emax) 4.451475
- (50%Emax) 5.56435
- (60%Emax) 6.6772
- (70%Emax) 7.790075
- (80%Emax) 8.90295
- (90%Emax) 10.0158



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Luminance Limiting Curve(no luminous side)

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Luminance Table

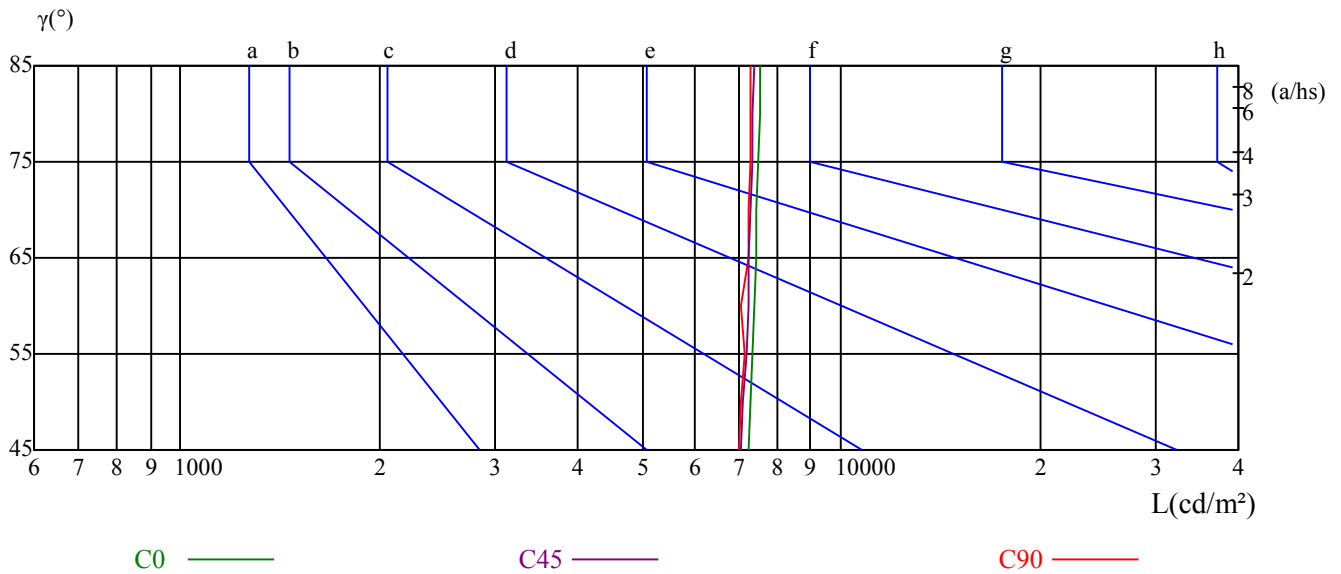
γ	45	50	55	60	65	70	75	80	85
C0	7235	7287	7355	7412	7434	7456	7478	7529	7530
C45	7063	7126	7188	7237	7265	7305	7343	7356	7384
C90	7029	7062	7142	7062	7237	7236	7289	7289	7318

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
178851	174109	174786	307528	299784	301997	932950	906670	914882

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	1.08	1.08	1.08	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.58	0.58	0.58	0.52
1	0.86	0.80	0.74	0.79	0.73	0.68	0.65	0.61	0.57	0.53	0.50	0.47	0.42	0.40	0.37	0.32
2	0.72	0.63	0.56	0.66	0.58	0.52	0.54	0.48	0.43	0.44	0.39	0.35	0.34	0.30	0.27	0.22
3	0.61	0.52	0.44	0.56	0.47	0.41	0.46	0.39	0.34	0.37	0.31	0.27	0.28	0.24	0.21	0.16
4	0.53	0.43	0.36	0.48	0.40	0.33	0.40	0.33	0.27	0.32	0.26	0.22	0.24	0.20	0.16	0.12
5	0.46	0.37	0.29	0.42	0.34	0.27	0.35	0.28	0.22	0.28	0.22	0.18	0.21	0.17	0.13	0.10
6	0.41	0.32	0.25	0.38	0.29	0.23	0.31	0.24	0.19	0.25	0.19	0.15	0.19	0.14	0.11	0.08
7	0.37	0.28	0.21	0.34	0.25	0.19	0.28	0.21	0.16	0.22	0.17	0.13	0.17	0.13	0.09	0.06
8	0.33	0.24	0.18	0.30	0.22	0.17	0.25	0.18	0.14	0.20	0.15	0.11	0.15	0.11	0.08	0.05
9	0.30	0.21	0.16	0.27	0.20	0.15	0.23	0.16	0.12	0.18	0.13	0.09	0.14	0.10	0.07	0.05
10	0.27	0.19	0.14	0.25	0.18	0.13	0.21	0.15	0.10	0.17	0.12	0.08	0.13	0.09	0.06	0.04

