
弗格斯莱

Client:

LumCAT: OBRP3240LAJUDBK-3000K

Luminaire: LED Lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.020

LampCAT:

Current(A): 0.531

Lamp flux(lm): 3006.8

Power (W): 63.500

Number of Lamps: 1

PF: 0.996

Length(mm): -1000

Width(mm): -1000

Phm Type: C

Height(mm): 35

Photometric Results

Lumens(lm): 3006.84, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 47.35

Central intensity(cd): 362.462, Maximum intensity(cd): 476.404

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%

弗格斯莱 OBRP3240LAJUDBK-3000K

Zonal flux distribution table

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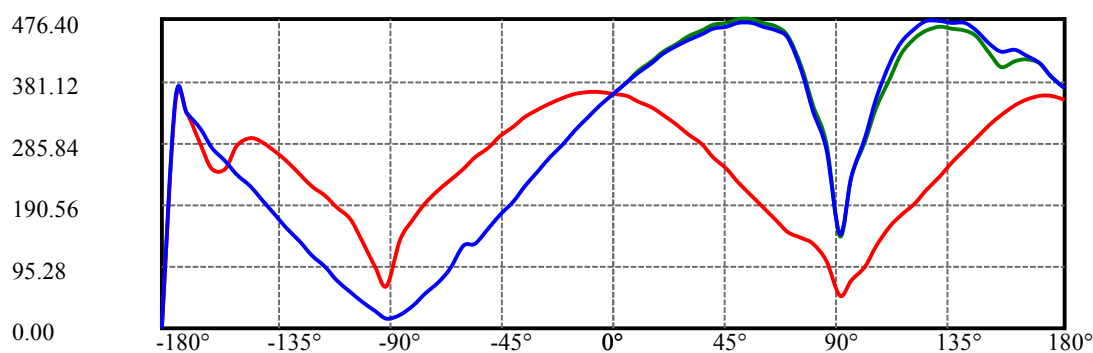
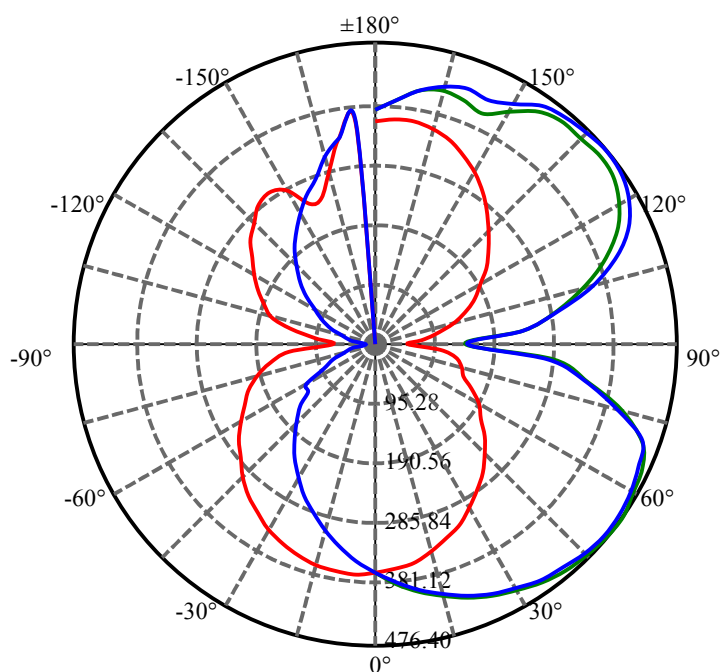
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	363.060	0.000	0	0.00%	0.00%
5.0	361.340	8.660	8.66	0.29%	0.29%
10.0	358.536	25.752	34.412	0.86%	1.14%
15.0	354.200	42.279	76.691	1.41%	2.55%
20.0	348.817	57.938	134.63	1.93%	4.48%
25.0	340.555	72.302	206.932	2.40%	6.88%
30.0	331.397	85.036	291.968	2.83%	9.71%
35.0	321.266	96.109	388.077	3.20%	12.91%
40.0	310.537	105.412	493.489	3.51%	16.41%
45.0	296.967	112.484	605.973	3.74%	20.15%
50.0	283.771	117.347	723.32	3.90%	24.06%
55.0	269.715	120.346	843.666	4.00%	28.06%
60.0	255.772	121.465	965.131	4.04%	32.10%
65.0	238.875	120.249	1085.381	4.00%	36.10%
70.0	221.305	116.520	1201.901	3.88%	39.97%
75.0	199.474	109.985	1311.886	3.66%	43.63%
80.0	171.773	99.335	1411.221	3.30%	46.93%
85.0	136.185	83.680	1494.901	2.78%	49.72%
