
弗格斯莱

Client:

LumCAT: CLSP32LAJUDBK

Luminaire: LED lamp

Report No:

Ballast type:

Test No:

Voltage(V): 120.000

LampCAT:

Current(A): 0.284

Lamp flux(lm): 2150.8

Power (W): 33.960

Number of Lamps: 1

PF: 0.997

Length(mm): 760

Width(mm): 640

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2150.84, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 63.33

Central intensity(cd): 598.440, Maximum intensity(cd): 598.440

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=119.8

[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 : 64.323%

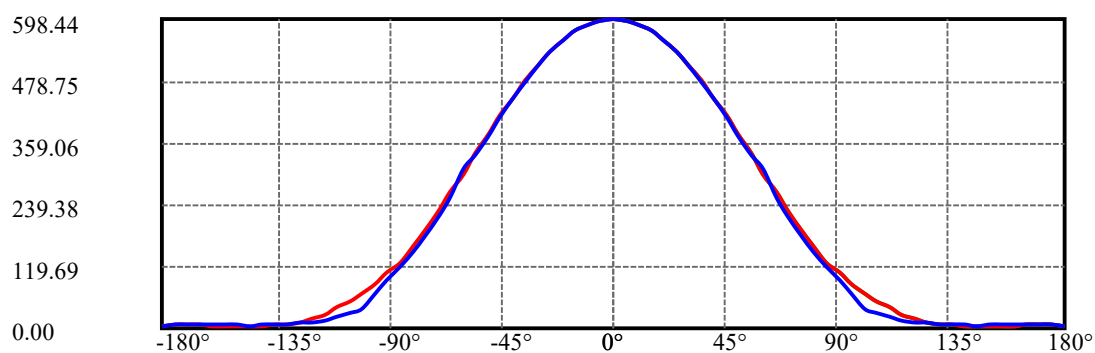
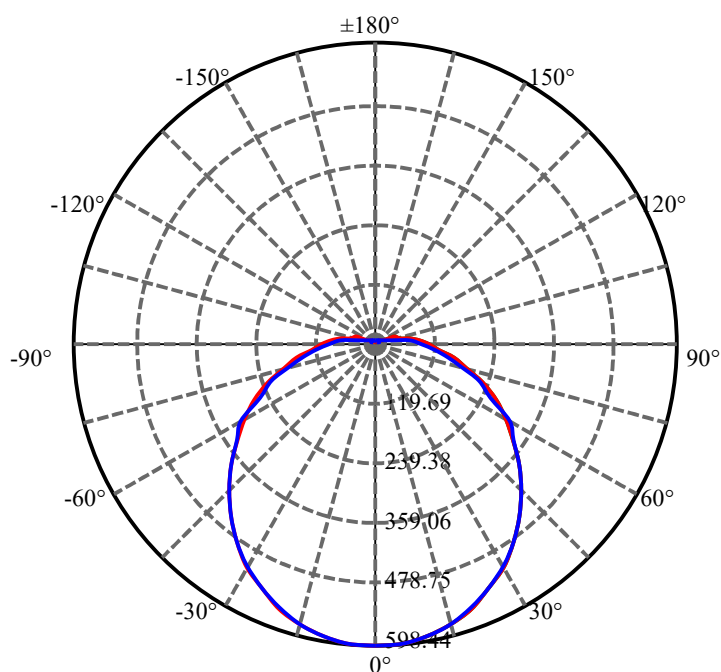
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	598.440	0.000	0	0.00%	0.00%
5.0	595.719	14.276	14.276	0.66%	0.66%
10.0	587.977	42.345	56.62	1.97%	2.63%
15.0	575.288	69.004	125.624	3.21%	5.84%
20.0	557.881	93.389	219.013	4.34%	10.18%
25.0	535.537	114.679	333.693	5.33%	15.51%
30.0	509.201	132.212	465.905	6.15%	21.66%
35.0	478.996	145.519	611.424	6.77%	28.43%
40.0	447.146	154.520	765.944	7.18%	35.61%
45.0	410.687	158.835	924.779	7.38%	43.00%
50.0	373.235	158.403	1083.182	7.36%	50.36%
55.0	335.172	154.031	1237.213	7.16%	57.52%
60.0	297.647	146.274	1383.487	6.80%	64.32%
65.0	258.387	135.173	1518.66	6.28%	70.61%
70.0	221.514	121.514	1640.174	5.65%	76.26%
75.0	187.246	106.843	1747.017	4.97%	81.22%
80.0	157.616	92.276	1839.293	4.29%	85.52%
85.0	128.141	77.647	1916.94	3.61%	89.13%
90.0	100.847	62.699	1979.638	2.92%	92.04%
95.0	78.526	49.114	2028.752	2.28%	94.32%
100.0	54.403	36.120	2064.872	1.68%	96.00%
105.0	39.842	25.217	2090.09	1.17%	97.18%
110.0	28.652	17.903	2107.993	0.83%	98.01%
115.0	19.651	12.231	2120.224	0.57%	98.58%
120.0	13.945	8.167	2128.391	0.38%	98.96%
125.0	10.575	5.668	2134.059	0.26%	99.22%
130.0	8.009	4.041	2138.099	0.19%	99.41%
135.0	6.210	2.873	2140.973	0.13%	99.54%
140.0	5.176	2.108	2143.081	0.10%	99.64%
145.0	4.870	1.676	2144.757	0.08%	99.72%
150.0	4.908	1.440	2146.197	0.07%	99.78%
155.0	5.100	1.267	2147.463	0.06%	99.84%
160.0	5.483	1.110	2148.573	0.05%	99.89%
165.0	5.788	0.929	2149.502	0.04%	99.94%
170.0	6.441	0.725	2150.228	0.03%	99.97%
175.0	7.092	0.484	2150.712	0.02%	99.99%
180.0	3.565	0.127	2150.839	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	465.91	21.66%	21.66%
0-40	765.94	35.61%	35.61%
0-60	1383.49	64.32%	64.32%
0-90	1979.64	92.04%	92.04%
0-120	2128.39	98.96%	98.96%
0-180	2150.84	100.00%	100.00%
60-90	596.15	27.72%	27.72%
90-120	148.75	6.92%	6.92%
90-130	158.46	7.37%	7.37%
90-150	166.56	7.74%	7.74%
90-180	171.07	7.95%	7.95%
0-73.77	1720.67	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	56.62
10-20	162.39
20-30	246.89
30-40	300.04
40-50	317.24
50-60	300.31
60-70	256.69
70-80	199.12
80-90	140.35
90-100	85.23
100-110	43.12
110-120	20.40
120-130	9.71
130-140	4.98
140-150	3.12
150-160	2.38
160-170	1.65
170-180	0.48



