
乐达凯

Client:

LumCAT: BRQP32LAJUDBK-2700K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP25120114

Voltage(V): 120.010

LampCAT:

Current(A): 0.235

Lamp flux(lm): 2298.1

Power (W): 27.990

Number of Lamps: 1

PF: 0.992

Length(mm): -60

Width(mm): -60

Phm Type: C

Height(mm): 600

Photometric Results

Lumens(lm): 2298.06, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 82.10

Central intensity(cd): 55.189, Maximum intensity(cd): 213.699

Angle of maximum intensity: C=0.0 γ =100.0

Beam Angle(50%Imax): [C0/180]Total=329.2

[C90/270]Total=324.2

Field angle(10%Imax): [C0/180]Total=356.4

[C90/270]Total=351.2

Maximum s/h(1/2): C0_180=3.32 C90_270=3.30

Maximum s/h(1/4): C0_180=3.19 C90_270=3.18

Up flux rate of lamp(%): 50.41%

Down flux rate of lamp(%): 49.59%

Up flux rate of LUM(%): 50.41%

Down flux rate of LUM(%): 49.59%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 22.624%

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Zonal flux distribution table

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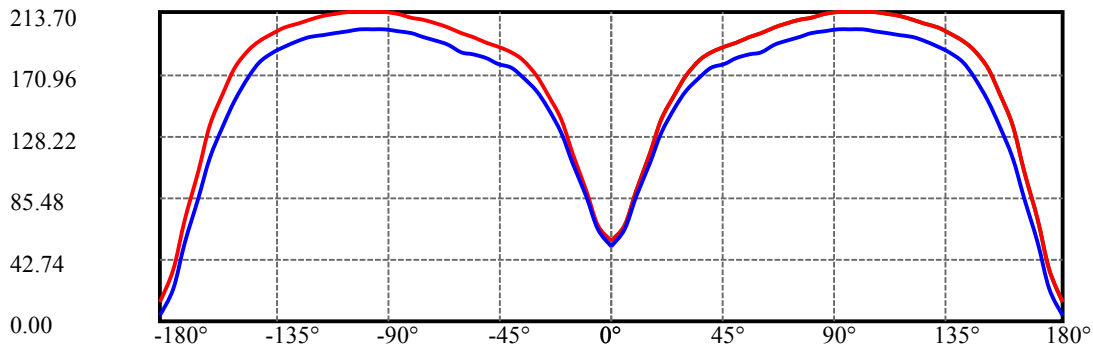
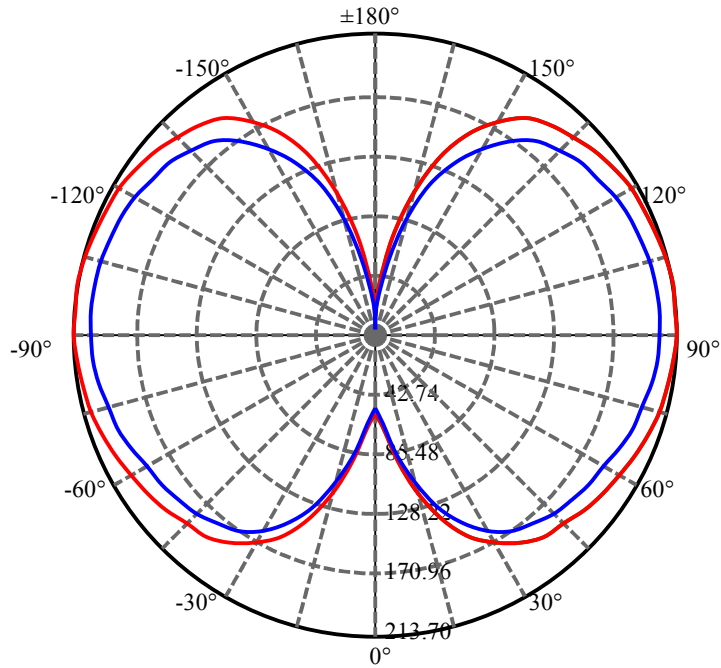
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	51.698	0.000	0	0.00%	0.00%
5.0	63.477	1.377	1.377	0.06%	0.06%
10.0	86.612	5.369	6.746	0.23%	0.29%
15.0	109.858	11.655	18.401	0.51%	0.80%
20.0	131.222	19.868	38.269	0.86%	1.67%
25.0	148.704	29.359	67.628	1.28%	2.94%
30.0	161.405	39.245	106.873	1.71%	4.65%
35.0	170.637	48.895	155.768	2.13%	6.78%
40.0	176.044	57.841	213.609	2.52%	9.30%
45.0	179.733	65.875	279.484	2.87%	12.16%
50.0	183.038	73.303	352.787	3.19%	15.35%
55.0	186.294	80.305	433.092	3.49%	18.85%
60.0	189.322	86.822	519.915	3.78%	22.62%