90.0	71.476	56.859	1551.76	1.89%	51.61%
95.0	105.008	48.322	1600.082	1.61%	53.21%
100.0	136.858	65.721	1665.803	2.19%	55.40%
105.0	174.876	83.411	1749.214	2.77%	58.17%
110.0	203.698	98.953	1848.167	3.29%	61.47%
115.0	225.454	108.664	1956.831	3.61%	65.08%
120.0	243.735	114.061	2070.892	3.79%	68.87%
125.0	262.987	117.127	2188.019	3.90%	72.77%
130.0	279.622	117.981	2306	3.92%	76.69%
135.0	293.565	115.821	2421.821	3.85%	80.54%
140.0	306.462	111.100	2532.921	3.69%	84.24%
145.0	317.565	104.114	2637.035	3.46%	87.70%
150.0	318.014	93.593	2730.629	3.11%	90.81%
155.0	313.079	79.865	2810.494	2.66%	93.47%
160.0	321.976	66.606	2877.1	2.22%	95.69%
165.0	346.499	55.092	2932.191	1.83%	97.52%
170.0	362.387	42.051	2974.242	1.40%	98.92%
175.0	365.452	26.037	3000.279	0.87%	99.78%
180.0	183.025	6.557	3006.836	0.22%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	291.97	9.71%	9.71%
0-40	493.49	16.41%	16.41%
0-60	965.13	32.10%	32.10%
0-90	1551.76	51.61%	51.61%
0-120	2070.89	68.87%	68.87%
0-180	3006.84	100.00%	100.00%
60-90	586.63	19.51%	19.51%
90-120	519.13	17.27%	17.27%
90-130	754.24	25.08%	25.08%
90-150	1178.87	39.21%	39.21%
90-180	1448.52	48.17%	48.17%
0-134.29	2405.47	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	34.41
10-20	100.22
20-30	157.34
30-40	201.52
40-50	229.83
50-60	241.81
60-70	236.77
70-80	209.32
80-90	140.54
90-100	114.04
100-110	182.36
110-120	222.72
120-130	235.11
130-140	226.92
140-150	197.71
150-160	146.47
160-170	97.14
170-180	26.04



