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乐达凯

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Client:

LumCAT: CL26-15-26DB-952C5-WH-GD-3000K

Luminaire: LED灯具

Report No:

Ballast type:

Test No: LCZP23030076

Voltage(V): 119.950

LampCAT:

Current(A): 0.242

Lamp flux(lm): 2020.7

Power (W): 27.160

Number of Lamps: 1

PF: 0.937

Length(mm): -330

Width(mm): -330

Phm Type: C

Height(mm): 0

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Photometric Results

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Lumens(lm): 2020.66, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 74.40

Central intensity(cd): 523.876, Maximum intensity(cd): 581.741

Angle of maximum intensity: C=0.0  $\gamma$ =35.0

Beam Angle(50%Imax): [C0/180]Total=123.4

[C90/270]Total=123.6

Field angle(10%Imax): [C0/180]Total=166.2

[C90/270]Total=166.0

Maximum s/h(1/2): C0\_180=1.65 C90\_270=1.65

Maximum s/h(1/4): C0\_180=1.66 C90\_270=1.66

Up flux rate of lamp(%): 0.35%

Down flux rate of lamp(%): 99.65%

Up flux rate of LUM(%): 0.35%

Down flux rate of LUM(%): 99.65%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 78.599%

## 乐达凯 CL26-15-26DB-952C5-WH-GD-3000K

Zonal flux distribution table

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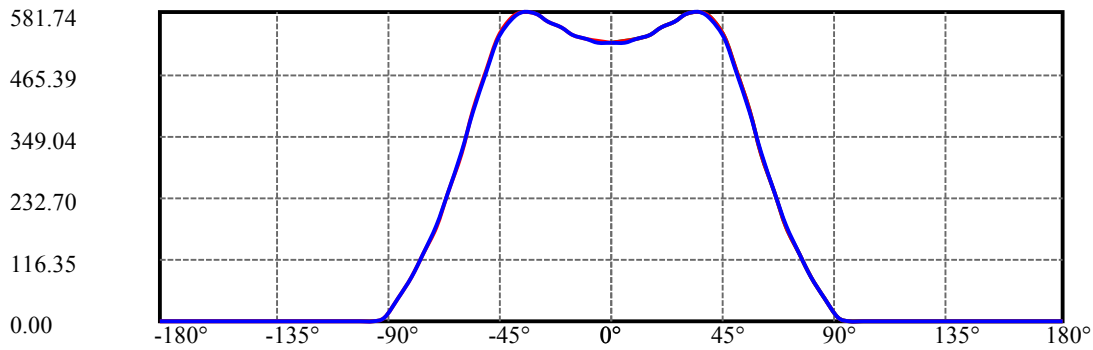
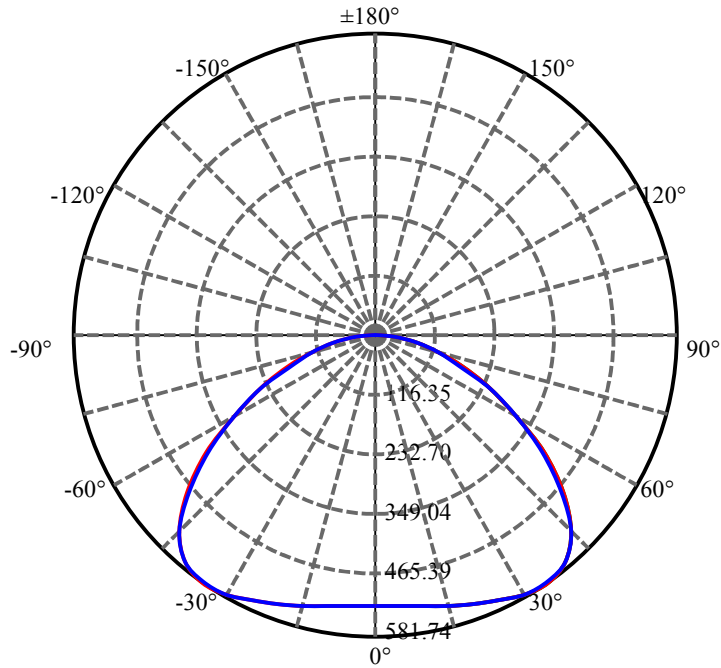
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	523.876	0.000	0	0.00%	0.00%
5.0	525.671	12.547	12.547	0.62%	0.62%
10.0	530.949	37.799	50.346	1.87%	2.49%
15.0	539.557	63.502	113.847	3.14%	5.63%
20.0	551.271	89.900	203.747	4.45%	10.08%
25.0	564.670	117.042	320.789	5.79%	15.88%
30.0	576.083	144.363	465.152	7.14%	23.02%
35.0	579.972	170.237	635.389	8.42%	31.44%
40.0	568.369	191.592	826.981	9.48%	40.93%
