
乐达凯

Client:

LumCAT: ALDF16LAJUDWH 2700K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.250

Lamp flux(lm): 2560.1

Power (W): 29.770

Number of Lamps: 1

PF: 0.991

Length(mm): -380

Width(mm): -380

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 2560.07, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 85.99

Central intensity(cd): 749.197, Maximum intensity(cd): 749.197

Angle of maximum intensity: C=60.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=116.0

[C90/270]Total=120.0

Field angle(10%Imax): [C0/180]Total=170.4

[C90/270]Total=172.0

Maximum s/h(1/2): C0_180=1.27 C90_270=1.27

Maximum s/h(1/4): C0_180=1.39 C90_270=1.39

Up flux rate of lamp(%): 10.24%

Down flux rate of lamp(%): 89.76%

Up flux rate of LUM(%): 10.24%

Down flux rate of LUM(%): 89.76%

CIE Type : Semidirect lighting

Output flux ratio in π solid angle : 67.150%

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Zonal flux distribution table

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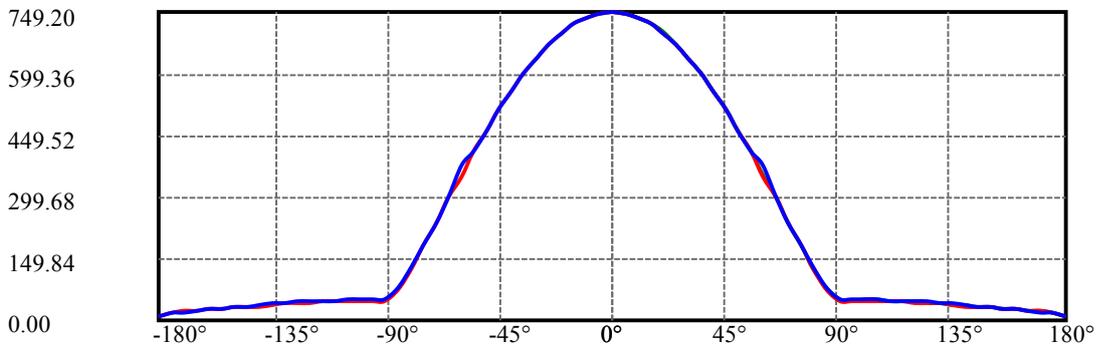
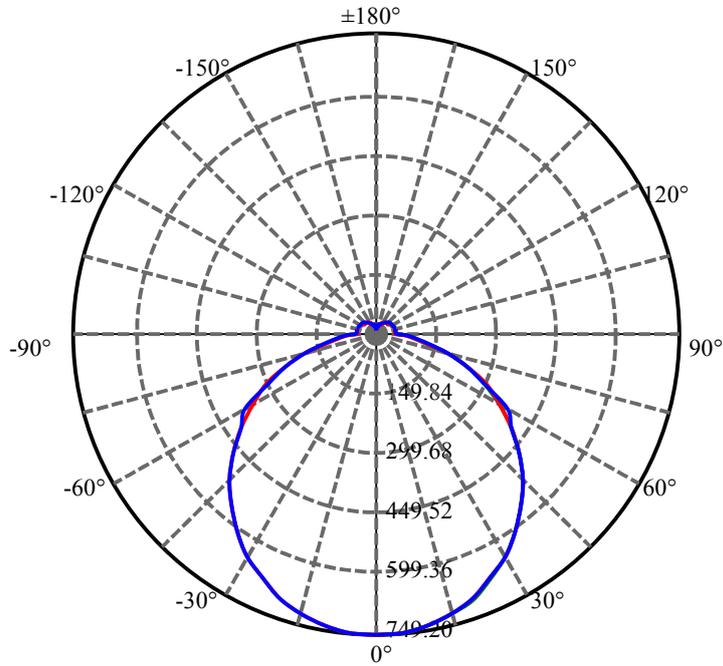
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	749.197	0.000	0	0.00%	0.00%
5.0	746.317	17.878	17.878	0.70%	0.70%
10.0	736.898	53.059	70.938	2.07%	2.77%
15.0	721.119	86.489	157.426	3.38%	6.15%
20.0	699.088	117.045	274.471	4.57%	10.72%
25.0	671.032	143.700	418.172	5.61%	16.33%
30.0	638.165	165.680	583.852	6.47%	22.81%
35.0	599.885	182.311	766.163	7.12%	29.93%
40.0	558.870	193.329	959.492	7.55%	37.48%
45.0	510.794	198.057	1157.549	7.74%	45.22%
50.0	460.825	196.330	1353.879	7.67%	52.88%
55.0	408.204	188.956	1542.835	7.38%	60.27%
60.0	354.330	176.258	1719.093	6.88%	67.15%
