
弗格斯莱

Client:

LumCAT: CLSP32LAJUDLB

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.279

Lamp flux(lm): 1964.7

Power (W): 33.400

Number of Lamps: 1

PF: 0.997

Length(mm): 760

Width(mm): 640

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1964.65, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 58.82

Central intensity(cd): 546.769, Maximum intensity(cd): 546.769

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=120.0

[C90/270]Total=121.4

Field angle(10%Imax): [C0/180]Total=204.8

[C90/270]Total=192.8

Maximum s/h(1/2): C0_180=1.27 C90_270=1.26

Maximum s/h(1/4): C0_180=1.40 C90_270=1.39

Up flux rate of lamp(%): 7.96%

Down flux rate of lamp(%): 92.04%

Up flux rate of LUM(%): 7.96%

Down flux rate of LUM(%): 92.04%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 64.326%

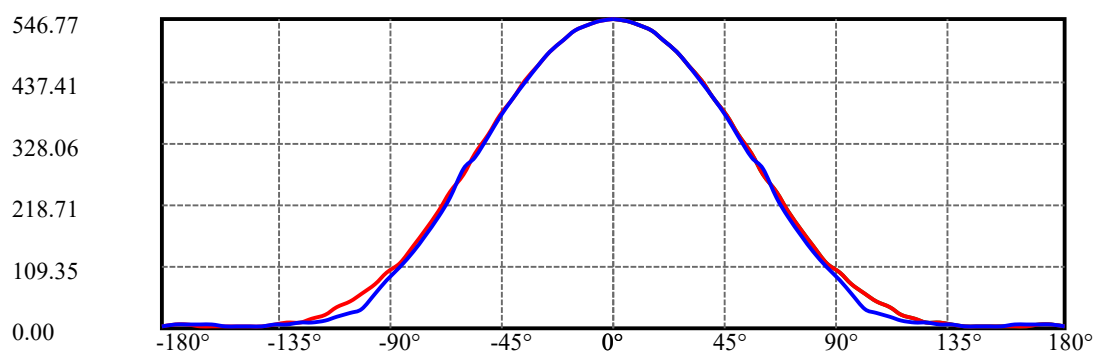
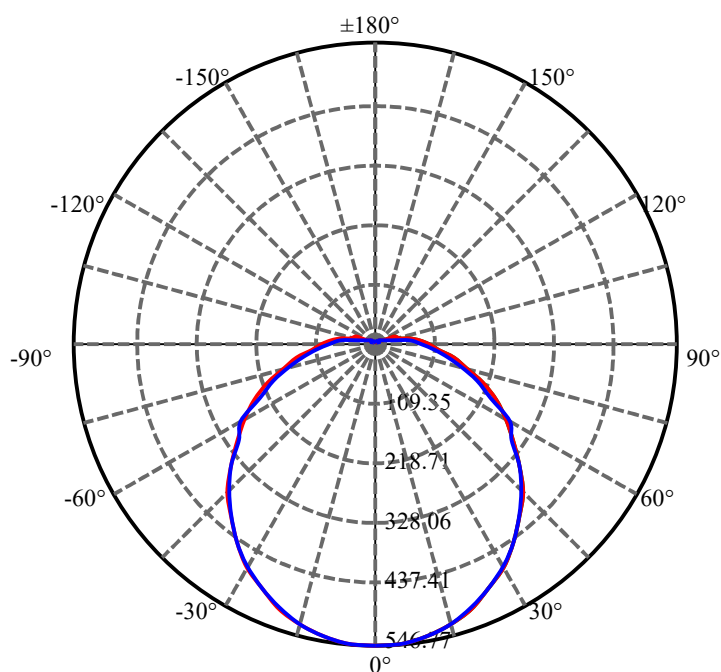
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	546.769	0.000	0	0.00%	0.00%
5.0	544.124	13.041	13.041	0.66%	0.66%
10.0	537.149	38.681	51.722	1.97%	2.63%
15.0	525.533	63.038	114.759	3.21%	5.84%
20.0	509.661	85.315	200.074	4.34%	10.18%
25.0	489.194	104.761	304.835	5.33%	15.52%
30.0	465.196	120.779	425.614	6.15%	21.66%
35.0	437.521	132.931	558.546	6.77%	28.43%
40.0	408.354	141.128	699.673	7.18%	35.61%
45.0	375.153	145.073	844.746	7.38%	43.00%
50.0	341.037	144.717	989.463	7.37%	50.36%
55.0	306.079	140.704	1130.167	7.16%	57.53%
60.0	271.964	133.613	1263.78	6.80%	64.33%
65.0	236.001	123.487	1387.267	6.29%	70.61%
70.0	202.309	110.983	1498.25	5.65%	76.26%