C0(Max):

C0/C180:

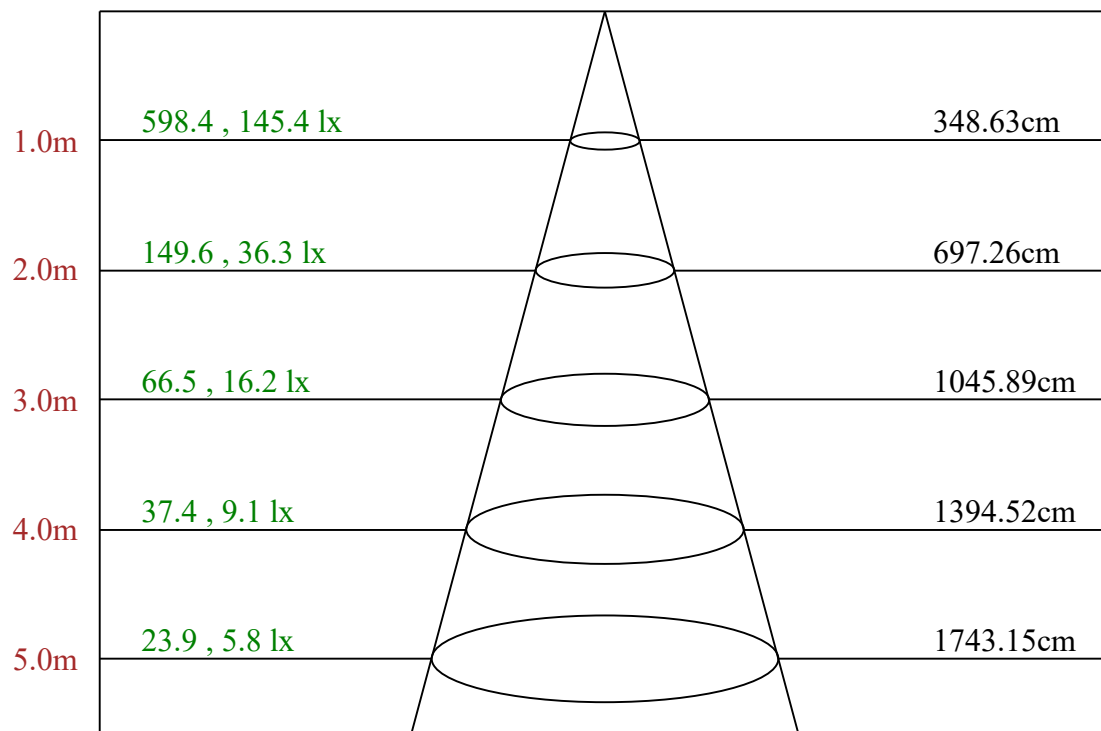
C90/C270:

