
乐达凯

Client:

LumCAT: BRQP42LAJUDBK-3000K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No: LCZP25120115

Voltage(V): 120.020

LampCAT:

Current(A): 0.322

Lamp flux(lm): 3169.6

Power (W): 38.160

Number of Lamps: 1

PF: 0.988

Length(mm): -140

Width(mm): -140

Phm Type: C

Height(mm): 870

Photometric Results

Lumens(lm): 3169.57, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 83.06

Central intensity(cd): 78.139, Maximum intensity(cd): 294.297

Angle of maximum intensity: C=0.0 γ =85.0

Beam Angle(50%Imax): [C0/180]Total=327.2

[C90/270]Total=328.6

Field angle(10%Imax): [C0/180]Total=349.4

[C90/270]Total=352.0

Maximum s/h(1/2): C0_180=3.25 C90_270=3.23

Maximum s/h(1/4): C0_180=3.10 C90_270=3.05

Up flux rate of lamp(%): 50.47%

Down flux rate of lamp(%): 49.53%

Up flux rate of LUM(%): 50.47%

Down flux rate of LUM(%): 49.53%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 23.040%

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Zonal flux distribution table

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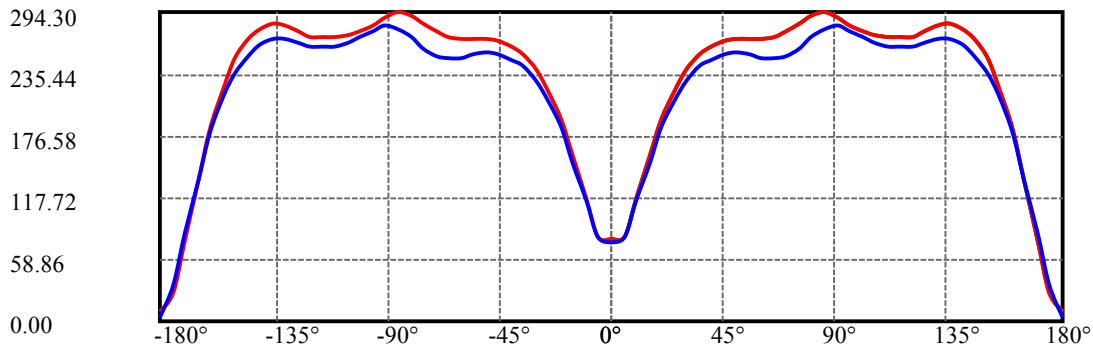
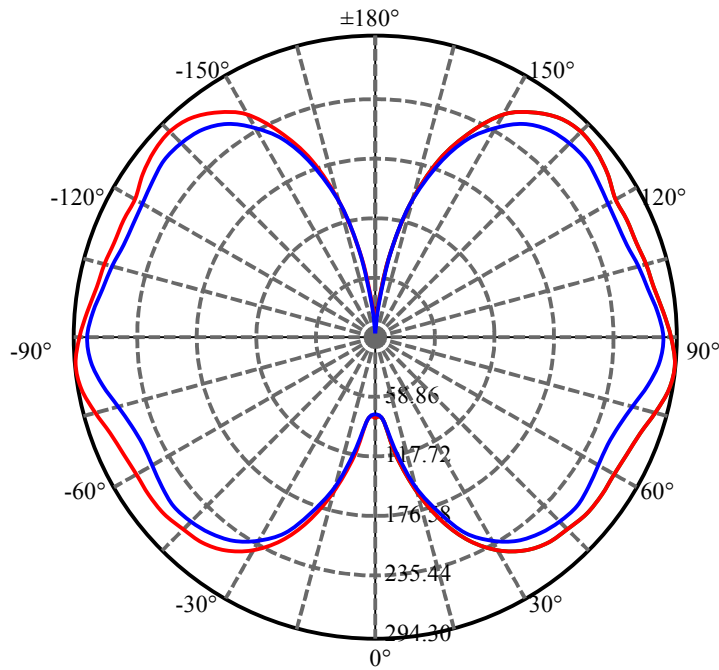
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	74.451	0.000	0	0.00%	0.00%
5.0	81.615	1.866	1.866	0.06%	0.06%
10.0	114.776	7.026	8.891	0.22%	0.28%
15.0	152.085	15.830	24.721	0.50%	0.78%
20.0	185.087	27.788	52.509	0.88%	1.66%
25.0	211.585	41.604	94.113	1.31%	2.97%
30.0	230.471	55.943	150.055	1.76%	4.73%
35.0	244.059	69.878	219.933	2.20%	6.94%
40.0	251.041	82.604	302.537	2.61%	9.55%
45.0	255.838	93.853	396.39	2.96%	12.51%
50.0	258.179	103.865	500.254	3.28%	15.78%
55.0	256.578	111.925	612.18	3.53%	19.31%
60.0	254.278	118.083	730.263	3.73%	23.04%