65.0	192.418	92.802	612.716	4.04%	26.66%
70.0	195.238	98.157	710.873	4.27%	30.93%
75.0	197.708	102.710	813.583	4.47%	35.40%
80.0	199.799	106.362	919.945	4.63%	40.03%
85.0	201.506	109.044	1028.989	4.75%	44.78%
90.0	202.622	110.653	1139.642	4.82%	49.59%
95.0	203.130	111.098	1250.741	4.83%	54.43%
100.0	203.043	110.367	1361.108	4.80%	59.23%
105.0	202.425	108.492	1469.6	4.72%	63.95%
110.0	201.286	105.524	1575.123	4.59%	68.54%
115.0	199.655	101.521	1676.644	4.42%	72.96%
120.0	197.586	96.570	1773.214	4.20%	77.16%
125.0	194.881	90.718	1863.932	3.95%	81.11%
130.0	191.686	84.052	1947.984	3.66%	84.77%
135.0	187.584	76.637	2024.621	3.33%	88.10%
140.0	182.214	68.471	2093.092	2.98%	91.08%
145.0	173.585	59.363	2152.455	2.58%	93.66%
150.0	160.479	49.193	2201.648	2.14%	95.80%
155.0	143.354	38.450	2240.098	1.67%	97.48%
160.0	121.386	27.766	2267.865	1.21%	98.69%
165.0	92.513	17.628	2285.493	0.77%	99.45%
170.0	60.008	9.047	2294.541	0.39%	99.85%
175.0	27.063	3.115	2297.655	0.14%	99.98%
180.0	6.375	0.400	2298.055	0.02%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	106.87	4.65%	4.65%
0-40	213.61	9.30%	9.30%
0-60	519.91	22.62%	22.62%
0-90	1139.64	49.59%	49.59%
0-120	1773.21	77.16%	77.16%
0-180	2298.06	100.00%	100.00%
60-90	619.73	26.97%	26.97%
90-120	633.57	27.57%	27.57%
90-130	808.34	35.17%	35.18%
90-150	1062.01	46.21%	46.21%
90-180	1158.01	50.39%	50.39%
0-123.60	1838.44	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	6.75
10-20	31.52
20-30	68.60
30-40	106.74
40-50	139.18
50-60	167.13
60-70	190.96
70-80	209.07
80-90	219.70
90-100	221.47
100-110	214.02
110-120	198.09
120-130	174.77
130-140	145.11
140-150	108.56
150-160	66.22
160-170	26.68
170-180	3.11



