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乐达凯

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Client:

LumCAT: BRIP04LAJUDPC-2700K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP25120109

Voltage(V): 120.050

LampCAT:

Current(A): 0.119

Lamp flux(lm): 1375.5

Power (W): 14.140

Number of Lamps: 1

PF: 0.987

Length(mm): -90

Width(mm): -90

Phm Type: C

Height(mm): 375

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Photometric Results

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Lumens(lm): 1375.52, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 97.28

Central intensity(cd): 12.291, Maximum intensity(cd): 153.553

Angle of maximum intensity: C=15.0  $\gamma$ =90.0

Beam Angle(50%Imax): [C0/180]Total=275.8

[C90/270]Total=277.0

Field angle(10%Imax): [C0/180]Total=339.6

[C90/270]Total=345.6

Maximum s/h(1/2): C0\_180=5.35 C90\_270=3.54

Maximum s/h(1/4): C0\_180=4.99 C90\_270=3.48

Up flux rate of lamp(%): 48.62%

Down flux rate of lamp(%): 51.38%

Up flux rate of LUM(%): 48.62%

Down flux rate of LUM(%): 51.38%

CIE Type : General diffuse lighting

Output flux ratio in  $\pi$  solid angle : 18.674%

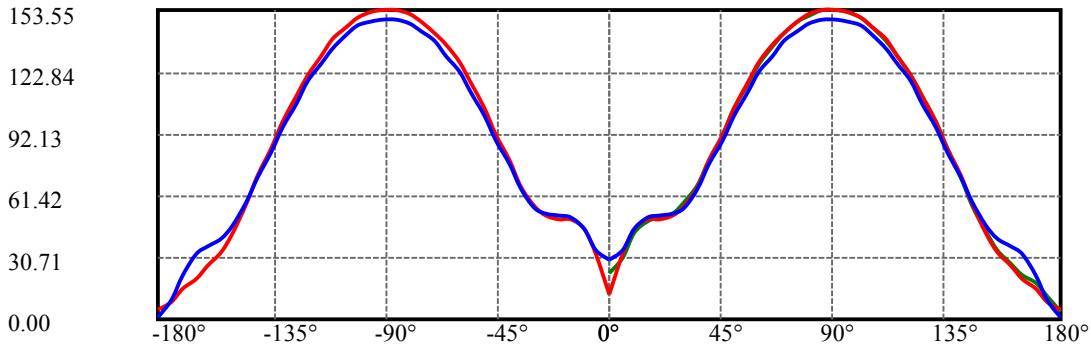
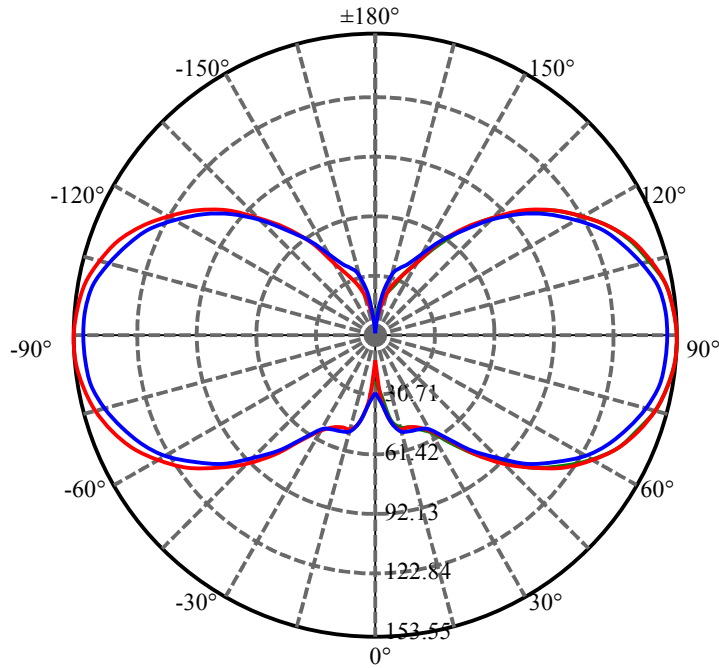
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	24.089	0.000	0	0.00%	0.00%
5.0	32.515	0.677	0.677	0.05%	0.05%
10.0	44.153	2.743	3.419	0.20%	0.25%
15.0	49.603	5.562	8.981	0.40%	0.65%
20.0	51.076	8.297	17.278	0.60%	1.26%
25.0	52.205	10.832	28.11	0.79%	2.04%
30.0	56.717	13.784	41.895	1.00%	3.05%
35.0	65.868	18.051	59.946	1.31%	4.36%
40.0	77.315	23.889	83.835	1.74%	6.09%
45.0	90.402	31.054	114.889	2.26%	8.35%
50.0	103.165	39.113	154.002	2.84%	11.20%
