
弗格斯莱

Client:

LumCAT: OBRP3240LAJUDSN-3000K

Luminaire: LED Lamp

Report No:

Ballast type:

Test No: LCZP25090201

Voltage(V): 119.950

LampCAT:

Current(A): 0.532

Lamp flux(lm): 3072.3

Power (W): 63.510

Number of Lamps: 1

PF: 0.996

Length(mm): -1000

Width(mm): -1000

Phm Type: C

Height(mm): 35

Photometric Results

Lumens(lm): 3072.28, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 48.37

Central intensity(cd): 369.998, Maximum intensity(cd): 486.632

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=1.39 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 : 32.097%

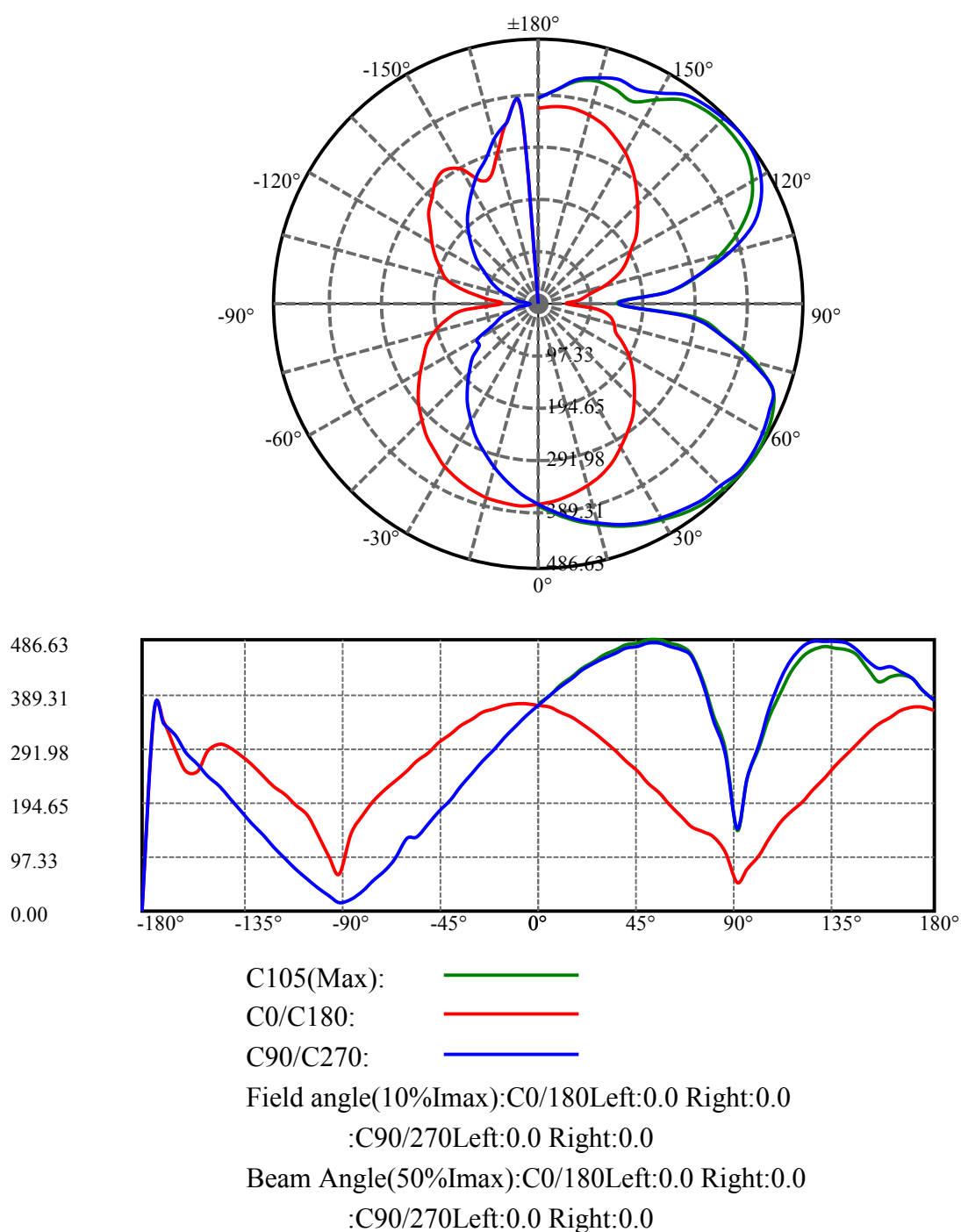
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	370.962	0.000	0	0.00%	0.00%
5.0	369.172	8.848	8.848	0.29%	0.29%
10.0	366.368	26.313	35.161	0.86%	1.14%
15.0	361.867	43.198	78.359	1.41%	2.55%
20.0	356.432	59.198	137.557	1.93%	4.48%
25.0	347.983	73.880	211.437	2.40%	6.88%
30.0	338.552	86.882	298.319	2.83%	9.71%
35.0	328.171	98.180	396.498	3.20%	12.91%
40.0	317.259	107.685	504.183	3.51%	16.41%
45.0	303.479	114.935	619.118	3.74%	20.15%
50.0	289.954	119.912	739.03	3.90%	24.05%