C0(Max): ———

C0/C180: ———

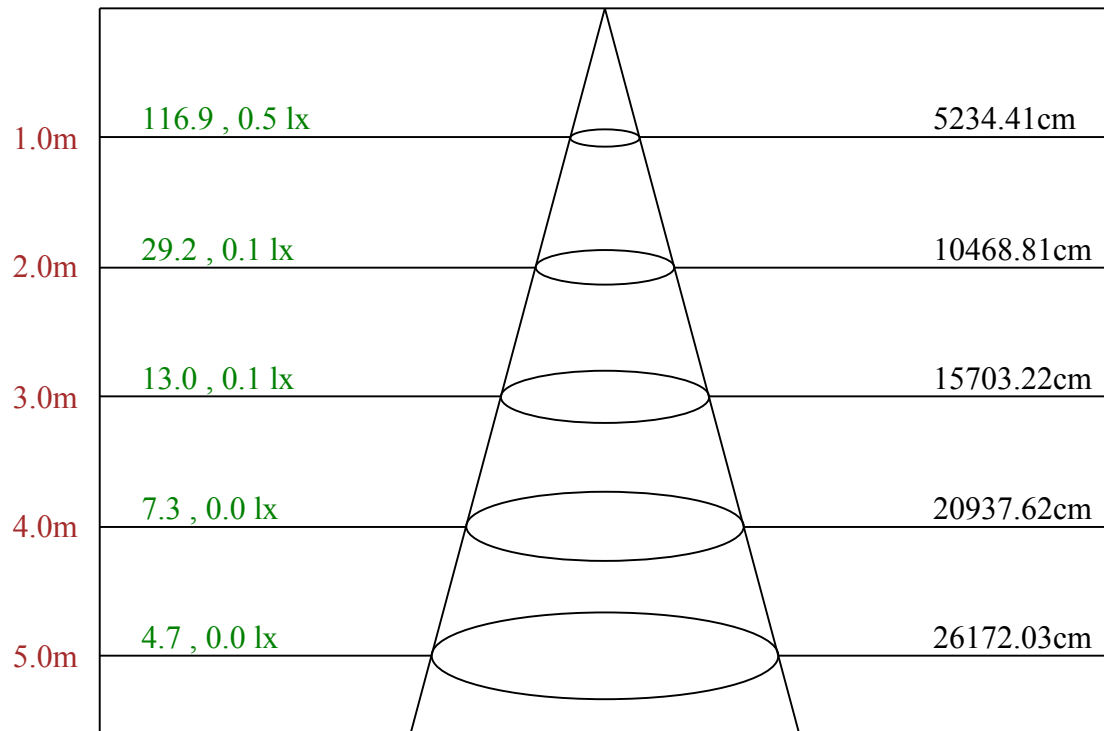
C90/C270: ———

Field angle(10%Imax):C0/180Left:278.2 Right:78.2

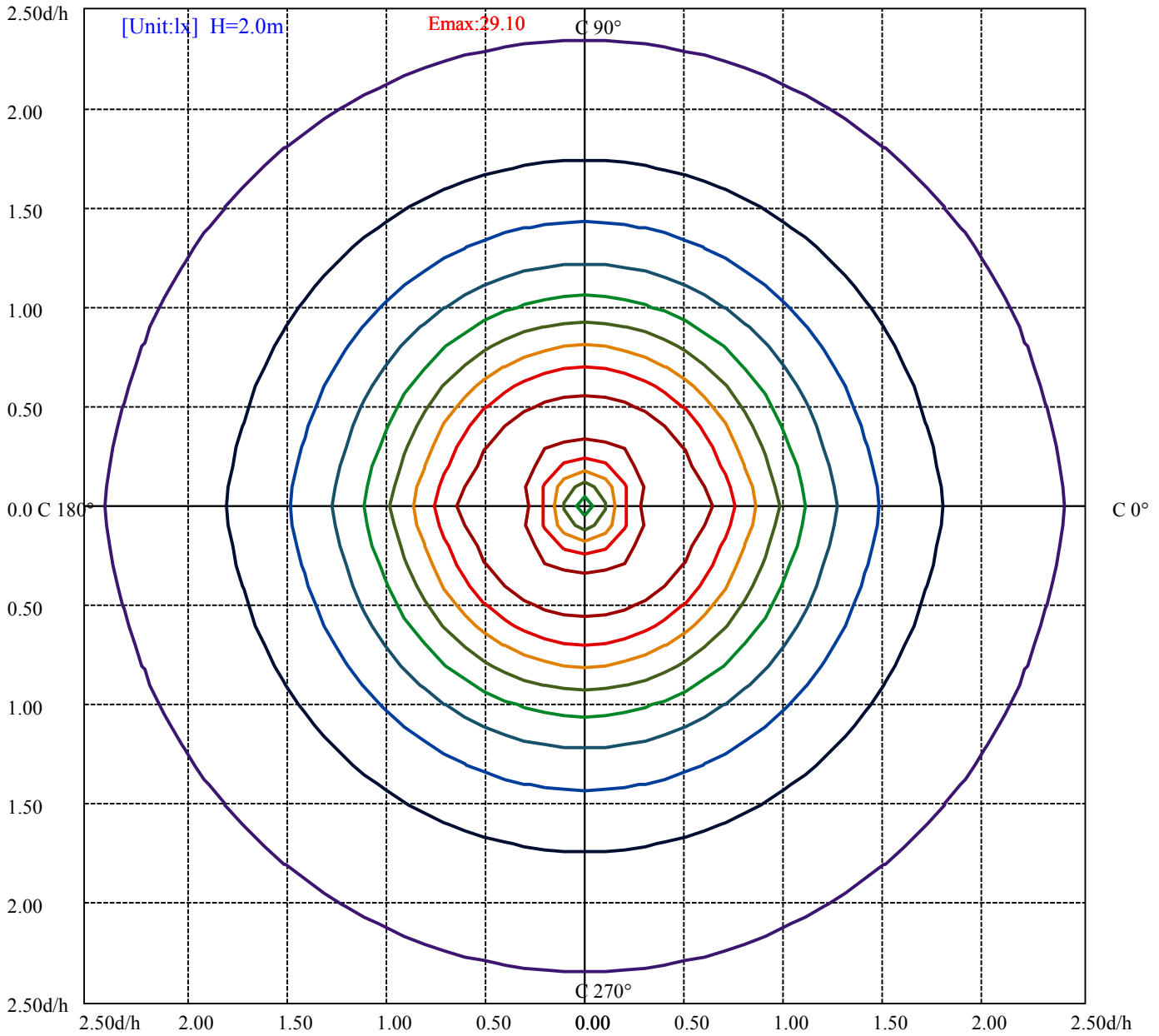
:C90/270Left:270.6 Right:80.6










Beam Angle(50%Imax):C0/180Left:264.6 Right:64.6

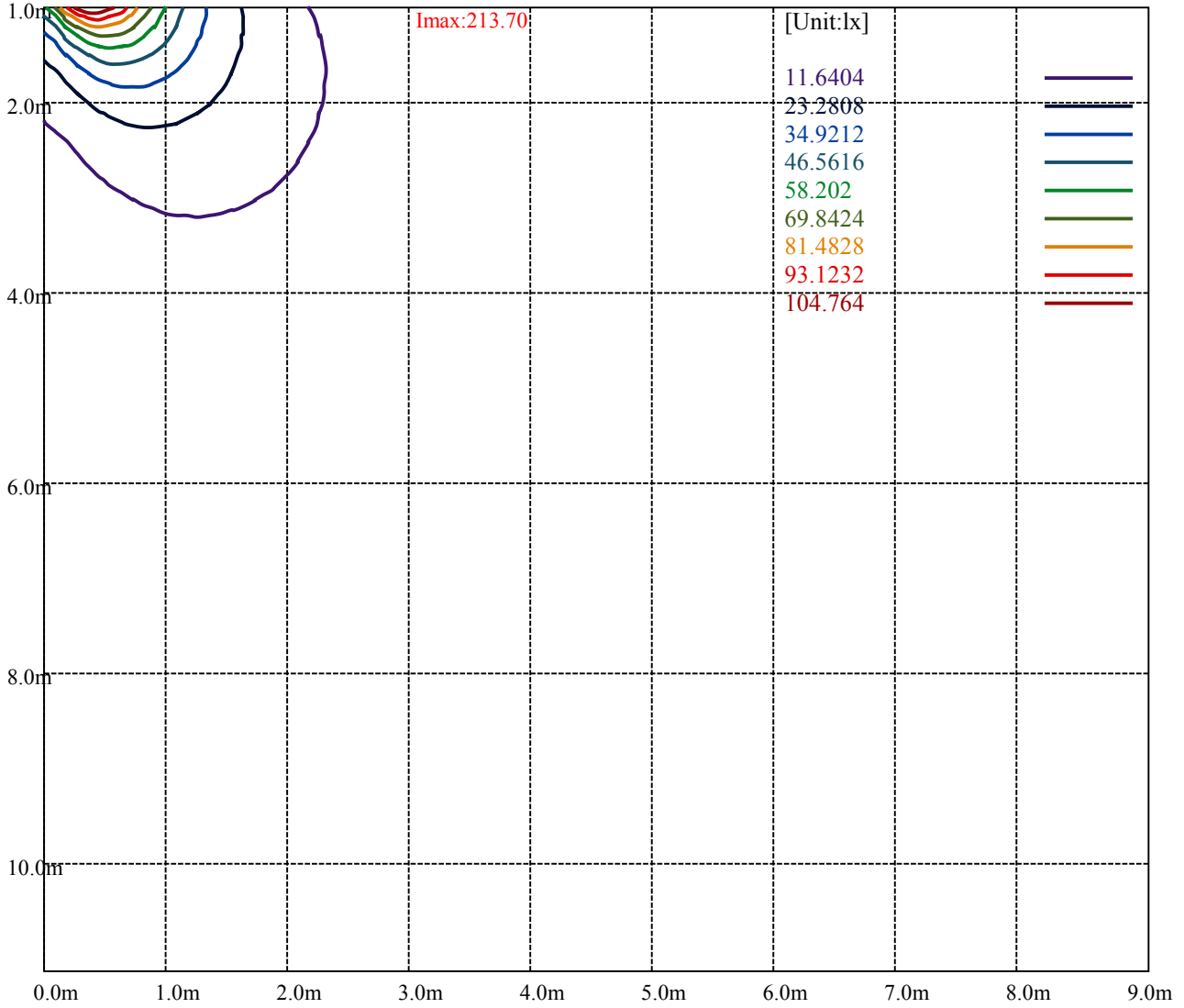
