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乐达凯

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Client:

LumCAT: ALDF16LAJUDWH 3000K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 119.990

LampCAT:

Current(A): 0.252

Lamp flux(lm): 2702.0

Power (W): 29.990

Number of Lamps: 1

PF: 0.991

Length(mm): -380

Width(mm): -380

Phm Type: C

Height(mm): 80

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Photometric Results

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Lumens(lm): 2702.04, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 90.10

Central intensity(cd): 787.030, Maximum intensity(cd): 787.030

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=115.8

[C90/270]Total=120.4

Field angle(10%Imax): [C0/180]Total=173.8

[C90/270]Total=173.2

Maximum s/h(1/2): C0\_180=1.26 C90\_270=1.27

Maximum s/h(1/4): C0\_180=1.39 C90\_270=1.40

Up flux rate of lamp(%): 10.31%

Down flux rate of lamp(%): 89.69%

Up flux rate of LUM(%): 10.31%

Down flux rate of LUM(%): 89.69%

CIE Type : Semidirect lighting

Output flux ratio in  $\pi$  solid angle : 66.923%

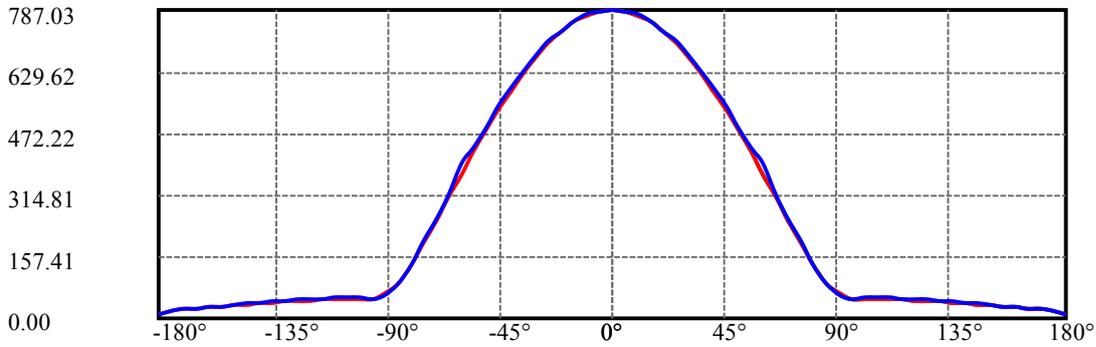
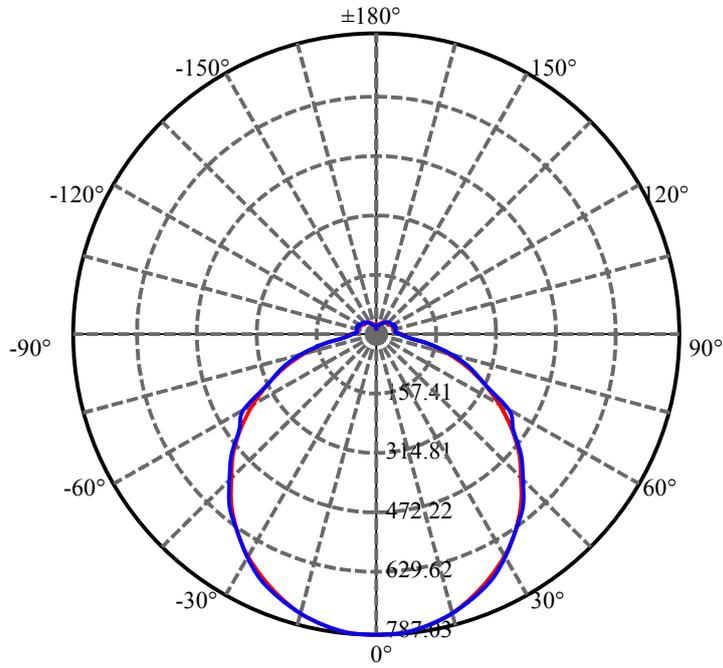
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	787.029	0.000	0	0.00%	0.00%
5.0	783.690	18.778	18.778	0.69%	0.69%
10.0	774.048	55.725	74.503	2.06%	2.76%
15.0	757.526	90.852	165.355	3.36%	6.12%
20.0	734.352	122.952	288.306	4.55%	10.67%
25.0	705.445	151.008	439.315	5.59%	16.26%
30.0	670.956	174.185	613.499	6.45%	22.71%
35.0	630.645	191.670	805.169	7.09%	29.80%
40.0	587.889	203.303	1008.472	7.52%	37.32%
45.0	537.840	208.438	1216.91	7.71%	45.04%
50.0	485.345	206.750	1423.66	7.65%	52.69%
55.0	429.492	198.916	1622.576	7.36%	60.05%