75.0	171.108	97.605	1595.855	4.97%	81.23%
80.0	143.932	84.296	1680.151	4.29%	85.52%
85.0	116.985	70.897	1751.049	3.61%	89.13%
90.0	92.185	57.273	1808.321	2.92%	92.04%
95.0	71.819	44.906	1853.227	2.29%	94.33%
100.0	49.652	33.007	1886.233	1.68%	96.01%
105.0	36.432	23.034	1909.267	1.17%	97.18%
110.0	26.047	16.331	1925.598	0.83%	98.01%
115.0	18.003	11.154	1936.752	0.57%	98.58%
120.0	12.680	7.459	1944.211	0.38%	98.96%
125.0	9.617	5.154	1949.365	0.26%	99.22%
130.0	7.434	3.707	1953.072	0.19%	99.41%
135.0	5.596	2.633	1955.706	0.13%	99.54%
140.0	4.678	1.902	1957.608	0.10%	99.64%
145.0	4.371	1.510	1959.118	0.08%	99.72%
150.0	4.332	1.282	1960.399	0.07%	99.78%
155.0	4.754	1.150	1961.549	0.06%	99.84%
160.0	5.023	1.025	1962.574	0.05%	99.89%
165.0	5.291	0.850	1963.424	0.04%	99.94%
170.0	5.942	0.666	1964.091	0.03%	99.97%
175.0	6.364	0.440	1964.531	0.02%	99.99%
180.0	3.296	0.115	1964.646	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	425.61	21.66%	21.66%
0-40	699.67	35.61%	35.61%
0-60	1263.78	64.33%	64.33%
0-90	1808.32	92.04%	92.04%
0-120	1944.21	98.96%	98.96%
0-180	1964.65	100.00%	100.00%
60-90	544.54	27.72%	27.72%
90-120	135.89	6.92%	6.92%
90-130	144.75	7.37%	7.37%
90-150	152.08	7.74%	7.74%
90-180	156.21	7.95%	7.95%
0-73.76	1571.72	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	51.72
10-20	148.35
20-30	225.54
30-40	274.06
40-50	289.79
50-60	274.32
60-70	234.47
70-80	181.90
80-90	128.17
90-100	77.91
100-110	39.36
110-120	18.61
120-130	8.86
130-140	4.54
140-150	2.79
150-160	2.18
160-170	1.52
170-180	0.44