45.0	533.795	204.075	1031.056	10.10%	51.03%
50.0	471.888	203.213	1234.268	10.06%	61.08%
55.0	396.482	188.812	1423.081	9.34%	70.43%
60.0	317.897	165.127	1588.208	8.17%	78.60%
65.0	241.470	135.983	1724.191	6.73%	85.33%
70.0	177.473	106.079	1830.269	5.25%	90.58%
75.0	126.612	79.483	1909.752	3.93%	94.51%
80.0	83.269	56.158	1965.911	2.78%	97.29%
85.0	41.540	33.914	1999.824	1.68%	98.97%
90.0	8.457	13.690	2013.514	0.68%	99.65%
95.0	0.449	2.439	2015.952	0.12%	99.77%
100.0	0.487	0.254	2016.207	0.01%	99.78%
105.0	0.599	0.290	2016.497	0.01%	99.79%
110.0	0.562	0.303	2016.8	0.02%	99.81%
115.0	0.562	0.285	2017.085	0.01%	99.82%
120.0	0.637	0.291	2017.376	0.01%	99.84%
125.0	0.898	0.355	2017.731	0.02%	99.86%
130.0	0.898	0.391	2018.122	0.02%	99.87%
135.0	0.898	0.363	2018.485	0.02%	99.89%
140.0	0.898	0.333	2018.818	0.02%	99.91%
145.0	0.898	0.300	2019.117	0.01%	99.92%
150.0	0.973	0.276	2019.393	0.01%	99.94%
155.0	1.347	0.294	2019.687	0.01%	99.95%
160.0	1.646	0.314	2020.001	0.02%	99.97%
165.0	1.796	0.284	2020.284	0.01%	99.98%
170.0	1.796	0.213	2020.497	0.01%	99.99%
175.0	1.796	0.129	2020.626	0.01%	100.00%
180.0	0.935	0.033	2020.659	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	465.15	23.02%	23.02%
0-40	826.98	40.93%	40.93%
0-60	1588.21	78.60%	78.60%
0-90	2013.51	99.65%	99.65%
0-120	2017.38	99.84%	99.84%
0-180	2020.66	100.00%	100.00%
60-90	425.31	21.05%	21.05%
90-120	3.86	0.19%	0.19%
90-130	4.61	0.23%	0.23%
90-150	5.88	0.29%	0.29%
90-180	7.11	0.35%	0.35%
0-61.04	1616.53	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	50.35
10-20	153.40
20-30	261.40
30-40	361.83
40-50	407.29
50-60	353.94
60-70	242.06
70-80	135.64
80-90	47.60
90-100	2.69
100-110	0.59
110-120	0.58
120-130	0.75
130-140	0.70
140-150	0.58
150-160	0.61
160-170	0.50
170-180	0.13