60.0	373.970	185.718	1808.294	6.87%	66.92%
65.0	311.938	166.746	1975.039	6.17%	73.09%
70.0	251.638	142.701	2117.74	5.28%	78.38%
75.0	192.510	116.093	2233.834	4.30%	82.67%
80.0	138.262	88.505	2322.339	3.28%	85.95%
85.0	86.534	61.082	2383.421	2.26%	88.21%
90.0	59.243	39.915	2423.336	1.48%	89.69%
95.0	50.427	30.029	2453.365	1.11%	90.80%
100.0	51.247	27.627	2480.992	1.02%	91.82%
105.0	50.913	27.335	2508.327	1.01%	92.83%
110.0	50.363	26.472	2534.799	0.98%	93.81%
115.0	49.224	25.216	2560.015	0.93%	94.74%
120.0	47.714	23.566	2583.581	0.87%	95.62%
125.0	45.745	21.603	2605.184	0.80%	96.42%
130.0	43.403	19.384	2624.567	0.72%	97.13%
135.0	40.880	17.031	2641.598	0.63%	97.76%
140.0	38.413	14.682	2656.28	0.54%	98.31%
145.0	35.662	12.359	2668.639	0.46%	98.76%
150.0	32.949	10.103	2678.742	0.37%	99.14%
155.0	30.444	8.022	2686.764	0.30%	99.43%
160.0	28.084	6.139	2692.903	0.23%	99.66%
165.0	25.367	4.405	2697.308	0.16%	99.82%
170.0	22.210	2.822	2700.13	0.10%	99.93%
175.0	20.742	1.537	2701.667	0.06%	99.99%
180.0	10.253	0.371	2702.037	0.01%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	613.50	22.71%	22.71%
0-40	1008.47	37.32%	37.32%
0-60	1808.29	66.92%	66.92%
0-90	2423.34	89.69%	89.69%
0-120	2583.58	95.62%	95.62%
0-180	2702.04	100.00%	100.00%
60-90	615.04	22.76%	22.76%
90-120	160.24	5.93%	5.93%
90-130	201.23	7.45%	7.45%
90-150	255.41	9.45%	9.45%
90-180	278.33	10.30%	10.30%
0-71.89	2161.63	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	74.50
10-20	213.80
20-30	325.19
30-40	394.97
40-50	415.19
50-60	384.63
60-70	309.45
70-80	204.60
80-90	101.00
90-100	57.66
100-110	53.81
110-120	48.78
120-130	40.99
130-140	31.71
140-150	22.46
150-160	14.16
160-170	7.23
170-180	1.54