C0(Max):

C0/C180:

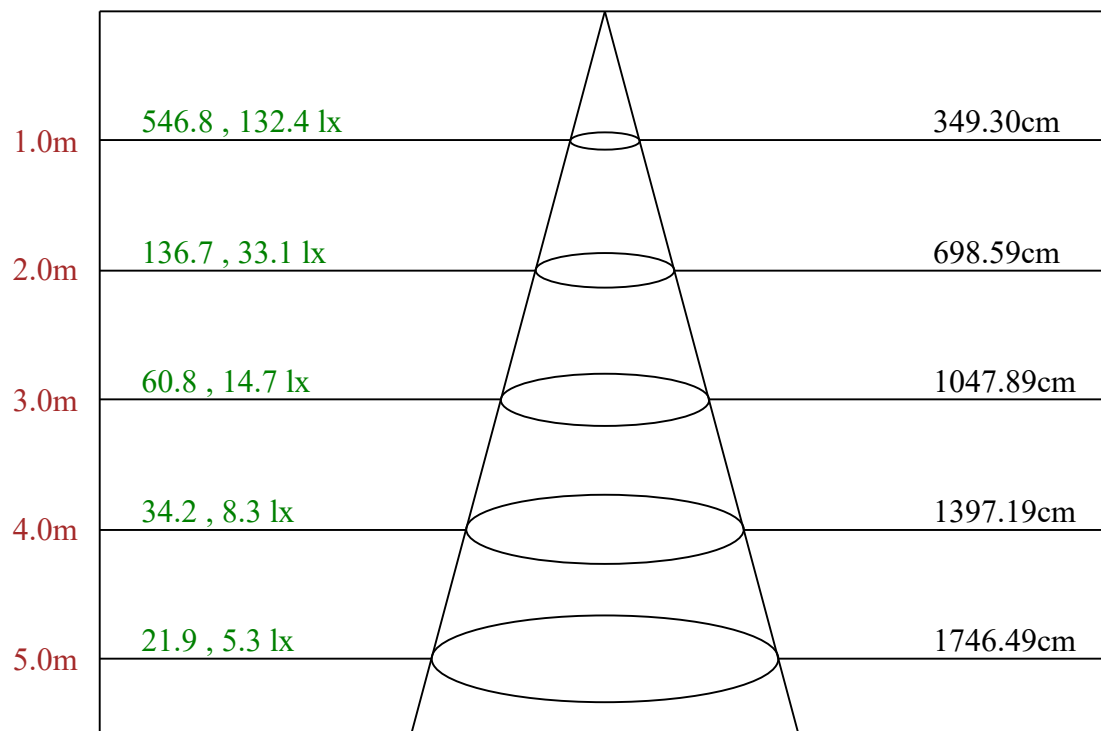
C90/C270:

