
弗格斯莱

Client:

LumCAT: OBRP3240LAJUDLB-3000K

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 119.980

LampCAT:

Current(A): 0.531

Lamp flux(lm): 3045.0

Power (W): 63.530

Number of Lamps: 1

PF: 0.996

Length(mm): -1000

Width(mm): -1000

Phm Type: C

Height(mm): 35

Photometric Results

Lumens(lm): 3045.03, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 47.93

Central intensity(cd): 366.948, Maximum intensity(cd): 482.684

Angle of maximum intensity: C=105.0 γ =55.0

Beam Angle(50%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Field angle(10%Imax): [C0/180]Total=N.A.

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.38 C90_270=1.87

Maximum s/h(1/4): C0_180=1.53 C90_270=2.00

Up flux rate of lamp(%): 48.39%

Down flux rate of lamp(%): 51.61%

Up flux rate of LUM(%): 48.39%

Down flux rate of LUM(%): 51.61%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 32.098%

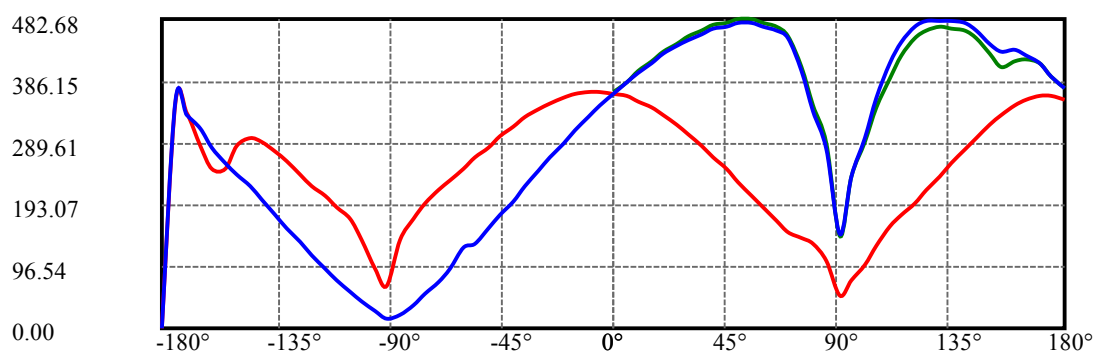
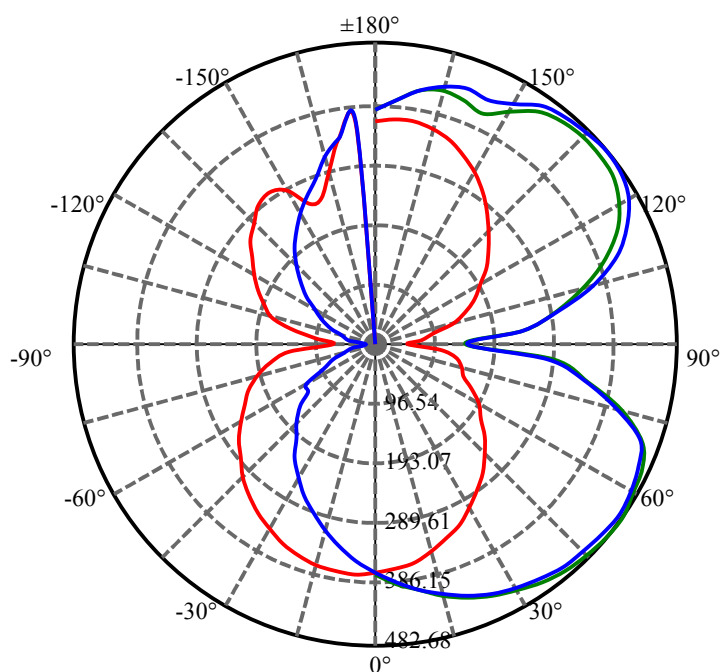
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	367.695	0.000	0	0.00%	0.00%
5.0	365.938	8.770	8.77	0.29%	0.29%
10.0	363.209	26.084	34.854	0.86%	1.14%
15.0	358.649	42.820	77.674	1.41%	2.55%
20.0	353.303	58.675	136.349	1.93%	4.48%
25.0	344.967	73.236	209.585	2.41%	6.88%
30.0	335.546	86.119	295.704	2.83%	9.71%
35.0	325.378	97.326	393.03	3.20%	12.91%
40.0	314.500	106.759	499.789	3.51%	16.41%
45.0	300.743	113.917	613.706	3.74%	20.15%
50.0	287.360	118.835	732.541	3.90%	24.06%
55.0	273.117	121.866	854.407	4.00%	28.06%
60.0	258.949	122.986	977.393	4.04%	32.10%
65.0	241.791	121.731	1099.123	4.00%	36.10%
70.0	224.146	117.978	1217.102	3.87%	39.97%