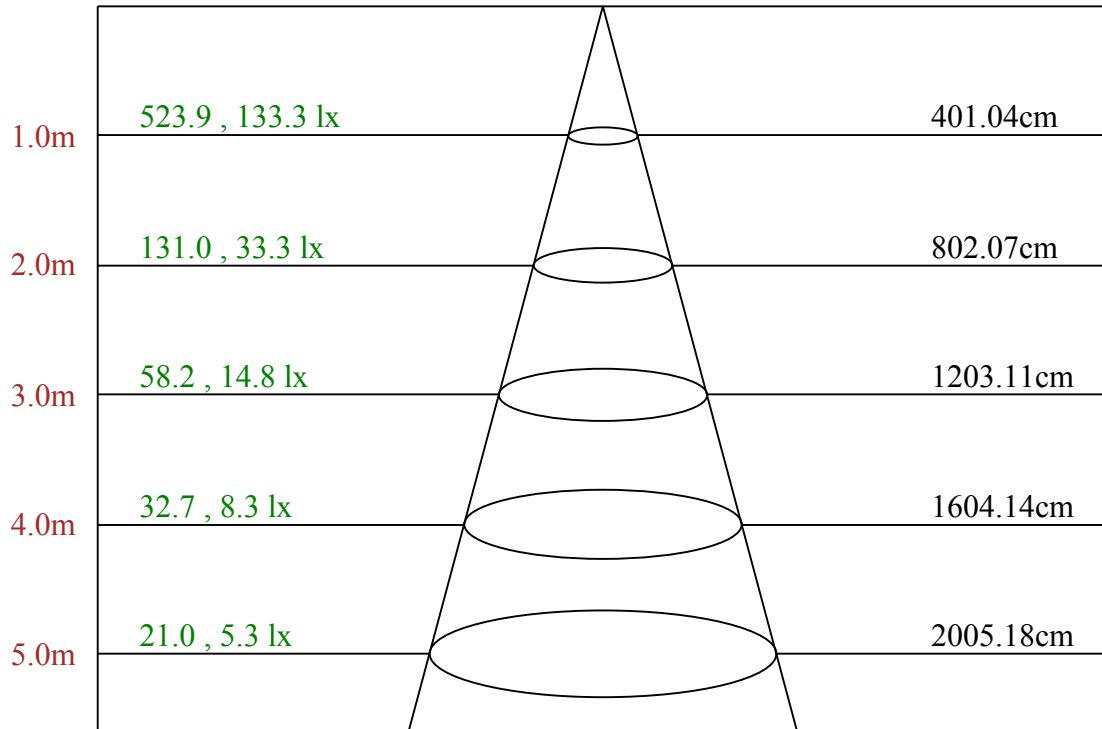
C0(Max): ———

C0/C180: ———

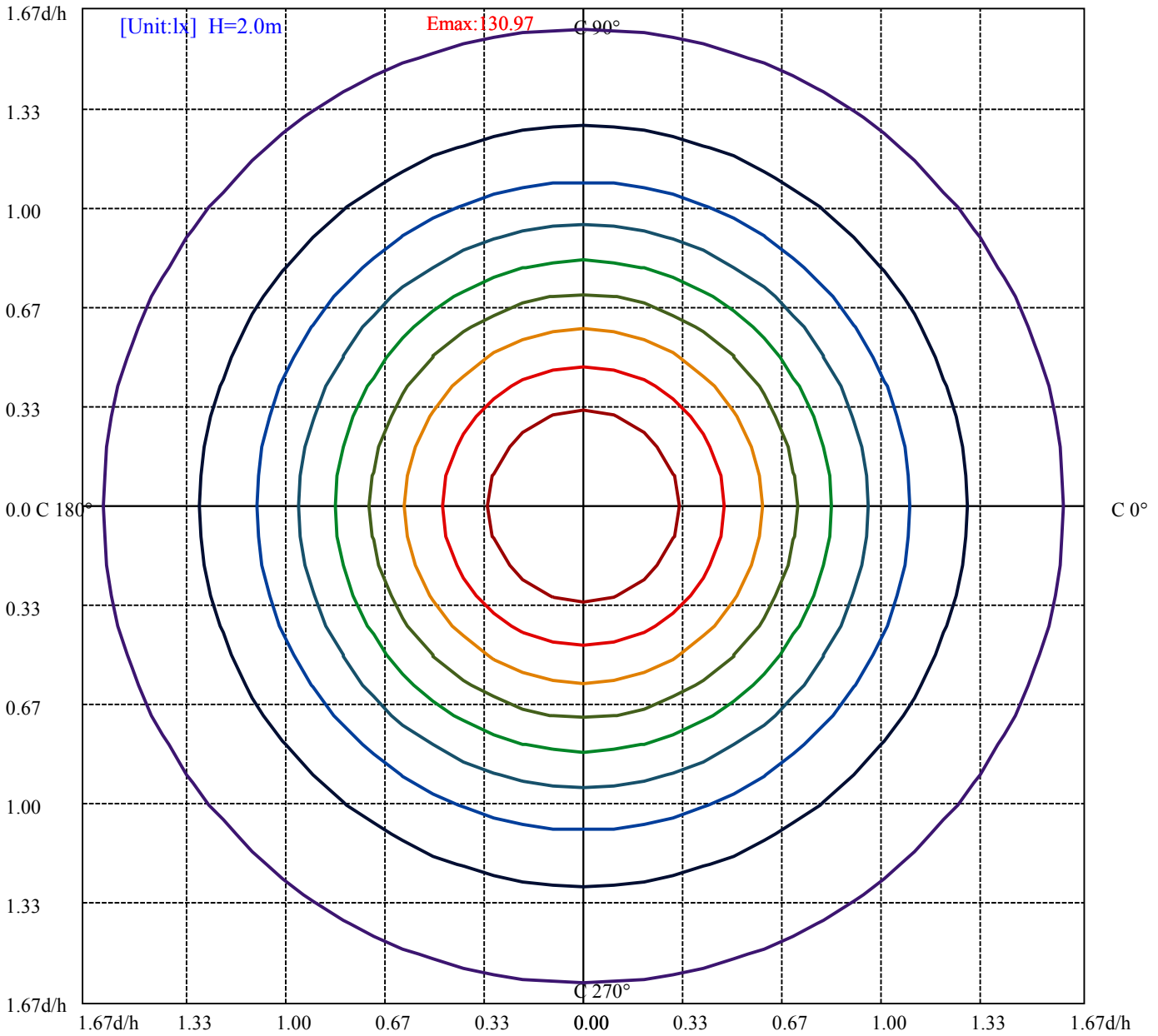
C90/C270: ———

Field angle(10%Imax):C0/180Left:118.1 Right:48.1  
:C90/270Left:118.0 Right:48.0

