
乐达凯

Client:

LumCAT: MIAP15LAJUDPC-2700K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP26010191

Voltage(V): 120.050

LampCAT:

Current(A): 0.112

Lamp flux(lm): 1208.6

Power (W): 13.200

Number of Lamps: 1

PF: 0.984

Length(mm): -45

Width(mm): -45

Phm Type: C

Height(mm): 380

Photometric Results

Lumens(lm): 1208.64, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 91.56

Central intensity(cd): 15.300, Maximum intensity(cd): 125.906

Angle of maximum intensity: C=0.0 γ =85.0

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

[C90/270]Total=293.0

Field angle(10%Imax): [C0/180]Total=328.6

[C90/270]Total=337.2

Maximum s/h(1/2): C0_180=4.59 C90_270=4.53

Maximum s/h(1/4): C0_180=4.32 C90_270=4.27

Up flux rate of lamp(%): 48.19%

Down flux rate of lamp(%): 51.81%

Up flux rate of LUM(%): 48.19%

Down flux rate of LUM(%): 51.81%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 20.706%

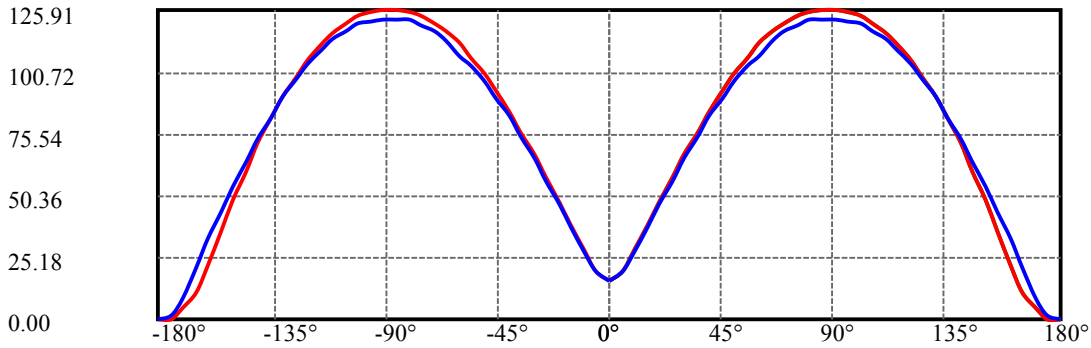
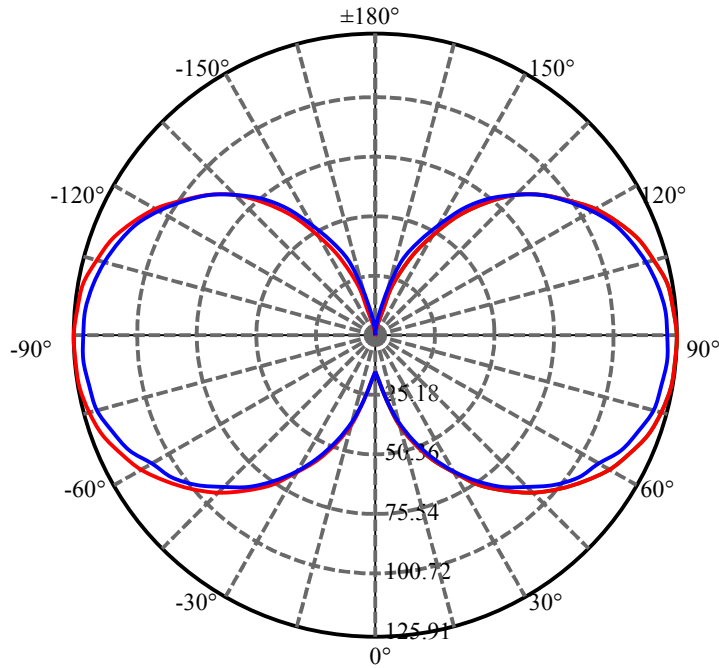
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15.034	0.000	0	0.00%	0.00%
5.0	19.292	0.410	0.41	0.03%	0.03%
10.0	27.765	1.683	2.094	0.14%	0.17%
15.0	37.385	3.865	5.958	0.32%	0.49%
20.0	47.027	6.957	12.915	0.58%	1.07%
25.0	56.555	10.864	23.779	0.90%	1.97%
30.0	65.818	15.486	39.265	1.28%	3.25%
35.0	74.694	20.691	59.957	1.71%	4.96%
40.0	82.905	26.294	86.251	2.18%	7.14%
45.0	90.999	32.200	118.451	2.66%	9.80%
50.0	98.087	38.208	156.658	3.16%	12.96%
55.0	104.497	44.049	200.707	3.64%	16.61%
60.0	109.896	49.556	250.263	4.10%	20.71%
65.0	114.681	54.595	304.858	4.52%	25.22%