C0(Max): —————

C0/C180: —————

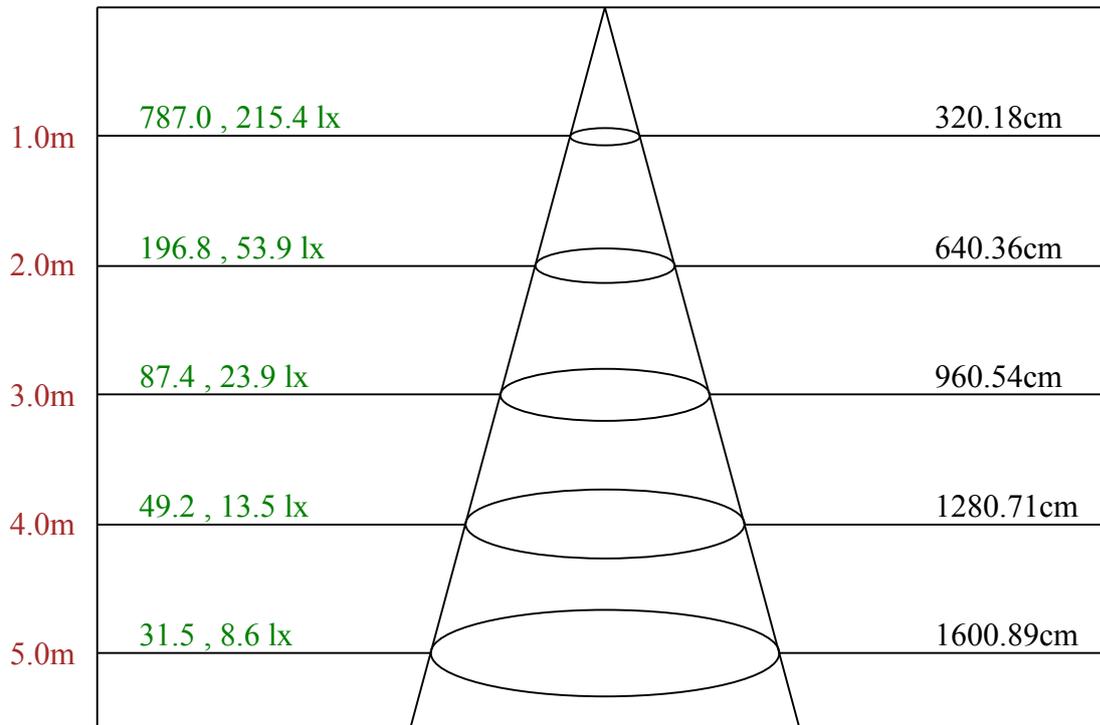
C90/C270: —————

Field angle(10%Imax):C0/180Left:86.9 Right:86.9

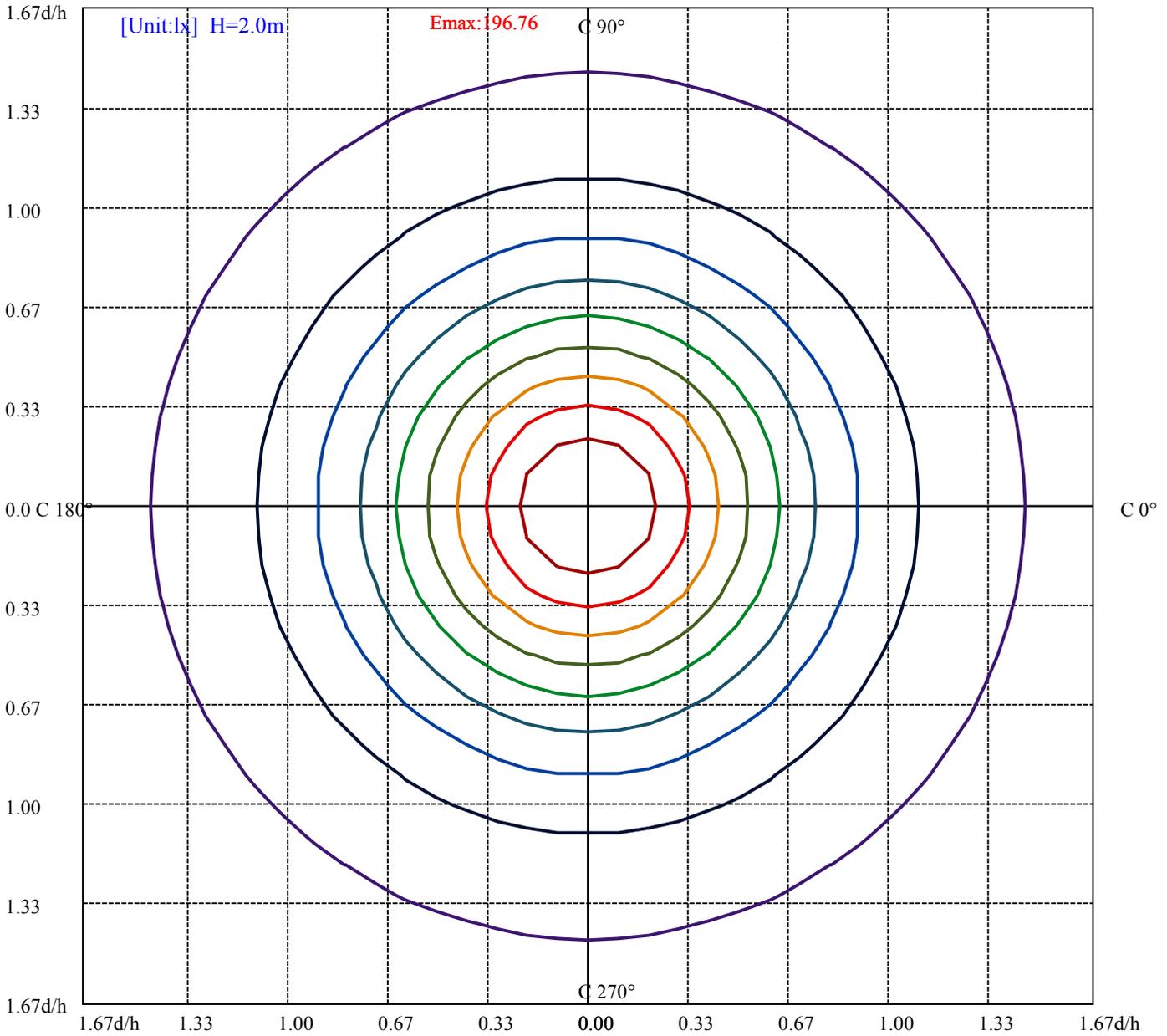
:C90/270Left:86.6 Right:86.6

Beam Angle(50%Imax):C0/180Left:57.9 Right:57.9

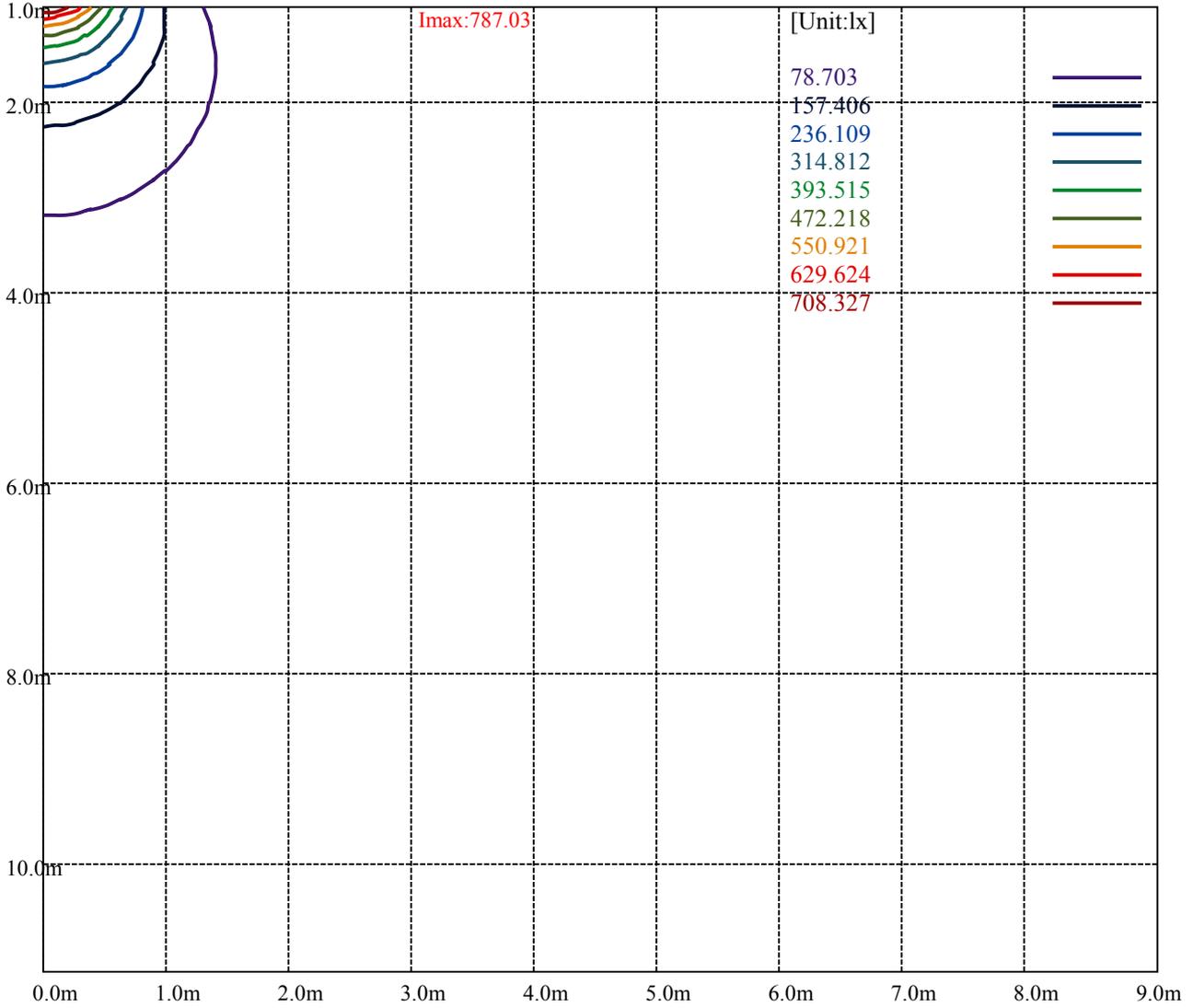