Field angle(10%Imax):C0/180Left:102.4 Right:102.4

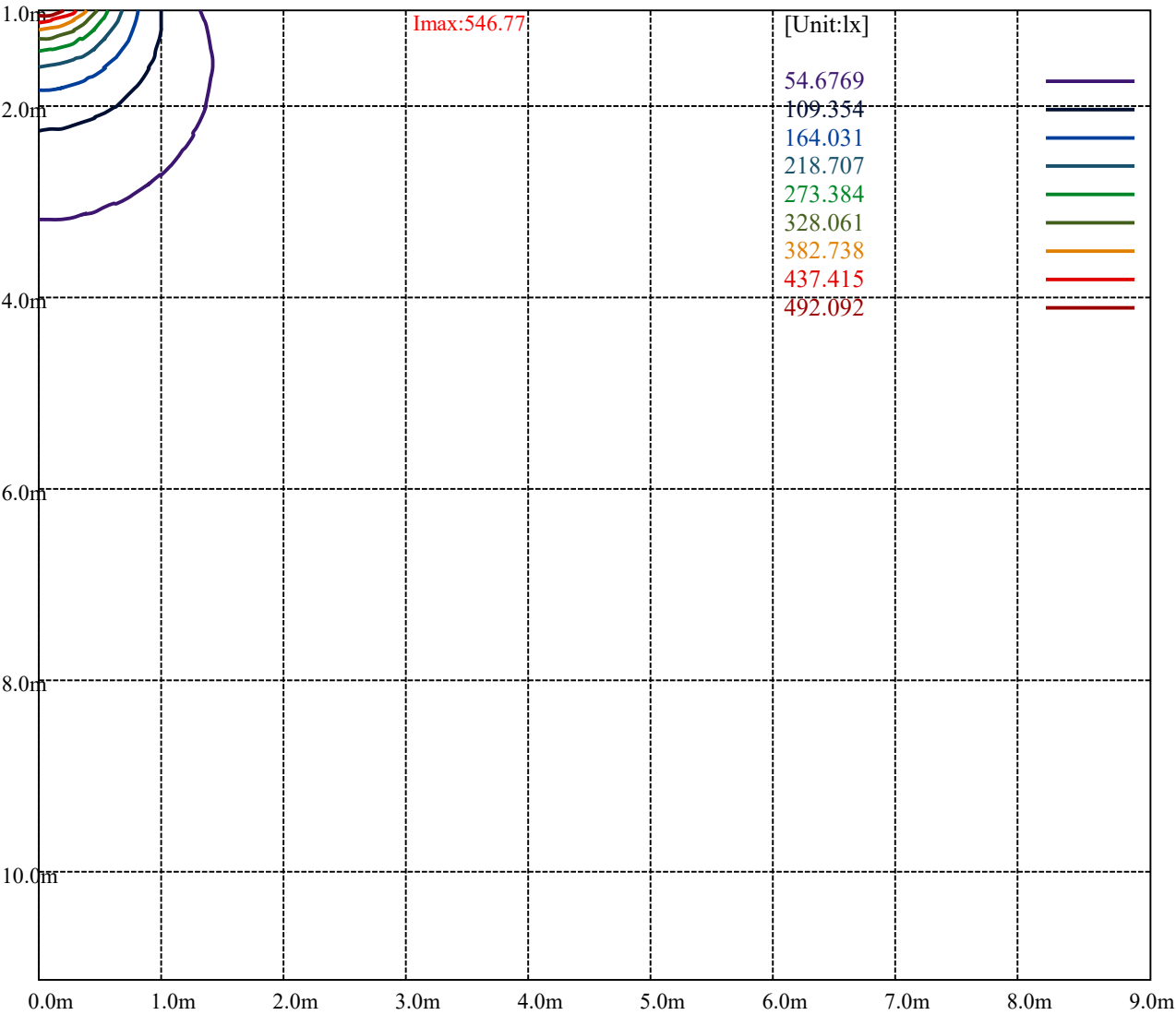
:C90/270Left:96.4 Right:96.4

Beam Angle(50%Imax):C0/180Left:60.0 Right:60.0

:C90/270Left:60.7 Right:60.7



Max , Ave Beam angle of C0 plane 120.41



Luminance Table

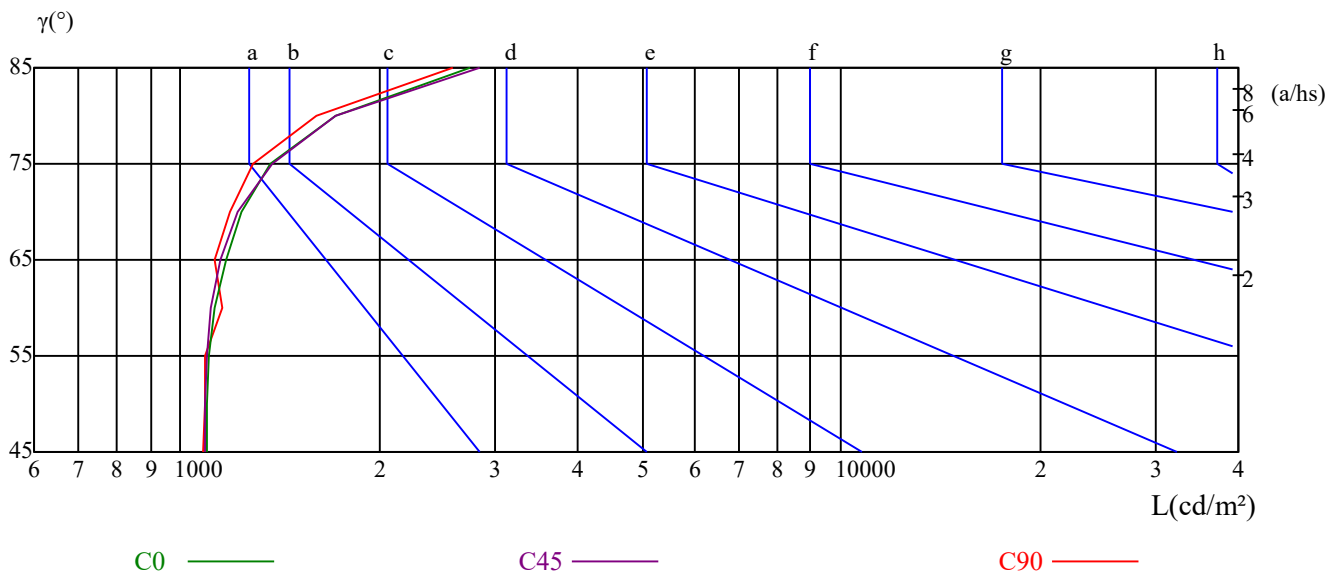
γ	45	50	55	60	65	70	75	80	85
C0	1096	1097	1102	1124	1169	1239	1371	1721	2742
C45	1087	1089	1094	1112	1147	1219	1373	1715	2847
C90	1084	1087	1089	1154	1124	1192	1289	1605	2588

