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乐达凯

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Client:

LumCAT: CL26-15-26DB-952C5-WH-GD-2700K

Luminaire: LED灯具

Report No:

Ballast type:

Test No: LCZP23030076

Voltage(V): 119.950

LampCAT:

Current(A): 0.240

Lamp flux(lm): 1897.3

Power (W): 26.960

Number of Lamps: 1

PF: 0.935

Length(mm): -330

Width(mm): -330

Phm Type: C

Height(mm): 0

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Photometric Results

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Lumens(lm): 1897.28, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 70.37

Central intensity(cd): 491.802, Maximum intensity(cd): 546.045

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

Beam Angle(50%Imax): [C0/180]Total=123.2

[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(%): 0.37%

Down flux rate of lamp(%): 99.63%

Up flux rate of LUM(%): 0.37%

Down flux rate of LUM(%): 99.63%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 78.587%

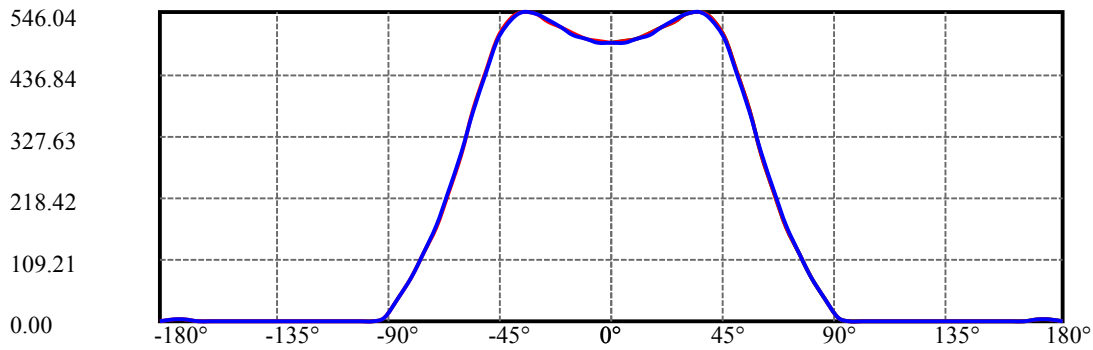
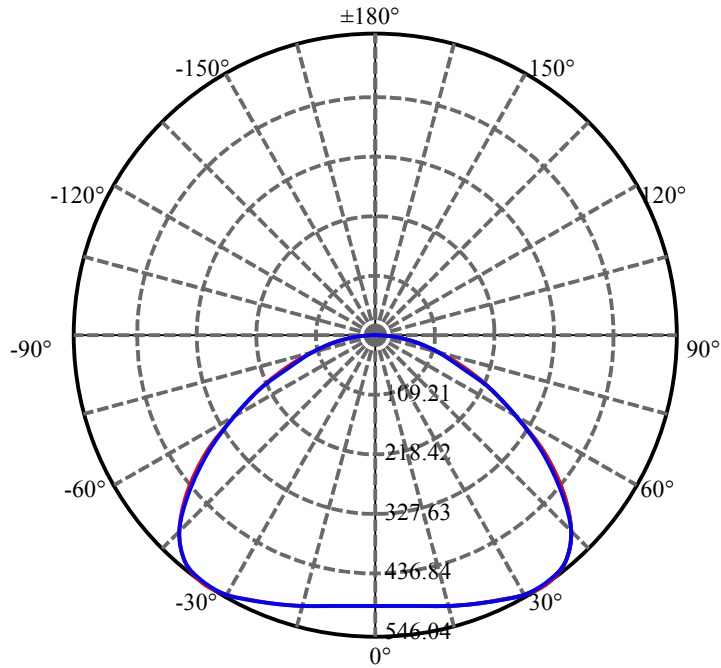
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	491.802	0.000	0	0.00%	0.00%
5.0	493.370	11.777	11.777	0.62%	0.62%
10.0	498.423	35.480	47.257	1.87%	2.49%
15.0	506.574	59.616	106.873	3.14%	5.63%
20.0	517.560	84.403	191.276	4.45%	10.08%
25.0	530.119	109.882	301.158	5.79%	15.87%
30.0	540.761	135.521	436.679	7.14%	23.02%
35.0	544.513	159.814	596.493	8.42%	31.44%
40.0	533.684	179.889	776.382	9.48%	40.92%