65.0	254.297	123.636	853.898	3.90%	26.94%
70.0	258.012	129.720	983.618	4.09%	31.03%
75.0	265.321	136.791	1120.409	4.32%	35.35%
80.0	274.033	144.316	1264.725	4.55%	39.90%
85.0	280.985	150.812	1415.537	4.76%	44.66%
90.0	282.370	154.251	1569.788	4.87%	49.53%
95.0	277.080	153.182	1722.97	4.83%	54.36%
100.0	271.350	149.022	1871.991	4.70%	59.06%
105.0	266.554	143.928	2015.92	4.54%	63.60%
110.0	264.087	138.701	2154.621	4.38%	67.98%
115.0	263.226	133.519	2288.14	4.21%	72.19%
120.0	264.342	128.253	2416.393	4.05%	76.24%
125.0	268.383	123.138	2539.53	3.88%	80.12%
130.0	272.212	117.543	2657.074	3.71%	83.83%
135.0	272.132	109.993	2767.066	3.47%	87.30%
140.0	267.055	99.835	2866.901	3.15%	90.45%
145.0	257.094	87.450	2954.351	2.76%	93.21%
150.0	239.809	73.172	3027.524	2.31%	95.52%
155.0	215.410	57.608	3085.132	1.82%	97.34%
160.0	180.332	41.506	3126.638	1.31%	98.65%
165.0	132.232	25.760	3152.398	0.81%	99.46%
170.0	81.262	12.664	3165.062	0.40%	99.86%
175.0	32.471	4.069	3169.131	0.13%	99.99%
180.0	4.413	0.441	3169.572	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	150.06	4.73%	4.73%
0-40	302.54	9.55%	9.55%
0-60	730.26	23.04%	23.04%
0-90	1569.79	49.53%	49.53%
0-120	2416.39	76.24%	76.24%
0-180	3169.57	100.00%	100.00%
60-90	839.53	26.49%	26.49%
90-120	846.60	26.71%	26.71%
90-130	1087.29	34.30%	34.30%
90-150	1457.74	45.99%	45.99%
90-180	1599.34	50.46%	50.46%
0-124.84	2535.66	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	8.89
10-20	43.62
20-30	97.55
30-40	152.48
40-50	197.72
50-60	230.01
60-70	253.36
70-80	281.11
80-90	305.06
90-100	302.20
100-110	282.63
110-120	261.77
120-130	240.68
130-140	209.83
140-150	160.62
150-160	99.11
160-170	38.42
170-180	4.07