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1169	1124	1147	1371	1289	1373	2742	2588	2847

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	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.00	1.00	1.00	0.95	0.95	0.95	0.92
1	0.99	0.94	0.89	0.96	0.91	0.87	0.90	0.86	0.82	0.85	0.81	0.79	0.80	0.77	0.75	0.72
2	0.85	0.77	0.71	0.82	0.75	0.69	0.77	0.71	0.66	0.73	0.68	0.64	0.69	0.65	0.61	0.58
3	0.74	0.65	0.58	0.72	0.64	0.57	0.68	0.61	0.55	0.64	0.58	0.53	0.60	0.55	0.51	0.48
4	0.65	0.56	0.49	0.63	0.55	0.48	0.60	0.52	0.46	0.56	0.50	0.45	0.53	0.48	0.43	0.41
5	0.58	0.49	0.42	0.56	0.48	0.41	0.53	0.46	0.40	0.50	0.44	0.39	0.48	0.42	0.37	0.35
6	0.52	0.43	0.36	0.51	0.42	0.36	0.48	0.40	0.35	0.46	0.39	0.34	0.43	0.37	0.33	0.30
7	0.47	0.38	0.32	0.46	0.37	0.31	0.44	0.36	0.30	0.41	0.35	0.30	0.39	0.33	0.29	0.27
8	0.43	0.34	0.28	0.42	0.34	0.28	0.40	0.32	0.27	0.38	0.31	0.27	0.36	0.30	0.26	0.24
9	0.39	0.31	0.25	0.38	0.30	0.25	0.37	0.29	0.24	0.35	0.28	0.24	0.33	0.28	0.23	0.21
10	0.36	0.28	0.23	0.35	0.28	0.23	0.34	0.27	0.22	0.32	0.26	0.22	0.31	0.25	0.21	0.19