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

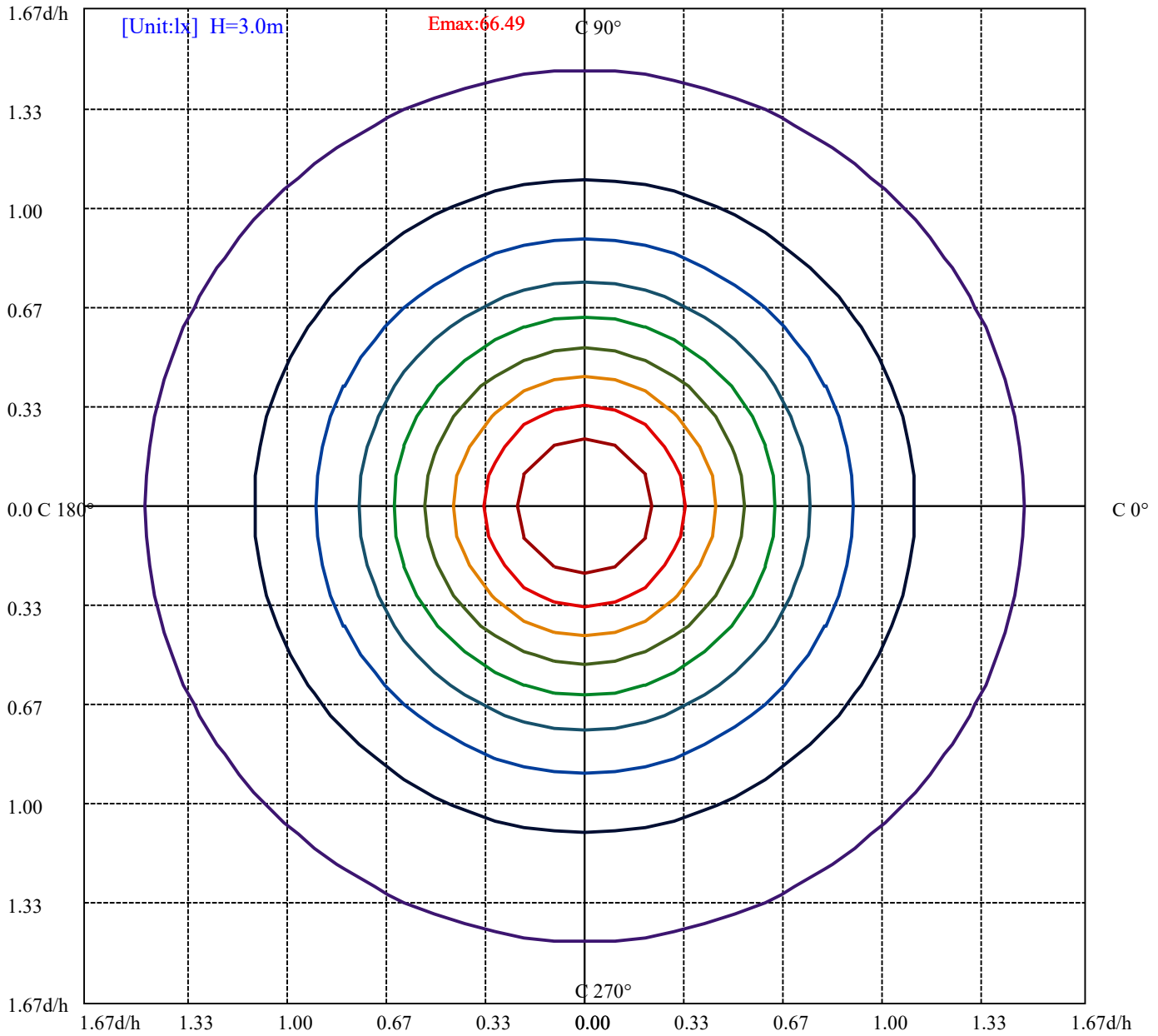
:C90/270Left:96.4 Right:96.4

Beam Angle(50%Imax):C0/180Left:59.9 Right:59.9

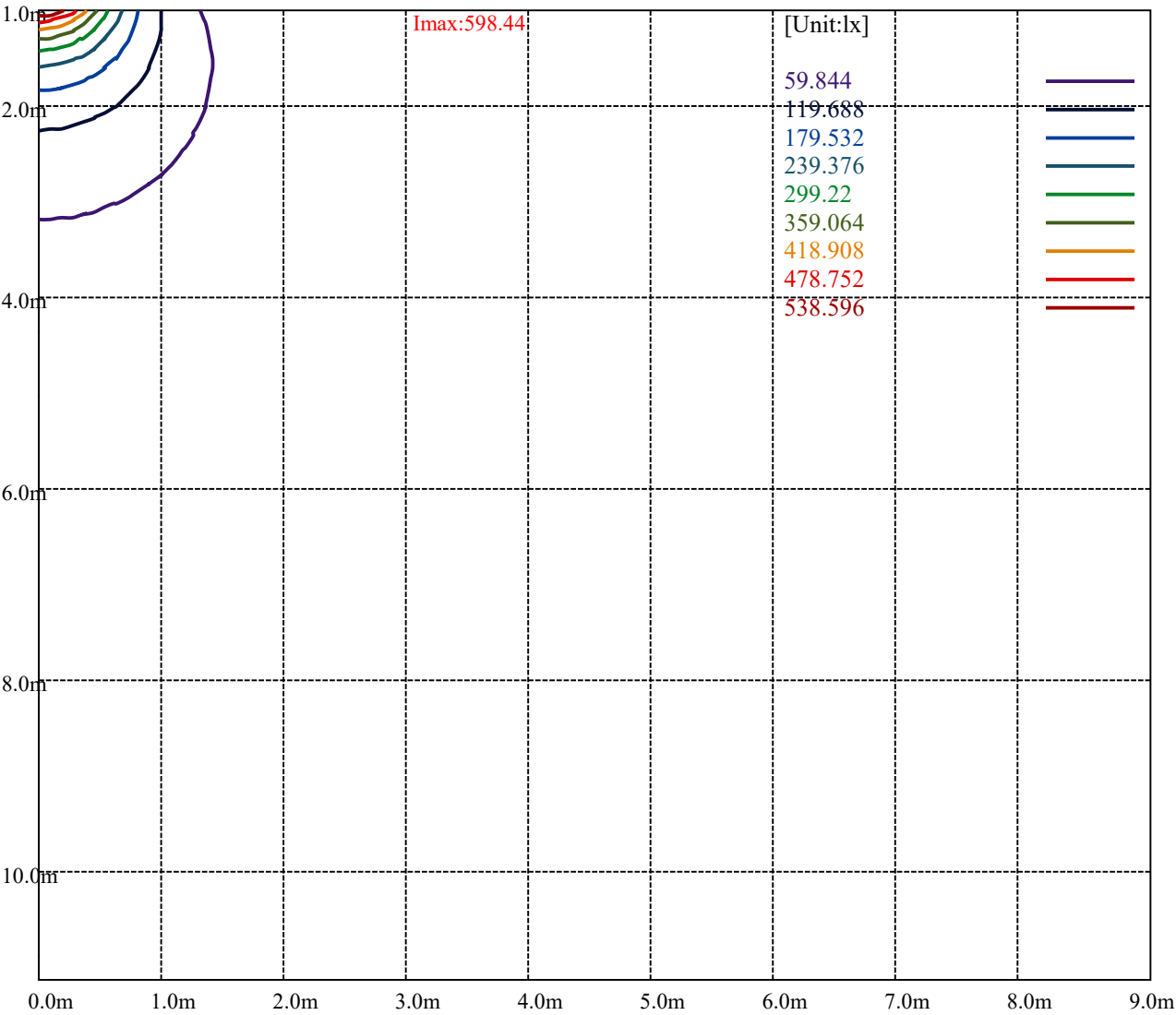
:C90/270Left:60.7 Right:60.7



Max , Ave Beam angle of C0 plane 120.32



(10%Emax)	6.649333	
(20%Emax)	13.29867	
(30%Emax)	19.948	
(40%Emax)	26.59733	
(50%Emax)	33.24667	
(60%Emax)	39.896	
(70%Emax)	46.54533	
(80%Emax)	53.19467	
(90%Emax)	59.844	