65.0	295.881	158.067	1877.16	6.17%	73.32%
70.0	238.487	135.305	2012.466	5.29%	78.61%
75.0	181.824	109.862	2122.328	4.29%	82.90%
80.0	129.560	83.318	2205.646	3.25%	86.16%
85.0	79.282	56.747	2262.393	2.22%	88.37%
90.0	50.738	35.600	2297.994	1.39%	89.76%
95.0	47.965	27.026	2325.019	1.06%	90.82%
100.0	48.288	26.154	2351.174	1.02%	91.84%
105.0	48.092	25.788	2376.962	1.01%	92.85%
110.0	47.518	24.991	2401.953	0.98%	93.82%
115.0	46.520	23.811	2425.764	0.93%	94.75%
120.0	45.077	22.267	2448.031	0.87%	95.62%
125.0	43.127	20.388	2468.419	0.80%	96.42%
130.0	40.940	18.279	2486.698	0.71%	97.13%
135.0	38.618	16.076	2502.774	0.63%	97.76%
140.0	36.272	13.866	2516.64	0.54%	98.30%
145.0	33.761	11.684	2528.325	0.46%	98.76%
150.0	31.248	9.573	2537.898	0.37%	99.13%
155.0	29.078	7.634	2545.532	0.30%	99.43%
160.0	26.918	5.873	2551.405	0.23%	99.66%
165.0	24.023	4.198	2555.603	0.16%	99.83%
170.0	20.969	2.669	2558.272	0.10%	99.93%
175.0	19.477	1.447	2559.719	0.06%	99.99%
180.0	9.706	0.349	2560.068	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	583.85	22.81%	22.81%
0-40	959.49	37.48%	37.48%
0-60	1719.09	67.15%	67.15%
0-90	2297.99	89.76%	89.76%
0-120	2448.03	95.62%	95.62%
0-180	2560.07	100.00%	100.00%
60-90	578.90	22.61%	22.61%
90-120	150.04	5.86%	5.86%
90-130	188.70	7.37%	7.37%
90-150	239.90	9.37%	9.37%
90-180	261.73	10.22%	10.22%
0-71.62	2048.05	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	70.94
10-20	203.53
20-30	309.38
30-40	375.64
40-50	394.39
50-60	365.21
60-70	293.37
70-80	193.18
80-90	92.35
90-100	53.18
100-110	50.78
110-120	46.08
120-130	38.67
130-140	29.94
140-150	21.26
150-160	13.51
160-170	6.87
170-180	1.45