45.0	501.167	191.611	967.993	10.10%	51.02%
50.0	443.098	190.803	1158.795	10.06%	61.08%
55.0	372.066	177.244	1336.039	9.34%	70.42%
60.0	298.407	154.978	1491.017	8.17%	78.59%
65.0	226.702	127.655	1618.672	6.73%	85.32%
70.0	166.567	99.578	1718.25	5.25%	90.56%
75.0	118.779	74.585	1792.835	3.93%	94.49%
80.0	78.161	52.696	1845.531	2.78%	97.27%
85.0	38.962	31.825	1877.356	1.68%	98.95%
90.0	7.967	12.849	1890.205	0.68%	99.63%
95.0	0.588	2.342	1892.547	0.12%	99.75%
100.0	0.621	0.328	1892.875	0.02%	99.77%
105.0	0.681	0.348	1893.224	0.02%	99.79%
110.0	0.678	0.355	1893.579	0.02%	99.80%
115.0	0.667	0.340	1893.919	0.02%	99.82%
120.0	0.663	0.323	1894.243	0.02%	99.84%
125.0	0.704	0.316	1894.559	0.02%	99.86%
130.0	0.760	0.318	1894.877	0.02%	99.87%
135.0	0.730	0.301	1895.178	0.02%	99.89%
140.0	0.835	0.290	1895.467	0.02%	99.90%
145.0	0.924	0.293	1895.761	0.02%	99.92%
150.0	1.074	0.294	1896.055	0.02%	99.94%
155.0	1.276	0.297	1896.353	0.02%	99.95%
160.0	1.516	0.293	1896.645	0.02%	99.97%
165.0	1.662	0.262	1896.907	0.01%	99.98%
170.0	1.796	0.205	1897.112	0.01%	99.99%
175.0	1.957	0.134	1897.247	0.01%	100.00%
180.0	1.025	0.036	1897.282	0.00%	100.00%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	436.68	23.02%	23.02%
0-40	776.38	40.92%	40.92%
0-60	1491.02	78.59%	78.59%
0-90	1890.20	99.63%	99.63%
0-120	1894.24	99.84%	99.84%
0-180	1897.28	100.00%	100.00%
60-90	399.19	21.04%	21.04%
90-120	4.04	0.21%	0.21%
90-130	4.67	0.25%	0.25%
90-150	5.85	0.31%	0.31%
90-180	7.04	0.37%	0.37%
0-61.05	1517.83	80.00%	80.00%