Luminance Table

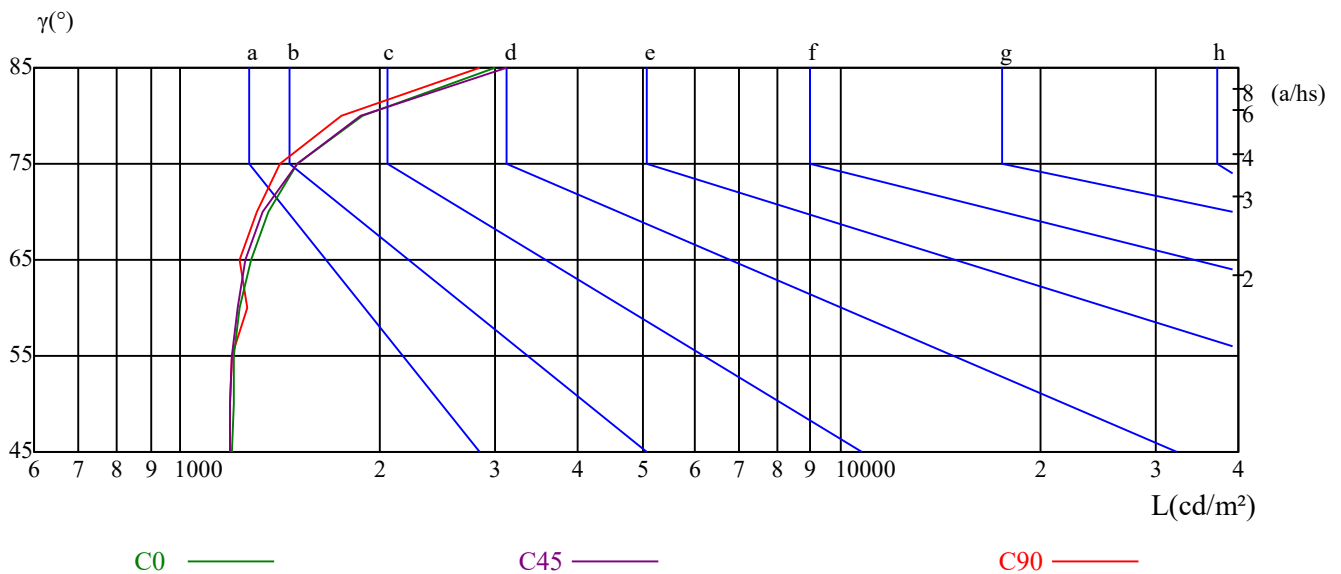
γ	45	50	55	60	65	70	75	80	85
C0	1199	1201	1208	1228	1279	1356	1500	1882	2999
C45	1190	1192	1199	1218	1256	1336	1502	1879	3120
C90	1188	1190	1193	1263	1231	1305	1410	1752	2839

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1279	1231	1256	1500	1410	1502	2999	2839	3120

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	0.26	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 CLSP32LAJUDBK