C105(Max): ———

C0/C180: ———

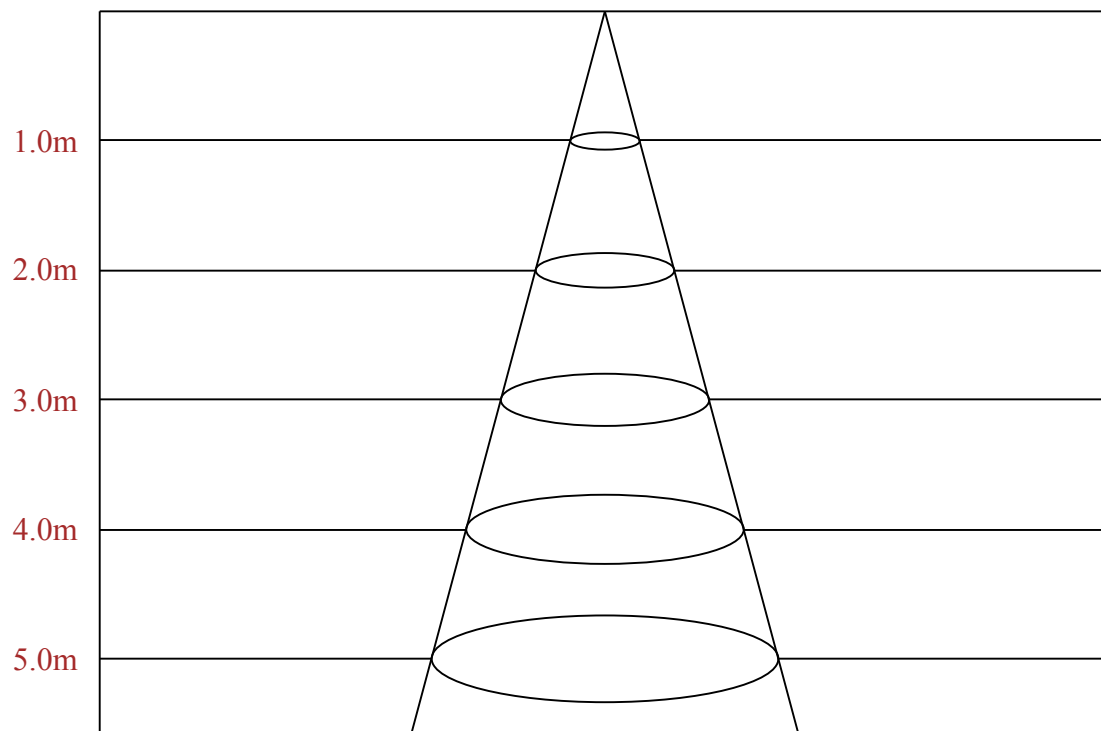
C90/C270: ———

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