:C90/270Left:60.2 Right:60.2



Max , Ave      Beam angle of C0 plane 116.02



- (10%Emax) 19.67573
- (20%Emax) 39.3515
- (30%Emax) 59.02725
- (40%Emax) 78.703
- (50%Emax) 98.37875
- (60%Emax) 118.0545
- (70%Emax) 137.7303
- (80%Emax) 157.4057
- (90%Emax) 177.0815



# 乐达凯 ALDF16LAJUDWH 3000K

## Luminance Limiting Curve(no luminous side)

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Luminance Table

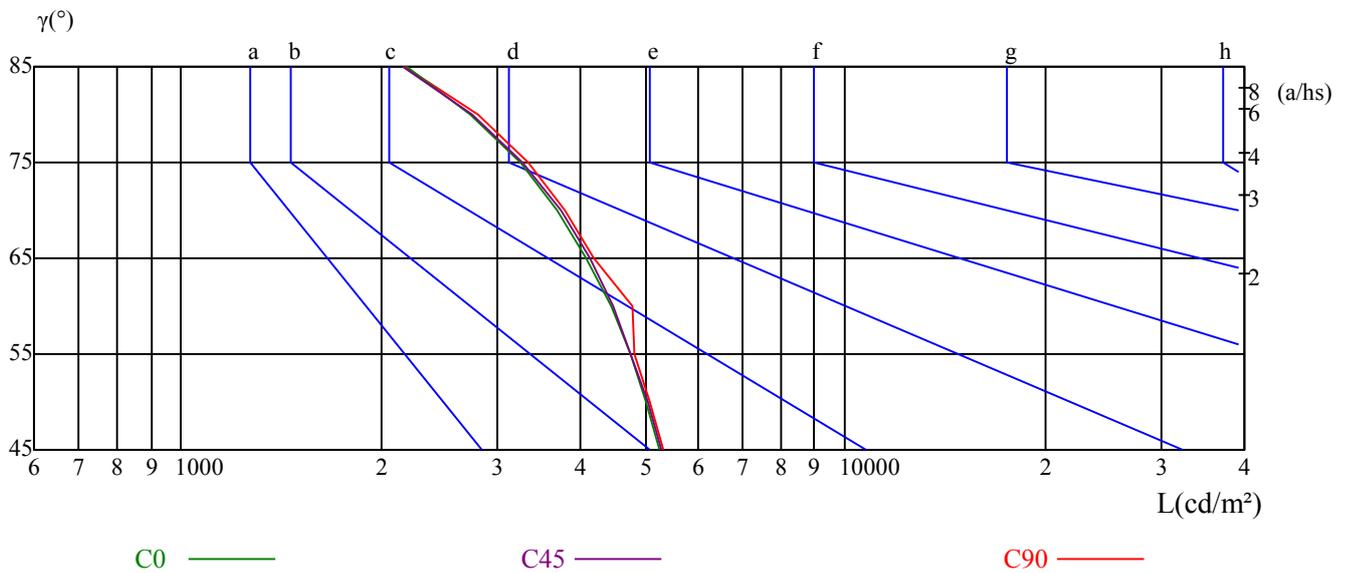
$\gamma$	45	50	55	60	65	70	75	80	85
C0	5260	5020	4745	4438	4088	3687	3251	2720	2186
C45	5289	5046	4765	4477	4130	3737	3272	2743	2155
C90	5325	5069	4814	4788	4174	3796	3335	2794	2168