:C90/270Left:257.1 Right:67.1



Max , Ave Beam angle of C0 plane 175.62



(10%Emax) 2.9101	
(20%Emax) 5.8202	
(30%Emax) 8.7303	
(40%Emax) 11.6404	
(50%Emax) 14.5505	
(60%Emax) 17.4606	
(70%Emax) 20.3707	
(80%Emax) 23.2808	
(90%Emax) 26.191	



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Luminance Limiting Curve(no luminous side)

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Luminance Table

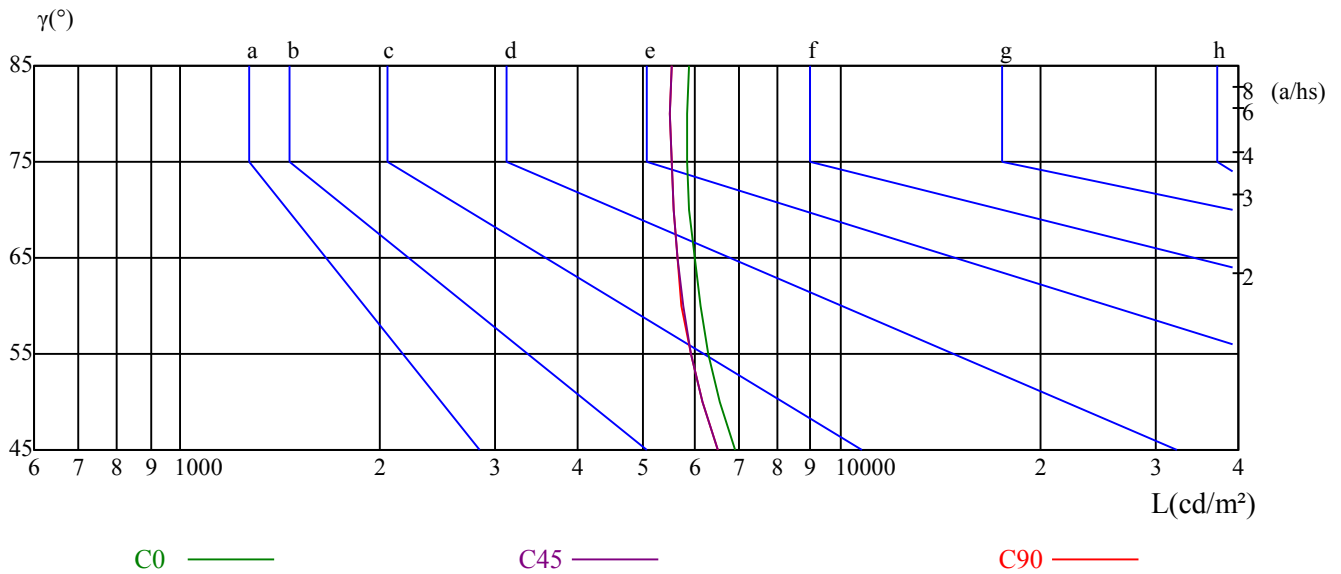
γ	45	50	55	60	65	70	75	80	85
C0	6900	6562	6311	6121	5993	5906	5857	5849	5871
C45	6504	6182	5946	5775	5652	5572	5531	5524	5544
C90	6493	6176	5942	5717	5641	5566	5528	5521	5545

