
乐达凯

Client:

LumCAT: ALDF19LAJUDWH 2700K

Luminaire: LED LAMP

Report No:

Ballast type:

Test No:

Voltage(V): 119.940

LampCAT:

Current(A): 0.350

Lamp flux(lm): 2963.2

Power (W): 41.590

Number of Lamps: 1

PF: 0.991

Length(mm): -490

Width(mm): -490

Phm Type: C

Height(mm): 80

Photometric Results

Lumens(lm): 2963.15, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 71.25

Central intensity(cd): 761.135, Maximum intensity(cd): 761.135

Angle of maximum intensity: C=90.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=123.0

[C90/270]Total=125.0

Field angle(10%Imax): [C0/180]Total=231.0

[C90/270]Total=229.2

Maximum s/h(1/2): C0_180=1.31 C90_270=1.31

Maximum s/h(1/4): C0_180=1.44 C90_270=1.44

Up flux rate of lamp(%): 14.14%

Down flux rate of lamp(%): 85.86%

Up flux rate of LUM(%): 14.14%

Down flux rate of LUM(%): 85.86%

CIE Type : Semidirect lighting

Output flux ratio in π solid angle : 61.936%

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Zonal flux distribution table

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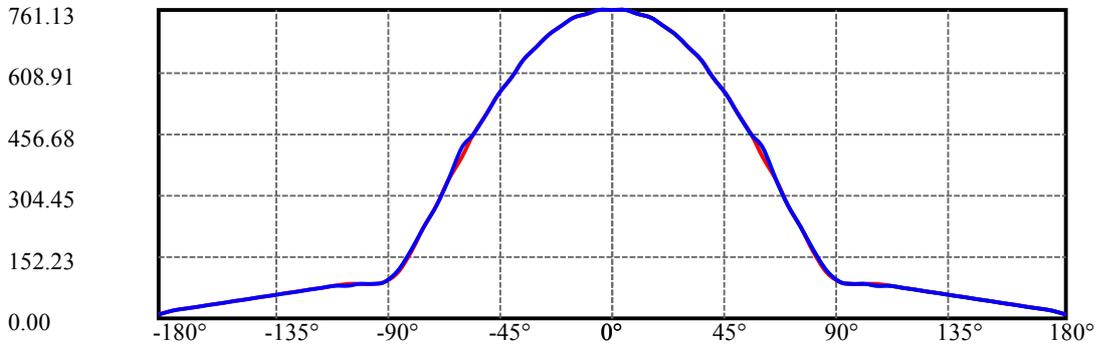
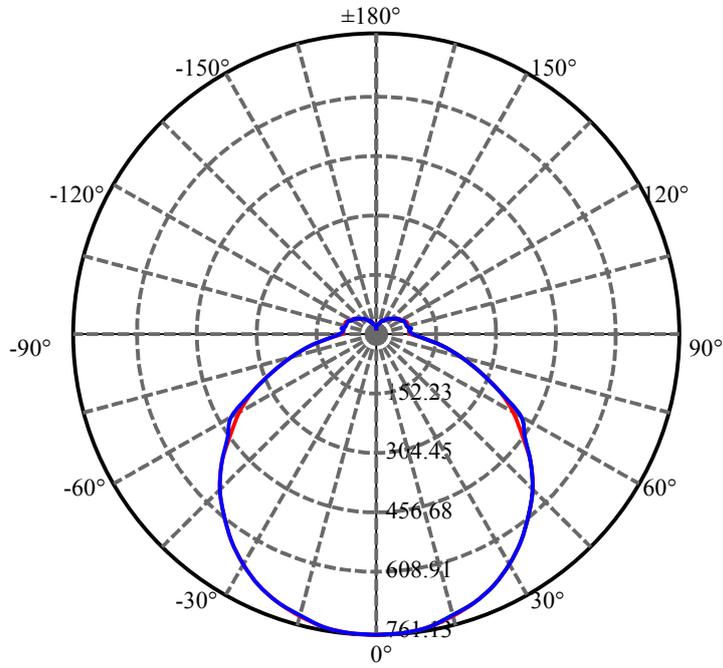
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	761.135	0.000	0	0.00%	0.00%
5.0	758.991	18.173	18.173	0.61%	0.61%
10.0	752.336	54.065	72.238	1.82%	2.44%
15.0	740.022	88.526	160.763	2.99%	5.43%
20.0	722.029	120.494	281.257	4.07%	9.49%
25.0	698.600	148.998	430.254	5.03%	14.52%
30.0	670.129	173.214	603.468	5.85%	20.37%
35.0	636.451	192.403	795.871	6.49%	26.86%
40.0	598.778	206.089	1001.96	6.96%	33.81%
45.0	553.999	213.446	1215.406	7.20%	41.02%
50.0	505.465	214.080	1429.486	7.22%	48.24%
55.0	453.567	208.525	1638.012	7.04%	55.28%
60.0	399.755	197.243	1835.255	6.66%	61.94%
65.0	340.575	179.976	2015.23	6.07%	68.01%
70.0	280.927	157.368	2172.599	5.31%	73.32%
75.0	222.957	131.707	2304.306	4.44%	77.77%
80.0	168.819	104.828	2409.134	3.54%	81.30%
85.0	118.126	77.970	2487.104	2.63%	83.93%
90.0	89.901	56.959	2544.063	1.92%	85.86%
95.0	84.548	47.766	2591.829	1.61%	87.47%
100.0	85.715	46.264	2638.093	1.56%	89.03%
105.0	82.762	45.080	2683.173	1.52%	90.55%
110.0	79.752	42.478	2725.651	1.43%	91.98%
115.0	76.383	39.534	2765.186	1.33%	93.32%
120.0	72.652	36.231	2801.416	1.22%	94.54%
125.0	67.947	32.499	2833.915	1.10%	95.64%
130.0	62.885	28.447	2862.362	0.96%	96.60%
135.0	57.477	24.321	2886.683	0.82%	97.42%
140.0	52.244	20.316	2906.999	0.69%	98.10%
145.0	46.712	16.510	2923.509	0.56%	98.66%
150.0	41.453	12.983	2936.492	0.44%	99.10%
155.0	36.372	9.849	2946.341	0.33%	99.43%
160.0	31.696	7.139	2953.48	0.24%	99.67%
165.0	26.649	4.808	2958.289	0.16%	99.84%
170.0	22.673	2.926	2961.214	0.10%	99.93%
175.0	21.073	1.565	2962.779	0.05%	99.99%
180.0	10.170	0.374	2963.153	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	603.47	20.37%	20.37%
0-40	1001.96	33.81%	33.81%
0-60	1835.25	61.94%	61.94%
0-90	2544.06	85.86%	85.86%
0-120	2801.42	94.54%	94.54%
0-180	2963.15	100.00%	100.00%
60-90	708.81	23.92%	23.92%
90-120	257.35	8.69%	8.69%
90-130	318.30	10.74%	10.74%
90-150	392.43	13.24%	13.24%
90-180	418.72	14.13%	14.13%
0-78.16	2370.52	80.00%	80.00%