55.0	114.798	47.392	201.395	3.45%	14.64%
60.0	125.149	55.463	256.858	4.03%	18.67%
65.0	133.587	62.899	319.757	4.57%	23.25%
70.0	140.233	69.333	389.09	5.04%	28.29%
75.0	145.366	74.651	463.741	5.43%	33.71%
80.0	148.977	78.758	542.499	5.73%	39.44%
85.0	150.914	81.487	623.987	5.92%	45.36%
90.0	151.441	82.787	706.774	6.02%	51.38%
95.0	150.110	82.567	789.34	6.00%	57.38%
100.0	147.721	80.928	870.268	5.88%	63.27%
105.0	143.344	77.881	948.149	5.66%	68.93%
110.0	137.179	73.324	1021.473	5.33%	74.26%
115.0	129.190	67.447	1088.92	4.90%	79.16%
120.0	120.204	60.628	1149.548	4.41%	83.57%
125.0	108.843	52.944	1202.491	3.85%	87.42%
130.0	96.477	44.643	1247.135	3.25%	90.67%
135.0	83.513	36.370	1283.504	2.64%	93.31%
140.0	70.694	28.553	1312.057	2.08%	95.39%
145.0	57.225	21.342	1333.399	1.55%	96.94%
150.0	45.760	15.165	1348.565	1.10%	98.04%
155.0	37.405	10.525	1359.089	0.77%	98.81%
160.0	32.224	7.303	1366.392	0.53%	99.34%
165.0	27.742	4.942	1371.334	0.36%	99.70%
170.0	20.942	2.888	1374.222	0.21%	99.91%
175.0	10.792	1.135	1375.357	0.08%	99.99%
180.0	2.763	0.162	1375.519	0.01%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	41.89	3.05%	3.05%
0-40	83.84	6.09%	6.09%
0-60	256.86	18.67%	18.67%
0-90	706.77	51.38%	51.38%
0-120	1149.55	83.57%	83.57%
0-180	1375.52	100.00%	100.00%
60-90	449.92	32.71%	32.71%
90-120	442.77	32.19%	32.19%
90-130	540.36	39.28%	39.28%
90-150	641.79	46.66%	46.66%
90-180	668.58	48.61%	48.61%
0-115.95	1100.42	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	3.42
10-20	13.86
20-30	24.62
30-40	41.94
40-50	70.17
50-60	102.86
60-70	132.23
70-80	153.41
80-90	164.27
90-100	163.49
100-110	151.20
110-120	128.07
120-130	97.59
130-140	64.92
140-150	36.51
150-160	17.83
160-170	7.83
170-180	1.14