55.0	275.573	122.965	861.994	4.00%	28.06%
60.0	261.327	124.103	986.097	4.04%	32.10%
65.0	244.041	122.856	1108.953	4.00%	36.10%
70.0	226.124	119.049	1228.002	3.87%	39.97%
75.0	203.918	112.406	1340.408	3.66%	43.63%
80.0	175.575	101.542	1441.95	3.31%	46.93%
85.0	139.060	85.494	1527.443	2.78%	49.72%
90.0	73.090	58.088	1585.532	1.89%	51.61%
95.0	107.333	49.401	1634.933	1.61%	53.22%
100.0	139.803	67.153	1702.086	2.19%	55.40%
105.0	178.640	85.207	1787.292	2.77%	58.17%
110.0	208.094	101.086	1888.378	3.29%	61.47%
115.0	230.393	111.028	1999.406	3.61%	65.08%
120.0	249.065	116.557	2115.963	3.79%	68.87%
125.0	268.751	119.692	2235.655	3.90%	72.77%
130.0	285.674	120.550	2356.205	3.92%	76.69%
135.0	300.010	118.346	2474.551	3.85%	80.54%
140.0	313.094	113.521	2588.073	3.70%	84.24%
145.0	324.436	106.367	2694.44	3.46%	87.70%
150.0	324.974	95.630	2790.07	3.11%	90.81%
155.0	319.928	81.613	2871.683	2.66%	93.47%
160.0	328.862	68.046	2939.729	2.21%	95.69%
165.0	354.039	56.281	2996.01	1.83%	97.52%
170.0	370.219	42.962	3038.972	1.40%	98.92%
175.0	373.426	26.602	3065.575	0.87%	99.78%
180.0	187.089	6.701	3072.275	0.22%	100.00%