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6438	6573	6505	6504	6671	6545	8885	8810	8757

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	0.77	0.72	0.79	0.73	0.69	0.74	0.69	0.66	0.69	0.66	0.63	0.60
3	0.76	0.67	0.61	0.73	0.66	0.59	0.69	0.62	0.57	0.65	0.59	0.55	0.61	0.56	0.53	0.50
4	0.67	0.58	0.51	0.65	0.57	0.50	0.61	0.54	0.48	0.57	0.51	0.47	0.54	0.49	0.45	0.42
5	0.60	0.50	0.44	0.58	0.49	0.43	0.55	0.47	0.42	0.51	0.45	0.40	0.49	0.43	0.39	0.36
6	0.54	0.44	0.38	0.52	0.44	0.37	0.49	0.42	0.36	0.47	0.40	0.35	0.44	0.38	0.34	0.32
7	0.48	0.40	0.33	0.47	0.39	0.33	0.45	0.37	0.32	0.42	0.36	0.31	0.40	0.34	0.30	0.28
8	0.44	0.36	0.30	0.43	0.35	0.29	0.41	0.34	0.28	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	0.37	0.30	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	787.03	788.21	783.57	773.82	753.69	731.18	700.76	664.68	623.87
15.0	787.03	788.40	784.29	773.08	755.22	730.70	702.71	664.34	626.32
30.0	787.03	788.76	783.75	773.10	755.44	731.03	700.81	665.11	624.32
45.0	787.03	788.85	784.57	773.83	755.62	731.50	702.55	666.49	625.80
60.0	787.03	788.67	784.75	773.55	755.88	731.74	701.40	665.33	624.34
75.0	787.03	789.31	785.21	774.09	755.60	731.28	701.04	663.97	623.43
90.0	787.03	788.58	785.21	772.27	755.13	730.80	699.91	662.91	620.71
105.0	787.03	788.40	783.84	771.90	753.04	729.16	695.71	660.54	618.07
120.0	787.03	787.58	783.39	771.28	751.98	725.86	693.82	656.22	614.26
135.0	787.03	786.67	781.21	768.66	749.38	721.82	690.99	652.71	609.05
150.0	787.03	787.30	781.20	767.90	727.83	722.18	689.21	651.68	606.69
165.0	787.03	787.21	780.75	767.83	747.53	719.68	686.28	647.70	601.83
180.0	787.03	778.65	763.16	740.48	711.32	676.52	636.26	591.16	544.33
195.0	787.03	778.46	763.79	739.81	713.10	678.46	638.45	593.60	544.38
210.0	787.03	778.47	762.81	738.23	712.10	677.41	638.98	593.19	546.30
225.0	787.03	778.38	763.00	740.87	712.01	678.69	639.36	595.30	547.05
240.0	787.03	778.74	763.25	741.57	713.79	679.91	643.47	597.10	552.20
255.0	787.03	779.38	763.98	743.12	715.07	682.00	643.56	600.38	552.74
270.0	787.03	779.37	764.79	743.38	715.76	682.77	644.68	601.85	557.56
285.0	787.03	779.19	764.61	745.75	716.40	686.24	648.32	605.76	594.92