C15(Max): ——

C0/C180: ——

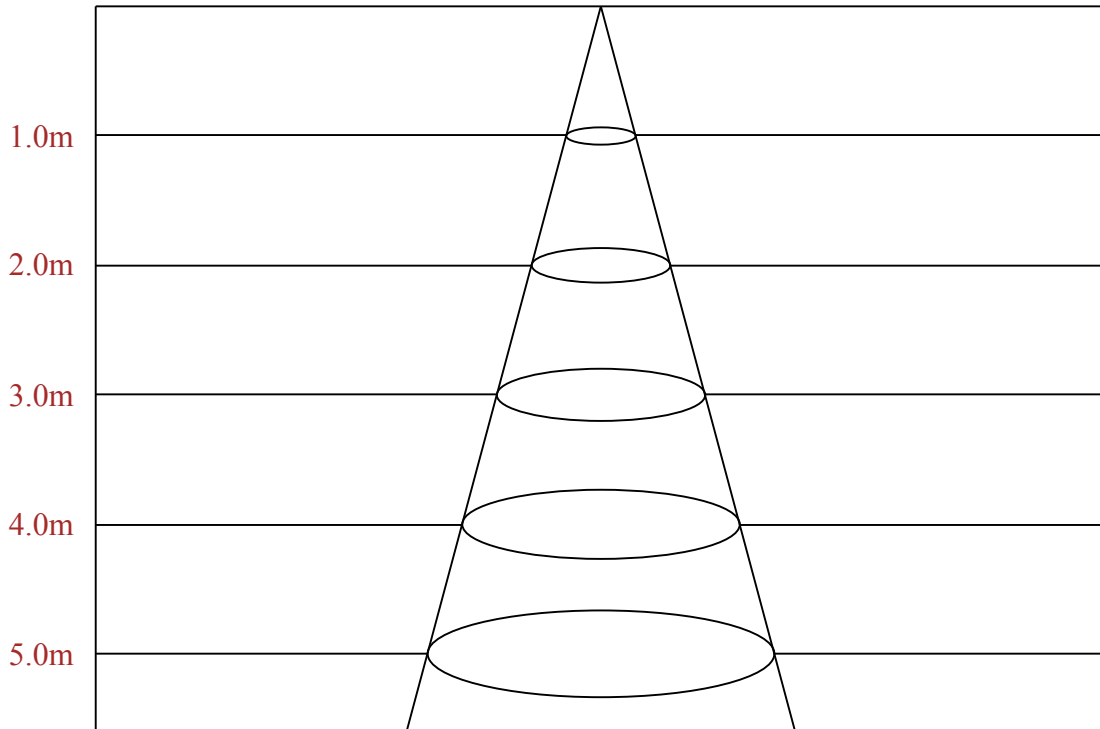
C90/C270: ——

Field angle(10%Imax):C0/180Left:259.8 Right:79.8

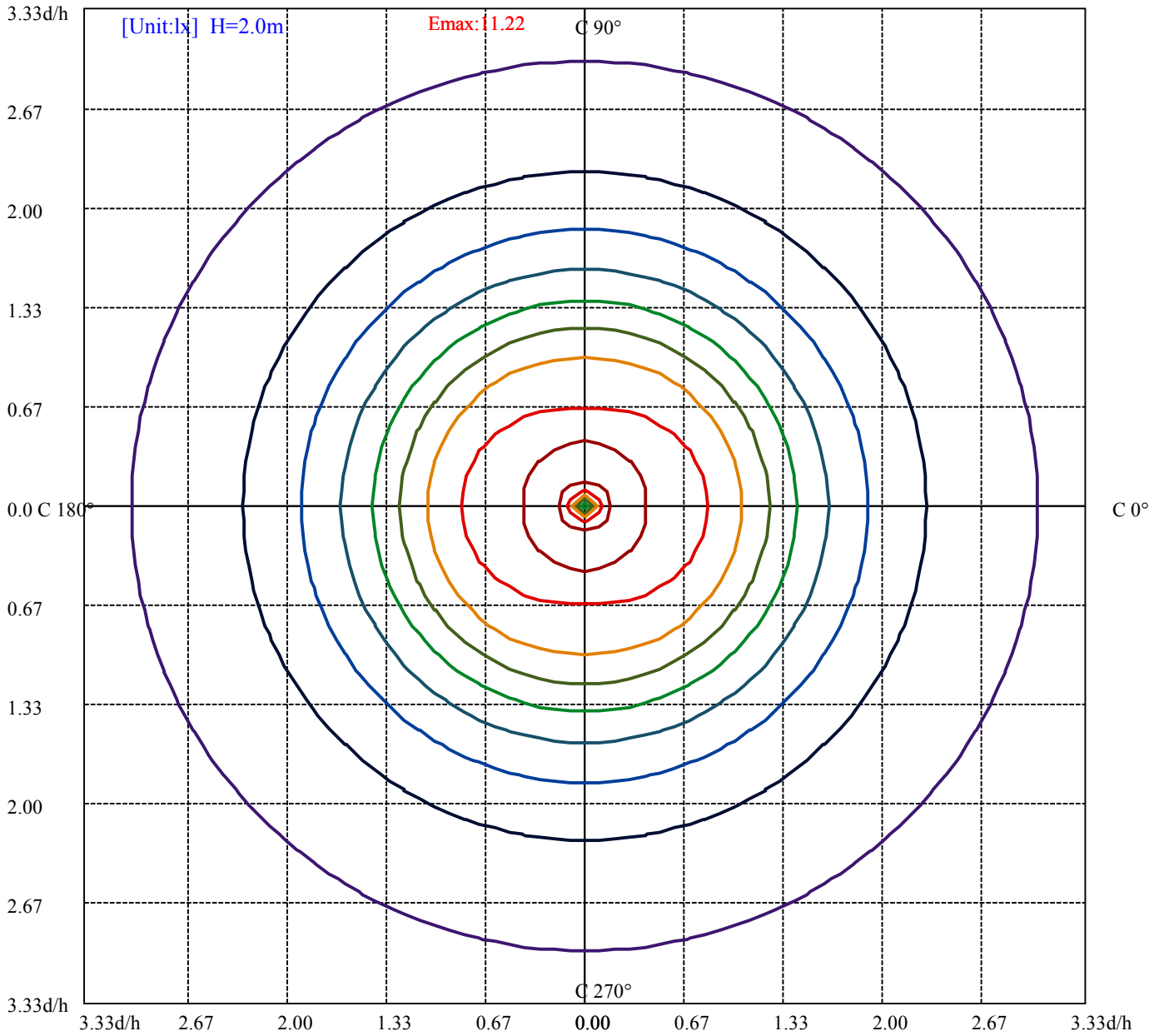
:C90/270Left:262.8 Right:82.8

Beam Angle(50%Imax):C0/180Left:227.9 Right:47.9