70.0	118.370	59.010	363.868	4.88%	30.11%
75.0	121.064	62.584	426.453	5.18%	35.28%
80.0	122.730	65.232	491.685	5.40%	40.68%
85.0	123.451	66.893	558.578	5.53%	46.22%
90.0	123.329	67.570	626.148	5.59%	51.81%
95.0	122.631	67.346	693.494	5.57%	57.38%
100.0	121.094	66.226	759.72	5.48%	62.86%
105.0	118.374	64.075	823.795	5.30%	68.16%
110.0	114.598	60.895	884.69	5.04%	73.20%
115.0	109.775	56.813	941.503	4.70%	77.90%
120.0	104.208	52.020	993.523	4.30%	82.20%
125.0	97.412	46.604	1040.127	3.86%	86.06%
130.0	90.115	40.775	1080.901	3.37%	89.43%
135.0	82.055	34.789	1115.691	2.88%	92.31%
140.0	73.066	28.722	1144.412	2.38%	94.69%
145.0	62.615	22.637	1167.05	1.87%	96.56%
150.0	51.838	16.854	1183.904	1.39%	97.95%
155.0	41.062	11.757	1195.66	0.97%	98.93%
160.0	29.659	7.417	1203.078	0.61%	99.54%
165.0	17.254	3.866	1206.944	0.32%	99.86%
170.0	6.557	1.412	1208.357	0.12%	99.98%
175.0	1.104	0.274	1208.631	0.02%	100.00%
180.0	0.072	0.014	1208.645	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	39.27	3.25%	3.25%
0-40	86.25	7.14%	7.14%
0-60	250.26	20.71%	20.71%
0-90	626.15	51.81%	51.81%
0-120	993.52	82.20%	82.20%
0-180	1208.64	100.00%	100.00%
60-90	375.89	31.10%	31.10%
90-120	367.37	30.40%	30.40%
90-130	454.75	37.63%	37.63%
90-150	557.76	46.15%	46.15%
90-180	582.48	48.19%	48.19%
0-117.44	966.92	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	2.09
10-20	10.82
20-30	26.35
30-40	46.99
40-50	70.41
50-60	93.60
60-70	113.61
70-80	127.82
80-90	134.46
90-100	133.57
100-110	124.97
110-120	108.83
120-130	87.38
130-140	63.51
140-150	39.49
150-160	19.17
160-170	5.28
170-180	0.27