:C90/270Left:0.0 Right:0.0

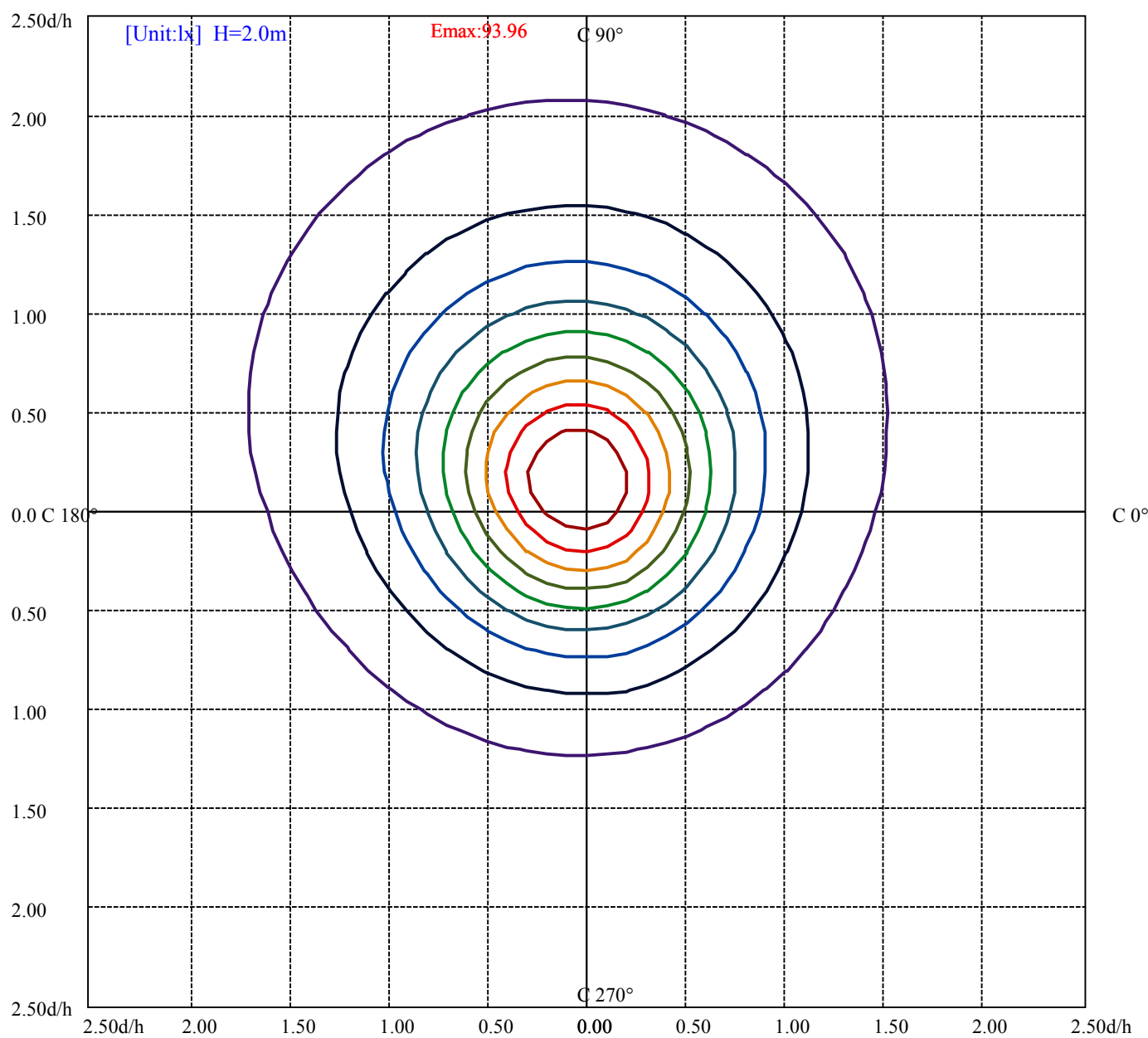
Beam Angle(50%Imax):C0/180Left:0.0 Right:0.0