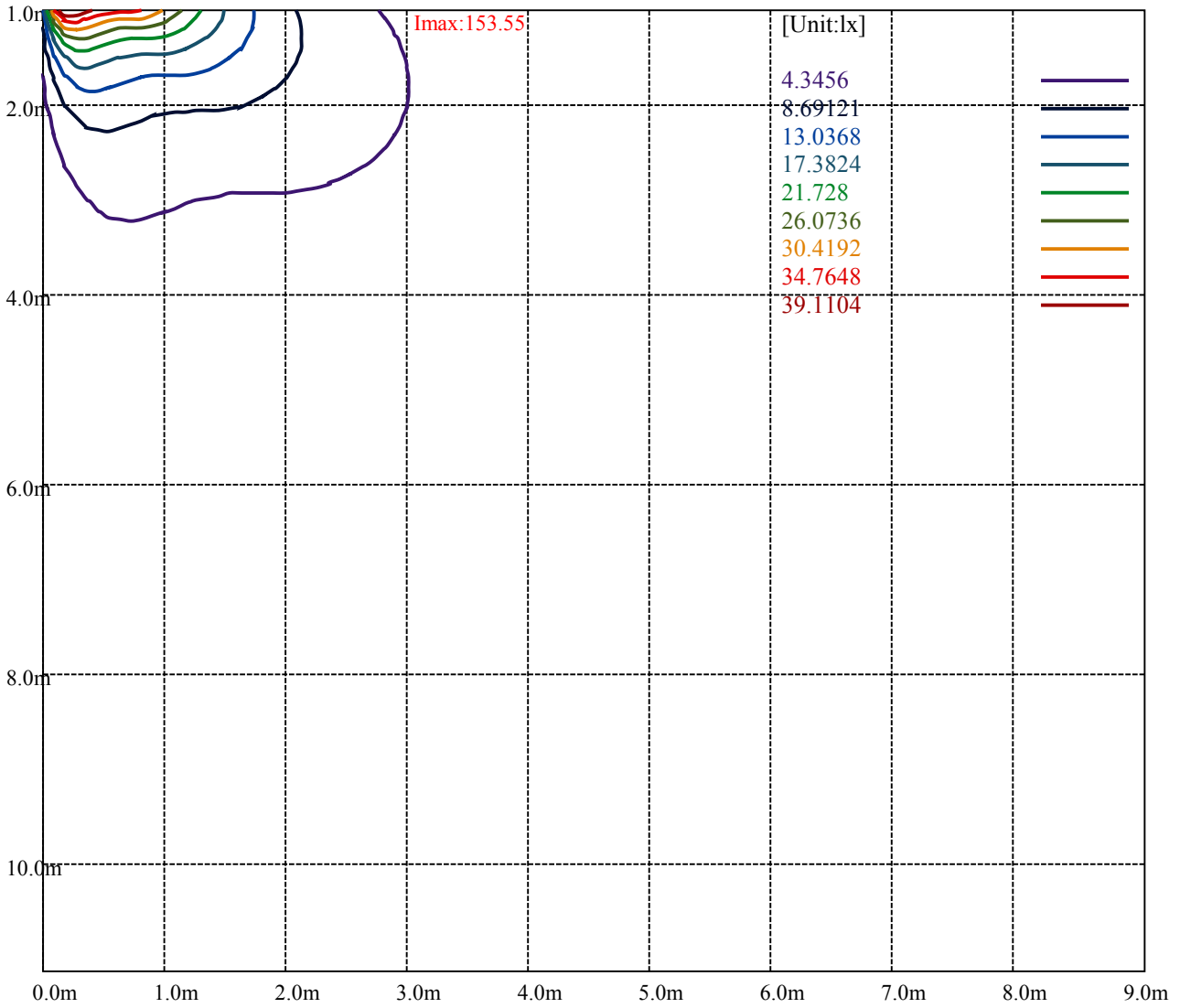
:C90/270Left:228.5 Right:48.5



Max , Ave      Beam angle of C15 plane 344.05



- (10%Emax) 1.12196
- (20%Emax) 2.243917
- (30%Emax) 3.365875
- (40%Emax) 4.487825
- (50%Emax) 5.6098
- (60%Emax) 6.73175
- (70%Emax) 7.8537
- (80%Emax) 8.975675