弗格斯莱 CLSP32LAJUDLB

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	546.77	548.59	545.86	539.50	528.60	512.25	492.27	467.75	440.50		
15.0	546.77	550.43	549.51	543.11	534.88	518.42	501.05	477.28	450.76		
30.0	546.77	551.36	550.44	545.85	535.76	522.00	502.73	482.55	455.95		
45.0	546.77	550.44	550.44	545.85	535.76	522.92	504.57	482.55	455.03		
60.0	546.77	552.30	553.22	547.69	538.47	523.72	505.28	482.23	456.41		
75.0	546.77	551.37	550.45	544.93	535.72	521.00	501.66	478.65	451.96		
90.0	546.77	550.46	549.53	544.00	533.86	519.11	498.82	474.85	448.11		
105.0	546.77	550.46	548.62	541.23	531.07	515.37	494.12	470.11	441.48		
120.0	546.77	547.69	544.92	536.63	523.72	507.12	485.91	460.10	431.51		
135.0	546.77	545.85	541.24	532.02	519.11	498.82	477.62	450.88	421.37		
150.0	546.77	544.92	538.44	528.27	496.81	493.11	469.06	441.30	412.62		
165.0	546.77	543.07	536.59	521.79	506.99	484.78	459.80	431.12	397.82		
180.0	546.77	539.50	526.79	511.35	491.37	465.93	439.59	407.81	375.11		
195.0	546.77	538.54	526.65	508.37	487.34	462.65	432.48	401.39	367.56		
210.0	546.77	537.59	522.92	505.49	483.47	456.86	428.42	395.40	362.37		
225.0	546.77	536.68	522.00	503.65	480.72	455.03	424.75	391.73	357.78		
240.0	546.77	537.55	523.72	505.28	482.23	455.49	425.98	393.71	359.59		
255.0	546.77	536.64	522.84	505.35	483.26	454.72	427.11	394.89	360.83		
270.0	546.77	538.47	524.64	507.12	484.99	459.17	429.67	397.40	365.13		
285.0	546.77	539.38	526.45	509.82	488.58	463.64	435.01	404.53	397.15		
300.0	546.77	539.39	528.33	513.58	508.97	469.32	441.66	412.15	378.96		
315.0	546.77	540.31	532.02	518.19	498.82	476.69	451.80	421.37	391.87		
330.0	546.77	543.07	536.59	524.56	506.99	487.56	462.58	434.82	404.29		
345.0	546.77	544.92	539.37	529.19	514.39	494.96	472.76	445.93	416.32		
360.0	546.77	548.59	545.86	539.50	528.60	512.25	492.27	467.75	440.50		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	411.44	378.74	343.32	308.81	274.29	236.15	203.45	172.57	136.24		
15.0	420.59	387.68	352.93	320.02	284.36	245.95	213.04	181.95	155.44		
30.0	426.59	394.48	360.54	324.76	289.90	252.28	221.09	187.15	156.87		
45.0	425.67	395.40	359.62	325.68	289.90	254.12	222.01	188.07	158.71		
60.0	426.90	394.63	359.59	322.71	284.91	248.03	212.07	181.64	150.29		
75.0	422.50	390.29	357.15	320.33	284.43	243.93	210.79	177.65	146.36		
90.0	417.68	385.41	350.37	314.42	277.53	242.50	199.16	170.58	141.07		
105.0	411.00	377.75	342.65	308.48	271.54	235.52	200.42	163.48	126.53		
120.0	401.09	367.89	333.78	297.82	261.86	226.82	195.47	165.04	135.54		
135.0	390.02	355.91	323.64	285.83	253.56	219.45	187.17	158.59	132.77		
150.0	381.17	346.93	311.78	276.62	242.39	210.94	182.26	153.58	125.82		
165.0	367.29	333.06	300.68	266.45	233.14	202.61	173.00	144.32	116.57		
180.0	342.41	306.99	271.57	237.96	206.17	176.20	141.69	118.07	96.27		
195.0	332.82	298.07	264.24	228.58	198.41	169.15	139.89	114.29	90.52		
210.0	326.59	291.73	255.95	221.09	189.90	157.79	132.11	106.42	86.24		
225.0	322.01	286.23	249.53	216.51	180.73	150.45	123.85	102.75	83.48		
240.0	324.56	285.83	250.79	214.83	180.72	149.37	123.55	100.50	78.37		
255.0	324.93	289.03	253.13	214.47	181.34	148.20	121.50	115.98	77.32		
270.0	328.25	294.13	257.25	247.11	184.41	153.98	125.40	100.50	78.37		
285.0	338.04	302.02	266.00	230.90	195.80	164.40	134.84	108.06	82.20		
300.0	346.69	310.73	274.77	240.65	203.77	171.50	139.23	115.25	91.28		
315.0	357.75	324.56	288.60	253.56	218.52	187.17	158.59	130.01	107.88		
330.0	371.91	337.68	301.60	269.22	231.29	198.91	168.38	145.25	123.05		
345.0	385.79	349.71	316.40	280.32	245.17	210.01	177.63	152.65	130.45		
360.0	411.44	378.74	343.32	308.81	274.29	236.15	203.45	172.57	136.24		