75.0	202.165	111.431	1328.532	3.66%	43.63%
80.0	173.941	100.636	1429.168	3.30%	46.93%
85.0	137.755	84.695	1513.863	2.78%	49.72%
90.0	72.447	57.555	1571.418	1.89%	51.61%
95.0	106.391	48.967	1620.386	1.61%	53.21%
100.0	138.540	66.554	1686.939	2.19%	55.40%
105.0	177.119	84.461	1771.401	2.77%	58.17%
110.0	206.277	100.214	1871.614	3.29%	61.46%
115.0	228.333	110.046	1981.66	3.61%	65.08%
120.0	246.837	115.515	2097.175	3.79%	68.87%
125.0	266.388	118.631	2215.806	3.90%	72.77%
130.0	283.136	119.485	2335.29	3.92%	76.69%
135.0	297.379	117.301	2452.592	3.85%	80.54%
140.0	310.350	112.526	2565.118	3.70%	84.24%
145.0	321.602	105.437	2670.554	3.46%	87.70%
150.0	322.014	94.777	2765.331	3.11%	90.81%
155.0	317.079	80.878	2846.209	2.66%	93.47%
160.0	325.976	67.445	2913.654	2.21%	95.69%
165.0	350.948	55.788	2969.442	1.83%	97.52%
170.0	366.910	42.583	3012.024	1.40%	98.92%
175.0	370.050	26.363	3038.388	0.87%	99.78%
180.0	185.455	6.641	3045.029	0.22%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	295.70	9.71%	9.71%
0-40	499.79	16.41%	16.41%
0-60	977.39	32.10%	32.10%
0-90	1571.42	51.61%	51.61%
0-120	2097.17	68.87%	68.87%
0-180	3045.03	100.00%	100.00%
60-90	594.03	19.51%	19.51%
90-120	525.76	17.27%	17.27%
90-130	763.87	25.09%	25.09%
90-150	1193.91	39.21%	39.21%
90-180	1466.97	48.18%	48.18%
0-134.29	2436.02	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	34.85
10-20	101.49
20-30	159.36
30-40	204.08
40-50	232.75
50-60	244.85
60-70	239.71
70-80	212.07
80-90	142.25
90-100	115.52
100-110	184.67
110-120	225.56
120-130	238.12
130-140	229.83
140-150	200.21
150-160	148.32
160-170	98.37
170-180	26.36