:C90/270Left:0.0 Right:0.0

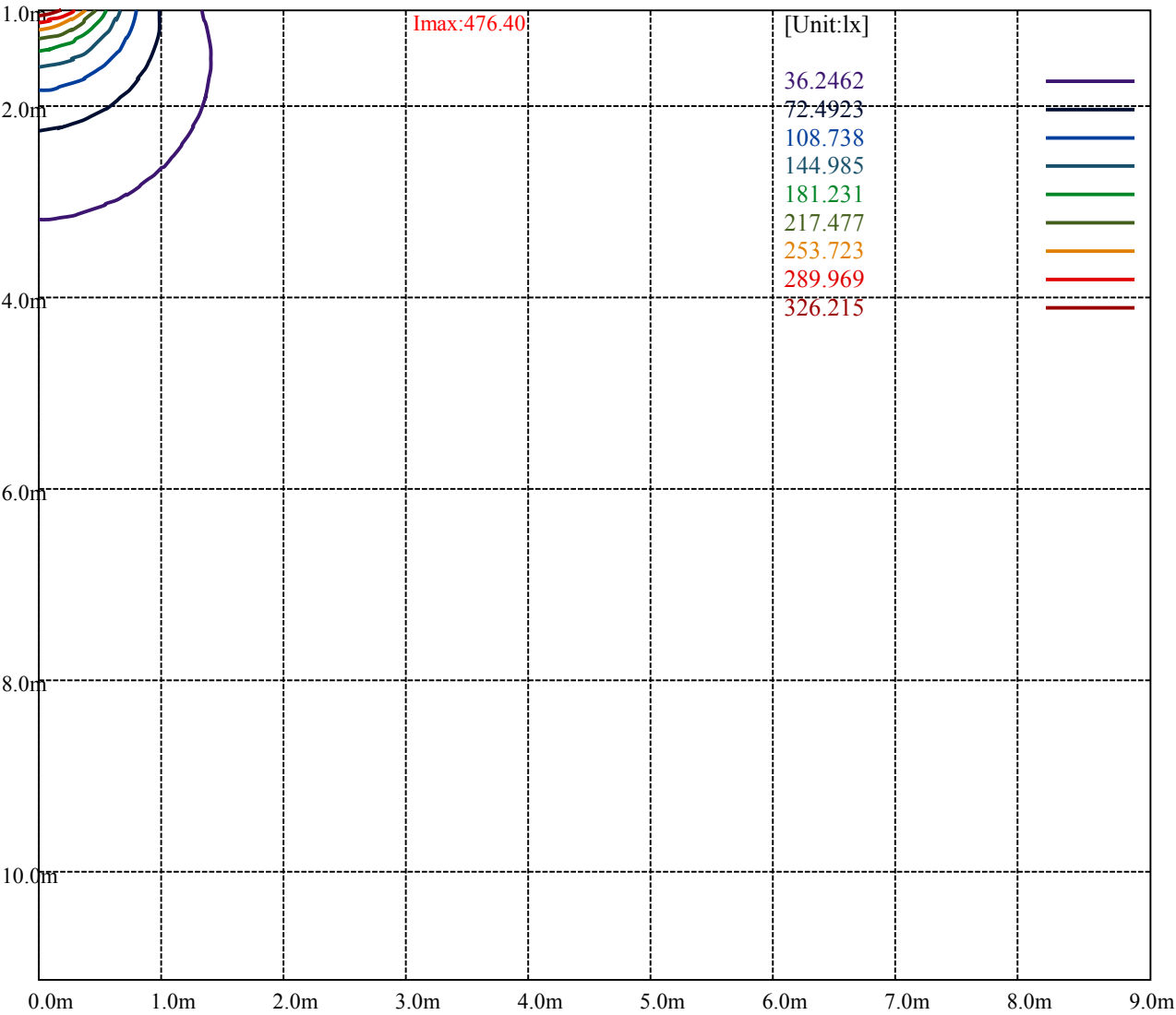


Max , Ave

Beam angle of C105 plane 225.60



(10%Emax) 9.3959	—
(20%Emax) 18.79182	—
(30%Emax) 28.18775	—
(40%Emax) 37.58375	—
(50%Emax) 46.9795	—
(60%Emax) 56.3755	—
(70%Emax) 65.7715	—