C0(Max): ———

C0/C180: ———

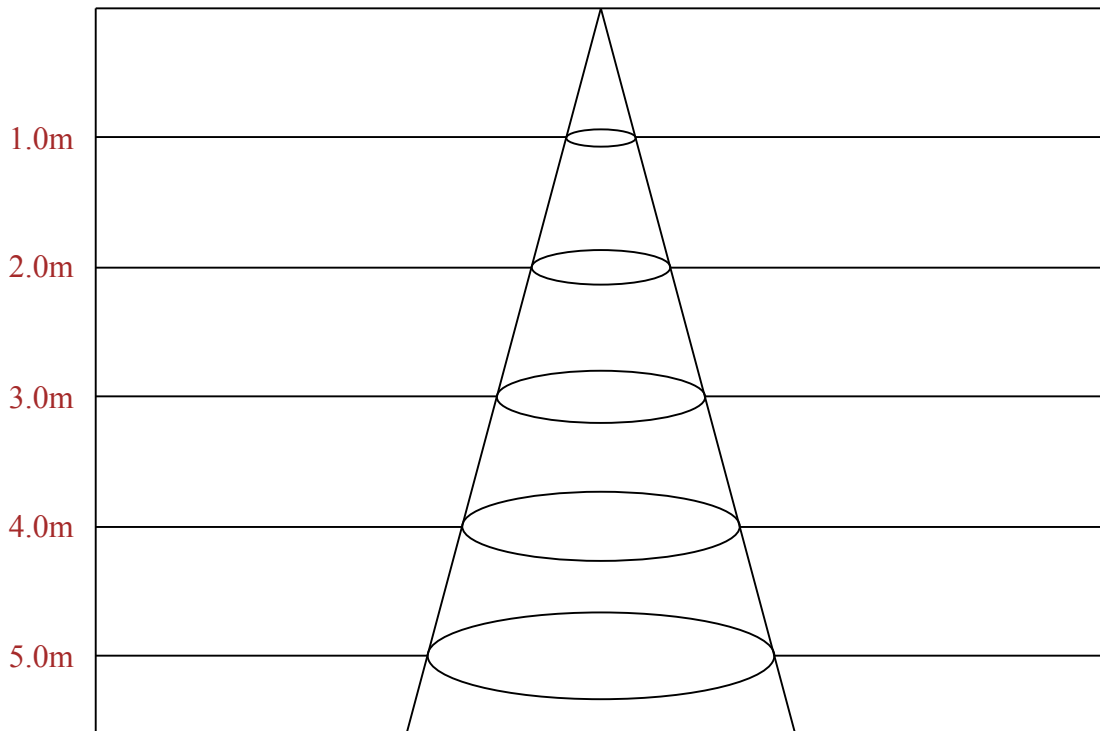
C90/C270: ———

Field angle(10%Imax):C0/180Left:249.3 Right:79.3

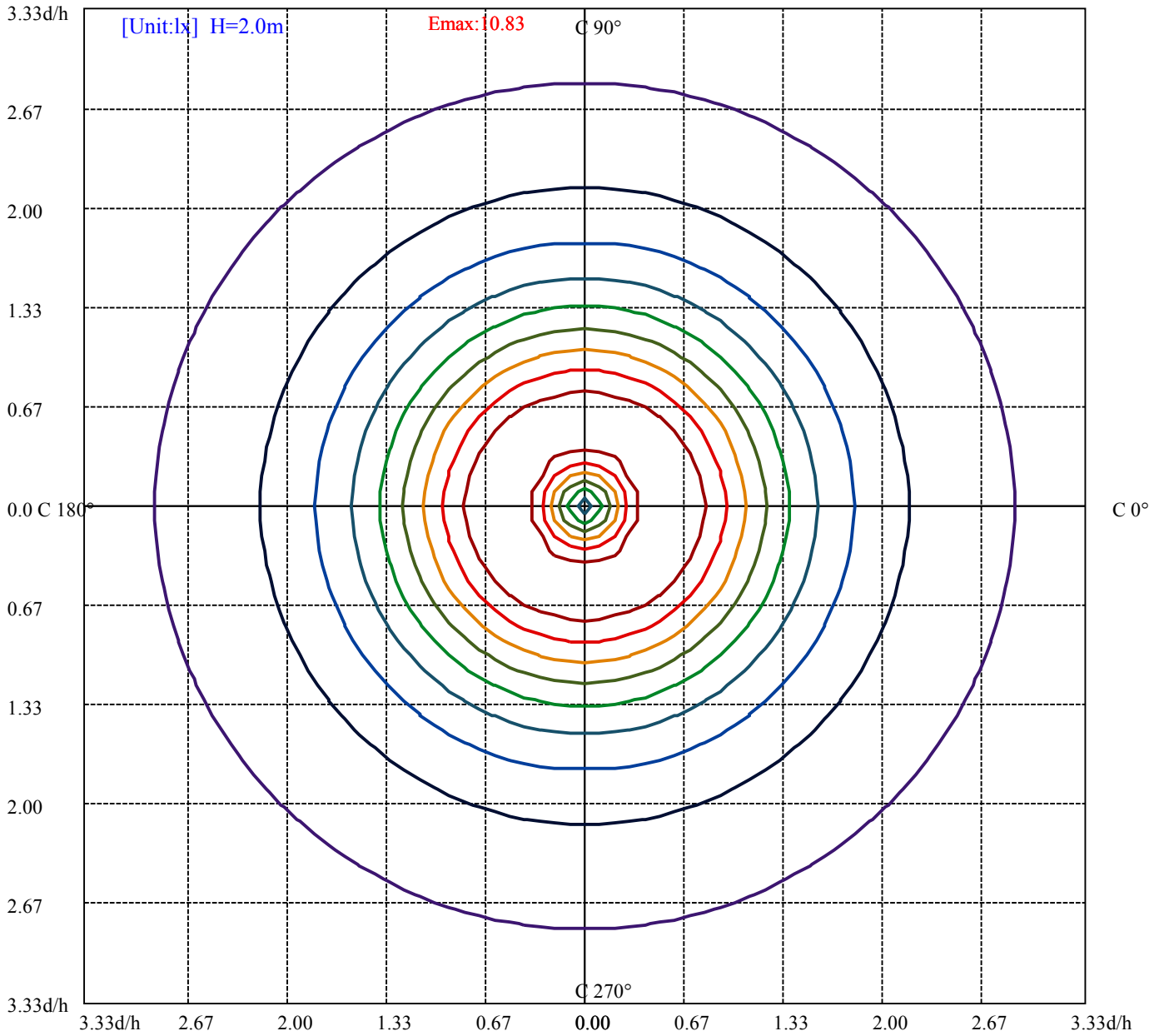
:C90/270Left:253.6 Right:83.6

Beam Angle(50%Imax):C0/180Left:228.9 Right:58.9