- (90%Emax) 10.09762



Luminance Table

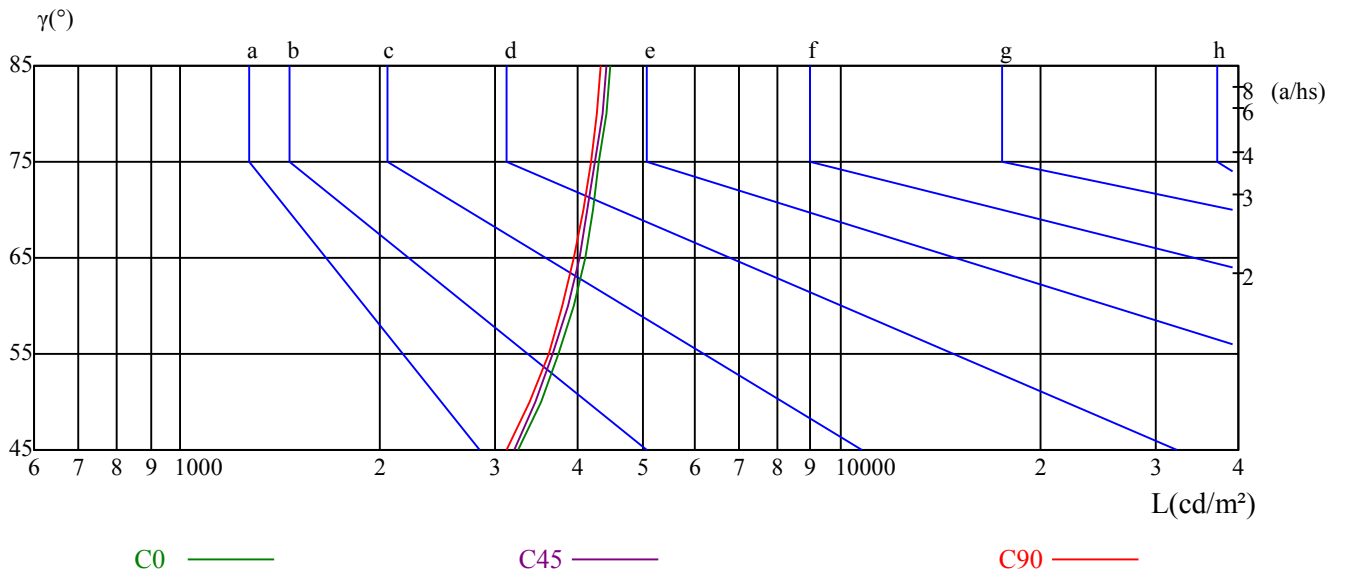
$\gamma$	45	50	55	60	65	70	75	80	85
C0	3244	3513	3747	3946	4089	4203	4307	4402	4484
C45	3193	3454	3665	3869	4016	4140	4244	4344	4415
C90	3120	3381	3601	3783	3935	4069	4177	4270	4342