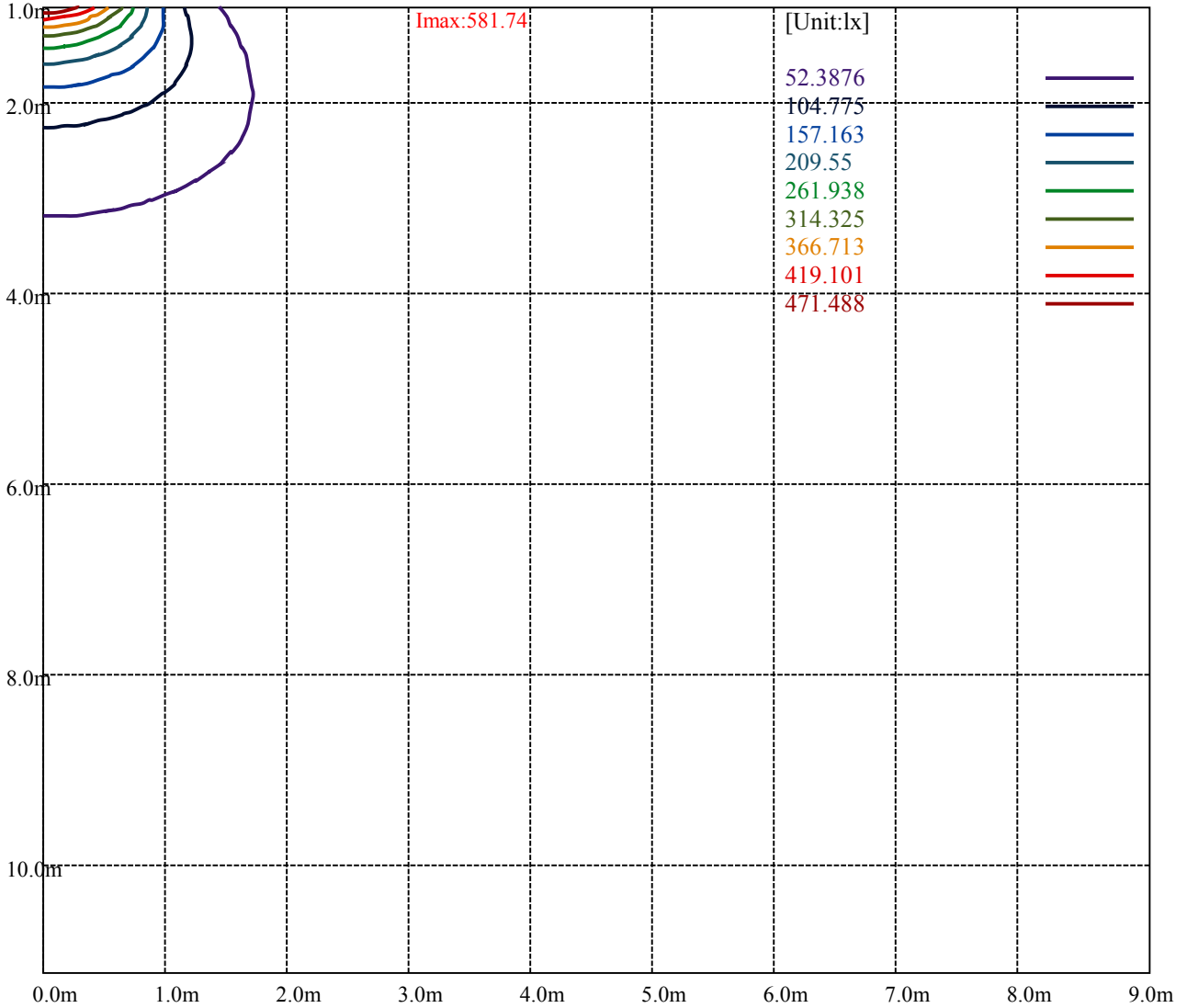
Beam Angle(50%Imax):C0/180Left:96.7 Right:26.7  
:C90/270Left:96.8 Right:26.8



Max , Ave      Beam angle of C0 plane 126.99



(10%Emax) 13.0969	—
(20%Emax) 26.19375	—
(30%Emax) 39.29075	—
(40%Emax) 52.3875	—
(50%Emax) 65.4845	—
(60%Emax) 78.58125	—
(70%Emax) 91.67825	—
(80%Emax) 104.7753	—
(90%Emax) 117.872	—



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Luminance Limiting Curve(no luminous side)