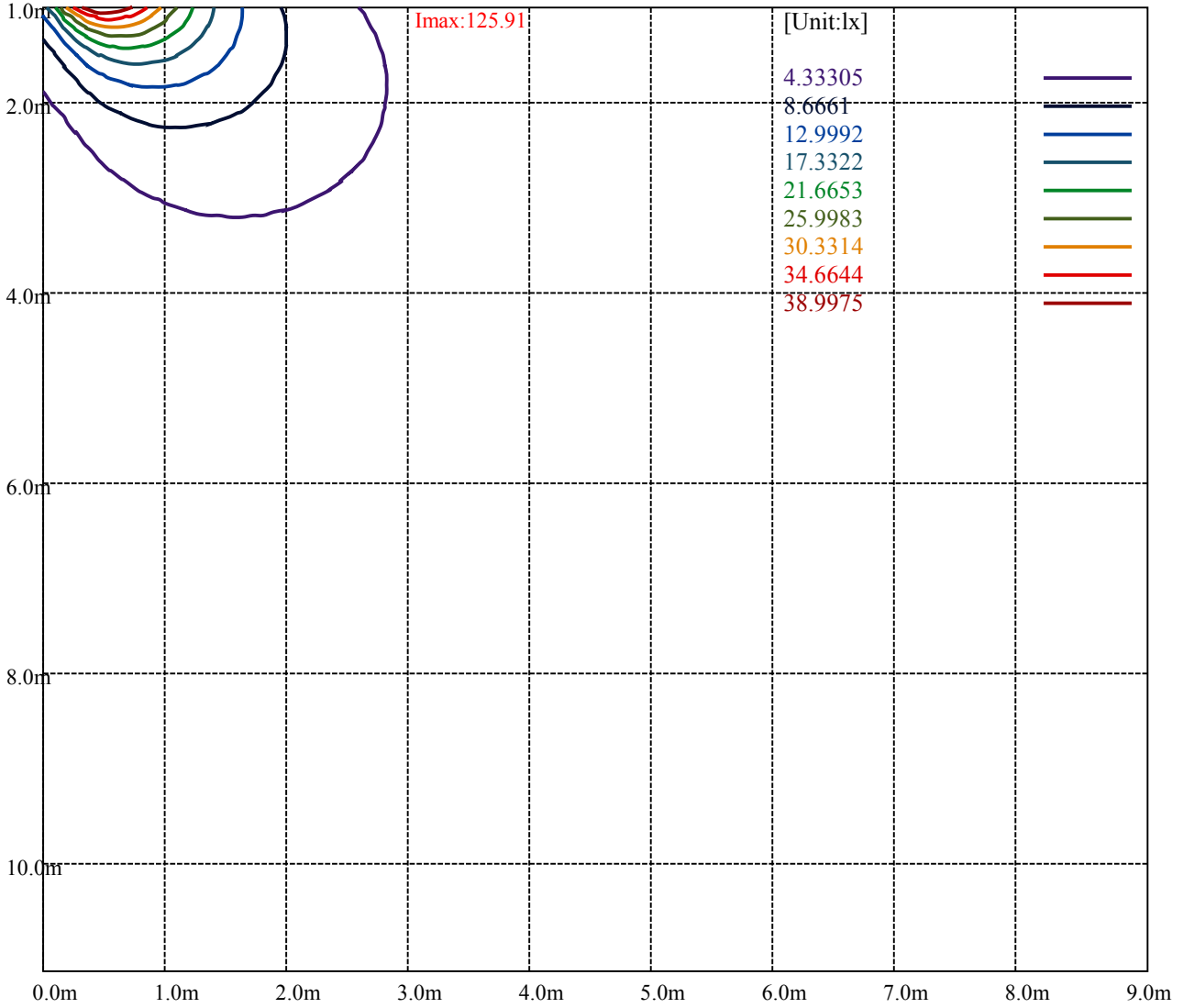
:C90/270Left:231.5 Right:61.5



Max , Ave Beam angle of C0 plane 331.80



(10%Emax) 1.083262	—
(20%Emax) 2.166525	—
(30%Emax) 3.2498	—
(40%Emax) 4.33305	—
(50%Emax) 5.416325	—