C60(Max): ———

C0/C180: ———

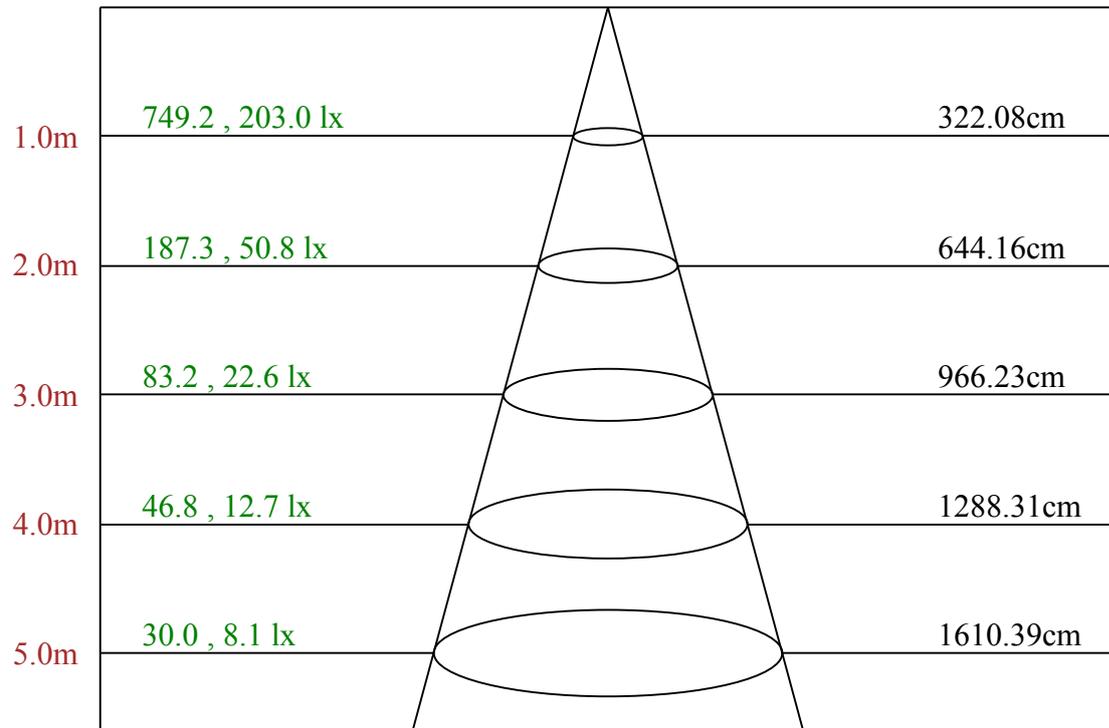
C90/C270: ———

Field angle(10%Imax):C0/180Left:85.2 Right:85.2

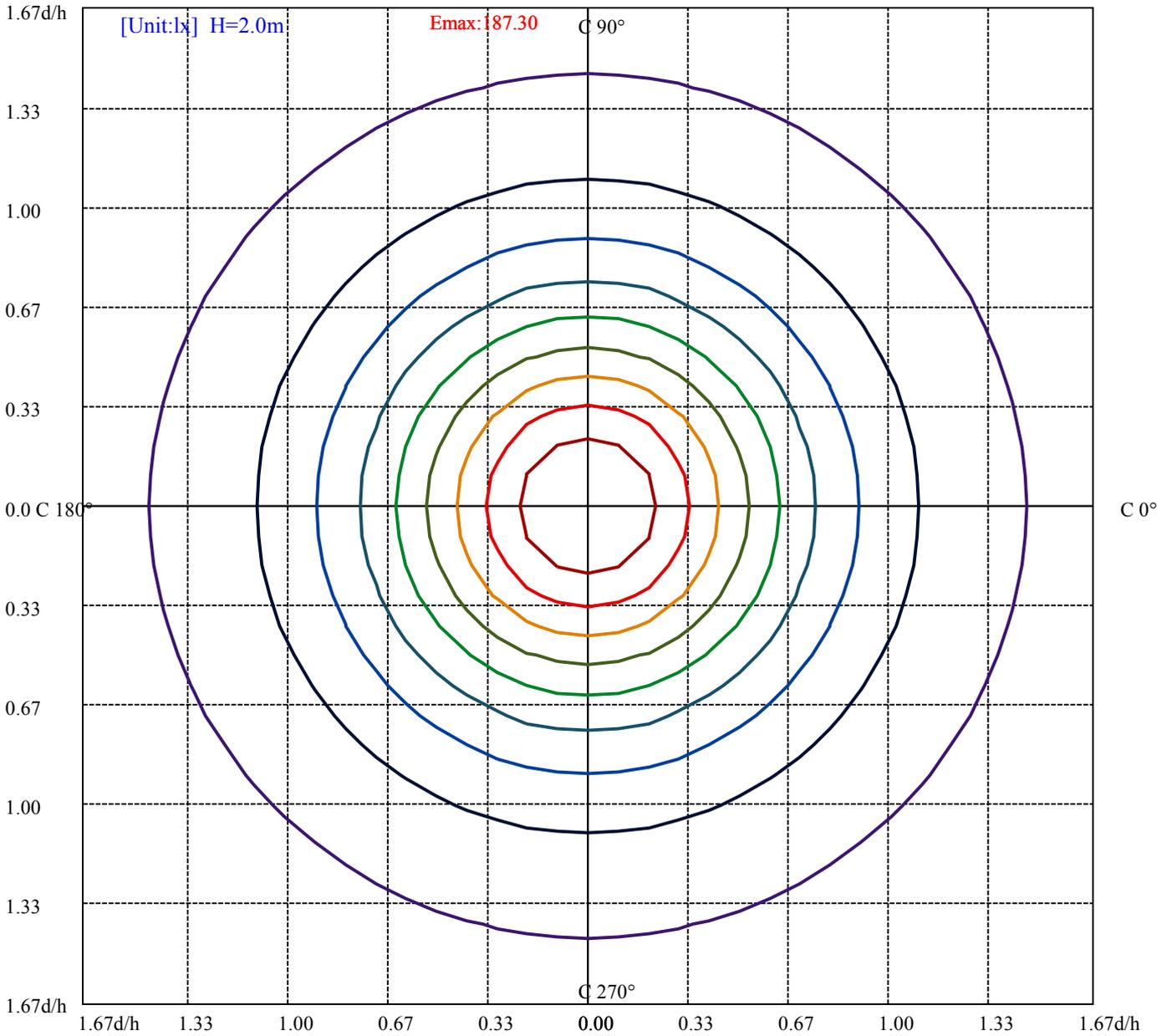
:C90/270Left:86.0 Right:86.0

Beam Angle(50%Imax):C0/180Left:58.0 Right:58.0

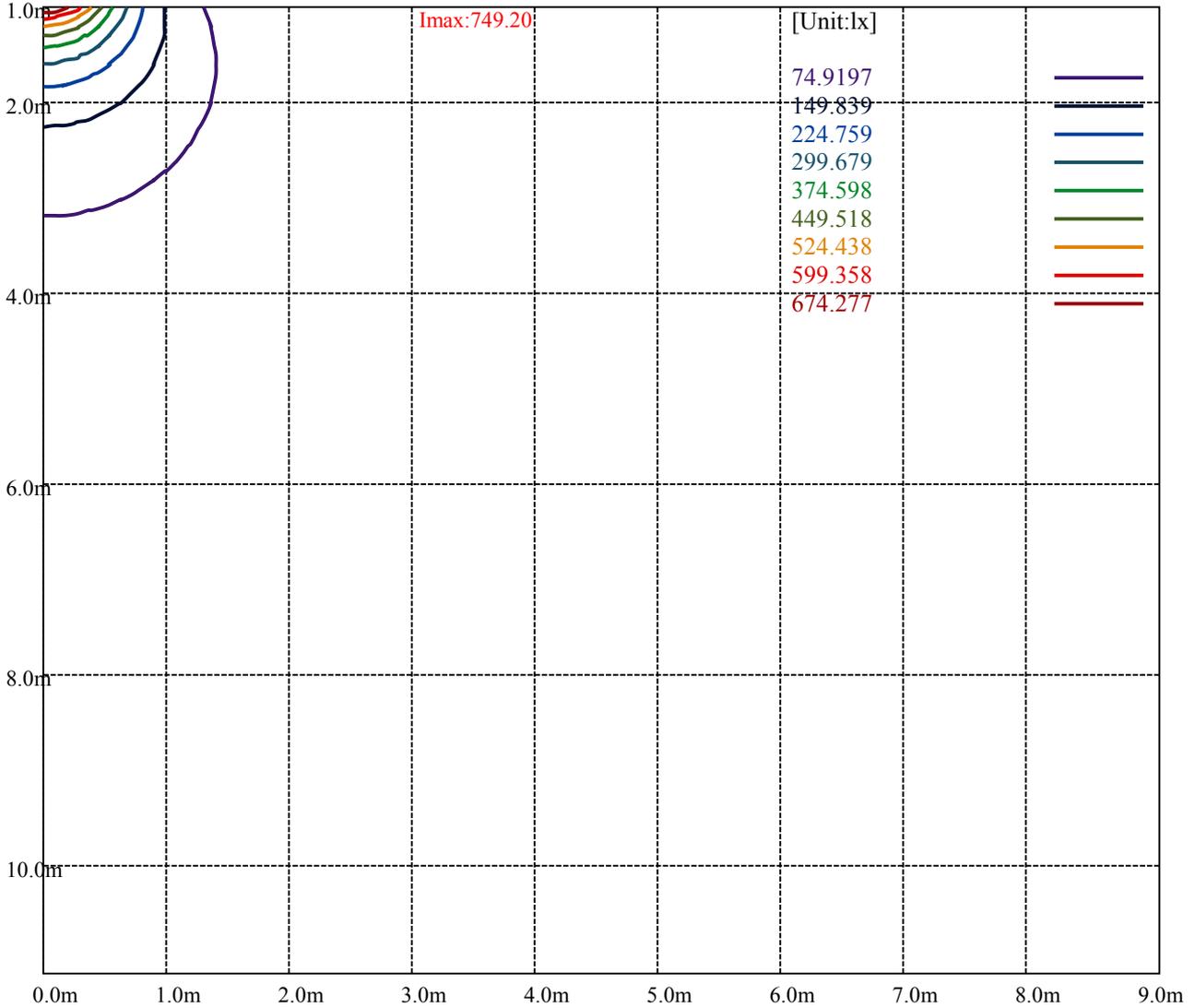
:C90/270Left:60.0 Right:60.0