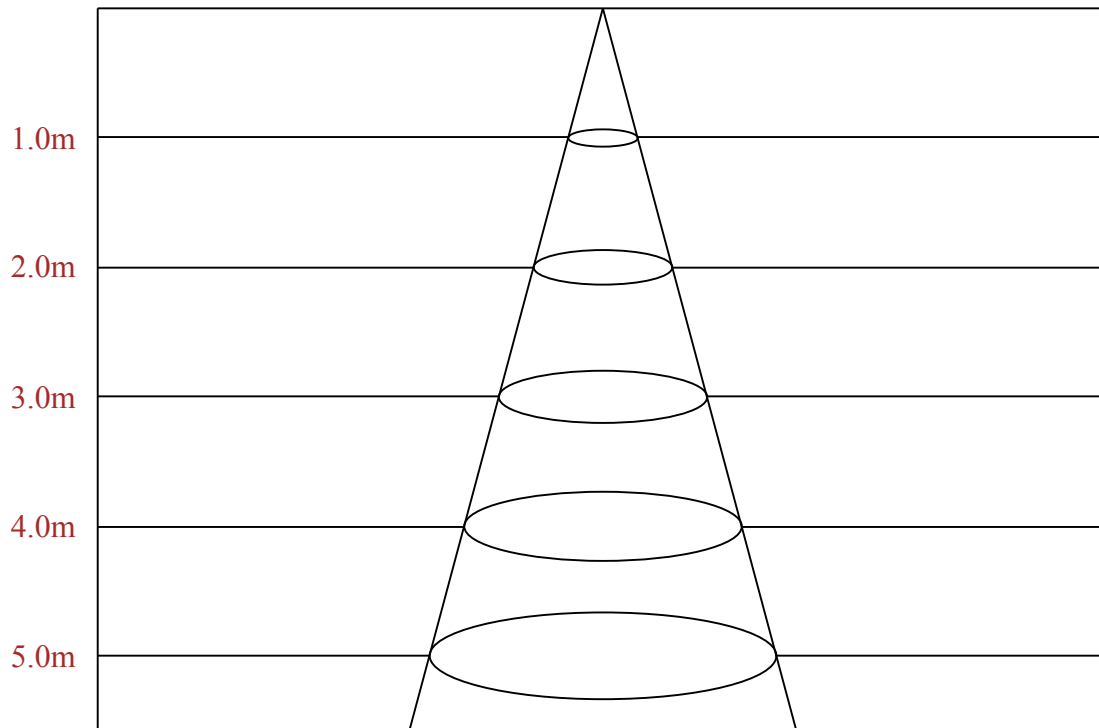
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	298.32	9.71%	9.71%
0-40	504.18	16.41%	16.41%
0-60	986.10	32.10%	32.10%
0-90	1585.53	51.61%	51.61%
0-120	2115.96	68.87%	68.87%
0-180	3072.28	100.00%	100.00%
60-90	599.43	19.51%	19.51%
90-120	530.43	17.27%	17.27%
90-130	770.67	25.08%	25.08%
90-150	1204.54	39.21%	39.21%
90-180	1480.04	48.17%	48.17%
0-134.29	2457.82	80.00%	80.00%