C105(Max): —————

C0/C180: —————

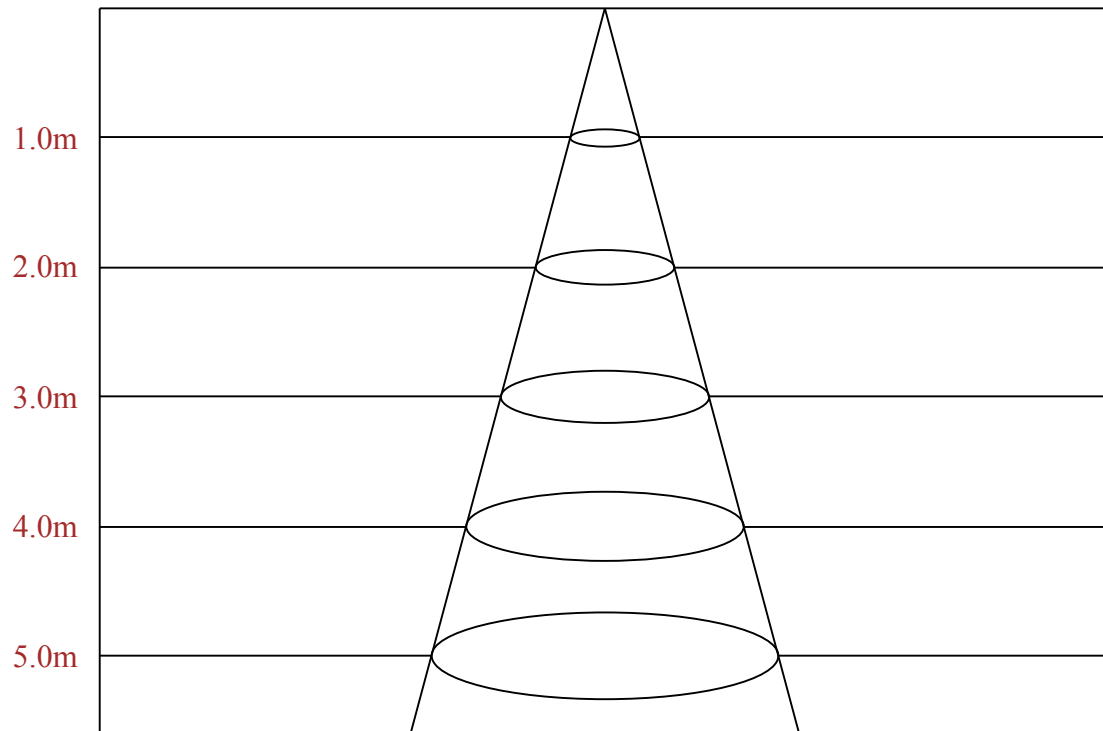
C90/C270: —————

Field angle(10%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:0.0 