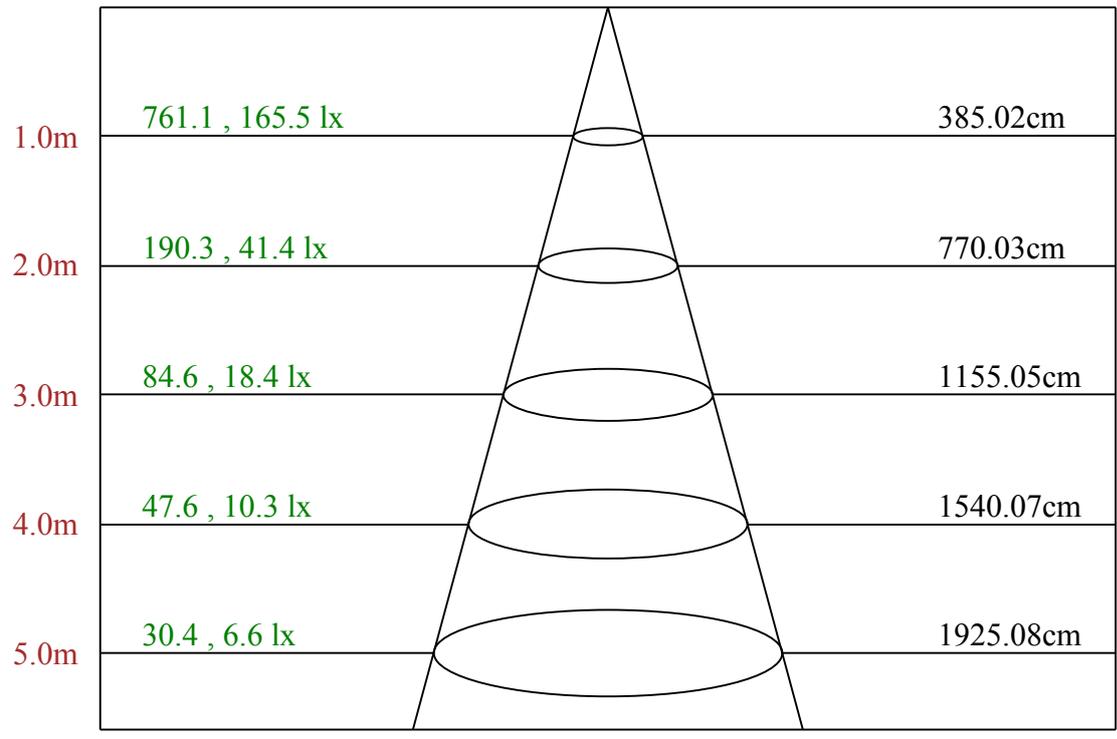
ZONAL LUMEN SUMMARY

0-10	72.24
10-20	209.02
20-30	322.21
30-40	398.49
40-50	427.53
50-60	405.77
60-70	337.34
70-80	236.54
80-90	134.93
90-100	94.03
100-110	87.56
110-120	75.76
120-130	60.95
130-140	44.64
140-150	29.49
150-160	16.99
160-170	7.73
170-180	1.56