## ZONAL LUMEN SUMMARY

0-10	47.26
10-20	144.02
20-30	245.40
30-40	339.70
40-50	382.41
50-60	332.22
60-70	227.23
70-80	127.28
80-90	44.67
90-100	2.67
100-110	0.70
110-120	0.66
120-130	0.63
130-140	0.59
140-150	0.59
150-160	0.59
160-170	0.47
170-180	0.13



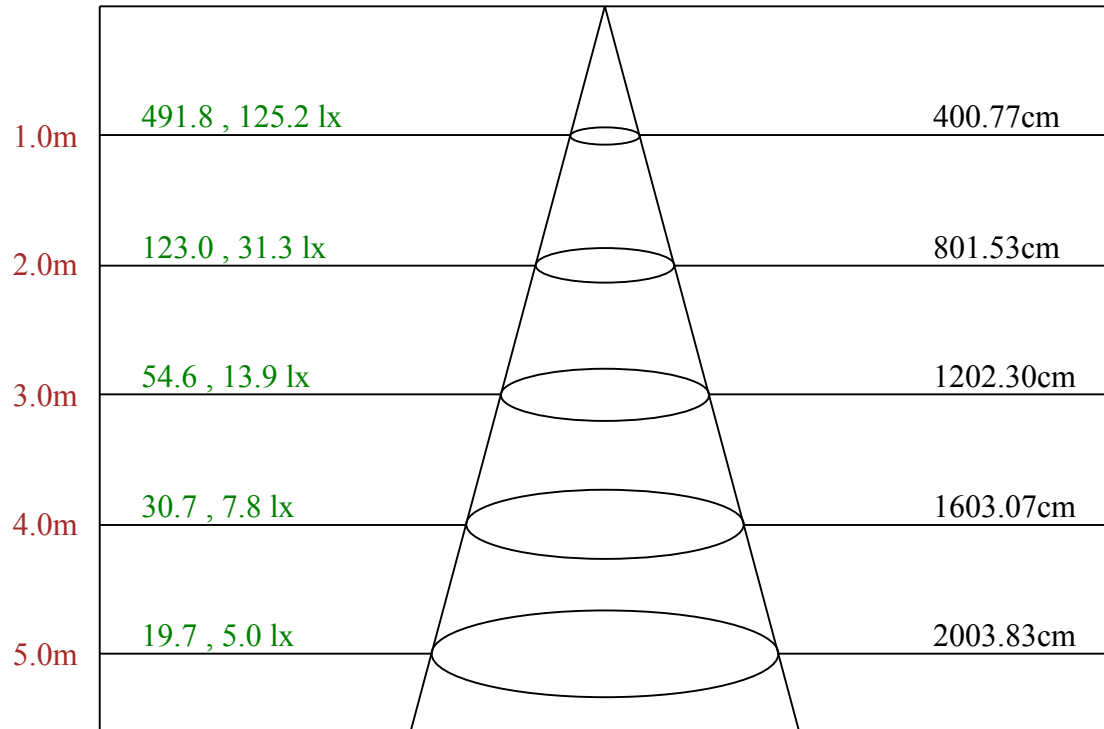
C0(Max): ———

C0/C180: ———