300.0	787.03	779.57	765.73	745.07	740.06	687.08	649.12	606.88	560.19
315.0	787.03	779.57	765.93	745.29	717.91	685.72	650.70	606.32	562.49
330.0	787.03	780.02	766.54	747.77	719.27	689.66	652.41	610.42	564.06
345.0	787.03	780.84	767.83	747.99	721.32	689.29	652.43	611.84	564.43
360.0	787.03	788.21	783.57	773.82	753.69	731.18	700.76	664.68	623.87
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	578.77	531.31	478.65	422.99	364.86	305.01	244.34	187.76	131.55
15.0	581.20	531.98	479.02	423.05	367.17	304.27	246.39	186.68	132.99
30.0	581.99	529.72	479.92	423.74	365.20	305.01	244.10	187.47	130.84
45.0	582.92	531.12	477.77	424.06	362.61	304.89	243.89	184.08	127.45
60.0	578.43	531.88	478.14	421.39	362.09	301.33	239.93	182.91	126.07
75.0	577.61	527.24	473.13	416.20	359.81	298.69	237.11	177.08	123.25
90.0	576.42	523.02	471.16	413.66	353.69	294.91	233.21	173.15	116.74
105.0	570.77	519.55	464.33	409.65	345.94	287.62	225.83	165.77	109.72
120.0	565.01	515.13	459.87	401.62	340.90	279.18	217.47	160.76	105.23
135.0	561.12	509.01	453.17	394.52	337.22	275.20	213.45	154.15	101.95
150.0	559.78	507.32	451.40	392.65	331.63	269.60	207.94	151.83	97.37
165.0	556.69	504.18	448.03	391.88	330.90	268.84	207.41	148.61	94.65
180.0	491.04	434.37	375.07	313.94	252.26	191.68	137.47	82.27	44.09
195.0	491.14	434.53	375.19	317.77	256.05	195.44	138.01	85.41	45.49
210.0	493.94	437.95	379.40	318.76	257.40	197.03	142.22	89.23	47.44
225.0	494.89	442.54	381.09	324.10	263.01	202.56	144.84	91.40	50.07
240.0	496.90	445.16	387.14	327.29	266.26	205.87	150.85	94.37	52.10
255.0	501.55	446.71	389.23	332.57	269.08	211.70	153.85	141.37	54.93
270.0	506.61	452.11	394.88	381.39	276.41	216.44	158.39	104.17	57.41
285.0	508.98	454.94	398.16	339.11	278.87	218.90	161.03	109.54	61.61
300.0	510.03	456.14	399.43	343.72	283.73	223.75	165.67	111.33	63.54
315.0	512.29	458.90	402.61	344.13	284.20	224.27	166.34	114.95	66.75
330.0	513.88	460.32	404.03	348.66	288.73	228.52	170.32	115.67	67.67
345.0	516.19	463.14	406.98	348.47	288.49	228.61	170.18	118.31	67.89
360.0	578.77	531.31	478.65	422.99	364.86	305.01	244.34	187.76	131.55