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
169616	159670	159975	284180	268188	268375	860351	812492	812307

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	0.50
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	0.40	0.38	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	0.36	0.38	0.33	0.29	0.29	0.25	0.22	0.18
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	0.38	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	0.42	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	0.17	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	0.28	0.21	0.16	0.24	0.17	0.13	0.19	0.14	0.11	0.15	0.11	0.08	0.06
10	0.28	0.20	0.15	0.26	0.19	0.14	0.22	0.16	0.12	0.17	0.13	0.09	0.13	0.10	0.07	0.05

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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	55.19	53.28	77.77	103.46	128.14	149.54	164.38	176.22	183.96
15.0	54.10	52.18	74.59	98.08	123.31	144.17	159.47	170.85	178.04
30.0	54.37	50.64	73.49	97.63	119.85	140.34	155.46	166.75	174.31
45.0	53.37	49.72	73.13	95.53	118.39	138.34	153.18	164.20	171.21
60.0	53.37	50.36	72.22	95.35	116.57	137.34	150.90	161.83	169.12
75.0	53.28	51.09	71.58	94.26	116.48	135.97	150.09	160.92	168.03
90.0	52.09	51.18	72.49	94.90	116.84	136.06	149.90	160.19	167.02
105.0	50.73	52.27	73.49	94.62	116.48	135.70	149.63	159.92	166.30
120.0	50.36	53.46	73.68	95.90	117.57	136.52	149.54	159.92	166.57
135.0	48.36	53.64	75.04	96.26	117.94	136.97	150.54	160.74	166.84
150.0	47.72	54.37	74.86	98.36	133.78	138.52	151.36	161.56	167.75
165.0	47.45	54.55	76.41	99.09	121.03	139.70	153.18	162.74	169.12
180.0	55.19	79.05	104.00	127.23	149.63	164.57	176.13	183.78	187.70
195.0	54.10	77.77	102.46	126.50	147.44	162.65	174.04	180.96	185.24
210.0	54.37	77.96	102.55	126.41	145.99	161.74	172.49	179.87	183.87
225.0	53.37	76.86	101.36	125.22	145.62	160.47	171.67	179.14	183.33
240.0	53.37	76.86	100.18	124.86	144.53	159.56	170.94	178.68	183.05
255.0	53.28	75.59	100.09	123.67	144.26	159.10	170.03	178.41	182.51
270.0	52.09	75.41	99.91	122.40	143.98	158.19	169.57	177.59	182.14
285.0	50.73	73.95	98.36	121.94	142.44	157.64	169.12	176.59	177.77
300.0	50.36	72.13	97.63	121.31	125.86	155.64	167.66	175.31	179.77
315.0	48.36	72.13	94.99	119.76	139.25	154.55	166.20	174.22	178.68
330.0	47.72	70.31	94.53	117.94	137.43	153.73	164.66	173.22	177.22
345.0	47.45	68.67	93.89	115.93	136.52	151.91	163.56	171.67	175.49
360.0	55.19	53.28	77.77	103.46	128.14	149.54	164.38	176.22	183.96