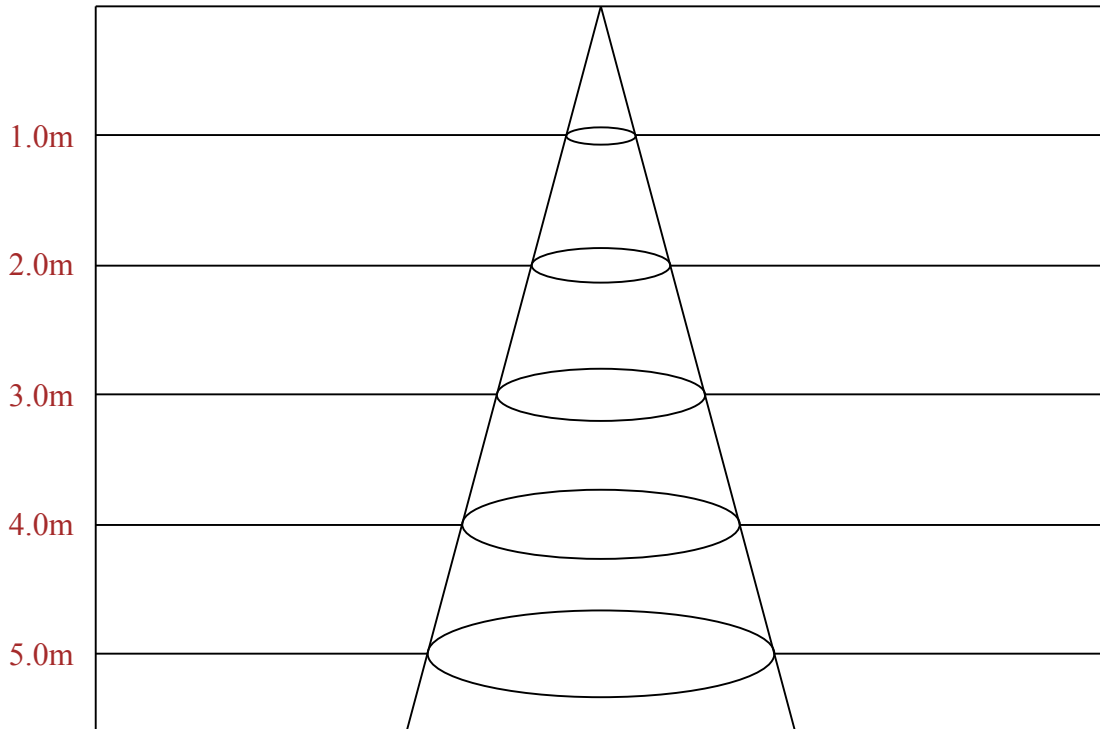
C0(Max): —————

C0/C180: —————

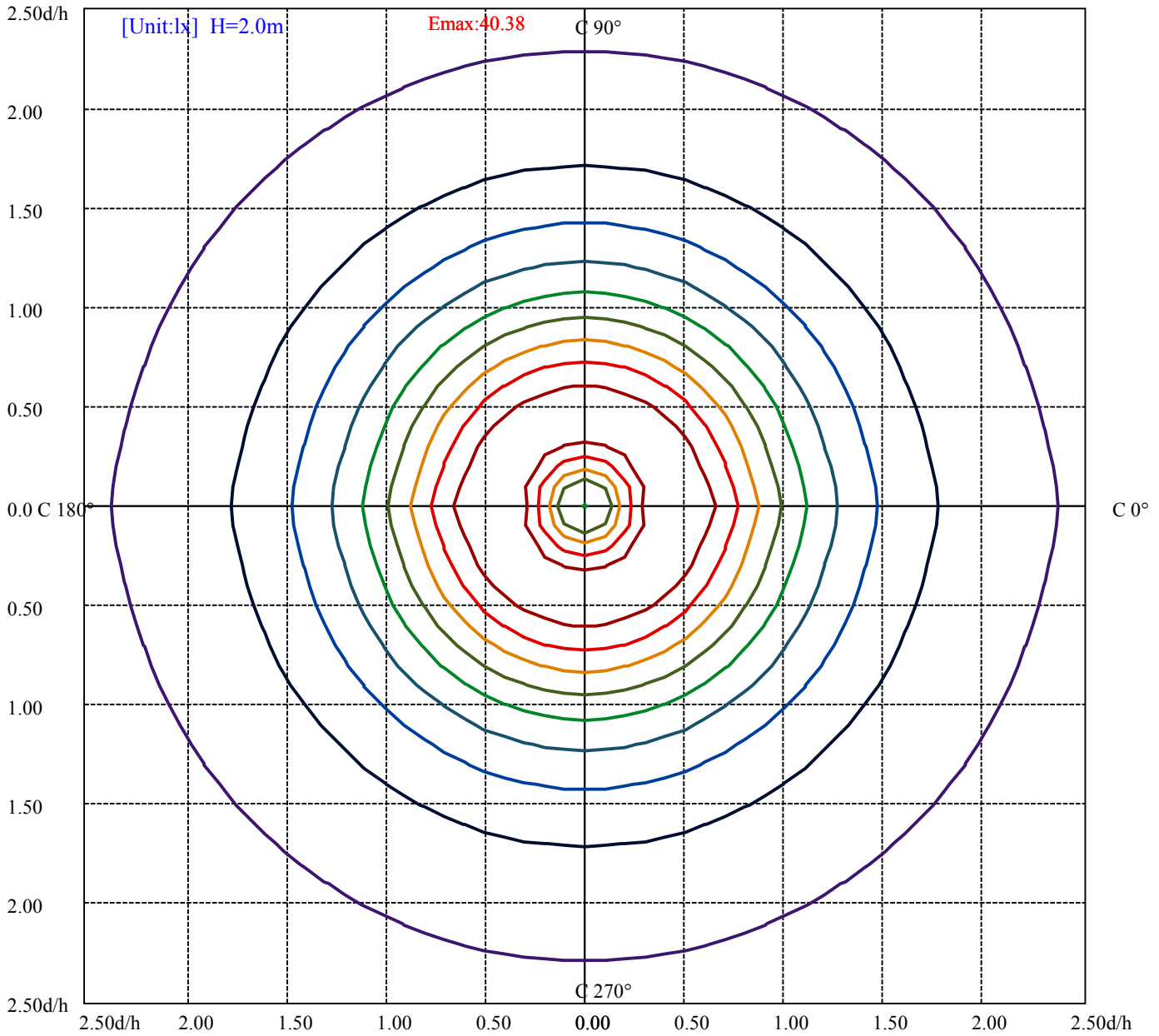
C90/C270: —————

Field angle(10%Imax):C0/180Left:259.7 Right:89.7
:C90/270Left:266.0 Right:86.0

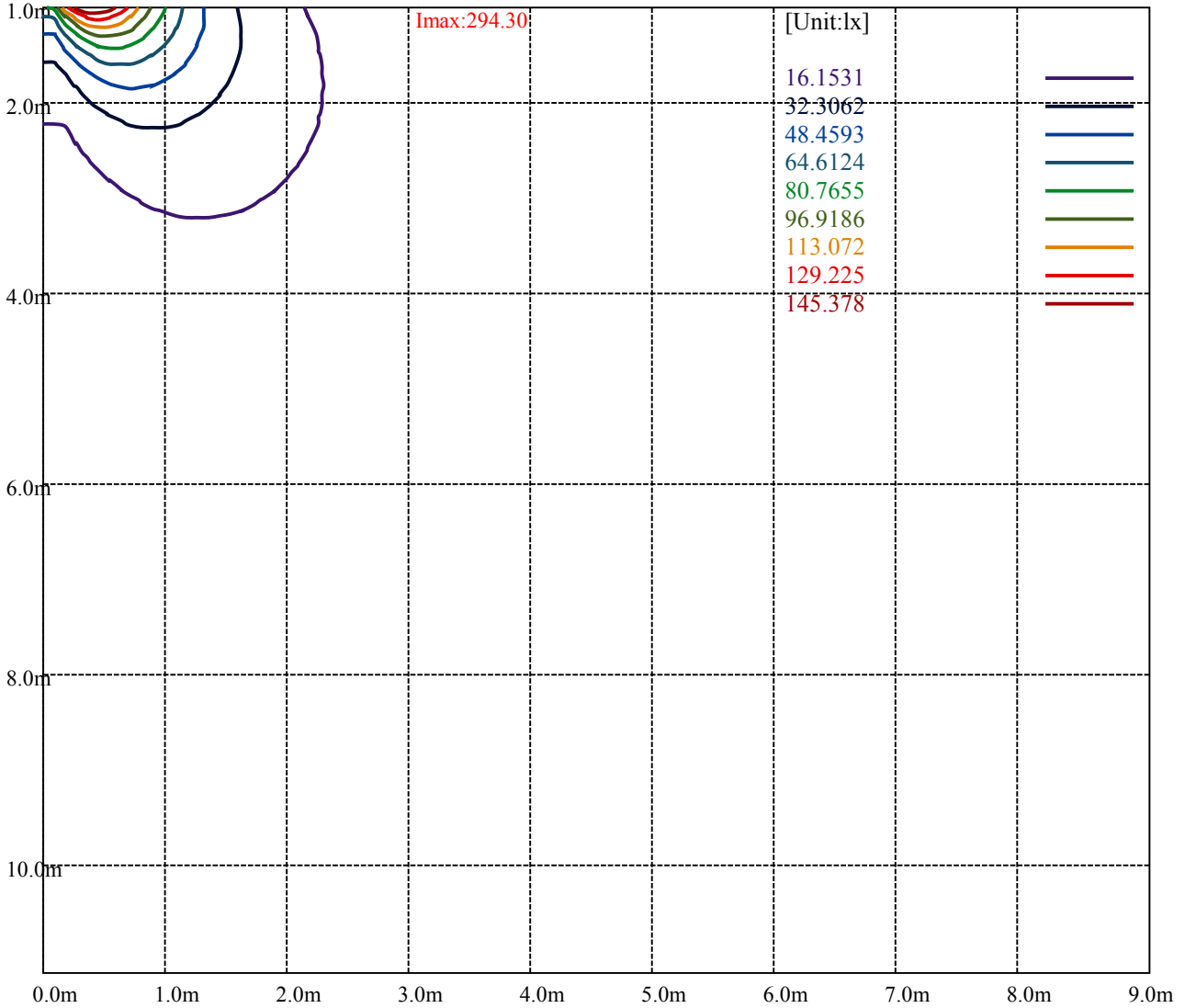