Right:0.0

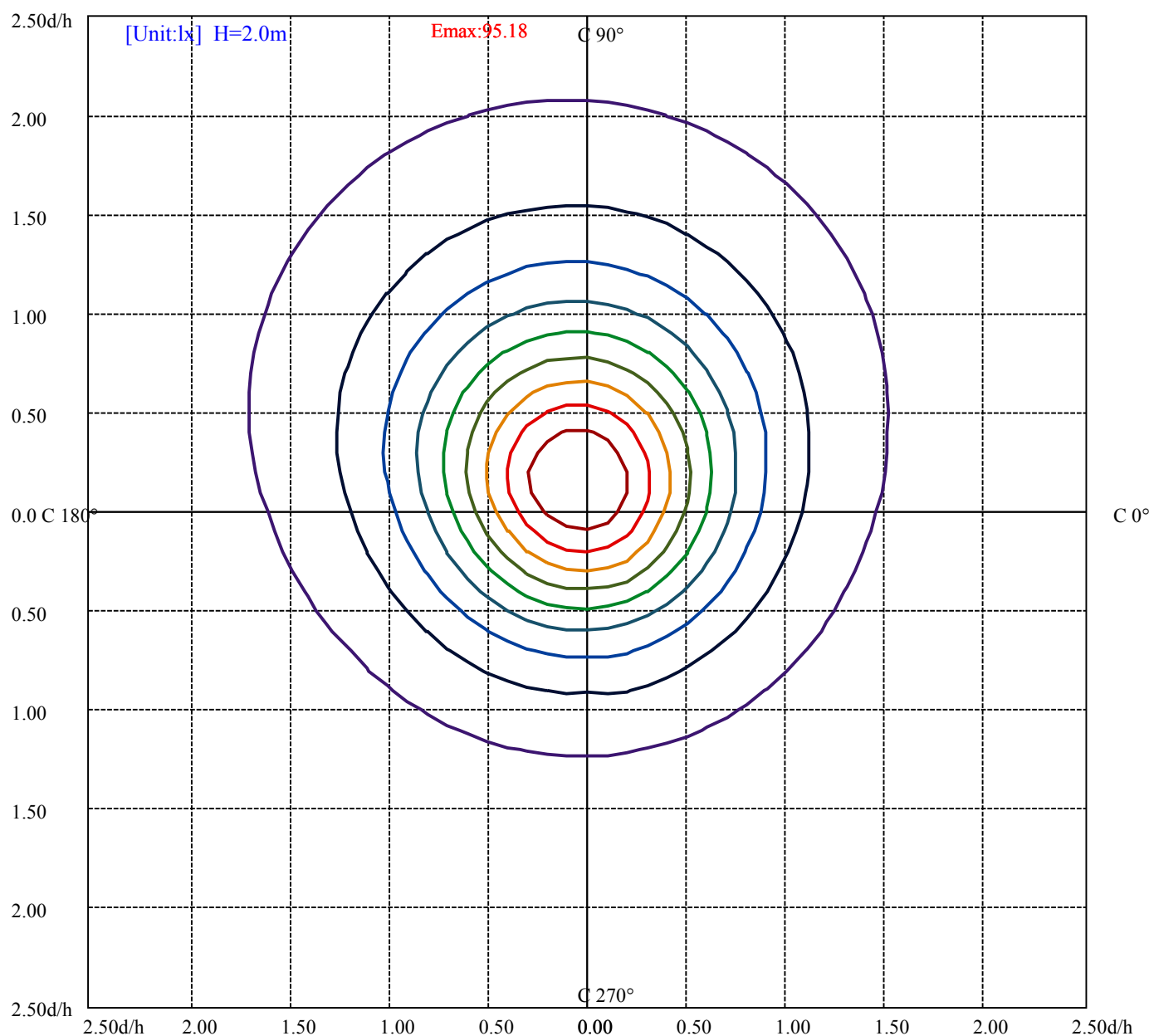
Beam Angle(50%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:0.0 Right:0.0