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
50606	48704	49705	89580	86883	88272	276374	267636	272127

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	0.84	0.84	0.84	0.70	0.70	0.70	0.57	0.57	0.57	0.51
1	0.85	0.79	0.73	0.78	0.72	0.67	0.65	0.60	0.56	0.52	0.49	0.46	0.41	0.39	0.36	0.31
2	0.71	0.62	0.55	0.65	0.57	0.51	0.53	0.47	0.42	0.43	0.38	0.34	0.33	0.29	0.26	0.21
3	0.60	0.51	0.43	0.55	0.46	0.40	0.45	0.38	0.33	0.36	0.30	0.26	0.27	0.23	0.20	0.15
4	0.52	0.42	0.35	0.48	0.39	0.32	0.39	0.32	0.26	0.31	0.25	0.21	0.23	0.19	0.15	0.11
5	0.46	0.36	0.29	0.42	0.33	0.26	0.34	0.27	0.22	0.27	0.21	0.17	0.20	0.16	0.12	0.09
6	0.41	0.31	0.24	0.37	0.28	0.22	0.30	0.23	0.18	0.24	0.18	0.14	0.18	0.14	0.10	0.07
7	0.36	0.27	0.21	0.33	0.25	0.19	0.27	0.20	0.15	0.21	0.16	0.12	0.16	0.12	0.09	0.06
8	0.33	0.24	0.18	0.30	0.22	0.16	0.24	0.18	0.13	0.19	0.14	0.10	0.15	0.11	0.07	0.05
9	0.30	0.21	0.15	0.27	0.19	0.14	0.22	0.16	0.12	0.18	0.13	0.09	0.14	0.09	0.06	0.04
10	0.27	0.19	0.14	0.25	0.17	0.12	0.20	0.14	0.10	0.16	0.11	0.08	0.12	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	12.29	32.48	43.60	48.54	49.79	52.49	58.14	67.92	81.37
15.0	14.80	31.31	42.98	47.19	48.72	51.41	57.60	67.65	79.85
30.0	17.76	30.06	41.90	46.56	48.09	50.96	56.16	66.66	77.88
45.0	21.17	29.16	41.27	46.03	47.55	49.79	55.00	63.34	75.81
60.0	23.87	27.27	40.46	45.67	46.92	47.73	51.50	60.74	72.22
75.0	26.83	25.75	38.49	45.31	46.12	46.12	48.00	57.15	68.37
90.0	29.52	23.78	36.43	44.32	46.03	44.68	45.85	53.83	66.03
105.0	30.77	20.90	34.72	43.60	45.67	43.51	43.78	51.41	62.00
120.0	31.67	18.48	33.46	42.62	45.31	43.51	43.60	49.79	59.84
135.0	16.06	15.61	32.57	42.89	46.29	44.77	44.59	50.78	60.74
150.0	32.48	12.83	32.75	43.51	47.10	46.74	47.64	53.29	63.16
165.0	31.85	11.57	33.20	44.50	48.81	48.81	50.33	54.91	64.60
180.0	12.29	33.29	45.85	49.97	49.88	50.96	54.82	64.06	77.79
195.0	14.80	35.17	47.10	50.87	50.42	51.41	55.18	64.06	77.34
210.0	17.76	37.50	48.27	52.84	53.11	53.47	56.88	66.03	78.32
225.0	21.17	39.30	49.88	55.18	55.80	55.80	60.47	69.53	81.46
240.0	23.87	41.18	51.14	56.43	57.42	58.23	64.15	72.85	84.34
255.0	26.83	43.24	52.84	57.06	57.42	59.03	65.14	74.47	86.13