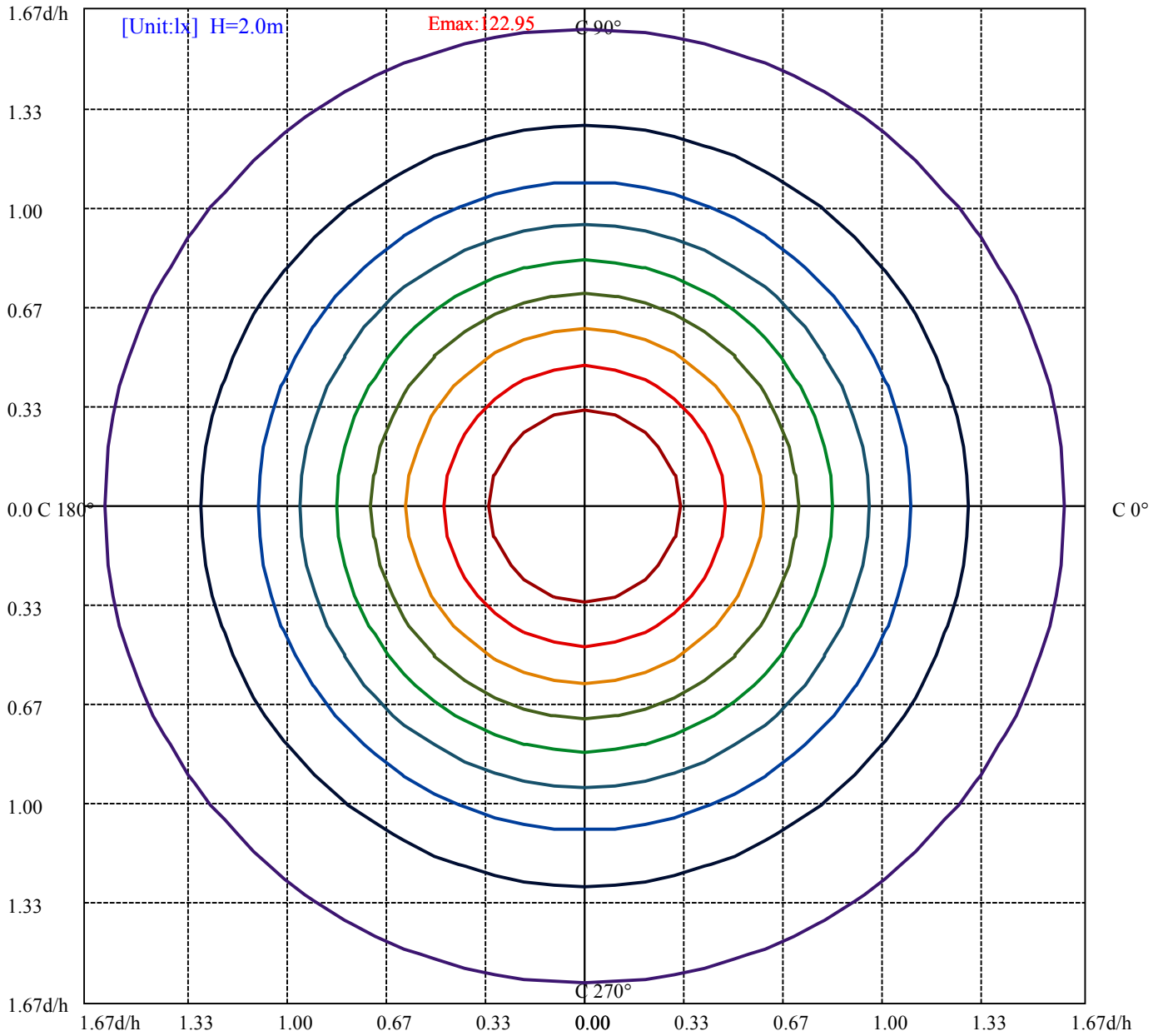
C90/C270: ———

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

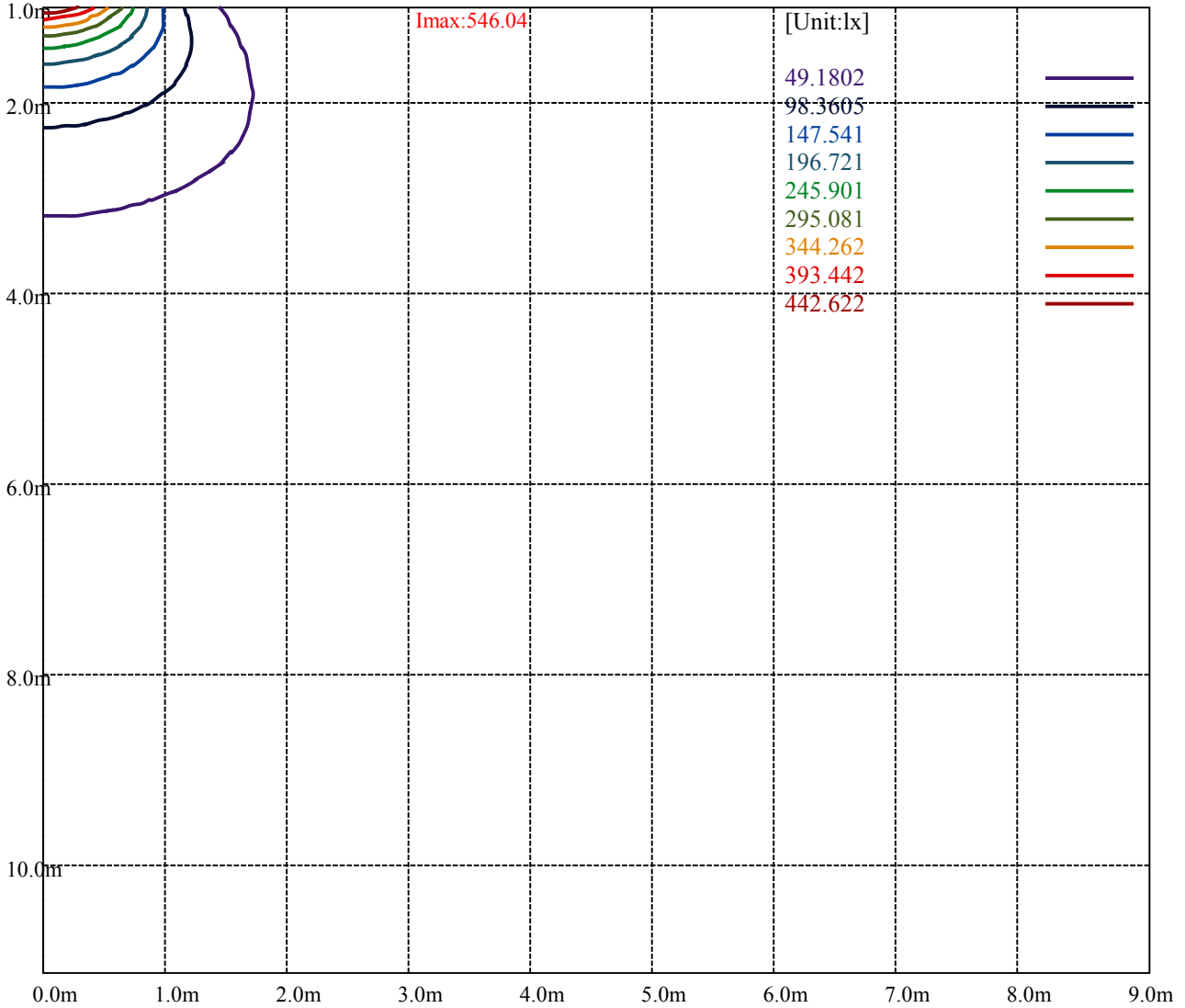
Beam Angle(50%Imax):C0/180Left:96.6 Right:26.6  
:C90/270Left:96.8 Right:26.8



Max , Ave      Beam angle of C0 plane 126.96



(10%Emax) 12.29505	—
(20%Emax) 24.59012	—
(30%Emax) 36.88525	—
(40%Emax) 49.18025	—