Max , Ave Beam angle of C60 plane 116.32



- (10%Emax) 18.72993
- (20%Emax) 37.45975
- (30%Emax) 56.18975
- (40%Emax) 74.91975
- (50%Emax) 93.6495
- (60%Emax) 112.3795
- (70%Emax) 131.1095
- (80%Emax) 149.8392
- (90%Emax) 168.5692



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Luminance Limiting Curve(no luminous side)

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Luminance Table

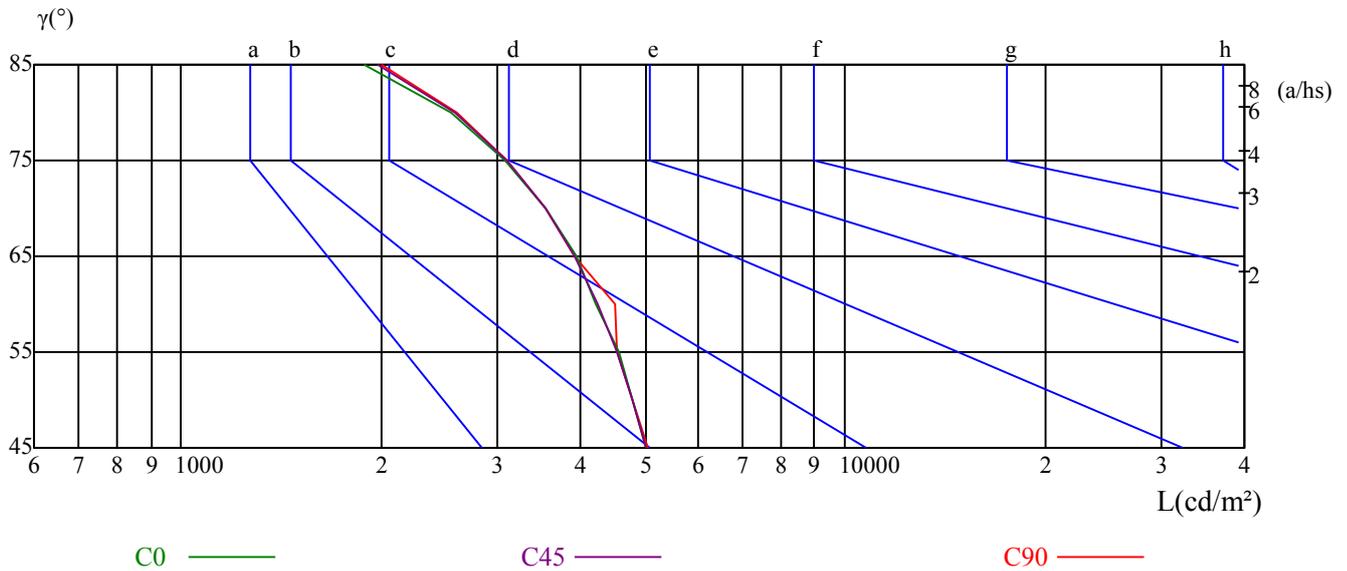
γ	45	50	55	60	65	70	75	80	85
C0	5016	4780	4552	4224	3945	3535	3081	2552	1892
C45	5029	4794	4525	4249	3914	3551	3093	2584	1975
C90	5035	4787	4542	4516	3924	3541	3093	2600	2009