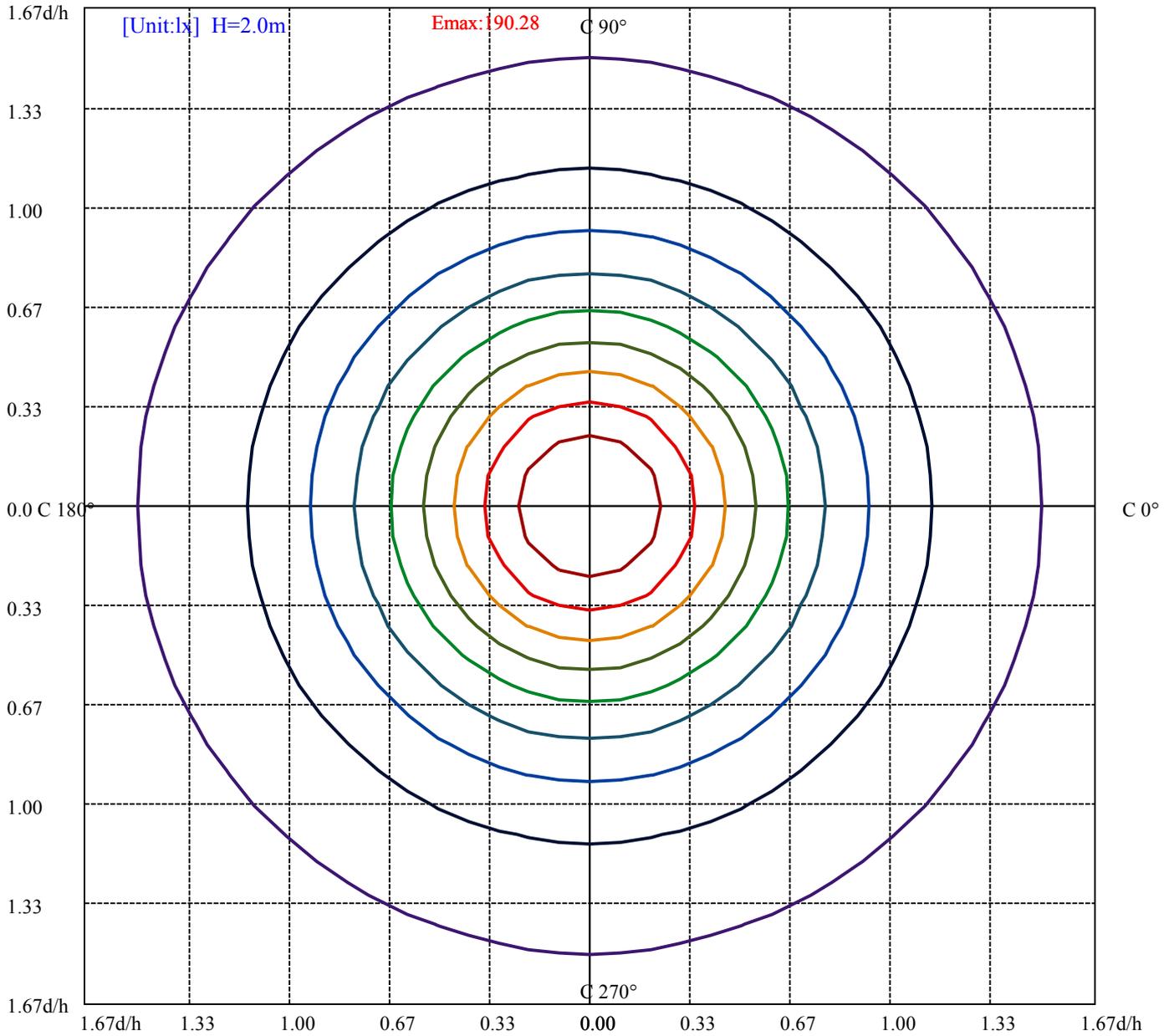


C90(Max): ——
 C0/C180: ——
 C90/C270: ——

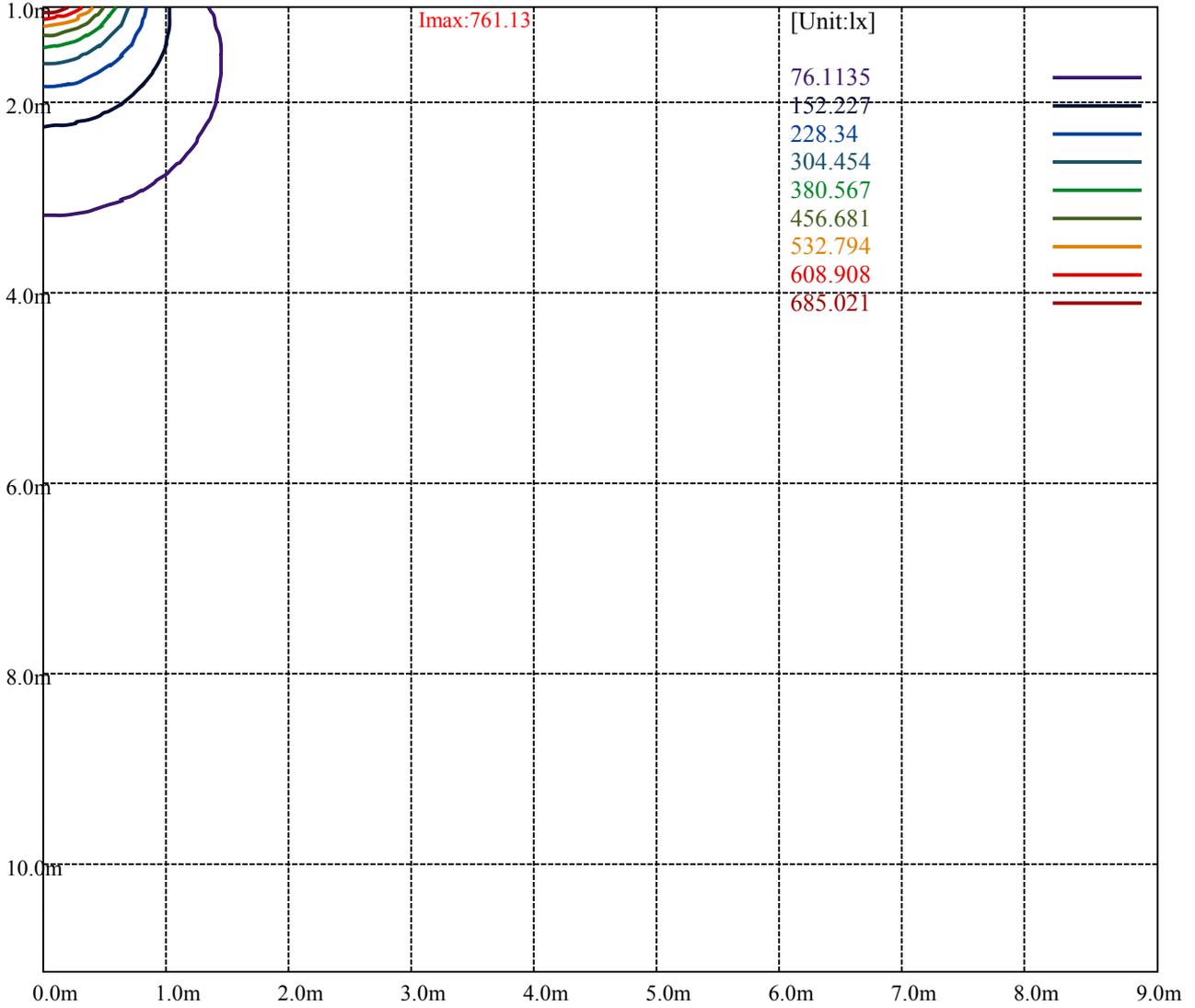
Field angle(10%Imax):C0/180Left:115.5 Right:115.5
 :C90/270Left:114.6 Right:114.6
 Beam Angle(50%Imax):C0/180Left:61.5 Right:61.5
 :C90/270Left:62.5 Right:62.5