Luminance Table

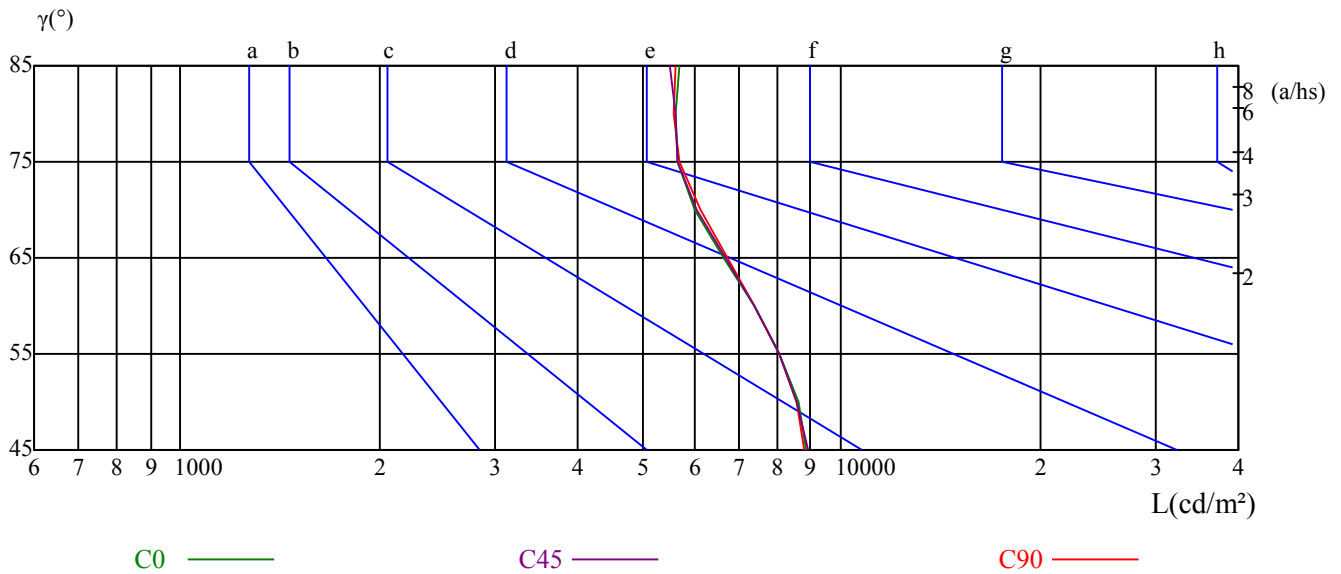
$\gamma$	45	50	55	60	65	70	75	80	85
C0	8837	8621	8086	7385	6648	6025	5667	5621	5689
C45	8912	8588	8078	7388	6686	6062	5672	5621	5524
C90	8796	8547	8064	7409	6736	6123	5693	5576	5615

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6648	6736	6686	5667	5693	5672	5689	5615	5524

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.03	0.99	0.95	1.01	0.97	0.93	0.97	0.93	0.90	0.93	0.90	0.88	0.89	0.87	0.85	0.83
2	0.90	0.83	0.77	0.88	0.81	0.76	0.84	0.79	0.74	0.81	0.76	0.72	0.78	0.74	0.71	0.68
3	0.78	0.70	0.63	0.77	0.69	0.63	0.74	0.67	0.61	0.71	0.65	0.60	0.68	0.63	0.59	0.57
4	0.69	0.60	0.53	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.56	0.51	0.60	0.55	0.50	0.48
5	0.61	0.52	0.45	0.60	0.51	0.45	0.58	0.50	0.44	0.56	0.49	0.44	0.54	0.48	0.43	0.41
6	0.55	0.46	0.39	0.54	0.45	0.39	0.52	0.44	0.38	0.50	0.43	0.38	0.49	0.42	0.38	0.36
7	0.49	0.40	0.34	0.49	0.40	0.34	0.47	0.39	0.34	0.45	0.39	0.33	0.44	0.38	0.33	0.31
8	0.45	0.36	0.30	0.44	0.36	0.30	0.43	0.35	0.30	0.41	0.35	0.30	0.40	0.34	0.29	0.27
9	0.41	0.32	0.27	0.40	0.32	0.27	0.39	0.32	0.27	0.38	0.31	0.26	0.37	0.31	0.26	0.24
10	0.38	0.29	0.24	0.37	0.29	0.24	0.36	0.29	0.24	0.35	0.28	0.24	0.34	0.28	0.24	0.22