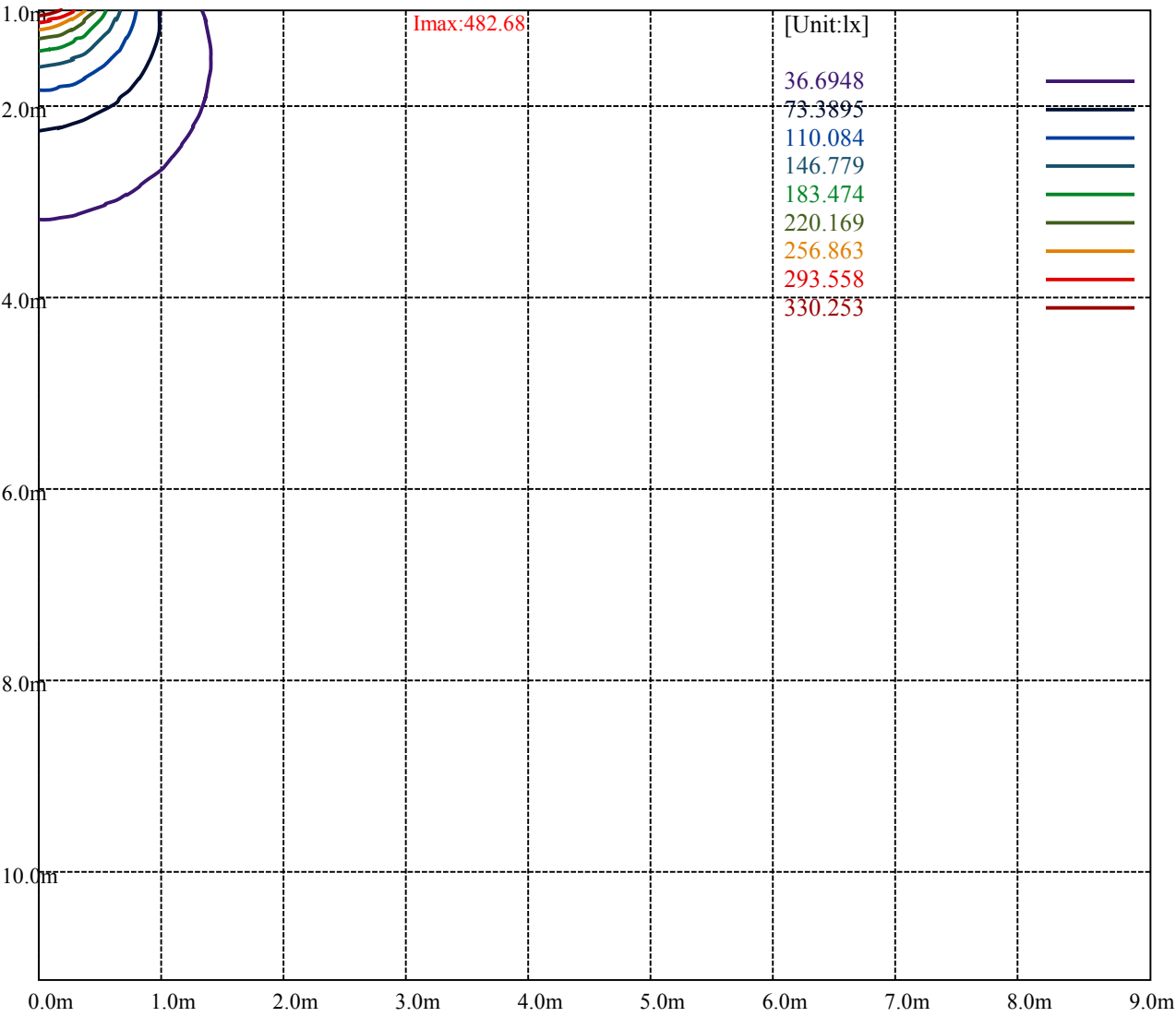


Max , Ave

Beam angle of C105 plane 225.52



(10%Emax) 9.51805	—
(20%Emax) 19.03613	—
(30%Emax) 28.55425	—
(40%Emax) 38.07225	—
(50%Emax) 47.59025	—
(60%Emax) 57.10825	—
(70%Emax) 66.6265	—
(80%Emax) 76.1445	—
(90%Emax) 85.6625	—



Luminance Table

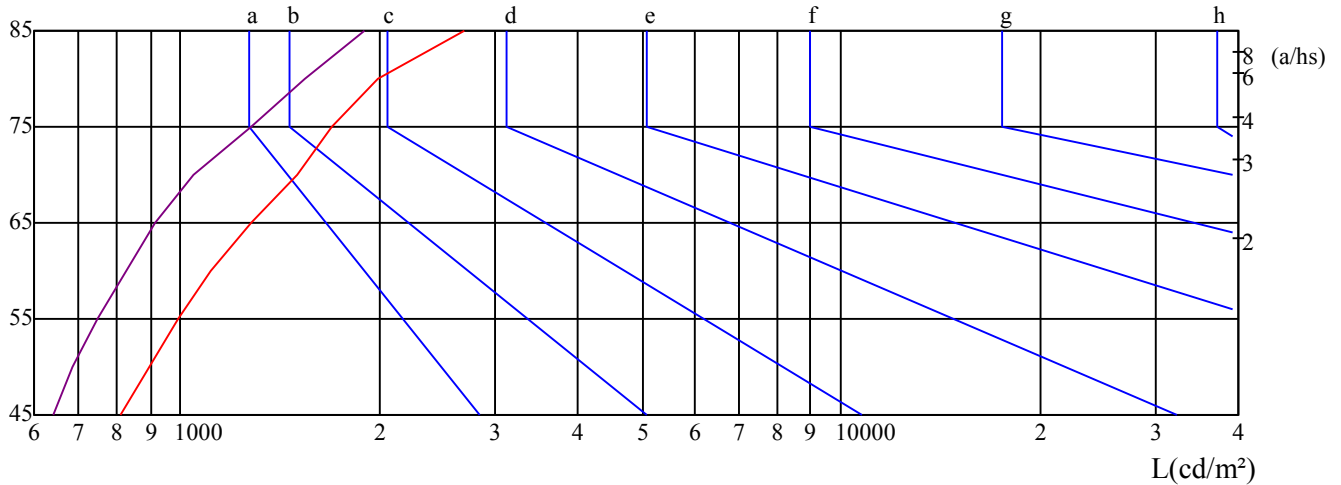
γ	45	50	55	60	65	70	75	80	85
C0	428	430	434	450	464	500	598	772	1016
C45	642	687	747	825	918	1044	1275	1539	1893
C90	812	894	992	1113	1280	1503	1695	1990	2692