Max , Ave Beam angle of C90 plane 125.10



(10%Emax) 19.02838	—
(20%Emax) 38.05675	—
(30%Emax) 57.085	—
(40%Emax) 76.1135	—
(50%Emax) 95.14175	—
(60%Emax) 114.1702	—
(70%Emax) 133.1985	—
(80%Emax) 152.227	—
(90%Emax) 171.2552	—



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Luminance Limiting Curve(no luminous side)

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Luminance Table

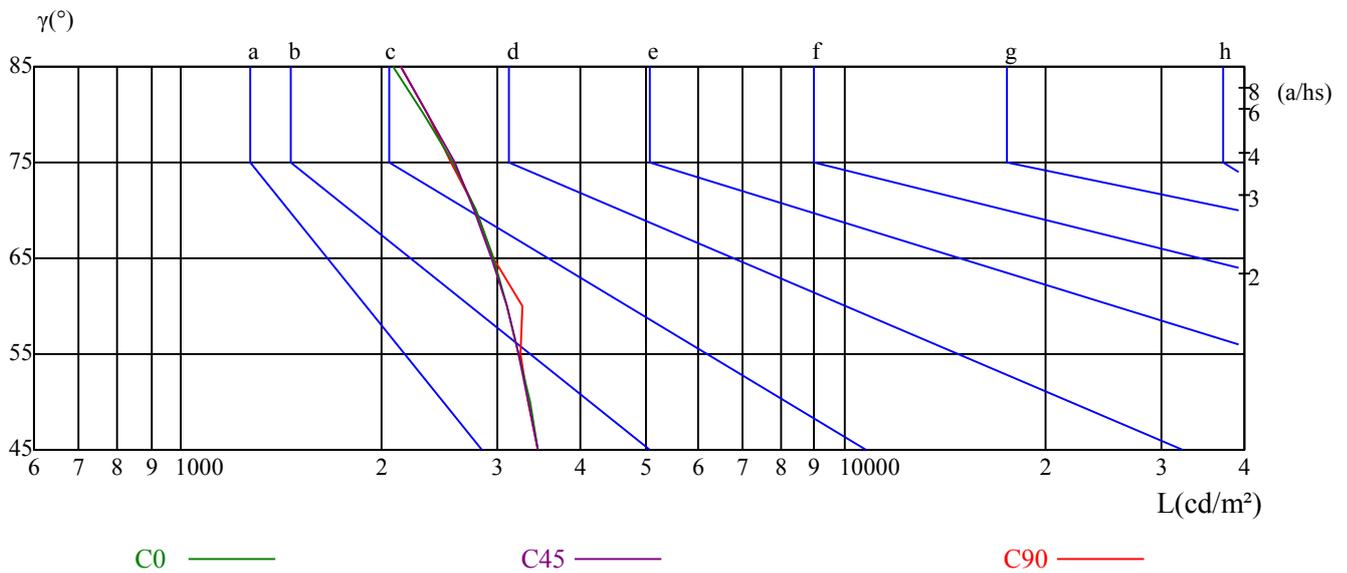
γ	45	50	55	60	65	70	75	80	85
C0	3437	3348	3225	3102	2956	2773	2562	2324	2082
C45	3436	3344	3231	3105	2945	2771	2581	2350	2140
C90	3435	3337	3236	3277	2954	2775	2553	2358	2147