(50%Emax) 61.47525	—
(60%Emax) 73.77025	—
(70%Emax) 86.0655	—
(80%Emax) 98.3605	—
(90%Emax) 110.6555	—



Luminance Table

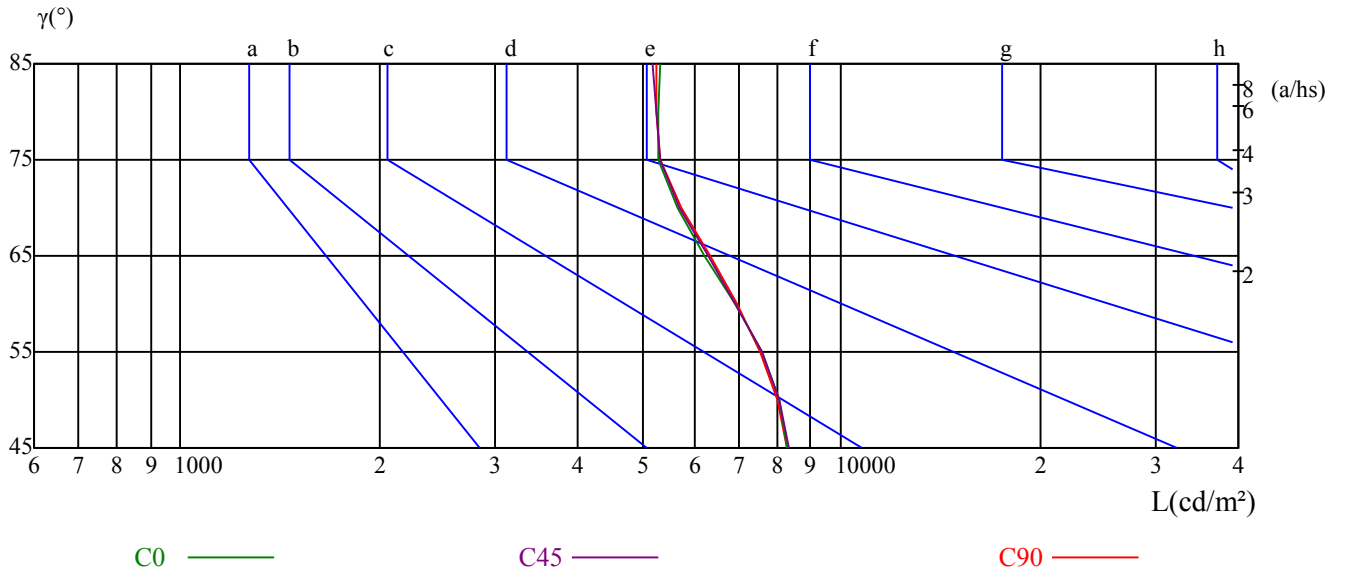
$\gamma$	45	50	55	60	65	70	75	80	85
C0	8302	8091	7591	6927	6235	5647	5304	5276	5333
C45	8367	8063	7578	6933	6277	5690	5320	5270	5191
C90	8261	8027	7569	6962	6325	5745	5340	5251	5261