270.0	29.52	44.59	53.47	57.06	57.60	60.02	65.31	75.99	87.56
285.0	30.77	45.76	53.56	56.25	57.78	60.02	65.94	76.80	79.67
300.0	31.67	46.20	52.93	55.36	55.72	59.12	66.93	78.32	90.97
315.0	16.06	45.58	52.13	54.37	56.25	58.32	67.20	79.49	92.05
330.0	32.48	44.95	50.96	53.11	54.82	58.05	68.37	80.75	93.76
345.0	31.85	44.41	49.70	51.23	53.20	57.96	68.63	81.02	94.29
360.0	12.29	32.48	43.60	48.54	49.79	52.49	58.14	67.92	81.37
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	92.59	105.15	116.81	127.13	134.94	141.58	146.60	150.91	153.24
15.0	91.96	103.62	116.27	126.14	134.31	141.31	146.87	151.00	153.42
30.0	90.08	102.28	114.03	124.71	132.87	140.41	145.70	149.74	151.80
45.0	87.92	100.66	111.25	122.11	129.91	137.18	143.82	147.95	149.92
60.0	85.41	97.34	109.01	119.06	127.85	135.65	141.75	146.24	149.11
75.0	80.39	93.49	105.15	115.11	123.36	131.35	138.17	142.38	145.52
90.0	77.61	90.88	102.73	112.87	121.75	130.27	136.46	140.86	144.27
105.0	75.72	89.72	101.92	111.97	121.57	129.10	135.74	140.77	144.09
120.0	75.45	88.91	100.84	112.24	121.75	129.82	136.28	141.58	145.07
135.0	75.90	90.17	102.37	114.57	123.63	131.62	138.26	143.55	147.41
150.0	76.35	91.42	103.62	115.74	126.05	134.04	140.50	145.43	149.11
165.0	77.52	91.24	105.15	116.81	128.48	135.92	142.38	147.77	151.18
180.0	91.42	105.24	117.71	128.66	137.18	143.28	148.39	151.44	153.24
195.0	90.26	103.71	116.27	127.49	136.28	142.65	147.50	149.83	152.07
210.0	90.88	103.80	116.27	127.40	136.46	143.19	147.23	149.65	151.09
225.0	93.93	105.87	118.07	128.21	137.09	144.00	147.41	150.01	150.46
240.0	95.64	107.03	118.88	129.19	137.63	144.45	147.95	150.37	150.37
255.0	97.16	109.10	120.58	130.27	138.26	144.18	148.30	149.11	150.64
270.0	99.41	111.61	122.64	132.33	140.14	145.52	149.65	152.43	152.52
285.0	102.01	113.67	124.53	134.49	141.75	146.87	150.37	153.69	153.96
300.0	103.80	115.65	125.96	135.47	142.38	147.59	151.26	155.12	155.75
315.0	104.52	116.99	127.04	136.64	143.91	148.48	151.89	155.21	155.75
330.0	106.50	118.97	128.75	137.27	144.27	148.84	152.97	155.39	156.29
345.0	107.21	119.41	129.28	137.72	144.27	148.30	153.33	155.03	155.66
360.0	92.59	105.15	116.81	127.13	134.94	141.58	146.60	150.91	153.24