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	187.52	190.89	194.25	197.53	200.63	203.54	206.28	208.64	210.74
15.0	181.78	185.06	188.24	191.34	194.35	197.17	199.63	202.27	204.00
30.0	177.86	180.78	183.69	186.79	189.52	192.43	194.80	197.08	199.08
45.0	174.67	177.32	180.32	183.24	186.06	188.79	191.34	193.44	195.35
60.0	172.40	175.22	178.23	181.14	183.78	186.42	188.88	190.98	192.89
75.0	171.03	173.85	176.68	179.32	182.14	184.87	187.33	189.61	191.34
90.0	170.21	172.94	175.77	178.41	181.05	183.69	186.06	188.34	190.16
105.0	169.57	172.22	175.13	177.68	180.23	183.14	185.24	187.52	188.97
120.0	169.57	172.22	174.95	177.77	180.14	182.69	184.87	186.97	188.52
135.0	169.94	172.40	175.13	177.95	180.50	182.96	185.24	187.24	188.79
150.0	170.67	173.31	176.04	178.77	181.32	183.87	186.15	188.15	189.70
165.0	171.94	174.67	177.50	180.23	182.96	185.51	187.88	189.70	191.25
180.0	191.34	194.89	198.44	201.45	204.73	207.46	209.65	211.83	213.29
195.0	188.70	192.62	195.89	199.17	202.63	205.18	207.55	209.83	211.19
210.0	187.79	191.52	194.98	198.44	201.54	204.55	206.91	209.01	210.37
225.0	187.52	191.25	195.07	198.72	201.90	204.73	207.28	209.46	210.83
240.0	187.24	191.34	195.07	198.81	202.00	205.09	207.73	209.83	211.38
255.0	186.70	190.98	194.89	198.54	201.90	205.00	207.64	209.46	210.47
270.0	186.33	190.16	193.98	194.25	200.54	203.64	206.46	208.55	210.28
285.0	184.69	188.61	192.25	196.08	199.08	202.27	204.91	207.28	208.92
300.0	183.60	187.42	190.98	194.44	197.90	200.81	203.64	205.91	207.55
315.0	182.14	185.88	189.43	192.98	196.17	199.08	201.72	204.09	205.73
330.0	180.87	184.42	187.79	191.25	194.53	197.35	199.99	202.00	203.73
345.0	179.50	182.96	186.33	189.43	192.43	195.44	197.81	199.99	201.63
360.0	187.52	190.89	194.25	197.53	200.63	203.54	206.28	208.64	210.74

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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	212.20	212.92	213.20	212.83	211.83	210.37	208.46	205.55	202.18
15.0	205.55	206.46	206.73	206.46	205.64	204.27	201.81	198.17	193.98
30.0	200.54	201.45	201.63	201.54	200.72	198.63	196.08	192.43	188.61
45.0	196.71	197.53	197.99	197.81	197.17	195.71	193.34	190.25	186.33
60.0	194.07	195.07	195.62	195.26	194.71	192.89	190.70	187.70	183.24
75.0	192.62	193.44	193.71	193.44	192.80	191.43	189.70	187.33	183.24
90.0	191.52	192.25	192.43	191.98	191.25	189.97	188.24	185.69	182.96
105.0	190.25	190.89	191.07	190.79	190.07	188.70	187.24	185.42	183.14
120.0	189.70	190.34	190.61	190.25	189.43	188.15	186.51	185.24	183.42
135.0	189.97	190.52	190.70	190.52	189.61	188.61	187.33	185.79	183.51
150.0	190.98	191.61	191.70	191.43	190.61	189.43	188.15	186.51	184.69
165.0	192.52	193.25	193.34	192.98	192.25	190.98	189.70	188.06	186.06
180.0	214.02	214.38	214.20	213.29	212.20	210.47	208.37	205.91	203.54
195.0	211.92	212.29	211.83	210.92	209.28	207.82	205.55	203.27	200.45
210.0	211.38	211.47	210.92	210.19	208.64	206.73	204.55	202.09	198.99
225.0	211.74	211.83	211.38	210.37	208.74	206.82	204.73	200.27	197.26
240.0	212.10	212.38	211.01	209.65	207.92	205.91	203.54	200.81	197.62
255.0	211.38	211.56	211.19	210.19	208.37	206.37	203.91	201.09	197.99
270.0	211.29	211.29	210.92	209.65	208.01	206.28	203.73	200.81	197.62
285.0	209.92	210.37	209.92	208.92	207.37	205.46	203.00	200.27	197.08
300.0	208.46	208.92	208.37	207.46	206.00	204.27	202.09	199.26	195.62
315.0	206.64	206.91	207.00	206.19	204.64	202.82	200.45	197.44	193.07
330.0	204.73	205.09	204.82	204.00	202.82	200.90	198.44	194.98	190.89
345.0	202.72	202.91	202.72	202.09	200.81	198.72	196.44	192.80	188.97
360.0	212.20	212.92	213.20	212.83	211.83	210.37	208.46	205.55	202.18