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6235	6325	6277	5304	5340	5320	5333	5261	5191

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	0.87	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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Appendix Page: 10 Total:12

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	491.80	492.51	496.13	502.85	512.12	524.05	537.21	545.34	541.89
15.0	491.80	491.80	494.30	500.89	509.88	521.72	533.57	541.04	538.46
30.0	491.80	490.55	493.41	498.68	507.62	518.52	530.14	536.31	532.82
45.0	491.80	490.55	493.06	498.08	506.51	517.09	527.41	533.05	528.57
60.0	491.80	490.18	492.25	497.19	504.65	514.90	524.33	530.17	525.68
75.0	491.80	490.63	492.16	496.76	504.14	513.87	522.97	528.37	523.96
90.0	491.80	490.00	491.26	496.04	503.60	513.15	522.42	527.92	523.86
105.0	491.80	490.09	491.44	496.31	503.07	512.81	522.01	528.05	524.99
120.0	491.80	489.82	491.62	495.77	503.17	512.73	523.28	529.23	526.89
135.0	491.80	490.54	492.25	496.95	504.63	514.56	525.22	531.90	530.09
150.0	491.80	490.27	492.98	497.68	505.99	516.29	526.78	535.27	533.92
165.0	491.80	490.81	493.70	499.13	506.99	518.84	530.95	538.82	537.65
180.0	491.80	495.16	501.17	511.24	522.81	536.24	545.25	546.75	529.26
195.0	491.80	495.72	502.22	511.93	524.13	537.48	547.81	549.24	531.78
210.0	491.80	495.47	502.79	512.98	525.85	539.53	550.16	552.04	534.52
225.0	491.80	495.57	503.64	514.22	527.94	542.20	553.59	554.40	537.99
240.0	491.80	496.21	504.20	515.79	530.35	545.27	557.31	558.21	540.06
255.0	491.80	497.03	505.13	517.47	532.07	548.01	560.08	561.52	543.14
270.0	491.80	496.76	505.85	517.56	532.87	548.72	561.15	561.96	543.86
285.0	491.80	496.49	505.51	517.86	532.92	548.70	560.96	561.60	541.58
300.0	491.80	496.67	505.33	517.33	532.39	547.81	558.99	558.36	539.33
315.0	491.80	496.14	504.54	516.09	530.72	545.53	556.82	555.92	536.77
330.0	491.80	495.69	503.64	514.85	529.67	543.22	549.37	553.35	533.01
345.0	491.80	496.23	503.56	514.14	527.34	541.62	550.49	549.49	528.33
360.0	491.80	492.51	496.13	502.85	512.12	524.05	537.21	545.34	541.89
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	519.45	471.04	403.55	326.60	253.37	187.90	136.49	94.44	59.10
15.0	514.87	465.89	398.75	324.48	250.22	185.84	135.08	93.50	57.97
30.0	510.48	461.33	393.14	318.34	247.64	185.44	135.04	93.30	57.91
45.0	505.52	456.29	391.45	317.56	248.23	184.38	134.16	92.46	57.13
60.0	501.15	451.90	387.83	317.83	246.84	183.49	133.35	91.75	56.25
75.0	501.17	452.62	388.67	316.34	246.08	184.92	134.39	92.33	56.84
90.0	501.80	453.35	389.41	317.45	248.56	185.16	134.37	92.22	56.56