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
601	839	735	828	1121	1009	1783	2189	2015

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

 $\gamma(^{\circ})$ 

C0 ———

C45 ———

C90 ———

RHOC	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	1.08	1.08	1.08	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.58	0.58	0.58	0.52
1	0.90	0.86	0.81	0.83	0.79	0.75	0.70	0.67	0.64	0.58	0.56	0.54	0.47	0.46	0.44	0.39
2	0.77	0.70	0.64	0.71	0.65	0.60	0.60	0.55	0.51	0.50	0.46	0.43	0.40	0.37	0.35	0.30
3	0.67	0.59	0.52	0.62	0.55	0.49	0.52	0.46	0.42	0.43	0.39	0.35	0.35	0.31	0.29	0.24
4	0.59	0.50	0.43	0.54	0.47	0.41	0.46	0.40	0.35	0.38	0.33	0.29	0.30	0.27	0.24	0.20
5	0.52	0.43	0.37	0.48	0.40	0.34	0.41	0.34	0.30	0.34	0.29	0.25	0.27	0.23	0.20	0.17
6	0.47	0.38	0.31	0.43	0.35	0.29	0.36	0.30	0.25	0.30	0.25	0.21	0.24	0.21	0.18	0.15
7	0.42	0.33	0.27	0.39	0.31	0.26	0.33	0.27	0.22	0.27	0.22	0.19	0.22	0.18	0.15	0.13
8	0.38	0.30	0.24	0.35	0.28	0.22	0.30	0.24	0.19	0.25	0.20	0.17	0.20	0.16	0.14	0.11
9	0.34	0.26	0.21	0.32	0.25	0.20	0.27	0.21	0.17	0.23	0.18	0.15	0.19	0.15	0.12	0.10
10	0.31	0.24	0.19	0.29	0.22	0.18	0.25	0.19	0.15	0.21	0.16	0.13	0.17	0.14	0.11	0.09

弗格斯莱 OBRP3240LAJUDLB-3000K

Intensity data(cd)

Appendix Page: 10 Total:12

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	366.95	361.56	354.39	344.52	331.96	318.50	302.35	286.20	267.36
15.0	365.15	365.15	361.56	357.08	349.00	339.13	327.47	314.01	299.66
30.0	365.15	368.74	370.54	370.54	366.95	362.46	356.18	348.11	338.24
45.0	364.26	372.33	378.61	383.10	385.79	386.69	385.79	383.10	379.51
60.0	364.26	376.82	387.58	396.55	403.73	410.01	413.60	416.29	418.09
75.0	364.26	379.51	393.86	406.42	418.09	428.85	436.93	443.21	447.69
90.0	366.05	383.10	399.25	413.60	427.96	440.52	450.39	459.36	466.53
105.0	367.84	384.89	401.04	416.29	431.54	444.11	455.77	464.74	472.82
120.0	368.74	384.89	401.04	415.40	427.96	439.62	448.59	457.56	463.84
135.0	380.41	383.99	397.45	408.22	418.98	427.06	433.34	438.72	441.41
150.0	369.64	382.20	391.17	398.35	407.32	407.32	408.22	408.22	405.53
165.0	369.64	377.71	383.10	385.79	385.79	383.10	378.61	372.33	363.36
180.0	366.95	369.64	368.74	366.05	360.67	351.70	340.93	329.27	314.91
195.0	365.15	363.36	358.87	350.80	340.03	327.47	312.22	296.07	277.23
210.0	365.15	357.98	349.00	336.44	322.09	305.94	288.00	269.15	248.52
225.0	364.26	353.49	340.93	325.68	308.63	291.58	270.05	249.42	228.78
240.0	364.26	350.80	335.55	317.60	298.76	279.02	258.39	236.86	214.43
255.0	364.26	349.00	331.06	311.32	291.58	270.95	248.52	226.99	205.45
270.0	366.05	348.11	328.37	308.63	287.10	267.36	244.93	222.50	198.28
285.0	367.84	349.00	329.27	308.63	288.00	265.57	243.14	222.50	216.22
300.0	368.74	349.90	331.06	311.32	306.84	269.15	247.62	225.19	203.66
315.0	380.41	353.49	335.55	316.71	296.97	276.33	254.80	233.27	211.74
330.0	369.64	357.08	340.93	324.78	305.94	286.20	265.57	244.93	224.30
345.0	369.64	359.77	348.11	333.75	317.60	300.56	281.72	261.08	240.44
360.0	366.95	361.56	354.39	344.52	331.96	318.50	302.35	286.20	267.36