ZONAL LUMEN SUMMARY

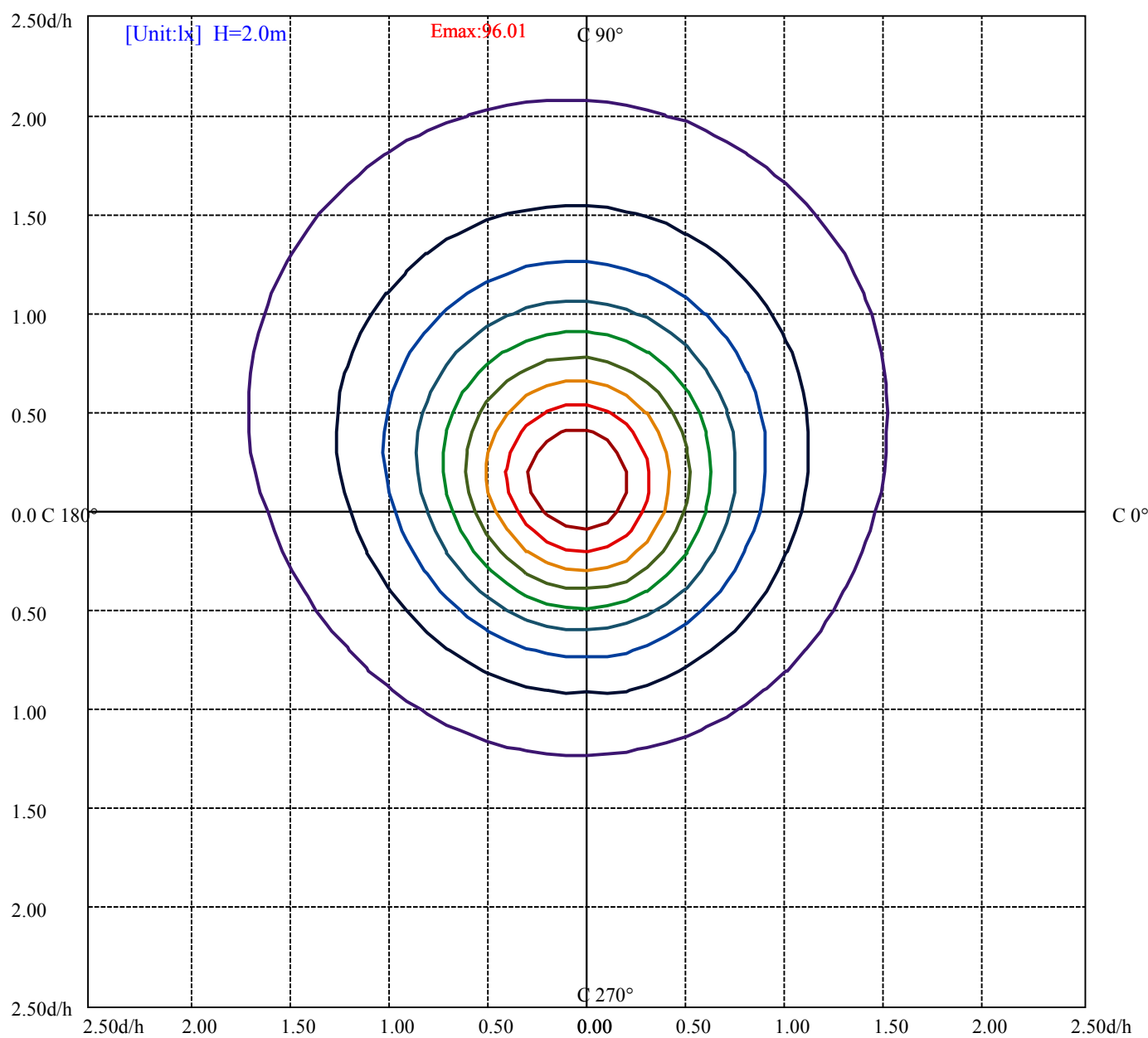
0-10	35.16
10-20	102.40
20-30	160.76
30-40	205.86
40-50	234.85
50-60	247.07
60-70	241.90
70-80	213.95
80-90	143.58
90-100	116.55
100-110	186.29
110-120	227.58
120-130	240.24
130-140	231.87
140-150	202.00
150-160	149.66
160-170	99.24
170-180	26.60