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	197.72	191.98	185.88	174.40	158.65	136.88	109.01	74.22	36.97
15.0	188.24	182.51	175.40	162.93	146.35	125.59	96.63	62.84	27.87
30.0	184.05	177.13	169.03	155.09	137.34	115.39	87.34	54.46	22.40
45.0	180.41	172.40	162.65	146.72	127.23	103.09	72.31	40.53	15.57
60.0	176.86	168.30	156.10	139.98	118.85	93.53	64.21	35.88	12.48
75.0	175.59	164.93	152.27	134.42	112.75	91.89	66.57	36.06	14.39
90.0	177.41	168.03	156.00	138.43	120.67	101.09	76.77	48.81	23.68
105.0	178.77	172.40	163.47	148.81	130.23	110.92	86.34	60.56	33.33
120.0	181.05	176.13	169.21	156.28	141.16	122.58	99.72	70.58	42.99
135.0	181.23	178.95	174.77	164.66	150.27	132.87	109.38	81.24	49.63
150.0	182.60	180.32	176.31	168.21	156.28	139.25	116.48	88.98	55.55
165.0	183.78	181.69	177.86	169.57	157.55	140.07	119.30	89.98	57.28
180.0	200.45	196.80	188.15	175.04	157.64	133.51	99.36	67.67	34.79
195.0	197.53	193.89	184.51	172.40	154.55	146.26	95.99	63.11	29.96
210.0	196.17	192.89	181.05	168.94	149.54	122.58	93.80	62.38	29.78
225.0	194.07	189.79	181.05	167.66	149.27	125.59	95.44	61.02	26.50
240.0	194.25	189.88	181.50	167.75	149.36	122.95	94.53	59.11	24.59
255.0	194.25	190.07	180.96	167.66	147.72	121.31	91.34	58.65	21.58
270.0	194.07	189.15	180.32	167.39	150.72	124.13	91.80	59.20	21.58
285.0	193.16	187.79	178.41	165.11	149.72	126.04	96.44	58.74	20.67
300.0	190.98	185.69	175.86	163.38	147.17	124.68	95.72	59.11	17.94
315.0	188.79	183.24	173.67	160.74	145.62	122.76	91.34	55.01	12.75
330.0	186.42	180.50	171.76	159.19	142.80	118.30	88.61	48.27	10.20
345.0	184.15	178.68	169.85	156.73	139.07	112.02	81.87	43.81	7.01
360.0	197.72	191.98	185.88	174.40	158.65	136.88	109.01	74.22	36.97

Intensity data(cd)

C/γ(°)	180.0
0.0	26.87
15.0	4.64
30.0	3.46
45.0	3.01
60.0	2.73
75.0	3.55
90.0	7.29
105.0	12.66
120.0	17.49
135.0	23.22
150.0	24.22
165.0	23.86
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	26.87