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	248.52	228.78	208.15	190.20	168.67	150.73	141.75	131.89	104.97
15.0	283.51	266.46	249.42	231.47	214.43	197.38	192.00	180.33	133.68
30.0	326.57	313.12	302.35	288.00	272.74	254.80	249.42	221.60	159.70
45.0	372.33	365.15	357.98	349.00	333.75	314.91	302.35	262.87	195.59
60.0	414.50	414.50	410.01	405.53	387.58	374.12	349.90	297.86	234.16
75.0	449.49	451.28	450.39	448.59	434.24	421.68	385.79	327.47	261.08
90.0	471.02	475.51	475.51	471.02	465.64	453.08	401.94	340.03	278.13
105.0	477.30	481.79	482.68	477.30	471.92	455.77	407.32	346.31	287.10
120.0	466.53	471.02	469.23	466.53	460.25	441.41	397.45	339.13	281.72
135.0	441.41	439.62	435.13	427.96	418.98	399.25	364.26	314.01	261.98
150.0	401.04	392.97	385.79	376.82	364.26	343.62	315.81	276.33	233.27
165.0	353.49	340.93	328.37	314.91	299.66	279.92	258.39	230.58	191.10
180.0	299.66	282.61	265.57	249.42	230.58	214.43	194.69	172.26	139.06
195.0	258.39	237.75	218.91	200.07	181.23	163.29	147.14	131.89	106.76
210.0	226.99	205.45	183.92	164.18	144.45	125.61	110.35	96.90	80.75
225.0	206.35	184.82	161.49	140.86	120.22	101.38	85.23	70.88	55.63
240.0	192.00	169.57	147.14	125.61	104.97	86.13	67.29	52.04	36.78
255.0	183.03	160.60	138.17	116.63	96.00	76.26	57.42	53.83	26.92
270.0	176.74	155.21	132.78	127.40	91.51	72.67	53.83	36.78	21.53
285.0	176.74	155.21	133.68	111.25	92.41	73.57	54.73	37.68	24.22
300.0	180.33	159.70	138.17	116.63	96.90	78.05	60.11	42.17	29.61
315.0	189.31	166.88	145.34	125.61	103.18	86.13	68.19	51.14	38.58
330.0	202.76	179.44	158.80	135.47	114.84	97.79	81.64	67.29	52.04
345.0	219.81	198.28	175.85	154.32	134.58	117.53	104.97	93.31	71.77
360.0	248.52	228.78	208.15	190.20	168.67	150.73	141.75	131.89	104.97