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4274	4271	4257	4550	4533	4583	7028	7247	7225

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	1.16	1.16	1.16	1.11	1.11	1.11	1.03	1.03	1.03	0.96	0.96	0.96	0.89	0.89	0.89	0.86
1	0.99	0.94	0.89	0.95	0.91	0.87	0.88	0.85	0.81	0.82	0.79	0.76	0.76	0.74	0.72	0.69
2	0.85	0.78	0.72	0.82	0.75	0.70	0.76	0.71	0.66	0.71	0.66	0.62	0.66	0.62	0.59	0.56
3	0.74	0.66	0.59	0.71	0.64	0.57	0.66	0.60	0.54	0.62	0.56	0.52	0.57	0.53	0.49	0.46
4	0.65	0.56	0.49	0.63	0.55	0.48	0.59	0.52	0.46	0.55	0.49	0.44	0.51	0.46	0.42	0.39
5	0.58	0.49	0.42	0.56	0.48	0.41	0.52	0.45	0.39	0.49	0.43	0.38	0.46	0.40	0.36	0.33
6	0.52	0.43	0.36	0.50	0.42	0.36	0.47	0.40	0.34	0.44	0.38	0.33	0.41	0.36	0.31	0.29
7	0.47	0.38	0.32	0.46	0.37	0.31	0.43	0.35	0.30	0.40	0.34	0.29	0.38	0.32	0.28	0.26
8	0.43	0.34	0.28	0.41	0.33	0.28	0.39	0.32	0.27	0.37	0.30	0.26	0.34	0.29	0.25	0.23
9	0.39	0.31	0.25	0.38	0.30	0.25	0.36	0.29	0.24	0.34	0.28	0.23	0.32	0.26	0.22	0.20
10	0.36	0.28	0.23	0.35	0.27	0.22	0.33	0.26	0.22	0.31	0.25	0.21	0.29	0.24	0.20	0.18