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6212	6180	6165	6162	6187	6186	7688	8164	8025

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	1.17	1.17	1.17	1.13	1.13	1.13	1.05	1.05	1.05	0.99	0.99	0.99	0.93	0.93	0.93	0.90
1	1.00	0.96	0.91	0.97	0.93	0.89	0.91	0.87	0.84	0.85	0.82	0.80	0.80	0.78	0.76	0.73
2	0.87	0.80	0.74	0.84	0.78	0.72	0.79	0.73	0.69	0.74	0.70	0.66	0.70	0.66	0.63	0.60
3	0.76	0.67	0.61	0.74	0.66	0.60	0.69	0.63	0.57	0.65	0.59	0.55	0.61	0.57	0.53	0.50
4	0.67	0.58	0.51	0.65	0.57	0.50	0.61	0.54	0.48	0.58	0.52	0.47	0.54	0.49	0.45	0.42
5	0.60	0.51	0.44	0.58	0.49	0.43	0.55	0.47	0.42	0.52	0.45	0.40	0.49	0.43	0.39	0.37
6	0.54	0.45	0.38	0.52	0.44	0.38	0.49	0.42	0.36	0.47	0.40	0.35	0.44	0.39	0.34	0.32
7	0.49	0.40	0.33	0.47	0.39	0.33	0.45	0.37	0.32	0.42	0.36	0.31	0.40	0.35	0.30	0.28
8	0.44	0.36	0.30	0.43	0.35	0.29	0.41	0.34	0.29	0.39	0.32	0.28	0.37	0.31	0.27	0.25
9	0.40	0.32	0.27	0.39	0.32	0.26	0.38	0.31	0.26	0.36	0.29	0.25	0.34	0.28	0.24	0.22
10	0.37	0.29	0.24	0.36	0.29	0.24	0.35	0.28	0.23	0.33	0.27	0.23	0.32	0.26	0.22	0.20