(60%Emax) 6.499575	—
(70%Emax) 7.58285	—
(80%Emax) 8.6661	—
(90%Emax) 9.749375	—



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Luminance Limiting Curve(no luminous side)

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Luminance Table

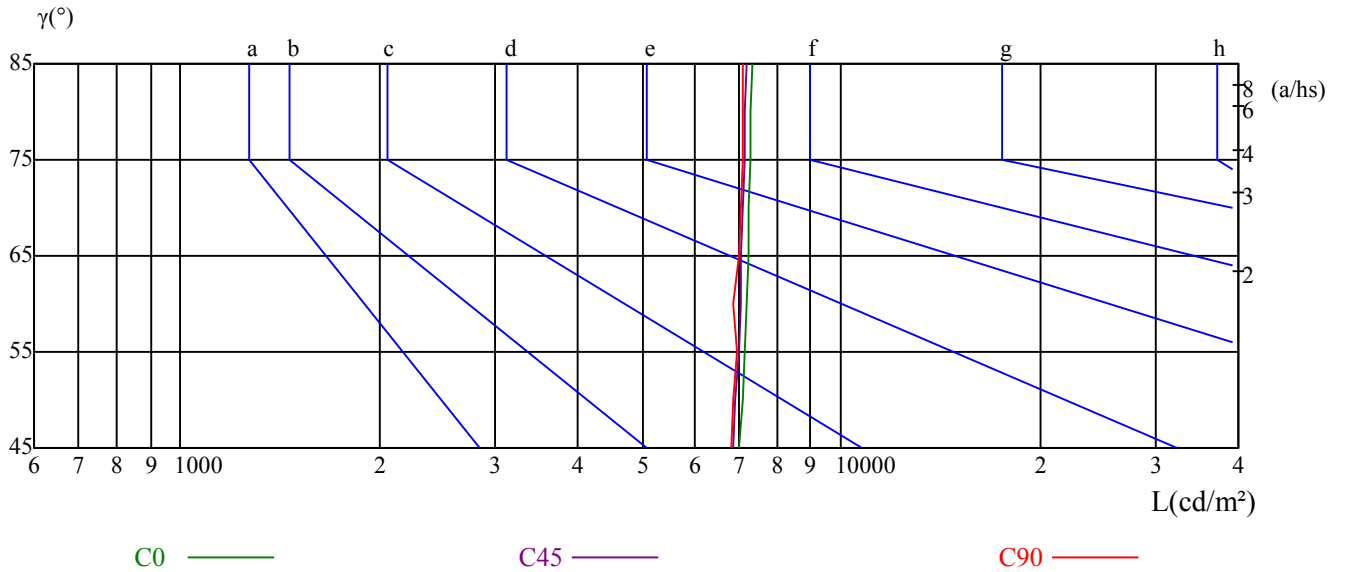
γ	45	50	55	60	65	70	75	80	85
C0	7025	7100	7148	7214	7237	7269	7295	7319	7331
C45	6881	6938	6992	7037	7078	7113	7140	7164	7179
C90	6822	6884	6943	6869	7026	7061	7090	7108	7125