105.0	502.26	454.11	389.28	319.03	248.25	185.03	134.00	91.62	56.00
120.0	507.04	459.60	395.30	320.98	249.64	187.23	135.37	92.53	57.00
135.0	510.77	464.08	399.06	323.74	252.94	187.47	135.46	93.83	57.07
150.0	514.58	468.40	403.60	329.86	254.67	187.97	135.65	92.90	57.30
165.0	519.29	474.89	409.52	333.11	257.07	191.78	138.25	94.94	59.14
180.0	484.73	418.57	341.27	265.82	197.36	142.50	98.33	62.28	20.41
195.0	489.22	424.48	347.01	268.92	201.51	143.99	100.00	63.40	19.95
210.0	490.01	425.13	350.33	272.49	203.32	147.19	101.88	64.53	20.82
225.0	493.15	428.04	349.84	274.96	205.81	149.59	102.41	64.30	20.36
240.0	496.12	430.61	352.25	275.33	206.68	150.16	103.52	64.97	21.12
255.0	497.66	430.73	354.80	277.79	208.70	151.32	103.76	65.12	21.62
270.0	497.39	429.21	353.20	278.01	208.66	150.94	102.03	63.76	21.88
285.0	496.85	430.94	352.94	275.39	206.04	150.05	122.73	63.93	21.37
300.0	492.25	426.14	351.11	308.63	204.55	147.37	99.66	62.50	20.20
315.0	514.74	424.71	346.68	269.65	200.57	144.31	99.06	62.49	20.23
330.0	486.38	420.23	343.77	266.60	199.54	142.61	98.78	61.36	20.15
345.0	481.13	412.05	336.82	262.86	194.59	140.97	96.93	61.40	18.72
360.0	519.45	471.04	403.55	326.60	253.37	187.90	136.49	94.44	59.10

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Appendix Page: 11 Total:12

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	15.99	0.27	0.27	0.35	0.27	0.27	0.35	0.53	0.71
15.0	16.47	0.36	0.36	0.36	0.27	0.27	0.27	0.53	0.80
30.0	15.46	0.36	0.36	0.36	0.36	0.27	0.36	0.63	0.80
45.0	14.44	0.36	0.36	0.45	0.36	0.27	0.36	0.63	0.81
60.0	15.01	0.36	0.45	0.45	0.36	0.36	0.36	0.63	0.81
75.0	14.23	0.36	0.36	0.54	0.45	0.36	0.36	0.54	0.81
90.0	13.60	0.36	0.36	0.45	0.45	0.36	0.45	0.63	0.81
105.0	14.52	0.27	0.36	0.36	0.45	0.45	0.45	0.63	0.81
120.0	14.52	0.27	0.27	0.36	0.27	0.36	0.45	0.63	0.81
135.0	14.63	0.27	0.36	0.36	0.27	0.36	0.45	0.63	0.81
150.0	16.09	0.27	0.36	0.27	0.36	0.45	0.45	0.63	0.81
165.0	16.46	0.27	0.36	0.27	0.36	0.45	0.36	0.54	0.81
180.0	0.88	0.88	0.88	0.97	0.97	0.88	0.80	0.71	0.71
195.0	0.80	0.89	0.89	0.98	0.89	0.89	0.80	0.71	0.80
210.0	0.80	0.80	0.89	1.07	0.98	0.80	0.80	0.80	0.63
225.0	0.81	0.81	0.90	0.99	0.99	0.99	0.81	0.72	0.72
240.0	0.81	0.90	0.90	0.99	0.99	1.08	1.08	0.72	0.72
255.0	0.72	0.90	0.90	0.99	1.08	0.99	1.08	0.81	0.72
270.0	0.90	0.81	0.90	0.90	1.08	0.99	0.99	0.90	0.72
285.0	0.81	0.90	0.99	0.99	1.08	0.99	0.99	0.99	0.72
300.0	0.81	0.90	0.90	0.99	1.08	0.99	0.99	0.90	0.72
315.0	0.81	0.90	0.90	1.08	0.99	1.08	0.99	0.90	0.72
330.0	0.81	0.81	0.81	0.81	0.99	1.08	0.99	0.81	0.72
345.0	0.81	0.81	0.81	0.99	0.90	0.99	0.90	0.72	0.72
360.0	15.99	0.27	0.27	0.35	0.27	0.27	0.35	0.53	0.71