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	15.48	15.48	23.68	33.70	42.80	52.82	61.93	71.95	81.05
15.0	15.48	15.48	23.68	33.70	43.71	52.82	62.84	71.95	81.05
30.0	15.48	15.48	23.68	33.70	43.71	53.73	63.75	72.86	81.05
45.0	15.48	16.39	24.59	33.70	43.71	53.73	63.75	72.86	81.96
60.0	15.48	16.39	24.59	33.70	43.71	53.73	63.75	72.86	81.96
75.0	15.48	15.48	24.59	34.61	43.71	53.73	63.75	72.86	81.96
90.0	15.48	16.39	23.68	33.70	43.71	53.73	63.75	72.86	81.96
105.0	15.48	15.48	24.59	33.70	43.71	53.73	63.75	72.86	81.96
120.0	15.48	15.48	23.68	33.70	43.71	53.73	63.75	72.86	81.96
135.0	14.57	15.48	23.68	33.70	43.71	53.73	63.75	72.86	81.96
150.0	15.48	15.48	23.68	33.70	51.00	53.73	63.75	72.86	82.87
165.0	15.48	15.48	22.77	33.70	42.80	53.73	63.75	72.86	82.87
180.0	15.48	24.59	33.70	44.62	54.64	65.57	75.59	84.70	93.80
195.0	15.48	23.68	33.70	44.62	54.64	65.57	74.68	84.70	92.89
210.0	15.48	23.68	34.61	44.62	54.64	64.66	74.68	83.79	91.98
225.0	15.48	23.68	33.70	43.71	54.64	63.75	73.77	82.87	91.07
240.0	15.48	23.68	32.79	43.71	53.73	63.75	72.86	81.96	90.16
255.0	15.48	23.68	32.79	42.80	52.82	62.84	71.95	81.05	89.25
270.0	15.48	23.68	32.79	42.80	51.91	61.93	71.04	80.14	87.43
285.0	15.48	23.68	32.79	41.89	51.91	61.02	70.12	78.32	80.14
300.0	15.48	23.68	31.87	41.89	44.62	61.02	69.21	78.32	86.52
315.0	14.57	23.68	32.79	41.89	51.00	60.11	69.21	78.32	85.61
330.0	15.48	23.68	32.79	41.89	51.00	60.11	69.21	78.32	86.52
345.0	15.48	23.68	32.79	42.80	51.91	61.02	70.12	78.32	86.52
360.0	15.48	15.48	23.68	33.70	42.80	52.82	61.93	71.95	81.05
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	89.25	96.54	103.82	109.29	114.75	118.39	122.04	124.77	125.68
15.0	89.25	96.54	103.82	110.20	114.75	119.30	122.95	124.77	126.59
30.0	89.25	97.45	104.73	110.20	115.66	119.30	122.95	125.68	126.59
45.0	90.16	97.45	104.73	110.20	115.66	120.21	123.86	125.68	127.50
60.0	90.16	98.36	104.73	111.11	116.57	120.21	123.86	125.68	127.50
75.0	90.16	98.36	104.73	111.11	115.66	120.21	123.86	125.68	127.50
90.0	90.16	97.45	104.73	111.11	116.57	120.21	123.86	125.68	127.50
105.0	90.16	98.36	104.73	111.11	116.57	120.21	123.86	125.68	127.50
120.0	90.16	97.45	104.73	111.11	116.57	121.12	123.86	126.59	127.50
135.0	90.16	98.36	105.64	112.02	116.57	121.12	124.77	126.59	127.50
150.0	91.07	99.27	106.55	112.93	118.39	122.95	125.68	127.50	128.41
165.0	91.98	99.27	107.46	113.84	118.39	122.95	125.68	128.41	129.32
180.0	102.00	109.29	115.66	122.04	125.68	129.32	131.14	132.96	132.96
195.0	101.09	108.37	114.75	120.21	124.77	128.41	130.23	132.05	132.05
210.0	100.18	107.46	113.84	119.30	123.86	127.50	130.23	131.14	131.14
225.0	99.27	106.55	112.93	118.39	122.95	125.68	128.41	129.32	130.23
240.0	97.45	105.64	111.11	116.57	121.12	123.86	126.59	127.50	128.41
255.0	96.54	103.82	110.20	114.75	119.30	122.04	124.77	124.77	125.68
270.0	95.62	102.00	108.37	109.29	117.48	120.21	122.95	123.86	123.86
285.0	93.80	100.18	106.55	112.02	115.66	119.30	121.12	122.95	122.95
300.0	93.80	100.18	105.64	111.11	114.75	118.39	120.21	122.04	122.04
315.0	93.80	100.18	105.64	111.11	114.75	118.39	120.21	122.04	122.04
330.0	93.80	100.18	106.55	111.11	115.66	118.39	121.12	122.04	122.04
345.0	93.80	101.09	106.55	112.02	115.66	119.30	121.12	122.04	122.95
360.0	89.25	96.54	103.82	109.29	114.75	118.39	122.04	124.77	125.68