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
174109	169028	170281	300006	291598	293645	908312	882689	889423

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



Equipment: LC-I-902 GMS-2000
Temperature(°C): 24.8

Date: 2026/2/27
Humidity(%): 60.6%

Operator: JUN WANG
Distance(m): 30.18

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	15.30	15.30	23.13	32.69	42.07	51.64	60.65	69.85	78.50
15.0	14.94	15.39	23.41	32.42	42.53	51.55	61.20	70.31	79.05
30.0	15.21	15.30	23.31	32.88	42.62	52.18	61.75	70.49	79.14
45.0	15.03	15.57	23.68	33.15	42.53	52.55	61.66	70.94	79.69
60.0	15.30	15.66	23.50	32.97	42.80	52.46	62.11	70.67	79.96
75.0	15.12	15.48	23.77	33.24	42.53	52.73	61.84	71.04	79.78
90.0	15.30	15.57	23.41	32.97	42.80	52.55	62.11	70.67	80.05
105.0	15.12	15.39	23.50	33.06	42.80	52.09	61.75	70.94	79.69
120.0	14.94	15.30	23.04	32.60	42.26	52.18	61.84	70.94	79.32
135.0	14.12	15.30	23.04	32.79	42.44	52.27	61.66	70.76	79.69
150.0	14.94	14.94	22.77	32.60	49.82	52.00	61.93	71.22	80.23
165.0	15.12	14.94	22.40	32.69	41.89	51.91	61.93	71.22	80.78
180.0	15.30	23.77	32.97	43.71	53.46	63.66	73.22	82.33	91.07
195.0	14.94	23.41	33.06	43.35	53.55	63.57	72.58	82.15	90.16
210.0	15.21	23.31	33.24	42.99	53.09	63.11	72.49	81.51	89.89
225.0	15.03	23.41	32.97	42.89	53.00	62.38	72.04	80.60	88.98
240.0	15.30	23.22	32.33	42.26	52.18	61.84	71.04	79.78	88.07
255.0	15.12	23.22	32.33	41.98	51.36	60.74	69.85	78.50	86.61
270.0	15.30	22.95	31.87	41.35	50.91	60.20	69.03	77.59	85.24
285.0	15.12	23.04	31.78	40.71	50.64	59.20	68.03	76.59	78.41
300.0	14.94	22.86	31.42	40.89	42.99	59.11	67.57	75.95	83.79
315.0	14.12	23.04	31.51	40.89	49.91	58.92	67.57	76.04	83.42
330.0	14.94	23.31	31.97	40.80	50.00	58.92	67.76	76.14	83.97
345.0	15.12	23.31	31.97	41.35	50.45	59.56	68.03	76.41	84.24
360.0	15.30	15.30	23.13	32.69	42.07	51.64	60.65	69.85	78.50
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	86.52	93.99	100.72	106.74	111.47	115.57	118.94	121.22	122.31
15.0	87.06	93.99	101.18	106.83	112.02	116.21	119.39	121.58	122.95
30.0	87.25	94.62	101.54	107.56	112.66	116.48	119.76	122.13	123.40
45.0	87.88	95.17	101.64	107.65	112.84	117.03	120.21	122.58	123.67
60.0	87.70	95.53	101.91	107.92	113.11	117.30	120.31	122.49	123.77
75.0	87.97	95.35	101.64	108.10	112.93	117.12	120.40	122.58	123.77
90.0	87.70	95.17	101.82	107.92	113.02	117.21	120.49	122.58	123.77
105.0	87.88	95.35	102.18	107.74	113.20	117.21	120.40	122.58	123.95
120.0	88.07	95.17	102.09	108.01	113.20	117.57	120.58	122.95	124.04
135.0	88.16	95.81	102.82	108.83	113.66	118.03	121.22	123.40	124.49
150.0	88.79	96.26	103.46	109.74	114.93	119.21	122.40	124.22	125.22
165.0	89.34	96.99	104.28	110.47	115.39	119.49	122.58	124.77	125.68
180.0	99.18	106.55	112.56	118.39	122.58	125.95	128.05	129.32	129.50
195.0	98.17	105.37	111.74	117.12	121.58	124.95	127.04	128.50	128.50
210.0	97.90	104.46	111.11	116.21	120.58	124.04	126.32	127.50	127.77
225.0	96.72	103.73	109.92	114.84	119.39	122.58	125.04	126.13	126.41
240.0	95.17	102.36	108.19	113.29	117.76	120.94	123.22	124.49	124.68
255.0	93.99	100.82	106.92	111.93	116.02	119.12	121.40	121.49	122.67
270.0	92.62	99.27	105.37	106.46	114.20	117.39	119.58	120.76	120.94
285.0	91.44	97.90	103.91	108.92	112.93	116.12	118.30	119.39	119.58
300.0	90.89	97.36	102.91	108.19	111.93	115.11	117.39	118.57	118.85
315.0	90.98	97.17	102.91	107.92	111.93	115.02	117.03	118.39	118.57
330.0	91.16	97.72	103.37	108.10	112.38	115.30	117.48	118.76	118.94
345.0	91.44	97.99	103.73	108.65	112.66	115.93	118.03	119.12	119.39
360.0	86.52	93.99	100.72	106.74	111.47	115.57	118.94	121.22	122.31