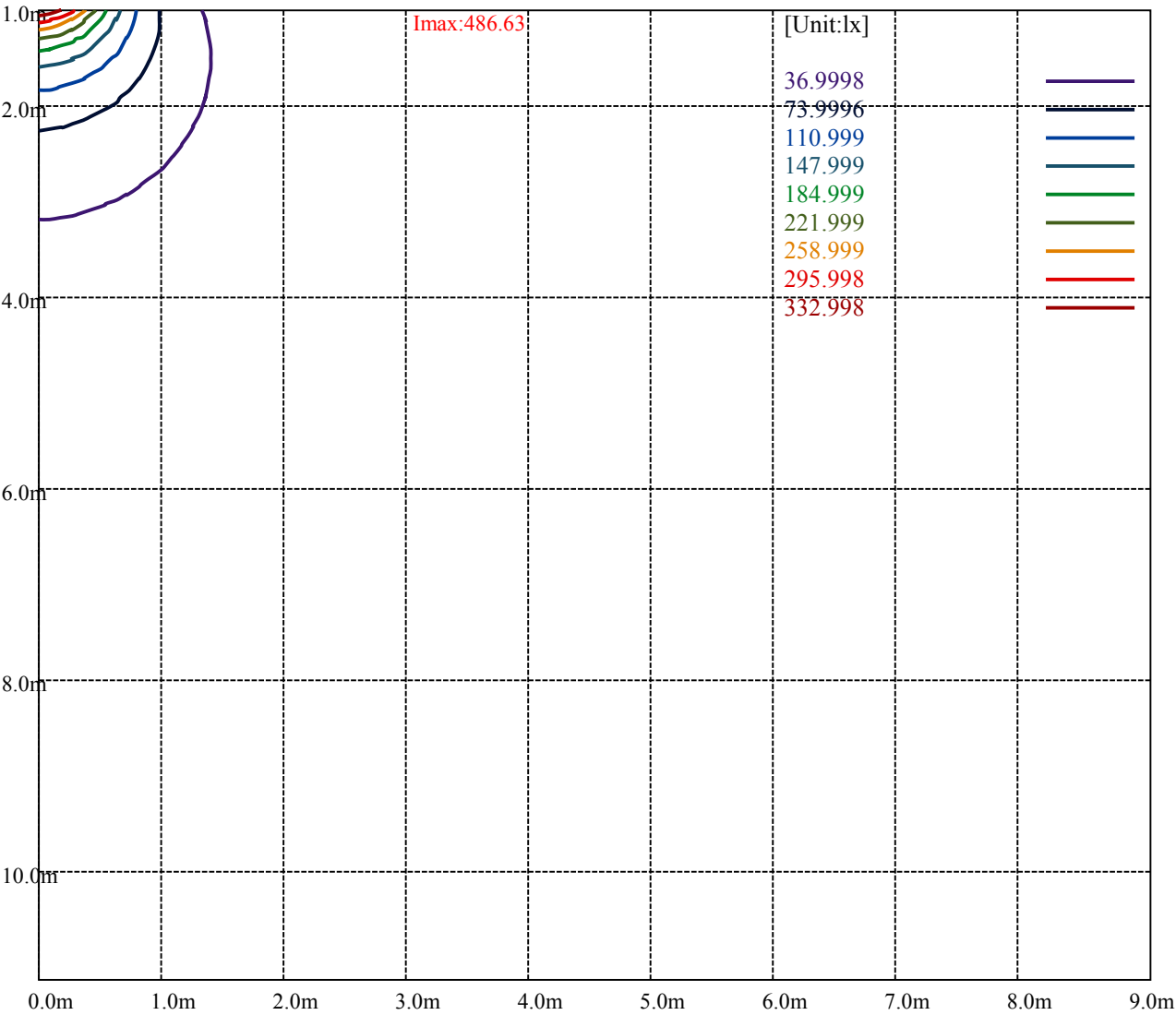


Max , Ave

Beam angle of C105 plane 225.59



(10%Emax) 9.60105	—
(20%Emax) 19.2021	—
(30%Emax) 28.80325	—
(40%Emax) 38.40425	—
(50%Emax) 48.00525	—
(60%Emax) 57.60625	—
(70%Emax) 67.2075	—
(80%Emax) 76.8085	—
(90%Emax) 86.4095	—