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Appendix Page: 11 Total:12

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	154.14	153.15	151.71	146.96	140.86	132.78	123.81	113.13	101.38
15.0	154.23	153.96	152.16	148.93	142.11	134.49	124.62	114.30	102.82
30.0	152.34	152.34	151.09	148.75	142.83	134.13	124.71	114.57	103.62
45.0	150.91	150.64	149.47	146.87	141.93	133.05	124.35	113.58	102.64
60.0	150.37	149.92	148.48	146.24	140.68	132.96	123.72	114.03	102.37
75.0	147.32	147.59	146.15	142.47	136.91	130.27	122.20	111.97	101.38
90.0	146.51	146.87	146.24	142.11	137.00	130.27	122.82	112.24	102.10
105.0	146.51	146.96	145.97	142.29	137.00	131.08	123.27	113.76	102.37
120.0	147.95	147.95	146.78	143.37	138.61	132.69	124.53	115.56	103.27
135.0	150.19	149.83	148.30	145.07	141.31	135.74	128.48	117.53	104.52
150.0	151.98	150.91	149.65	146.78	143.19	138.35	133.59	125.52	108.29
165.0	153.69	152.43	150.91	148.04	143.46	137.72	129.28	119.77	108.47
180.0	152.88	151.18	148.39	143.73	137.36	128.84	118.97	107.75	95.55
195.0	151.44	150.28	147.14	142.20	135.92	128.03	118.25	106.59	94.47
210.0	150.64	149.29	146.51	141.75	135.03	126.86	117.35	105.78	93.04
225.0	150.46	148.66	145.61	140.59	133.86	125.78	123.45	104.52	91.42
240.0	150.19	148.39	147.68	140.05	132.96	124.53	114.66	102.37	89.45
255.0	150.10	148.12	144.89	139.24	131.62	122.82	113.04	100.93	88.64
270.0	151.35	148.84	145.61	139.87	132.15	123.45	113.04	101.11	88.82
285.0	153.06	150.28	146.69	141.49	133.50	123.63	112.06	99.50	86.04
300.0	153.96	150.28	145.79	141.13	133.77	123.09	111.70	99.32	85.41
315.0	154.32	150.82	145.79	140.68	133.50	123.00	111.43	99.23	86.49
330.0	155.21	151.53	146.60	140.50	133.23	123.00	112.24	98.87	86.67
345.0	154.85	152.43	147.68	141.13	133.50	123.99	113.31	100.30	86.22
360.0	154.14	153.15	151.71	146.96	140.86	132.78	123.81	113.13	101.38

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	86.67	71.42	53.56	35.80	23.33	13.91	3.86	0.99	0.90
15.0	88.82	72.13	56.16	40.91	27.81	17.23	8.79	2.96	0.90
30.0	90.35	73.93	58.59	44.95	33.20	23.95	15.70	8.79	1.79
45.0	89.72	75.81	60.02	46.03	35.08	28.26	22.25	15.70	5.20
60.0	90.79	77.25	63.25	49.79	40.10	33.38	28.08	20.37	7.18
75.0	89.81	78.59	65.94	52.22	41.27	34.54	29.52	20.01	8.70
90.0	90.71	79.13	66.48	52.66	41.63	35.53	30.95	21.44	11.48
105.0	91.06	79.04	66.93	52.49	41.72	36.78	34.27	28.44	18.66
120.0	92.95	80.48	66.75	53.29	42.26	37.77	36.07	33.73	24.76
135.0	92.23	77.79	64.51	52.40	41.63	38.04	36.61	34.72	26.74
150.0	94.47	81.73	69.08	57.24	46.38	40.64	37.86	35.80	27.54
165.0	96.36	82.54	71.06	59.84	48.90	42.71	39.39	37.14	29.43
180.0	82.54	70.70	60.11	49.88	43.15	39.83	37.05	29.25	16.33
195.0	81.37	70.61	59.48	49.35	42.17	41.09	37.32	29.97	14.71
210.0	80.48	77.61	58.14	47.73	41.63	38.67	37.41	29.16	14.35
225.0	79.31	68.19	56.61	46.83	40.91	37.95	36.78	27.36	13.01
240.0	77.52	65.85	53.92	43.87	38.67	36.69	35.17	26.47	11.84
255.0	76.26	63.97	51.95	42.26	38.22	36.34	34.54	24.31	9.69
270.0	74.91	62.53	50.15	41.54	38.04	36.96	34.00	22.70	6.73
285.0	71.42	58.59	47.82	40.82	38.13	37.32	33.02	20.81	4.31
300.0	70.70	57.24	44.86	39.39	36.52	34.00	28.53	15.88	1.88
315.0	72.22	58.41	45.58	38.58	33.38	26.74	18.12	9.69	1.17
330.0	72.40	57.42	43.06	33.20	25.75	17.14	8.52	5.29	0.90
345.0	71.24	55.72	39.39	27.18	17.85	7.90	1.97	1.61	0.81
360.0	86.67	71.42	53.56	35.80	23.33	13.91	3.86	0.99	0.90

Intensity data(cd)

C/γ(°)	180.0
0.0	10.32
15.0	0.99
30.0	0.90
45.0	0.90
60.0	0.90
75.0	0.99
90.0	1.79
105.0	4.40
120.0	7.63
135.0	10.77
150.0	12.38
165.0	14.35
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	10.32