(80%Emax) 75.16725	—
(90%Emax) 84.56325	—



Luminance Table

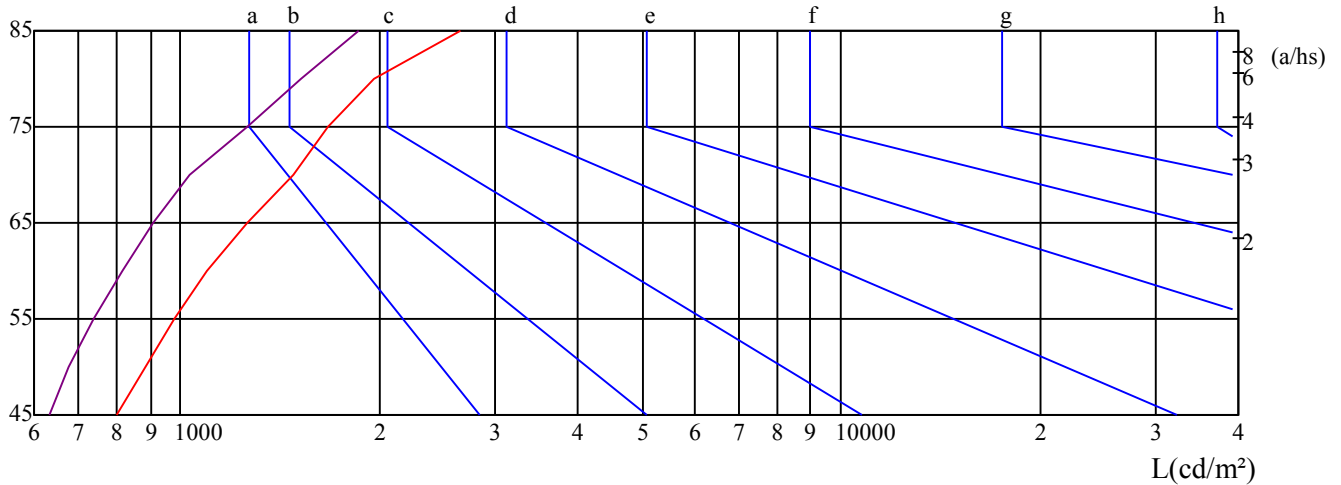
γ	45	50	55	60	65	70	75	80	85
C0	422	424	429	443	456	494	590	761	1007
C45	634	678	738	814	908	1033	1260	1523	1867
C90	803	884	981	1099	1263	1485	1673	1964	2657