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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	122.67	122.40	121.49	119.39	115.93	111.02	105.37	98.36	91.34
15.0	123.04	122.86	121.85	119.85	116.57	112.20	106.55	100.00	92.62
30.0	123.58	123.49	122.40	120.40	117.39	112.84	107.37	101.18	93.62
45.0	123.95	123.67	122.58	120.67	117.48	113.57	108.19	101.82	94.62
60.0	124.04	123.77	122.86	120.58	117.66	113.57	108.37	102.18	95.62
75.0	123.95	123.67	122.58	120.67	117.48	113.38	108.65	102.82	95.90
90.0	123.86	123.67	122.76	120.49	117.48	113.57	108.56	102.64	96.08
105.0	123.95	123.67	122.58	120.49	117.39	113.66	108.28	102.73	95.99
120.0	124.13	123.77	122.67	120.58	117.57	113.57	108.56	102.64	96.44
135.0	124.59	124.22	123.13	120.94	117.85	113.66	109.01	102.73	96.44
150.0	125.22	124.77	123.67	121.49	118.48	114.20	109.19	103.37	96.63
165.0	125.68	125.22	124.13	121.85	118.67	114.48	109.47	103.82	97.17
180.0	129.05	127.68	125.40	122.04	117.66	112.29	105.92	98.63	90.71
195.0	128.23	126.95	124.77	121.12	116.48	110.47	103.46	95.90	87.43
210.0	127.23	126.13	123.77	120.58	116.21	110.83	104.73	98.17	90.34
225.0	125.95	124.86	122.58	119.49	114.93	109.83	108.28	96.81	89.16
240.0	124.13	123.04	122.40	117.57	113.20	108.19	102.27	95.35	87.61
255.0	122.13	121.03	118.94	115.93	111.65	106.64	100.82	93.89	86.24
270.0	120.58	119.49	117.39	114.20	110.38	105.10	99.09	92.16	84.88
285.0	119.21	118.21	116.21	113.11	109.01	103.82	97.45	90.80	83.24
300.0	118.39	117.39	115.39	112.47	108.01	102.73	96.44	89.34	81.78
315.0	118.39	117.39	115.21	112.20	107.83	101.91	95.62	88.34	80.60
330.0	118.76	117.66	115.57	112.47	107.65	101.73	94.99	87.52	79.78
345.0	119.21	118.12	115.93	112.38	107.37	101.36	94.35	86.70	78.50
360.0	122.67	122.40	121.49	119.39	115.93	111.02	105.37	98.36	91.34
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	83.06	72.95	61.38	51.36	38.43	24.59	13.48	7.29	0.46
15.0	85.15	75.41	66.30	55.01	45.08	32.33	21.58	12.29	0.91
30.0	86.24	77.41	67.57	58.29	48.27	37.43	25.86	14.66	2.64
45.0	86.97	78.87	69.76	60.65	49.82	39.98	27.96	16.48	4.28
60.0	87.97	79.60	70.85	61.56	51.36	41.07	29.60	17.58	5.74
75.0	88.34	80.51	71.13	61.84	50.73	40.07	28.14	17.21	5.65
90.0	88.43	79.69	69.76	59.01	47.99	36.43	24.32	12.20	3.01
105.0	88.25	78.32	67.67	55.64	43.26	30.42	17.03	4.19	0.46
120.0	88.43	77.68	65.48	51.91	40.44	26.23	11.11	0.55	0.18
135.0	89.07	77.87	65.30	52.09	40.16	24.50	8.74	0.46	0.18
150.0	89.71	79.14	67.03	53.64	41.98	25.96	10.75	0.46	0.18
165.0	89.71	80.42	68.49	56.28	42.99	29.87	14.21	1.73	0.18
180.0	81.42	71.49	59.11	45.63	33.51	19.49	8.38	1.64	0.18
195.0	78.41	68.94	57.83	46.99	37.07	35.24	15.94	5.19	0.27
210.0	81.87	79.60	63.39	52.82	41.62	30.87	19.31	8.20	0.46
225.0	80.60	71.67	62.75	52.27	42.53	31.42	19.85	8.20	0.36
240.0	79.51	70.67	61.29	50.73	40.53	29.78	18.21	7.19	0.27
255.0	77.87	69.03	60.11	49.91	40.16	29.51	17.67	6.01	0.18
270.0	76.14	67.94	58.65	49.09	39.34	29.32	17.49	5.65	0.18
285.0	75.13	66.66	57.37	48.27	38.52	27.78	16.21	4.74	0.18
300.0	73.95	65.02	55.74	45.99	36.79	25.59	14.94	2.73	0.09
315.0	72.13	63.02	53.55	43.99	34.24	24.22	13.75	1.27	0.18
330.0	71.13	61.93	52.18	41.89	31.97	22.31	11.75	0.82	0.09
345.0	69.85	59.74	50.09	39.25	28.69	17.39	7.83	0.64	0.18
360.0	83.06	72.95	61.38	51.36	38.43	24.59	13.48	7.29	0.46

Intensity data(cd)

C/γ(°)	180.0
0.0	0.09
15.0	0.18
30.0	0.18
45.0	0.18
60.0	0.09
75.0	0.18
90.0	0.18
105.0	0.18
120.0	0.18
135.0	0.09
150.0	0.09
165.0	0.09
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	0.09