Beam Angle(50%Imax):C0/180Left:248.6 Right:78.6
:C90/270Left:254.3 Right:74.3



Max , Ave Beam angle of C0 plane 347.39



- (10%Emax) 4.038275
- (20%Emax) 8.07655
- (30%Emax) 12.1148
- (40%Emax) 16.15307
- (50%Emax) 20.19135
- (60%Emax) 24.22963
- (70%Emax) 28.268
- (80%Emax) 32.30625
- (90%Emax) 36.3445



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Luminance Limiting Curve(no luminous side)

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Luminance Table

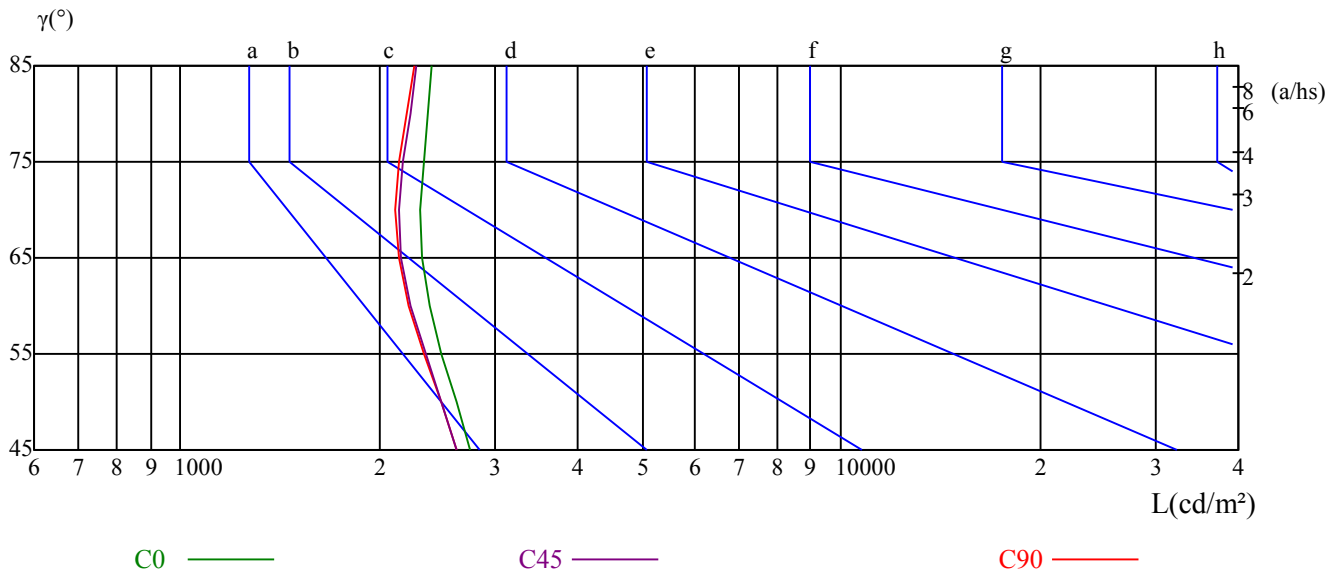
γ	45	50	55	60	65	70	75	80	85
C0	2746	2612	2481	2377	2319	2306	2334	2372	2399
C45	2625	2489	2348	2231	2160	2140	2165	2224	2279
C90	2621	2489	2343	2218	2137	2112	2140	2200	2263