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
593	828	728	817	1106	995	1763	2163	1996

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	0.46	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

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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	362.46	357.08	349.90	340.03	327.47	314.01	298.76	282.61	263.77		
15.0	360.67	360.67	357.08	352.59	344.52	334.65	322.99	309.53	296.07		
30.0	360.67	364.26	366.05	366.05	362.46	357.98	351.70	343.62	333.75		
45.0	359.77	367.84	374.12	378.61	381.30	382.20	381.30	378.61	375.02		
60.0	359.77	372.33	382.20	391.17	398.35	404.63	409.12	411.81	412.70		
75.0	359.77	375.02	388.48	401.94	412.70	423.47	431.54	437.82	441.41		
90.0	361.56	378.61	393.86	408.22	422.57	435.13	445.00	453.97	461.15		
105.0	362.46	379.51	396.55	411.81	426.16	438.72	449.49	459.36	467.43		
120.0	363.36	380.41	395.66	410.01	422.57	434.24	443.21	451.28	457.56		
135.0	375.92	379.51	392.07	403.73	413.60	421.68	427.96	433.34	435.13		
150.0	365.15	376.82	385.79	393.86	401.94	402.83	403.73	402.83	400.14		
165.0	365.15	373.23	377.71	381.30	381.30	378.61	374.12	367.84	358.87		
180.0	362.46	364.26	364.26	361.56	355.28	347.21	337.34	324.78	311.32		
195.0	360.67	358.87	354.39	346.31	335.55	322.99	307.73	292.48	273.64		
210.0	360.67	353.49	344.52	331.96	318.50	301.45	284.41	265.57	244.93		
225.0	359.77	349.00	336.44	322.09	305.04	288.00	266.46	245.83	226.09		
240.0	359.77	346.31	331.06	313.12	295.17	275.43	254.80	233.27	211.74		
255.0	359.77	344.52	326.57	307.73	288.00	267.36	245.83	223.40	202.76		
270.0	361.56	343.62	324.78	304.14	283.51	263.77	241.34	219.81	196.48		
285.0	362.46	344.52	324.78	305.04	284.41	261.98	240.44	219.81	213.53		
300.0	363.36	345.42	326.57	306.84	302.35	265.57	244.03	222.50	200.97		
315.0	375.92	349.00	331.06	312.22	293.38	272.74	252.11	230.58	209.04		
330.0	365.15	352.59	337.34	320.29	302.35	282.61	261.98	241.34	221.60		
345.0	365.15	355.28	343.62	330.16	313.12	296.07	278.13	258.39	237.75		
360.0	362.46	357.08	349.90	340.03	327.47	314.01	298.76	282.61	263.77		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	244.93	225.19	205.45	187.51	165.98	148.93	139.96	130.09	104.07		
15.0	279.92	262.87	245.83	228.78	211.74	194.69	190.20	178.54	131.89		
30.0	322.99	309.53	298.76	284.41	270.05	251.21	245.83	218.91	157.90		
45.0	367.84	360.67	353.49	344.52	330.16	311.32	298.76	260.18	192.89		
60.0	409.12	409.12	404.63	400.14	382.20	369.64	345.42	294.28	231.47		
75.0	443.21	445.90	445.00	442.31	428.85	416.29	380.41	322.99	257.49		
90.0	465.64	470.12	470.12	464.74	459.36	447.69	396.55	335.55	274.54		
105.0	471.02	475.51	476.40	471.02	465.64	450.39	401.94	342.72	283.51		
120.0	461.15	464.74	462.95	461.15	454.87	436.03	392.97	334.65	278.13		
135.0	436.03	434.24	429.75	422.57	414.50	393.86	359.77	310.43	259.29		
150.0	396.55	388.48	381.30	372.33	359.77	339.13	311.32	272.74	230.58		
165.0	349.00	337.34	323.88	311.32	296.07	276.33	254.80	227.88	189.31		
180.0	295.17	279.02	261.98	246.73	227.88	211.74	192.00	169.57	137.27		
195.0	255.70	235.06	216.22	197.38	178.54	161.49	145.34	130.09	104.97		
210.0	224.30	203.66	182.13	161.49	142.65	123.81	108.56	96.00	79.85		
225.0	203.66	182.13	159.70	139.06	119.33	100.48	83.44	69.98	55.63		
240.0	189.31	166.88	145.34	124.71	104.07	85.23	66.39	51.14	36.78		
255.0	180.33	158.80	136.37	115.74	95.10	75.36	57.42	52.93	26.92		
270.0	174.95	152.52	130.99	126.50	90.62	71.77	52.93	35.89	21.53		
285.0	174.95	152.52	132.78	110.35	91.51	72.67	53.83	37.68	24.22		
300.0	178.54	157.90	136.37	115.74	96.00	77.16	59.21	41.27	29.61		
315.0	186.61	165.08	143.55	123.81	102.28	84.34	67.29	51.14	38.58		
330.0	200.07	177.64	157.01	133.68	113.04	96.00	79.85	66.39	51.14		
345.0	216.22	195.59	173.16	152.52	132.78	115.74	103.18	91.51	70.88		
360.0	244.93	225.19	205.45	187.51	165.98	148.93	139.96	130.09	104.07		