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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	749.20	748.30	741.03	726.59	706.13	678.94	647.72	609.95	567.77
15.0	749.20	748.02	740.26	727.34	706.48	679.66	647.60	609.85	567.68
30.0	749.20	747.66	740.14	726.46	706.08	679.09	647.84	610.43	568.67
45.0	749.20	747.11	740.66	726.86	706.25	679.55	647.86	612.18	568.87
60.0	749.20	747.74	740.82	726.90	706.33	680.39	651.00	612.32	571.00
75.0	749.20	748.83	741.26	727.04	706.98	681.00	651.00	613.16	573.59
90.0	749.20	748.01	740.71	726.94	707.78	682.05	650.94	617.46	573.85
105.0	749.20	748.47	743.16	729.53	709.77	684.16	653.15	618.66	578.23
120.0	749.20	748.74	742.33	729.06	710.39	685.31	654.47	618.78	578.60
135.0	749.20	749.01	742.88	729.88	710.84	687.76	657.64	622.39	582.38
150.0	749.20	749.84	744.06	732.13	695.17	689.20	658.93	623.80	587.01
165.0	749.20	749.93	745.43	733.69	715.33	690.92	661.27	627.68	584.64
180.0	749.20	744.35	733.05	715.10	691.41	662.16	627.98	589.04	545.97
195.0	749.20	744.95	733.75	716.51	693.03	663.77	629.54	590.71	550.25
210.0	749.20	745.03	733.53	716.04	694.49	665.68	631.62	592.76	549.65
225.0	749.20	744.57	734.40	717.14	693.81	664.75	632.88	591.39	550.80
240.0	749.20	744.74	733.45	717.89	692.32	665.38	631.16	591.93	548.16
255.0	749.20	745.09	733.33	715.83	691.85	662.12	627.48	587.54	543.41
270.0	749.20	744.18	732.05	713.43	690.53	658.69	625.30	585.07	540.55
285.0	749.20	745.26	730.54	713.80	688.91	658.18	622.14	581.25	571.55
300.0	749.20	743.16	730.71	711.31	705.72	655.02	618.41	577.14	531.28
315.0	749.20	742.88	729.79	709.65	683.83	651.78	614.79	572.95	528.46
330.0	749.20	743.33	729.57	709.38	683.15	650.22	613.80	571.78	525.36
345.0	749.20	742.41	728.64	708.36	681.56	648.97	611.44	569.03	525.16
360.0	749.20	748.30	741.03	726.59	706.13	678.94	647.72	609.95	567.77
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	521.03	470.87	420.18	361.23	309.19	247.37	189.14	133.60	82.55
15.0	520.99	472.85	419.39	363.40	308.85	246.81	188.83	136.09	84.80
30.0	522.38	472.38	419.39	363.68	308.61	250.28	192.12	136.60	87.77
45.0	524.74	475.25	422.59	367.11	309.81	257.69	196.58	141.01	89.35
60.0	525.58	476.35	423.93	371.14	314.26	256.29	198.58	143.07	94.20
75.0	528.55	479.68	427.71	372.82	316.11	258.49	203.96	148.44	96.83
90.0	531.97	480.70	432.07	377.61	321.14	263.75	206.28	153.73	101.91
105.0	533.59	485.47	434.06	380.00	323.83	268.85	211.49	155.97	104.47
120.0	537.42	486.53	438.48	384.67	328.56	271.36	216.63	158.33	109.28
135.0	540.63	490.92	439.83	389.20	333.44	276.31	219.00	163.24	111.24
150.0	540.32	495.83	447.76	391.71	335.93	278.60	224.11	167.97	115.59
165.0	544.16	496.80	449.35	396.03	340.41	283.14	225.50	169.24	119.13
180.0	499.05	448.71	398.73	340.23	286.31	228.80	172.63	119.69	69.45
195.0	500.40	453.08	399.70	344.16	286.82	229.38	175.92	119.66	73.60
210.0	502.54	452.00	398.56	345.93	282.79	230.89	174.37	120.74	69.39
225.0	503.67	452.91	396.07	343.23	285.66	227.82	171.25	120.31	71.01
240.0	500.56	449.41	395.26	338.74	283.95	226.07	169.37	113.03	66.89
255.0	495.36	446.86	392.51	335.80	277.81	219.64	163.11	150.81	63.09
270.0	492.01	440.10	385.09	372.41	271.23	213.30	156.92	104.37	59.48
285.0	488.21	435.61	380.36	322.91	264.28	208.75	150.02	100.35	53.70
300.0	481.77	428.96	375.61	315.57	259.46	201.35	145.52	93.90	48.32
315.0	476.64	425.55	369.61	311.84	252.97	195.01	139.53	88.44	45.69
330.0	475.19	421.61	365.56	307.49	251.44	193.38	137.88	86.78	42.56
345.0	472.30	421.36	365.10	307.00	248.26	190.35	135.01	84.07	42.49
360.0	521.03	470.87	420.18	361.23	309.19	247.37	189.14	133.60	82.55