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
41674	38391	38815	71260	65340	66105	219353	206931	208424

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	0.50	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	0.55	0.45	0.38	0.50	0.42	0.35	0.41	0.34	0.29	0.33	0.28	0.23	0.25	0.21	0.18	0.14
5	0.48	0.39	0.32	0.44	0.36	0.29	0.36	0.29	0.24	0.29	0.24	0.20	0.22	0.18	0.15	0.11
6	0.43	0.33	0.27	0.39	0.31	0.25	0.32	0.26	0.21	0.26	0.20	0.17	0.20	0.16	0.13	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

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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	78.14	67.85	102.27	142.89	180.23	211.29	233.32	249.63	259.37
15.0	78.87	67.30	102.91	142.98	178.04	209.65	230.32	246.53	256.18
30.0	79.05	67.67	102.00	141.52	177.77	207.46	228.59	243.89	253.54
45.0	78.32	68.03	103.18	142.25	176.40	206.91	226.95	242.61	251.81
60.0	77.87	69.85	102.55	141.16	176.68	205.55	226.22	241.52	250.54
75.0	76.41	71.67	103.91	142.25	175.77	204.55	225.13	240.43	249.54
90.0	74.50	74.31	105.10	141.25	176.13	204.55	224.85	239.79	248.44
105.0	72.31	77.68	104.46	142.16	176.77	204.82	224.04	238.97	247.80
120.0	69.40	81.05	105.46	141.07	175.40	203.64	223.94	238.79	246.99
135.0	82.69	84.06	104.19	141.62	175.68	203.45	222.76	237.70	246.17
150.0	64.02	86.52	103.27	140.43	195.99	202.09	222.30	237.06	245.35
165.0	61.84	88.61	101.73	138.88	172.85	200.72	220.94	235.69	244.16
180.0	78.14	92.44	132.69	170.76	203.45	227.59	245.89	257.91	263.56
195.0	78.87	91.80	131.51	168.85	199.63	224.95	241.98	253.63	259.46
210.0	79.05	89.52	128.68	165.66	197.72	221.49	239.24	251.36	256.55
225.0	78.32	89.34	128.14	164.75	196.35	218.75	236.51	248.53	254.18
240.0	77.87	87.52	125.86	162.20	193.80	217.39	235.15	247.26	252.45
255.0	76.41	87.70	125.95	162.11	191.89	216.84	233.51	245.62	251.27
270.0	74.50	86.06	124.22	160.29	191.80	215.57	233.23	245.16	250.26
285.0	72.31	86.70	124.40	158.83	191.80	214.65	232.32	244.25	245.16
300.0	69.40	85.42	123.13	159.19	166.66	214.47	231.14	243.07	248.44
315.0	82.69	85.24	122.95	159.01	190.43	214.02	231.23	242.61	248.08
330.0	64.02	86.52	122.40	160.29	189.88	213.38	231.14	242.52	247.99
345.0	61.84	85.88	123.67	159.65	190.98	214.29	230.59	242.89	247.71
360.0	78.14	67.85	102.27	142.89	180.23	211.29	233.32	249.63	259.37
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	264.11	265.93	263.74	261.47	262.01	266.38	274.31	284.69	292.34
15.0	260.74	261.74	259.10	256.00	256.46	260.65	269.21	279.41	288.33
30.0	258.19	258.92	255.45	252.36	251.90	256.00	263.65	274.76	284.96
45.0	256.27	256.73	252.81	249.26	248.35	251.81	259.64	270.75	281.14
60.0	255.09	255.64	251.81	247.44	246.07	248.90	255.73	266.66	278.50
75.0	254.09	255.73	251.72	246.80	244.80	246.80	253.36	264.29	276.40
90.0	253.09	255.73	252.08	247.17	244.44	245.62	252.45	262.19	274.49
105.0	252.54	256.27	253.36	248.26	245.25	245.98	251.54	261.47	273.58
120.0	252.18	256.37	254.45	249.81	246.44	246.89	251.90	260.92	273.30
135.0	251.17	256.18	255.27	251.17	248.35	248.26	252.81	261.74	273.03
150.0	250.45	255.09	256.00	252.81	249.63	249.63	253.91	262.10	272.67
165.0	249.44	254.36	256.37	253.91	250.99	250.90	254.73	263.29	273.12
180.0	268.66	273.12	275.13	276.67	280.23	285.69	293.52	296.98	296.25
195.0	264.47	269.12	270.85	272.21	275.40	280.95	288.06	292.52	292.61
210.0	261.56	265.84	267.38	268.20	270.94	276.31	283.41	289.06	289.97
225.0	259.10	263.56	264.47	264.74	266.75	272.48	279.50	285.87	287.24
240.0	257.18	261.74	261.74	261.47	263.20	268.11	275.85	283.05	284.96
255.0	256.27	259.83	259.28	258.37	259.55	264.20	272.30	273.58	281.87
270.0	255.45	257.91	256.73	254.91	255.09	260.10	268.20	277.31	280.77
285.0	253.45	255.18	252.81	250.90	251.81	256.82	265.56	275.13	279.41
300.0	252.72	252.90	249.90	247.71	248.81	254.09	263.01	273.49	277.95
315.0	251.99	250.99	247.53	244.98	246.62	252.36	261.56	272.58	277.13
330.0	251.45	249.35	245.62	243.34	245.35	251.45	261.65	272.39	276.86
345.0	250.45	248.08	244.25	242.70	244.71	251.90	261.83	272.58	276.77
360.0	264.11	265.93	263.74	261.47	262.01	266.38	274.31	284.69	292.34