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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	125.68	125.68	124.77	122.95	119.30	113.84	108.37	101.09	93.80
15.0	126.59	126.59	124.77	122.95	120.21	115.66	109.29	102.91	95.62
30.0	126.59	126.59	125.68	123.86	120.21	115.66	110.20	103.82	96.54
45.0	127.50	127.50	125.68	123.86	121.12	116.57	111.11	104.73	97.45
60.0	127.50	127.50	126.59	123.86	121.12	116.57	111.11	104.73	98.36
75.0	127.50	127.50	125.68	123.86	121.12	116.57	112.02	105.64	98.36
90.0	127.50	127.50	126.59	123.86	121.12	116.57	111.11	105.64	98.36
105.0	127.50	127.50	125.68	123.86	120.21	116.57	111.11	105.64	98.36
120.0	127.50	127.50	125.68	123.86	121.12	116.57	111.11	105.64	99.27
135.0	128.41	127.50	126.59	123.86	121.12	116.57	112.02	105.64	99.27
150.0	128.41	128.41	127.50	124.77	122.04	117.48	112.02	106.55	99.27
165.0	129.32	128.41	127.50	124.77	122.04	117.48	112.93	106.55	100.18
180.0	132.96	131.14	129.32	125.68	121.12	115.66	109.29	101.09	92.89
195.0	132.05	130.23	128.41	124.77	119.30	113.84	106.55	98.36	90.16
210.0	131.14	129.32	127.50	123.86	119.30	113.84	107.46	101.09	92.89
225.0	129.32	128.41	125.68	122.95	118.39	112.93	111.11	99.27	91.98
240.0	127.50	126.59	125.68	121.12	116.57	111.11	104.73	98.36	90.16
255.0	125.68	124.77	122.04	119.30	114.75	109.29	103.82	96.54	88.34
270.0	123.86	122.95	120.21	117.48	113.84	108.37	102.00	94.71	87.43
285.0	122.95	121.12	119.30	116.57	112.02	106.55	100.18	92.89	85.61
300.0	122.04	120.21	118.39	115.66	111.11	105.64	99.27	91.98	83.79
315.0	122.04	120.21	118.39	115.66	111.11	104.73	98.36	91.07	82.87
330.0	122.04	121.12	118.39	115.66	110.20	104.73	97.45	90.16	81.96
345.0	122.95	121.12	119.30	115.66	110.20	103.82	96.54	89.25	81.05
360.0	125.68	125.68	124.77	122.95	119.30	113.84	108.37	101.09	93.80

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	85.61	74.68	62.84	52.82	39.16	25.50	13.66	7.29	0.91
15.0	87.43	77.41	68.30	56.46	46.45	32.79	21.86	12.75	0.91
30.0	88.34	79.23	69.21	60.11	49.18	38.25	26.41	15.48	2.73
45.0	89.25	81.05	71.95	61.93	51.00	40.98	29.14	17.30	4.55
60.0	90.16	81.96	72.86	62.84	52.82	41.89	30.05	18.21	5.46
75.0	91.07	82.87	72.86	63.75	51.91	40.98	29.14	17.30	5.46
90.0	91.07	81.96	71.95	61.02	49.18	37.34	24.59	12.75	2.73
105.0	91.07	80.14	69.21	57.37	44.62	30.96	17.30	4.55	0.91
120.0	91.07	80.14	67.39	53.73	41.89	27.32	11.84	0.91	0.00
135.0	91.07	80.14	67.39	53.73	40.98	25.50	9.11	0.91	0.00
150.0	91.98	81.05	69.21	55.55	42.80	26.41	10.93	0.91	0.00
165.0	91.98	82.87	70.12	58.29	44.62	30.96	14.57	1.82	0.00
180.0	83.79	73.77	61.02	46.45	34.61	20.04	8.20	1.82	0.00
195.0	80.14	71.04	59.20	48.27	38.25	36.43	16.39	5.46	0.00
210.0	83.79	81.96	65.57	54.64	42.80	31.87	20.04	8.20	0.91
225.0	82.87	73.77	64.66	53.73	43.71	31.87	20.04	8.20	0.00
240.0	81.96	72.86	62.84	51.91	41.89	30.96	19.12	7.29	0.00
255.0	80.14	71.04	61.93	51.00	40.98	30.05	18.21	6.37	0.00
270.0	78.32	70.12	60.11	50.09	40.07	30.05	18.21	5.46	0.00
285.0	77.41	68.30	59.20	49.18	39.16	28.23	16.39	4.55	0.00
300.0	75.59	66.48	57.37	47.36	38.25	26.41	15.48	2.73	0.00
315.0	73.77	64.66	54.64	45.54	35.52	24.59	14.57	0.91	0.00
330.0	72.86	63.75	53.73	42.80	32.79	22.77	11.84	0.91	0.00
345.0	71.95	61.02	51.91	40.07	29.14	18.21	8.20	0.91	0.00
360.0	85.61	74.68	62.84	52.82	39.16	25.50	13.66	7.29	0.91

Intensity data(cd)

C/γ(°)	180.0
0.0	0.00
15.0	0.00
30.0	0.00
45.0	0.00
60.0	0.00
75.0	0.00
90.0	0.00
105.0	0.00
120.0	0.00
135.0	0.00
150.0	0.00
165.0	0.00
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