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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	523.88	524.76	528.29	535.36	545.96	558.33	572.46	581.30	576.88
15.0	523.88	523.88	526.55	533.68	543.48	555.95	568.42	576.44	573.77
30.0	523.88	522.98	525.66	531.03	540.86	552.48	565.00	571.26	567.68
45.0	523.88	522.98	525.67	531.05	540.02	550.79	561.55	567.83	563.35
60.0	523.88	522.08	524.77	529.27	537.35	548.14	558.92	564.31	559.82
75.0	523.88	522.08	523.88	528.38	536.48	547.28	556.28	562.58	558.08
90.0	523.88	522.08	522.98	528.38	536.48	546.38	556.28	561.68	558.08
105.0	523.88	522.07	523.88	528.38	535.60	546.42	556.34	562.65	559.04
120.0	523.88	522.07	523.88	528.38	535.60	546.42	557.24	563.55	560.84
135.0	523.88	522.97	524.78	529.30	537.42	548.26	560.01	566.33	564.52
150.0	523.88	522.07	524.78	530.20	538.33	550.07	560.91	569.94	568.13
165.0	523.88	522.97	526.59	532.02	540.16	552.83	565.50	574.54	572.73
180.0	523.88	527.41	533.59	544.19	556.56	571.58	580.42	582.18	563.63
195.0	523.88	528.33	535.46	545.26	558.62	572.88	583.57	585.35	566.64
210.0	523.88	528.35	535.50	546.23	560.53	574.83	586.45	588.24	569.47
225.0	523.88	528.36	536.43	548.10	562.45	577.70	590.26	591.15	573.21
240.0	523.88	528.37	537.35	549.04	565.21	580.49	593.97	594.86	575.10
255.0	523.88	529.28	537.38	550.88	566.18	583.28	595.89	597.69	577.88
270.0	523.88	529.28	538.28	550.88	567.08	584.18	597.69	598.59	578.78
285.0	523.88	529.29	538.30	551.83	568.06	584.29	597.81	597.81	577.07
300.0	523.88	529.29	538.30	550.93	567.16	583.39	595.11	594.21	574.37
315.0	523.88	528.39	537.42	550.07	565.42	580.78	593.42	592.52	571.75
330.0	523.88	527.49	536.52	548.26	563.62	578.07	585.30	588.91	567.23
345.0	523.88	529.30	536.54	548.31	561.88	577.26	587.21	585.40	562.78
360.0	523.88	524.76	528.29	535.36	545.96	558.33	572.46	581.30	576.88
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	553.03	501.79	430.23	348.07	270.33	200.54	145.77	100.71	62.72
15.0	548.82	496.26	424.98	345.69	266.39	197.79	144.33	99.79	61.48
30.0	543.54	491.69	419.28	338.82	263.73	197.57	143.93	99.23	61.69
45.0	538.23	486.20	417.13	338.19	264.63	196.45	142.63	98.68	61.00
60.0	533.76	481.64	413.35	338.77	263.29	195.89	141.98	97.95	60.21
75.0	533.78	481.57	414.06	336.65	261.94	197.13	143.12	98.11	60.31
90.0	534.68	482.47	414.96	337.55	264.64	197.13	143.12	98.11	60.31
105.0	534.70	483.30	414.77	339.93	264.19	197.47	142.47	97.38	59.51
120.0	540.11	489.61	421.08	341.74	266.00	199.27	144.27	98.28	60.41
135.0	543.75	494.07	425.42	345.04	269.16	199.61	144.52	100.26	60.52
150.0	548.26	498.59	429.94	351.36	270.97	200.52	144.52	99.36	61.42
165.0	553.73	505.78	436.11	354.68	274.15	204.48	147.48	101.34	63.34
180.0	515.92	446.13	363.09	283.58	210.26	151.95	105.13	66.26	22.09
195.0	521.20	452.60	369.74	286.88	214.72	153.24	106.91	67.71	21.38
210.0	522.09	453.25	373.69	290.55	216.34	156.45	108.17	68.84	22.35
225.0	525.67	455.70	373.17	293.33	218.88	159.67	109.44	68.18	21.53
240.0	528.37	458.28	375.61	292.94	220.15	159.95	110.53	69.19	22.46
255.0	530.18	458.17	378.05	296.14	222.33	161.12	110.72	69.31	23.40
270.0	529.28	457.27	376.25	296.14	222.33	161.12	108.92	67.51	23.40
285.0	529.29	458.95	376.00	293.05	219.11	159.60	130.74	68.53	22.54
300.0	523.88	453.54	374.20	329.11	218.21	156.89	106.40	66.72	21.64
315.0	548.26	452.52	369.42	287.23	214.07	153.55	105.68	66.84	21.68
330.0	517.55	447.10	365.81	283.62	212.26	151.74	104.78	65.03	21.68
345.0	513.02	438.83	359.20	280.49	207.20	150.20	103.15	65.15	19.91
360.0	553.03	501.79	430.23	348.07	270.33	200.54	145.77	100.71	62.72