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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	294.25	295.43	296.25	294.71	292.88	292.43	292.79	290.15	286.60
15.0	290.70	292.16	293.07	292.34	290.79	290.24	289.52	287.06	283.41
30.0	288.24	289.52	290.06	290.33	289.06	288.24	287.15	284.87	280.50
45.0	285.96	287.33	288.15	288.24	287.69	286.69	284.87	282.50	278.59
60.0	284.42	285.69	286.33	286.78	286.24	285.42	283.87	281.05	277.13
75.0	283.32	284.78	285.33	285.60	285.33	284.60	282.78	280.13	276.04
90.0	282.87	284.23	284.87	285.23	284.69	283.87	281.87	279.41	275.76
105.0	282.41	283.87	284.60	284.69	284.32	283.60	281.23	279.22	276.31
120.0	282.14	283.50	284.14	284.32	283.87	282.41	281.41	278.95	276.31
135.0	281.59	282.96	283.78	283.60	283.14	281.96	280.59	278.68	276.04
150.0	280.86	282.23	282.96	282.68	281.59	279.59	279.13	277.86	275.49
165.0	279.95	280.32	281.05	281.87	279.95	277.58	277.04	277.86	274.94
180.0	284.42	268.93	256.55	251.45	249.17	247.80	249.90	262.19	276.86
195.0	283.14	266.93	253.82	248.26	245.89	244.34	245.98	256.91	271.67
210.0	282.50	266.20	253.18	245.71	242.89	241.43	243.07	253.45	267.48
225.0	281.32	266.93	253.63	244.34	240.97	239.43	237.42	249.54	263.29
240.0	281.32	268.30	263.47	242.34	238.24	236.51	239.52	249.17	262.19
255.0	279.68	268.11	253.91	243.62	238.15	236.97	240.34	249.99	261.19
270.0	279.50	269.48	255.09	245.07	239.15	238.15	241.79	250.81	261.47
285.0	279.04	269.57	256.37	246.35	240.52	239.70	244.62	252.90	263.20
300.0	278.40	269.02	257.00	246.89	242.16	241.89	246.53	256.46	266.02
315.0	277.58	269.12	256.73	247.62	243.07	243.16	248.35	257.91	267.20
330.0	276.77	268.02	256.64	247.99	243.98	245.25	251.54	260.74	267.29
345.0	276.49	267.29	255.45	247.26	244.34	246.17	252.90	263.38	268.11
360.0	294.25	295.43	296.25	294.71	292.88	292.43	292.79	290.15	286.60
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	281.32	275.13	266.47	247.80	220.30	182.42	134.51	79.60	29.96
15.0	277.68	271.39	263.65	248.90	223.85	188.34	141.07	90.25	35.88
30.0	274.76	268.75	261.01	246.80	222.94	191.16	146.08	93.35	39.34
45.0	273.21	267.11	259.92	245.07	222.67	190.07	146.17	98.45	44.62
60.0	271.76	265.84	258.37	243.71	222.12	193.07	150.63	101.91	47.90
75.0	270.85	264.74	257.18	243.43	222.85	193.71	153.18	107.65	54.92
90.0	271.03	265.47	257.91	243.16	223.67	194.07	156.92	109.29	56.83
105.0	271.57	265.93	259.01	243.43	223.76	195.44	158.46	108.47	59.20
120.0	272.12	267.29	259.92	245.53	226.04	197.26	155.28	108.56	57.65
135.0	272.21	267.75	260.55	246.89	226.31	193.80	152.91	109.56	57.83
150.0	272.30	267.93	261.28	247.17	225.95	197.99	158.28	110.20	56.65
165.0	271.85	267.84	261.19	248.26	228.68	200.81	158.65	111.47	54.73
180.0	286.33	282.05	270.94	253.36	223.22	182.96	131.78	75.77	23.59
195.0	281.77	278.50	267.48	249.54	224.76	213.65	126.22	72.13	21.95
210.0	278.31	276.13	262.19	244.71	219.94	179.77	128.68	71.76	19.49
225.0	273.58	270.66	260.55	241.89	218.02	177.13	124.04	67.48	18.40
240.0	270.94	266.57	254.63	236.51	211.92	168.12	117.21	62.57	13.75
255.0	267.48	262.19	249.99	231.69	205.27	163.84	110.56	57.19	12.57
270.0	266.66	261.10	248.26	229.04	202.27	163.20	111.02	58.10	11.93
285.0	265.11	259.28	248.08	227.40	200.72	159.74	108.65	60.20	13.11
300.0	267.38	261.83	249.26	229.32	203.00	160.10	111.47	59.47	13.66
315.0	265.84	260.83	247.26	226.77	197.44	154.18	102.91	51.64	12.20
330.0	263.65	259.01	244.62	219.39	190.43	145.99	95.53	45.44	11.20
345.0	263.47	256.00	240.52	215.66	183.69	141.16	93.35	39.80	11.93
360.0	281.32	275.13	266.47	247.80	220.30	182.42	134.51	79.60	29.96

Intensity data(cd)

C/γ(°)	180.0
0.0	17.85
15.0	4.46
30.0	4.19
45.0	4.19
60.0	4.37
75.0	5.19
90.0	6.74
105.0	10.84
120.0	12.93
135.0	12.39
150.0	11.38
165.0	11.38
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	17.85