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.80	0.88	1.06	1.24	1.50	1.68	1.94	1.94	2.03
15.0	0.80	0.98	1.16	1.25	1.42	1.69	1.87	2.05	1.96
30.0	0.80	0.98	1.16	1.25	1.43	1.79	1.88	1.97	1.97
45.0	0.81	0.99	1.08	1.26	1.43	1.79	1.88	1.97	1.97
60.0	0.81	0.99	1.08	1.26	1.44	1.71	1.89	1.98	1.98
75.0	0.90	0.99	1.08	1.26	1.53	1.71	1.89	1.98	1.98
90.0	0.81	0.99	1.17	1.35	1.44	1.71	1.89	2.07	1.98
105.0	0.81	0.90	1.17	1.26	1.44	1.71	1.89	2.07	2.07
120.0	0.81	0.90	1.08	1.26	1.53	1.71	1.89	1.98	1.98
135.0	0.81	0.90	1.08	1.35	1.44	1.63	1.99	1.90	1.99
150.0	0.81	0.90	0.99	1.27	1.45	1.81	1.90	1.99	1.99
165.0	0.81	0.99	1.09	1.18	1.63	1.72	1.90	1.90	1.99
180.0	0.71	0.80	0.71	0.88	1.06	1.33	1.41	1.59	1.94
195.0	0.62	0.71	0.80	0.89	1.07	1.34	1.42	1.69	1.96
210.0	0.63	0.71	0.80	0.80	0.98	1.34	1.43	1.61	1.88
225.0	0.63	0.72	0.72	0.90	1.08	1.35	1.43	1.61	1.88
240.0	0.63	0.63	0.72	0.90	1.08	1.26	1.44	1.62	1.98
255.0	0.63	0.72	0.72	0.90	1.08	1.35	1.44	1.62	1.89
270.0	0.72	0.72	0.72	0.90	0.99	1.35	1.44	1.53	1.89
285.0	0.63	0.72	0.81	0.90	1.08	1.35	1.35	1.62	1.98
300.0	0.63	0.72	0.81	0.90	1.17	1.35	1.44	1.62	1.89
315.0	0.63	0.72	0.72	0.90	1.08	1.26	1.44	1.63	1.90
330.0	0.63	0.72	0.72	0.81	1.17	1.17	1.45	1.54	1.99
345.0	0.63	0.72	0.72	0.90	1.09	1.27	1.36	1.63	1.90
360.0	0.80	0.88	1.06	1.24	1.50	1.68	1.94	1.94	2.03

Intensity data(cd)

C/γ(°)	180.0
0.0	2.03
15.0	2.14
30.0	1.97
45.0	2.06
60.0	2.07
75.0	2.07
90.0	2.07
105.0	2.07
120.0	1.98
135.0	1.99
150.0	2.08
165.0	2.08
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	2.03