弗格斯莱 CLSP32LAJUDLB

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	122.61	107.17	89.01	69.94	55.40	39.05	25.43	17.26	12.72
15.0	107.89	103.32	85.03	66.75	50.29	34.74	21.03	16.46	11.89
30.0	127.52	93.57	71.56	57.80	42.20	26.60	17.43	14.68	10.09
45.0	124.77	97.24	63.30	44.04	28.44	21.10	17.43	11.93	7.34
60.0	120.79	92.20	56.24	38.73	26.74	20.28	14.75	10.14	7.38
75.0	114.14	92.97	54.31	38.66	28.54	21.17	15.65	11.97	9.20
90.0	113.41	88.52	47.95	41.49	33.19	22.13	17.52	13.83	10.14
105.0	110.83	84.97	44.33	38.79	29.56	22.17	17.55	13.85	11.08
120.0	86.67	75.61	43.34	32.27	20.28	17.52	13.83	11.06	9.22
135.0	106.03	63.62	36.88	25.82	21.21	13.83	9.22	7.38	5.53
150.0	98.99	61.99	36.08	22.20	17.58	12.03	8.33	5.55	3.70
165.0	91.59	61.06	38.86	25.90	14.80	11.10	7.40	5.55	3.70
180.0	73.57	50.86	35.42	22.71	16.35	11.81	8.17	5.45	4.54
195.0	66.75	54.86	38.40	27.43	19.20	13.71	9.14	6.40	4.57
210.0	70.64	55.04	41.28	31.19	22.02	13.76	10.09	7.34	5.50
225.0	69.72	56.88	43.12	33.03	22.02	12.84	11.93	8.26	6.42
240.0	65.46	51.63	47.95	26.74	19.36	11.99	6.45	5.53	5.53
255.0	53.39	43.26	29.46	19.33	11.97	7.36	4.60	4.60	4.60
270.0	55.32	36.88	18.44	13.83	9.22	6.45	4.61	4.61	4.61
285.0	60.03	40.64	23.09	15.70	9.24	6.47	6.47	5.54	3.69
300.0	67.31	54.40	40.57	26.74	14.75	11.06	9.22	8.30	7.38
315.0	89.44	73.76	56.24	38.73	27.66	16.60	11.06	10.14	9.22
330.0	102.69	87.89	71.24	54.58	38.86	24.05	16.65	11.10	9.25
345.0	112.87	95.29	79.56	61.99	46.26	34.23	20.35	13.88	11.10
360.0	122.61	107.17	89.01	69.94	55.40	39.05	25.43	17.26	12.72
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	8.17	5.45	4.54	4.54	4.54	4.54	4.54	5.45	5.45
15.0	7.31	5.49	4.57	3.66	4.57	4.57	4.57	5.49	5.49
30.0	6.42	4.59	3.67	3.67	4.59	4.59	4.59	5.50	6.42
45.0	5.50	4.59	3.67	3.67	4.59	4.59	5.50	5.50	6.42
60.0	5.53	4.61	4.61	4.61	4.61	4.61	5.53	6.45	6.45
75.0	6.44	5.52	4.60	4.60	5.52	5.52	5.52	6.44	6.44
90.0	8.30	6.45	5.53	5.53	5.53	6.45	6.45	7.38	6.45
105.0	8.31	6.47	5.54	5.54	6.47	6.47	7.39	7.39	7.39
120.0	7.38	6.45	5.53	5.53	6.45	7.38	7.38	7.38	7.38
135.0	4.61	3.69	3.69	4.61	5.53	6.45	6.45	7.38	7.38
150.0	2.78	2.78	3.70	3.70	4.63	5.55	5.55	6.48	7.40
165.0	2.78	2.78	3.70	3.70	4.63	5.55	5.55	6.48	6.48
180.0	3.63	2.72	2.72	3.63	3.63	4.54	5.45	6.36	6.36
195.0	3.66	2.74	3.66	3.66	3.66	3.66	5.49	5.49	6.40
210.0	4.59	4.59	4.59	4.59	4.59	5.50	5.50	5.50	6.42
225.0	4.59	4.59	4.59	5.50	5.50	5.50	4.59	4.59	6.42
240.0	4.61	4.61	4.61	4.61	5.53	5.53	4.61	4.61	6.45
255.0	3.68	3.68	4.60	4.60	5.52	5.52	4.60	5.52	6.44
270.0	3.69	3.69	4.61	4.61	4.61	4.61	4.61	5.53	6.45
285.0	2.77	2.77	2.77	3.69	4.62	4.62	4.62	5.54	6.47
300.0	5.53	4.61	3.69	2.77	2.77	3.69	4.61	5.53	5.53
315.0	7.38	6.45	5.53	4.61	3.69	3.69	4.61	6.45	5.53
330.0	8.33	6.48	5.55	4.63	4.63	3.70	4.63	5.55	5.55
345.0	8.33	6.48	4.63	3.70	3.70	3.70	4.63	4.63	5.55
360.0	8.17	5.45	4.54	4.54	4.54	4.54	4.54	5.45	5.45

Intensity data(cd)

C/ $\gamma(^{\circ})$	180.0
0.0	6.36
15.0	6.40
30.0	7.34
45.0	7.34
60.0	7.38
75.0	6.44
90.0	6.45
105.0	6.47
120.0	5.53
135.0	6.45
150.0	6.48
165.0	6.48
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	6.36