Luminance Table

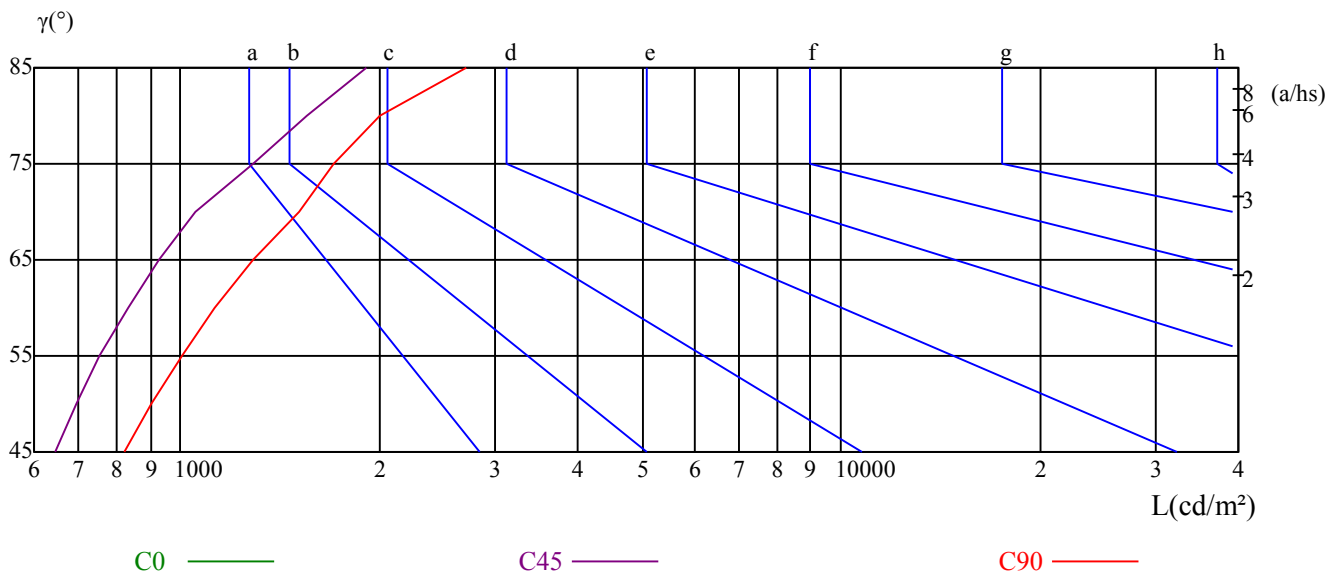
γ	45	50	55	60	65	70	75	80	85
C0	432	433	439	453	468	505	604	780	1029
C45	648	693	753	833	927	1055	1288	1555	1911
C90	819	903	1002	1123	1291	1516	1709	2007	2713

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
607	847	743	835	1130	1018	1800	2209	2036