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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	80.90	53.02	53.75	53.57	52.57	50.83	49.10	47.28	44.91
15.0	79.58	52.23	53.42	53.14	52.14	50.59	49.04	47.04	44.94
30.0	81.94	51.72	52.90	52.90	51.90	50.81	49.53	47.89	45.71
45.0	76.20	50.80	52.62	52.44	51.53	50.89	49.62	48.34	46.25
60.0	74.42	50.01	52.10	51.92	51.10	50.46	49.37	48.01	46.46
75.0	69.32	48.92	51.56	51.19	51.28	50.65	49.64	48.73	46.91
90.0	65.89	47.57	50.58	50.21	51.22	50.67	49.85	48.57	46.75
105.0	62.06	46.30	49.30	49.03	50.21	49.94	49.03	47.57	45.48
120.0	55.89	45.06	47.43	47.52	48.70	48.06	47.15	45.88	43.78
135.0	51.02	44.02	46.02	46.29	46.93	46.84	45.84	44.56	42.65
150.0	49.46	43.45	45.27	45.27	46.09	46.18	45.36	44.08	42.08
165.0	47.41	43.59	45.05	45.05	45.69	45.50	44.05	43.14	41.32
180.0	46.10	46.83	47.01	47.01	46.46	45.19	43.73	41.72	39.36
195.0	47.58	48.13	48.49	48.77	47.86	46.67	44.94	42.75	40.20
210.0	48.80	49.71	49.71	50.08	49.35	47.89	45.80	43.07	40.24
225.0	50.53	51.35	51.25	51.16	50.16	48.52	48.07	43.79	40.69
240.0	52.29	52.92	52.74	52.01	50.83	49.19	47.09	44.54	41.81
255.0	53.56	53.93	53.47	53.02	51.74	50.10	48.19	45.55	42.72
270.0	54.59	54.95	54.41	53.86	52.68	50.94	48.85	46.30	43.56
285.0	55.04	55.50	54.77	53.95	52.68	51.13	49.03	46.66	43.84
300.0	55.25	55.53	54.80	53.71	52.16	50.52	48.61	46.33	43.88
315.0	54.84	55.02	54.48	53.20	51.93	49.93	48.11	46.02	43.56
330.0	54.74	55.01	54.47	53.46	51.92	50.19	48.00	45.27	42.63
345.0	54.42	54.70	54.33	53.15	51.60	49.69	47.14	44.78	41.95
360.0	80.90	53.02	53.75	53.57	52.57	50.83	49.10	47.28	44.91
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	42.64	39.99	38.08	36.17	34.25	31.89	29.70	26.78	24.14
15.0	42.57	40.02	38.01	35.82	34.00	31.63	29.90	26.53	23.61
30.0	43.16	40.88	38.42	36.15	34.51	32.32	29.96	25.86	23.13
45.0	44.06	41.79	39.97	37.42	34.87	32.23	29.31	25.95	22.40
60.0	44.45	42.36	40.17	37.35	34.43	31.24	28.42	25.32	21.41
75.0	44.45	42.08	39.62	36.71	33.70	30.88	27.51	24.50	21.59
90.0	43.93	41.37	38.28	35.45	32.44	29.98	27.07	23.69	21.05
105.0	42.74	40.01	37.18	33.63	30.62	28.16	26.25	21.51	19.05
120.0	41.24	38.50	35.87	32.68	28.58	26.49	24.12	20.75	18.21
135.0	40.20	37.92	35.20	31.83	28.47	27.28	24.19	20.64	18.01
150.0	39.35	37.16	33.79	31.24	30.33	27.60	24.77	20.40	17.85
165.0	38.86	36.68	34.04	31.85	29.85	27.76	25.21	21.20	18.02
180.0	36.90	33.89	30.70	27.69	24.87	22.78	20.95	17.58	19.40
195.0	37.46	34.55	31.90	29.17	26.07	25.43	20.60	18.32	20.42
210.0	37.79	37.06	31.50	29.41	26.95	24.40	21.12	18.94	20.85
225.0	37.96	34.96	32.23	29.68	27.22	23.85	21.49	19.48	20.94
240.0	38.90	35.98	32.70	29.51	27.15	24.50	22.04	19.95	21.13
255.0	39.99	37.07	33.98	30.88	28.51	25.87	22.96	20.59	21.13
270.0	40.55	37.91	35.09	32.26	29.89	27.25	24.88	22.24	20.51
285.0	41.47	38.82	36.09	33.17	30.53	28.16	25.70	22.42	20.32
300.0	41.60	39.23	36.41	33.50	30.77	28.49	26.13	22.48	20.57
315.0	41.20	38.56	36.20	33.38	30.92	28.74	25.74	22.55	21.28
330.0	40.17	37.89	35.43	33.15	31.06	29.05	25.50	22.77	21.50
345.0	39.50	37.22	35.04	32.67	30.67	28.03	25.30	22.57	21.30
360.0	42.64	39.99	38.08	36.17	34.25	31.89	29.70	26.78	24.14

Intensity data(cd)

C/γ(°)	180.0
0.0	20.41
15.0	22.79
30.0	22.40
45.0	21.30
60.0	20.50
75.0	20.04
90.0	19.78
105.0	20.14
120.0	20.12
135.0	19.83
150.0	19.86
165.0	18.93
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	20.41