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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	761.13	760.59	756.62	747.15	732.00	711.61	687.44	656.23	619.43
15.0	761.13	761.13	757.78	747.99	733.95	713.38	687.82	656.65	620.13
30.0	761.13	761.50	758.04	748.96	733.78	715.15	687.61	658.44	622.36
45.0	761.13	761.04	758.13	749.31	734.66	714.47	689.00	658.25	624.41
60.0	761.13	761.68	758.58	749.84	735.63	716.05	691.01	660.31	624.43
75.0	761.13	761.96	759.95	751.73	737.58	717.59	692.49	661.91	627.77
90.0	761.13	761.96	758.85	750.46	736.76	717.51	692.77	662.29	626.69
105.0	761.13	761.77	759.13	750.81	736.38	716.38	693.64	661.04	627.70
120.0	761.13	761.68	758.21	749.99	735.65	716.11	691.36	663.05	624.78
135.0	761.13	760.50	757.21	748.45	733.39	713.04	688.04	659.30	623.25
150.0	761.13	761.50	757.76	748.53	717.75	712.63	686.97	655.73	621.48
165.0	761.13	761.41	756.57	746.89	731.19	710.09	685.99	652.02	613.22
180.0	761.13	757.08	747.42	732.99	710.26	685.82	654.15	617.35	575.68
195.0	761.13	757.15	747.18	731.50	710.39	683.56	651.39	616.77	575.00
210.0	761.13	756.50	746.14	730.60	710.06	683.07	651.08	613.91	571.92
225.0	761.13	756.68	746.13	729.75	707.83	680.81	648.24	612.22	568.10
240.0	761.13	756.22	745.29	728.71	707.49	679.53	647.65	610.13	567.23
255.0	761.13	756.30	745.62	729.28	707.37	679.71	647.03	611.79	566.24
270.0	761.13	756.21	745.53	729.28	707.01	679.44	648.05	610.35	567.82
285.0	761.13	755.84	746.43	729.99	708.16	681.04	648.62	611.08	601.67
300.0	761.13	756.48	746.52	730.91	726.43	682.50	650.63	613.36	571.35
315.0	761.13	756.30	746.63	731.11	709.85	684.03	650.81	615.59	573.98
330.0	761.13	756.84	747.89	732.55	711.99	685.69	654.27	617.64	576.26
345.0	761.13	757.48	748.44	733.74	713.11	687.18	657.04	619.43	579.80
360.0	761.13	760.59	756.62	747.15	732.00	711.61	687.44	656.23	619.43
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	577.75	531.30	480.51	426.21	371.37	311.92	252.48	194.48	140.99
15.0	580.89	531.95	483.83	429.64	372.28	312.74	255.46	197.19	143.00
30.0	581.28	535.11	484.67	433.32	376.07	316.45	256.29	197.58	142.96
45.0	580.93	537.62	487.59	433.47	376.16	316.66	259.72	200.59	145.37
60.0	583.53	537.63	490.45	433.53	379.34	319.86	259.75	200.55	144.90
75.0	586.87	541.14	490.93	437.07	383.21	320.32	263.17	203.47	147.43
90.0	585.71	540.07	489.87	438.85	381.71	322.11	261.77	205.18	145.95
105.0	586.88	541.21	491.08	437.10	383.12	320.20	263.03	203.30	146.95
120.0	586.70	538.11	490.89	436.83	379.47	319.93	259.56	202.66	146.31
135.0	581.92	536.02	485.37	434.54	374.04	317.65	257.33	198.02	141.99
150.0	577.36	533.70	480.17	428.66	371.11	311.38	251.18	191.81	139.38
165.0	574.50	527.66	479.45	421.75	367.33	307.43	247.17	188.46	133.76
180.0	529.49	481.41	424.14	369.38	309.94	250.04	191.68	137.20	90.02
195.0	528.60	477.94	423.11	365.30	305.58	245.59	187.68	136.20	87.72
210.0	525.21	474.04	418.87	360.89	303.73	241.29	186.40	133.05	87.79
225.0	522.80	471.49	416.55	358.42	299.01	239.70	182.48	129.81	87.88
240.0	520.05	468.59	416.50	355.29	299.01	239.53	182.61	130.06	87.16
255.0	521.88	467.29	414.98	356.92	297.50	238.44	181.47	169.24	88.82
270.0	520.81	469.42	417.85	401.70	299.11	240.23	180.72	131.25	92.28
285.0	522.86	471.80	417.19	359.56	303.85	245.04	188.14	135.81	94.53
300.0	524.96	476.10	419.47	364.58	305.95	247.41	190.51	138.18	98.54
315.0	528.08	477.61	423.41	366.38	307.89	249.12	195.19	142.35	99.74
330.0	532.88	479.90	428.57	371.75	312.84	253.92	196.65	140.94	100.02
345.0	534.05	484.02	430.15	372.99	314.19	255.29	200.51	144.27	101.53
360.0	577.75	531.30	480.51	426.21	371.37	311.92	252.48	194.48	140.99