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



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

弗格斯莱 OBRP3240LAJUDSN-3000K

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	370.00	364.79	357.17	347.21	335.01	321.19	305.40	288.35	269.87
15.0	368.74	368.38	365.15	359.86	351.79	341.74	329.98	316.44	302.35
30.0	368.11	372.24	374.12	373.68	370.54	365.78	358.96	351.16	341.38
45.0	367.84	375.83	382.20	386.78	389.38	390.09	389.20	386.60	383.10
60.0	367.58	380.23	390.81	399.96	407.41	413.42	417.55	420.42	421.68
75.0	367.67	382.92	397.27	410.28	421.86	432.44	440.70	447.07	451.28
90.0	369.19	386.69	402.75	417.37	432.17	444.28	454.87	463.48	470.93
105.0	370.72	388.03	404.90	420.42	435.13	448.50	459.45	469.32	477.21
120.0	371.70	388.66	404.36	419.07	431.63	443.48	452.90	461.42	467.79
135.0	383.90	387.85	400.59	412.17	422.30	430.92	437.11	442.40	445.00
150.0	372.78	385.34	394.31	402.03	410.73	411.36	412.17	411.45	408.85
165.0	373.32	381.12	386.33	389.20	389.47	386.60	381.84	375.56	366.41
180.0	370.00	372.51	372.42	369.73	363.45	355.19	344.43	332.14	317.69
195.0	368.74	366.77	361.83	353.94	342.90	329.98	314.64	298.49	279.38
210.0	368.11	361.21	351.79	339.58	325.14	308.45	290.78	271.22	250.58
225.0	367.84	356.99	343.98	328.73	311.59	293.92	272.47	251.57	231.20
240.0	367.58	353.58	338.15	320.11	301.81	281.54	260.27	238.56	216.13
255.0	367.67	351.70	333.75	314.46	294.19	273.10	250.94	228.60	206.89
270.0	369.19	350.98	331.51	311.14	289.79	269.42	246.99	224.39	200.34
285.0	370.72	351.96	332.23	311.68	290.33	268.08	245.65	224.21	217.93
300.0	371.70	353.13	333.84	313.83	309.35	271.76	249.60	227.26	205.72
315.0	383.90	356.27	338.15	319.31	299.84	279.02	257.40	235.51	213.26
330.0	372.78	359.86	344.25	327.29	308.54	288.53	268.08	246.73	226.27
345.0	373.32	363.09	350.98	336.98	320.02	302.80	283.87	263.77	242.96
360.0	370.00	364.79	357.17	347.21	335.01	321.19	305.40	288.35	269.87
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	250.58	230.40	210.30	191.55	170.02	152.16	143.28	133.23	106.32
15.0	286.38	268.62	251.21	233.99	216.49	198.73	194.06	182.04	134.58
30.0	329.89	316.35	304.95	290.51	275.61	257.04	251.39	223.58	161.40
45.0	375.92	368.47	360.76	352.23	337.07	318.05	305.31	265.66	197.47
60.0	418.36	418.00	413.87	409.03	390.81	377.80	353.13	300.83	236.32
75.0	453.17	455.68	454.78	452.27	438.54	425.17	388.93	329.98	263.50
90.0	475.33	480.17	480.17	474.97	469.41	457.02	405.17	342.90	280.28
105.0	481.70	486.18	486.63	481.52	475.87	459.99	410.55	349.81	289.88
120.0	471.11	475.06	473.17	470.93	464.56	445.81	401.22	342.19	284.59
135.0	445.36	443.21	438.63	431.90	423.11	402.66	367.75	317.15	264.49
150.0	404.72	396.91	389.20	380.05	367.13	346.76	318.23	278.75	235.51
165.0	356.54	344.25	331.33	317.78	302.08	282.52	260.63	232.73	193.07
180.0	301.90	285.30	267.99	251.75	233.09	216.13	196.30	173.43	140.05
195.0	260.90	240.09	220.89	201.78	182.67	164.63	148.84	132.87	107.48
210.0	229.32	207.70	185.99	165.35	146.06	126.77	111.16	98.15	81.28
225.0	208.51	186.43	162.84	142.47	121.57	102.37	85.68	71.42	56.52
240.0	193.61	170.91	148.48	127.13	105.96	87.03	68.01	52.66	37.23
255.0	184.28	161.85	139.24	117.89	96.99	77.07	58.32	54.46	27.27
270.0	178.63	156.20	133.95	128.93	92.59	73.03	54.10	36.96	22.16
285.0	178.63	156.20	135.30	112.60	93.58	74.38	55.27	38.22	24.31
300.0	182.22	161.31	139.33	118.07	97.88	78.59	60.47	42.62	29.88
315.0	190.92	168.67	147.05	126.32	104.25	86.58	68.63	52.04	39.12
330.0	204.20	181.14	160.51	137.00	115.92	98.33	82.00	68.19	52.66
345.0	221.33	199.80	177.19	155.84	135.74	118.34	105.60	93.93	72.04
360.0	250.58	230.40	210.30	191.55	170.02	152.16	143.28	133.23	106.32