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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	16.79	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88
15.0	17.82	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
30.0	16.09	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.89
45.0	15.25	0.00	0.00	0.90	0.00	0.00	0.00	0.90	0.90
60.0	16.17	0.00	0.90	0.90	0.00	0.00	0.00	0.90	0.90
75.0	15.30	0.00	0.00	0.90	0.90	0.00	0.00	0.90	0.90
90.0	14.40	0.00	0.00	0.90	0.90	0.00	0.90	0.90	0.90
105.0	15.33	0.00	0.00	0.00	0.90	0.90	0.90	0.90	0.90
120.0	15.33	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90
135.0	15.35	0.00	0.00	0.00	0.00	0.00	0.90	0.90	0.90
150.0	17.16	0.00	0.00	0.00	0.00	0.90	0.90	0.90	0.90
165.0	17.19	0.00	0.00	0.00	0.00	0.90	0.00	0.90	0.90
180.0	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
195.0	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
210.0	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
225.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
240.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
255.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
270.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
285.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
300.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
315.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
330.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
345.0	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
360.0	16.79	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.88
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.88	0.88	0.88	0.88	1.77	1.77	1.77	1.77	1.77
15.0	0.89	0.89	0.89	0.89	1.78	1.78	1.78	1.78	1.78
30.0	0.89	0.89	0.89	0.89	1.79	1.79	1.79	1.79	1.79
45.0	0.90	0.90	0.90	0.90	1.79	1.79	1.79	1.79	1.79
60.0	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80
75.0	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80
90.0	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80	1.80
105.0	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80
120.0	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80
135.0	0.90	0.90	0.90	1.81	1.81	1.81	1.81	1.81	1.81
150.0	0.90	0.90	0.90	0.90	1.81	1.81	1.81	1.81	1.81
165.0	0.90	0.90	0.90	0.90	1.81	1.81	1.81	1.81	1.81
180.0	0.88	0.88	0.88	0.88	1.77	1.77	1.77	1.77	1.77
195.0	0.89	0.89	0.89	0.89	1.78	1.78	1.78	1.78	1.78
210.0	0.89	0.89	0.89	0.89	1.79	1.79	1.79	1.79	1.79
225.0	0.90	0.90	0.90	0.90	1.79	1.79	1.79	1.79	1.79
240.0	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80
255.0	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80
270.0	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80
285.0	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80
300.0	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80	1.80
315.0	0.90	0.90	0.90	0.90	1.81	1.81	1.81	1.81	1.81
330.0	0.90	0.90	0.90	0.90	1.81	1.81	1.81	1.81	1.81
345.0	0.90	0.90	0.90	0.90	1.81	1.81	1.81	1.81	1.81
360.0	0.88	0.88	0.88	0.88	1.77	1.77	1.77	1.77	1.77

Intensity data(cd)

C/γ(°)	180.0
0.0	1.77
15.0	2.67
30.0	1.79
45.0	1.79
60.0	1.80
75.0	1.80
90.0	1.80
105.0	1.80
120.0	1.80
135.0	1.81
150.0	1.81
165.0	1.81
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	1.77