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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	95.80	84.52	90.38	87.14	85.87	80.01	75.86	71.53	66.48
15.0	96.51	83.83	88.90	87.27	83.83	79.84	75.76	71.23	66.34
30.0	97.70	82.43	87.25	86.52	82.07	79.25	76.07	71.61	66.43
45.0	96.97	81.69	86.51	85.78	81.14	78.78	75.69	71.68	66.68
60.0	98.36	81.06	85.89	82.06	79.69	77.23	74.59	71.04	66.76
75.0	97.58	80.88	85.26	81.34	79.14	76.77	74.03	70.56	66.73
90.0	98.39	80.60	84.52	81.51	78.95	76.49	73.57	70.19	65.99
105.0	96.63	80.73	83.20	81.74	79.27	76.53	73.61	70.14	65.48
120.0	96.17	81.19	83.02	81.92	79.09	76.08	72.97	69.23	64.48
135.0	94.90	80.94	82.58	81.58	78.93	76.01	72.91	68.99	64.24
150.0	90.70	80.38	81.66	80.74	78.64	75.63	72.34	68.41	63.66
165.0	86.47	79.62	80.72	79.62	77.61	74.96	72.04	67.75	63.37
180.0	80.82	82.36	80.55	78.48	76.04	73.06	69.37	64.77	59.71
195.0	80.47	82.47	80.47	78.03	75.58	72.77	69.24	64.70	59.72
210.0	81.16	84.25	80.88	78.43	75.98	72.98	68.89	63.89	59.07
225.0	81.24	84.33	82.05	79.05	76.23	73.14	71.87	63.13	57.67
240.0	82.15	84.98	85.52	79.51	76.41	72.86	68.03	63.03	57.56
255.0	83.62	86.26	86.63	81.15	78.05	74.03	69.10	63.53	57.97
270.0	85.34	88.72	88.63	83.33	79.68	75.21	70.10	64.99	59.60
285.0	86.67	89.78	89.41	85.03	81.74	77.36	72.15	66.67	60.92
300.0	88.32	91.60	91.60	86.03	82.56	78.63	74.16	68.31	62.83
315.0	88.33	92.35	91.43	85.78	82.40	79.02	74.55	68.80	63.15
330.0	87.41	92.16	90.88	87.41	82.75	78.92	73.89	68.87	62.48
345.0	85.92	92.04	89.21	86.83	82.36	77.61	72.86	67.66	61.91
360.0	95.80	84.52	90.38	87.14	85.87	80.01	75.86	71.53	66.48
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	60.98	55.66	50.51	45.01	39.78	34.91	29.86	25.26	21.92
15.0	60.44	55.37	50.11	44.50	39.24	34.71	29.18	24.38	21.93
30.0	61.07	55.44	50.89	45.62	40.53	35.35	29.35	24.45	22.18
45.0	61.49	56.40	51.12	45.85	40.94	36.02	29.84	24.93	22.01
60.0	61.84	56.92	51.55	46.45	41.26	36.07	30.97	25.50	21.59
75.0	61.98	57.24	52.12	46.83	41.35	36.24	31.22	26.02	21.82
90.0	61.43	56.68	51.66	46.37	41.26	36.05	31.40	26.65	22.27
105.0	60.09	55.62	50.78	46.21	41.46	36.44	31.05	26.76	23.29
120.0	59.55	54.89	50.14	45.21	40.37	35.44	30.14	25.66	23.20
135.0	59.13	54.11	49.37	44.17	39.42	34.77	29.38	25.09	23.09
150.0	58.91	54.26	49.51	44.57	39.73	35.35	29.14	24.94	22.93
165.0	58.25	53.87	49.03	44.38	39.54	34.97	28.94	24.74	22.10
180.0	54.30	48.80	43.21	38.07	33.10	28.87	24.90	21.20	19.03
195.0	54.28	48.66	43.14	37.70	32.62	31.54	24.38	20.03	19.48
210.0	53.62	51.89	42.08	37.26	32.17	27.90	22.90	19.63	19.63
225.0	52.67	47.03	41.75	36.75	32.02	27.29	22.56	19.38	19.47
240.0	51.91	46.36	41.17	36.16	31.33	25.96	22.04	19.40	19.40
255.0	52.49	46.46	40.53	35.24	30.49	25.74	22.00	19.54	19.72
270.0	53.85	47.92	42.26	37.15	31.95	26.56	22.27	19.44	19.81
285.0	55.25	48.86	43.47	37.90	32.42	27.58	23.65	20.00	19.73
300.0	56.53	50.23	44.02	38.08	32.33	27.95	23.93	19.82	19.45
315.0	56.94	50.92	44.07	38.33	32.67	28.20	23.73	19.44	20.26
330.0	56.63	50.42	44.30	38.55	33.34	28.59	23.20	20.46	20.73
345.0	55.79	49.85	44.28	38.53	33.60	28.21	23.56	21.46	20.73
360.0	60.98	55.66	50.51	45.01	39.78	34.91	29.86	25.26	21.92

Intensity data(cd)

C/γ(°)	180.0
0.0	18.85
15.0	20.12
30.0	20.18
45.0	20.29
60.0	20.40
75.0	20.45
90.0	19.99
105.0	20.18
120.0	21.01
135.0	21.08
150.0	20.92
165.0	20.64
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	18.85