弗格斯莱 OBRP3240LAJUDSN-3000K

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	52.49	75.45	98.51	129.91	159.07	177.91	197.29	217.75	239.01
15.0	73.48	109.37	130.72	166.61	202.85	225.19	244.57	263.86	282.16
30.0	97.16	143.82	168.40	213.53	253.90	280.64	299.66	316.80	333.75
45.0	114.75	166.25	207.43	261.17	310.16	339.76	358.42	372.96	385.97
60.0	129.91	190.20	239.64	309.80	360.04	391.08	410.28	423.38	431.72
75.0	140.95	215.59	274.45	345.68	397.09	429.66	447.69	458.64	463.57
90.0	148.57	239.82	300.11	363.81	417.37	450.30	473.08	483.40	485.11
105.0	145.97	240.27	294.37	347.75	393.15	430.38	455.50	468.69	473.80
120.0	147.05	205.99	265.75	330.70	367.22	398.71	420.69	439.35	447.78
135.0	135.12	175.31	222.77	289.25	334.20	351.43	372.42	393.06	409.20
150.0	118.34	156.92	187.69	250.40	289.34	303.61	320.29	340.93	358.78
165.0	105.06	124.80	149.02	211.20	235.69	254.17	268.26	287.91	306.66
180.0	67.11	95.46	138.35	171.90	189.93	208.15	224.56	242.33	262.61
195.0	47.91	65.23	106.14	130.09	144.00	160.86	179.44	199.08	221.16
210.0	32.75	45.22	79.67	96.00	108.11	131.08	146.87	171.36	191.91
225.0	22.61	36.34	59.75	74.20	92.50	110.98	113.04	153.60	175.58
240.0	19.02	33.64	38.22	66.30	85.05	100.84	121.48	143.28	164.81
255.0	16.87	31.31	44.95	62.00	78.77	97.25	117.08	139.51	158.53
270.0	14.80	27.99	42.26	58.14	76.53	95.10	115.83	135.65	157.10
285.0	14.98	29.07	42.71	60.38	77.52	96.54	116.54	137.36	159.07
300.0	17.32	31.49	49.17	66.12	84.16	102.91	122.29	144.18	164.63
315.0	21.89	36.61	58.23	76.53	94.83	112.78	132.87	154.41	176.48
330.0	29.61	44.95	69.17	92.14	109.82	128.57	147.86	169.66	192.27
345.0	40.46	54.91	87.83	113.76	132.96	151.53	171.54	192.89	214.52
360.0	52.49	75.45	98.51	129.91	159.07	177.91	197.29	217.75	239.01
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	260.27	281.54	300.74	319.49	336.08	349.00	359.14	364.53	364.97
15.0	300.65	318.59	335.64	349.27	362.55	371.25	376.55	376.91	373.41
30.0	348.65	362.28	373.68	382.65	389.65	393.32	393.86	389.38	380.94
45.0	395.12	404.54	410.82	413.78	415.40	413.33	409.12	400.32	386.95
60.0	437.29	440.70	440.97	437.65	434.95	429.57	420.69	409.20	392.79
75.0	465.19	464.47	458.82	448.23	441.14	438.36	429.12	414.59	394.67
90.0	482.41	479.45	469.41	447.34	434.33	438.72	429.93	417.10	396.38
105.0	471.47	467.88	458.01	433.07	410.64	418.98	423.65	416.20	396.20
120.0	448.05	446.80	442.58	407.68	375.47	387.85	410.91	411.27	394.94
135.0	413.87	416.02	414.14	377.00	335.64	339.49	380.05	401.40	390.54
150.0	369.19	375.47	376.55	346.67	296.25	282.16	344.97	388.30	384.89
165.0	319.67	331.96	337.07	317.15	270.86	239.01	301.99	369.73	375.92
180.0	277.50	292.48	299.93	286.29	250.40	249.87	288.62	337.97	355.10
195.0	238.56	256.32	269.78	265.48	236.68	232.46	292.84	344.52	359.14
210.0	212.09	218.02	247.80	249.33	230.49	249.87	310.78	342.90	358.87
225.0	196.12	216.49	234.43	241.34	235.06	260.99	315.99	339.13	358.16
240.0	185.72	206.80	225.73	240.27	246.81	270.59	313.74	337.25	358.33
255.0	181.32	202.05	223.31	242.42	256.32	277.14	314.10	337.34	358.51
270.0	179.08	201.51	223.85	242.51	261.89	285.30	315.63	336.89	357.98
285.0	179.97	202.58	225.19	245.92	267.45	293.38	317.78	339.76	358.78
300.0	186.88	209.67	232.37	253.63	276.24	300.38	323.25	343.26	361.47
315.0	198.01	221.07	244.48	267.00	288.89	309.62	330.70	347.84	364.61
330.0	215.50	238.47	259.73	282.88	302.80	323.17	340.48	355.82	367.93
345.0	237.66	259.11	281.45	302.35	322.27	338.87	353.04	363.63	370.72
360.0	260.27	281.54	300.74	319.49	336.08	349.00	359.14	364.53	364.97

Intensity data(cd)

C/γ(°)	180.0
0.0	359.50
15.0	368.20
30.0	370.72
45.0	374.30
60.0	375.92
75.0	376.28
90.0	377.18
105.0	378.97
120.0	378.61
135.0	378.07
150.0	377.35
165.0	375.02
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	359.50