弗格斯莱 OBRP3240LAJUDLB-3000K

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	52.04	74.47	97.79	129.19	157.90	176.74	195.59	216.22	236.86
15.0	72.67	108.56	129.19	165.08	200.97	223.40	242.24	261.08	279.92
30.0	96.00	142.65	166.88	211.74	251.21	278.13	296.97	314.01	331.06
45.0	113.94	165.08	205.45	259.29	307.73	336.44	355.28	369.64	382.20
60.0	129.19	188.41	237.75	306.84	357.08	387.58	406.42	419.88	427.96
75.0	139.96	213.53	271.85	342.72	393.86	426.16	444.11	454.87	459.36
90.0	147.14	237.75	297.86	360.67	413.60	445.90	469.23	479.10	480.89
105.0	144.45	237.75	291.58	344.52	389.38	426.16	451.28	464.74	469.23
120.0	145.34	204.56	263.77	327.47	364.26	394.76	417.19	435.13	444.11
135.0	133.68	174.05	220.71	287.10	331.06	348.11	368.74	389.38	405.53
150.0	117.53	155.21	185.72	248.52	287.10	300.56	317.60	338.24	355.28
165.0	104.07	123.81	148.04	209.04	233.27	252.11	265.57	285.30	304.14
180.0	66.39	94.20	137.27	170.46	188.41	206.35	222.50	240.44	260.18
195.0	47.55	64.60	104.97	129.19	142.65	159.70	177.64	197.38	218.91
210.0	32.30	44.86	78.95	95.10	106.76	130.09	145.34	169.57	190.20
225.0	22.43	35.89	59.21	73.57	91.51	110.35	112.15	152.52	174.05
240.0	18.84	33.20	37.68	65.49	84.34	99.59	120.22	141.75	163.29
255.0	17.05	31.40	44.86	61.01	78.05	96.00	115.74	138.17	157.01
270.0	14.35	27.81	42.17	57.42	76.26	94.20	114.84	134.58	156.11
285.0	15.25	28.71	42.17	60.11	77.16	96.00	115.74	136.37	157.90
300.0	17.05	31.40	48.45	65.49	83.44	102.28	121.12	142.65	163.29
315.0	21.53	35.89	57.42	76.26	94.20	112.15	131.89	153.42	174.95
330.0	29.61	44.86	68.19	91.51	108.56	127.40	146.24	167.77	190.20
345.0	40.37	54.73	87.03	113.04	131.89	149.83	170.46	191.10	212.63
360.0	52.04	74.47	97.79	129.19	157.90	176.74	195.59	216.22	236.86
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	258.39	279.02	297.86	316.71	332.85	346.31	356.18	361.56	361.56
15.0	297.86	315.81	332.85	346.31	359.77	367.84	373.23	373.23	370.54
30.0	345.42	358.87	370.54	379.51	385.79	390.27	390.27	385.79	377.71
45.0	391.17	401.04	407.32	410.01	411.81	410.01	405.53	396.55	383.10
60.0	433.34	436.93	436.93	433.34	430.65	426.16	417.19	405.53	389.38
75.0	461.15	460.25	454.87	444.11	436.93	434.24	425.26	410.91	391.17
90.0	478.20	475.51	465.64	443.21	430.65	435.13	426.16	413.60	392.97
105.0	467.43	463.84	453.97	428.85	407.32	415.40	419.88	412.70	392.97
120.0	444.11	443.21	438.72	403.73	372.33	383.99	407.32	407.32	391.17
135.0	410.01	412.70	410.91	373.23	332.85	336.44	376.82	397.45	386.69
150.0	366.05	372.33	373.23	343.62	293.38	279.92	341.83	384.89	381.30
165.0	316.71	329.27	333.75	314.01	268.26	236.86	299.66	366.05	372.33
180.0	275.43	289.79	296.97	283.51	248.52	247.62	286.20	334.65	351.70
195.0	236.86	253.90	267.36	262.87	234.16	230.58	290.69	341.83	356.18
210.0	209.94	216.22	245.83	246.73	228.78	247.62	307.73	340.03	355.28
225.0	194.69	214.43	232.37	239.55	233.27	258.39	313.12	336.44	355.28
240.0	183.92	204.56	223.40	237.75	244.93	268.26	311.32	334.65	355.28
255.0	179.44	200.07	221.60	240.44	253.90	274.54	311.32	334.65	355.28
270.0	177.64	200.07	221.60	240.44	259.29	282.61	313.12	333.75	354.39
285.0	178.54	200.97	223.40	244.03	264.67	290.69	314.91	336.44	355.28
300.0	184.82	208.15	230.58	251.21	273.64	297.86	320.29	340.03	357.98
315.0	196.48	218.91	242.24	264.67	286.20	306.84	327.47	344.52	361.56
330.0	213.53	235.96	257.49	280.82	300.56	320.29	337.34	352.59	364.26
345.0	235.96	256.59	279.02	299.66	319.40	335.55	349.90	360.67	367.84
360.0	258.39	279.02	297.86	316.71	332.85	346.31	356.18	361.56	361.56

Intensity data(cd)

C/γ(°)	180.0
0.0	356.18
15.0	365.15
30.0	367.84
45.0	370.54
60.0	372.33
75.0	373.23
90.0	374.12
105.0	375.92
120.0	375.02
135.0	375.02
150.0	374.12
165.0	371.43
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	356.18