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Intensity data(cd)									Appendix Page: 11 Total:12	
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	
0.0	51.14	73.57	96.00	127.40	156.11	174.05	192.89	213.53	234.16	
15.0	71.77	106.76	128.30	163.29	198.28	220.71	239.55	258.39	276.33	
30.0	95.10	140.86	165.08	209.04	248.52	274.54	293.38	310.43	326.57	
45.0	112.15	162.39	202.76	255.70	303.25	332.85	350.80	365.15	377.71	
60.0	127.40	185.72	234.16	303.25	352.59	383.10	401.94	414.50	422.57	
75.0	138.17	210.84	268.26	338.24	388.48	420.78	437.82	448.59	453.97	
90.0	145.34	235.06	293.38	356.18	408.22	440.52	462.95	472.82	474.61	
105.0	142.65	235.06	288.00	340.03	384.89	421.68	445.90	458.46	463.84	
120.0	143.55	201.87	260.18	323.88	359.77	390.27	411.81	429.75	437.82	
135.0	131.89	171.36	218.02	283.51	327.47	343.62	364.26	384.89	400.14	
150.0	115.74	153.42	183.92	244.93	283.51	296.97	313.12	333.75	350.80	
165.0	103.18	122.02	146.24	206.35	230.58	248.52	262.87	281.72	300.56	
180.0	65.49	93.31	135.47	168.67	185.72	203.66	219.81	236.86	256.59	
195.0	46.65	63.70	104.07	127.40	140.86	157.01	175.85	194.69	216.22	
210.0	32.30	43.96	78.05	94.20	105.87	128.30	143.55	167.77	187.51	
225.0	22.43	35.89	58.32	72.67	90.62	108.56	110.35	150.73	172.26	
240.0	18.84	33.20	37.68	64.60	83.44	98.69	119.33	139.96	161.49	
255.0	16.15	30.50	43.96	61.01	77.16	95.10	114.84	136.37	155.21	
270.0	14.35	27.81	41.27	56.52	74.47	93.31	113.04	132.78	153.42	
285.0	14.35	28.71	42.17	59.21	76.26	94.20	113.94	134.58	156.11	
300.0	17.05	30.50	48.45	64.60	82.54	100.48	119.33	140.86	161.49	
315.0	21.53	35.89	57.42	74.47	92.41	110.35	130.09	150.73	173.16	
330.0	28.71	43.96	67.29	90.62	107.66	125.61	144.45	165.98	188.41	
345.0	39.48	53.83	86.13	111.25	130.09	148.04	167.77	188.41	209.94	
360.0	51.14	73.57	96.00	127.40	156.11	174.05	192.89	213.53	234.16	
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	
0.0	254.80	275.43	294.28	313.12	329.27	341.83	351.70	357.08	357.08	
15.0	294.28	312.22	328.37	341.83	355.28	363.36	368.74	368.74	365.15	
30.0	340.93	354.39	366.05	374.12	381.30	384.89	385.79	381.30	373.23	
45.0	386.69	395.66	401.94	404.63	406.42	404.63	400.14	392.07	378.61	
60.0	427.96	431.54	431.54	427.96	425.26	420.78	411.81	400.14	383.99	
75.0	454.87	454.87	449.49	438.72	431.54	428.85	419.88	405.53	386.69	
90.0	471.92	469.23	459.36	437.82	425.26	429.75	420.78	408.22	387.58	
105.0	461.15	457.56	448.59	423.47	401.94	410.01	414.50	407.32	387.58	
120.0	438.72	436.93	433.34	399.25	367.84	379.51	401.94	402.83	386.69	
135.0	404.63	407.32	405.53	368.74	328.37	331.96	372.33	392.97	382.20	
150.0	361.56	367.84	368.74	339.13	289.79	276.33	337.34	380.41	376.82	
165.0	313.12	324.78	330.16	310.43	264.67	234.16	295.17	361.56	367.84	
180.0	271.85	286.20	293.38	279.92	244.93	244.93	282.61	331.06	347.21	
195.0	233.27	251.21	263.77	260.18	231.47	227.88	286.20	337.34	351.70	
210.0	207.25	213.53	242.24	244.03	225.19	244.93	304.14	335.55	351.70	
225.0	192.00	211.74	229.68	235.96	229.68	255.70	309.53	331.96	350.80	
240.0	182.13	202.76	220.71	235.06	241.34	264.67	306.84	330.16	350.80	
255.0	177.64	197.38	218.91	236.86	251.21	270.95	307.73	330.16	350.80	
270.0	174.95	197.38	218.91	237.75	256.59	279.02	308.63	330.16	350.80	
285.0	175.85	198.28	220.71	240.44	261.98	287.10	311.32	332.85	350.80	
300.0	183.03	205.45	226.99	248.52	270.05	294.28	316.71	335.55	353.49	
315.0	193.79	216.22	239.55	261.08	282.61	303.25	323.88	340.03	357.08	
330.0	210.84	233.27	253.90	277.23	296.07	316.71	332.85	348.11	359.77	
345.0	232.37	253.90	275.43	296.07	315.81	331.96	345.42	356.18	362.46	
360.0	254.80	275.43	294.28	313.12	329.27	341.83	351.70	357.08	357.08	

弗格斯莱 OBRP3240LAJUDBK-3000K

Intensity data(cd)

Appendix Page: 12 Total:12

C/γ(°)	180.0
0.0	351.70
15.0	360.67
30.0	362.46
45.0	366.05
60.0	367.84
75.0	367.84
90.0	368.74
105.0	370.54
120.0	370.54
135.0	369.64
150.0	369.64
165.0	366.95
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	351.70