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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	41.45	42.17	42.89	42.89	43.25	42.98	41.90	40.47	38.67
15.0	42.17	43.80	44.52	44.61	44.79	44.16	42.81	41.36	39.28
30.0	43.75	45.02	46.47	46.56	46.38	45.74	44.57	43.21	41.21
45.0	46.40	47.03	48.49	48.22	48.76	48.12	46.85	45.22	43.58
60.0	50.06	48.78	50.06	49.69	50.15	49.60	48.33	47.05	45.05
75.0	54.34	50.24	51.15	50.60	50.88	50.06	48.87	47.78	46.04
90.0	57.02	51.09	51.91	51.18	50.82	49.90	48.81	47.62	46.16
105.0	59.55	51.68	52.51	51.87	51.14	50.40	49.12	47.93	46.29
120.0	63.70	51.89	52.63	52.17	50.98	50.34	49.06	47.59	45.67
135.0	67.29	51.64	52.19	51.64	50.54	49.53	47.88	46.14	44.31
150.0	68.80	51.10	51.65	51.37	50.45	48.71	47.15	45.41	43.39
165.0	71.50	50.30	50.85	50.48	49.47	48.09	46.53	44.79	42.77
180.0	50.42	51.05	50.87	49.98	48.54	46.93	45.04	42.98	40.47
195.0	49.76	50.66	50.39	49.49	48.31	46.87	45.15	43.17	41.09
210.0	49.19	50.27	49.82	48.91	47.83	46.56	44.84	42.94	40.76
225.0	48.40	49.85	49.40	48.76	47.94	46.76	46.13	42.77	40.41
240.0	47.69	49.24	49.24	48.60	47.78	46.69	45.14	42.23	39.41
255.0	46.59	48.60	47.87	48.05	47.32	46.23	44.49	41.67	38.84
270.0	45.34	47.26	46.89	47.53	46.35	45.34	43.61	40.87	38.23
285.0	44.09	46.01	45.83	46.47	46.01	44.64	42.90	40.25	37.23
300.0	42.92	44.66	44.30	45.12	44.57	43.66	41.83	39.26	36.61
315.0	42.66	43.12	43.12	43.67	43.03	42.02	40.65	38.54	36.16
330.0	42.20	42.66	42.66	42.84	42.29	41.28	39.72	37.61	35.32
345.0	42.40	43.04	43.23	43.50	42.86	41.85	40.47	38.18	35.61
360.0	41.45	42.17	42.89	42.89	43.25	42.98	41.90	40.47	38.67
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	36.43	33.47	31.49	29.43	27.28	24.58	22.52	20.82	17.86
15.0	37.12	34.77	32.24	29.80	28.27	25.92	24.11	20.50	17.25
30.0	38.86	36.41	33.61	31.16	28.80	26.81	24.09	21.20	17.94
45.0	40.95	38.23	35.87	33.41	31.33	29.06	26.06	22.25	18.89
60.0	42.41	40.04	37.95	35.59	33.22	30.76	27.76	23.30	19.57
75.0	44.04	41.85	39.39	36.84	34.28	31.64	28.54	24.25	20.51
90.0	44.25	42.51	40.05	37.41	34.76	32.02	29.29	26.09	21.35
105.0	44.18	41.99	39.88	37.41	35.13	32.57	29.82	26.71	22.96
120.0	43.11	41.18	39.17	36.97	34.87	32.76	30.02	27.27	23.98
135.0	42.12	40.28	38.45	36.26	34.24	32.14	29.94	26.73	23.71
150.0	41.10	39.17	37.70	35.78	33.76	31.83	29.36	26.51	23.67
165.0	40.47	38.55	37.08	35.34	33.50	31.76	29.64	26.43	23.86
180.0	38.22	36.25	34.18	32.03	29.34	28.08	25.66	22.70	18.30
195.0	38.92	36.76	34.23	31.61	29.89	29.17	25.11	21.40	17.88
210.0	39.04	38.32	33.97	31.61	29.17	26.81	24.28	19.47	17.84
225.0	37.95	36.14	33.51	30.96	28.33	25.97	22.25	18.61	18.61
240.0	37.41	34.95	32.31	29.67	27.39	24.94	20.48	17.56	18.38
255.0	36.47	33.46	30.73	27.54	25.99	23.25	18.96	16.41	18.14
270.0	35.31	32.11	28.74	25.82	23.54	21.17	18.06	15.60	18.06
285.0	34.58	31.74	28.54	25.16	23.33	20.77	17.47	15.46	18.02
300.0	34.05	31.58	28.28	25.08	23.34	21.23	18.12	16.38	16.84
315.0	33.60	30.76	27.10	24.99	23.07	20.87	18.49	15.75	17.03
330.0	32.84	29.72	28.07	25.59	22.75	20.73	18.53	15.59	17.61
345.0	33.41	30.29	27.72	24.51	22.30	21.20	17.99	16.24	19.18
360.0	36.43	33.47	31.49	29.43	27.28	24.58	22.52	20.82	17.86

Intensity data(cd)

C/γ(°)	180.0
0.0	17.94
15.0	18.33
30.0	18.39
45.0	18.61
60.0	18.93
75.0	19.24
90.0	18.34
105.0	19.03
120.0	19.59
135.0	21.15
150.0	21.65
165.0	21.75
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	17.94