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	598.44	600.26	597.53	590.27	578.46	561.21	538.51	512.17	482.20		
15.0	598.44	603.02	601.19	595.70	585.63	568.24	548.11	523.41	493.21		
30.0	598.44	603.95	603.03	597.52	586.51	570.90	550.71	527.77	499.31		
45.0	598.44	603.03	603.03	597.52	587.43	572.74	552.55	528.68	498.39		
60.0	598.44	603.96	603.96	598.44	588.31	572.66	552.41	527.55	499.01		
75.0	598.44	603.96	603.04	597.52	586.47	570.82	549.64	524.79	495.32		
90.0	598.44	603.05	602.13	594.75	583.69	568.01	545.88	519.14	490.56		
105.0	598.44	602.13	600.29	592.90	580.89	564.27	541.18	514.40	483.00		
120.0	598.44	599.36	596.60	588.30	573.54	555.10	532.05	503.46	473.04		
135.0	598.44	597.52	592.91	582.76	568.01	545.88	521.91	494.24	461.97		
150.0	598.44	596.59	590.12	578.09	543.87	540.17	513.35	483.75	452.30		
165.0	598.44	594.74	586.42	571.62	554.97	530.92	503.17	471.72	435.65		
180.0	598.44	590.27	576.65	559.39	538.51	510.35	481.29	445.88	411.37		
195.0	598.44	590.20	576.48	556.35	534.39	506.02	473.99	439.22	402.62		
210.0	598.44	588.34	572.74	553.47	529.60	500.23	469.02	432.31	396.51		
225.0	598.44	587.43	571.82	551.63	526.85	498.39	465.35	429.56	391.92		
240.0	598.44	587.39	572.66	552.41	527.55	498.09	465.86	430.88	393.13		
255.0	598.44	588.31	572.66	553.33	528.47	498.09	467.70	432.72	394.97		
270.0	598.44	589.22	574.47	555.10	530.21	502.54	470.27	435.23	400.19		
285.0	598.44	590.13	576.28	557.81	534.72	507.94	476.54	442.37	434.05		
300.0	598.44	591.06	578.15	561.56	556.95	513.61	484.10	450.90	414.94		
315.0	598.44	591.99	581.84	567.09	546.80	520.98	494.24	461.05	429.70		
330.0	598.44	594.74	587.34	574.39	554.97	533.69	505.95	476.35	442.12		
345.0	598.44	596.59	590.12	579.02	562.37	542.02	517.04	488.37	456.00		
360.0	598.44	600.26	597.53	590.27	578.46	561.21	538.51	512.17	482.20		
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	450.42	415.00	375.95	337.81	300.58	258.81	222.49	188.89	148.93		
15.0	460.27	424.58	387.06	350.46	311.12	269.02	233.34	199.48	170.20		
30.0	467.19	432.31	394.68	355.21	317.58	276.27	242.31	205.60	171.64		
45.0	466.27	433.23	393.76	357.04	317.58	278.11	242.31	206.52	173.47		
60.0	466.78	430.88	393.13	353.54	312.11	271.60	232.01	197.95	163.88		
75.0	462.18	427.19	390.37	350.78	311.19	267.00	231.09	194.26	160.20		
90.0	457.36	422.32	383.59	343.94	304.29	265.56	217.61	186.26	154.91		
105.0	449.75	413.74	375.87	337.08	297.37	257.66	219.80	179.16	138.53		
120.0	439.84	402.96	365.15	325.50	286.77	248.97	213.93	180.73	148.46		
135.0	426.93	389.12	354.08	313.51	277.55	240.67	204.71	173.35	145.69		
150.0	417.15	379.23	341.31	303.38	265.46	231.24	199.79	168.34	137.82		
165.0	402.35	364.43	329.28	292.28	255.29	221.99	188.69	158.17	127.64		
180.0	374.14	336.00	297.86	259.72	225.21	192.52	155.29	128.95	105.34		
195.0	364.19	325.76	290.07	250.72	217.78	184.84	153.73	125.36	98.83		
210.0	357.96	319.41	280.86	242.31	207.43	173.47	145.02	116.57	94.54		
225.0	352.46	312.99	273.52	236.81	198.26	165.21	135.84	112.90	91.79		
240.0	355.38	312.11	273.44	234.77	197.02	162.96	134.42	110.48	86.54		
255.0	356.30	315.79	277.12	234.77	197.95	162.04	132.58	127.05	84.70		
270.0	359.62	321.81	282.16	270.17	201.94	168.74	137.39	109.73	85.75		
285.0	370.33	330.62	291.83	252.12	214.26	179.16	146.84	118.21	90.50		
300.0	379.90	340.25	300.60	262.80	223.15	187.19	153.07	126.33	100.51		
315.0	390.97	355.01	316.28	277.55	239.74	204.71	173.35	142.00	118.03		
330.0	406.98	369.98	330.21	294.13	253.44	218.29	184.06	159.09	135.04		
345.0	421.78	382.93	345.93	307.08	268.23	230.31	194.24	167.42	142.44		
360.0	450.42	415.00	375.95	337.81	300.58	258.81	222.49	188.89	148.93		

弗格斯莱 CLSP32LAJUDBK

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	134.40	117.15	97.17	76.28	60.84	42.68	28.15	19.07	13.62
15.0	118.04	113.47	93.33	73.20	54.90	37.52	22.88	18.30	12.81
30.0	139.51	102.80	78.02	63.33	45.89	29.37	19.27	16.52	11.01
45.0	136.76	106.47	69.76	48.65	31.21	22.95	18.36	13.77	8.26
60.0	131.66	100.35	61.69	42.35	29.46	22.10	16.57	11.05	8.29
75.0	124.29	101.27	59.84	42.35	31.30	23.02	16.57	12.89	9.21
90.0	123.56	96.82	52.56	45.18	35.96	24.90	19.36	14.75	11.07
105.0	121.90	93.28	48.02	42.48	33.25	24.01	19.39	15.70	12.01
120.0	94.98	82.07	47.03	35.04	22.13	18.44	15.68	11.99	10.14
135.0	116.18	70.08	40.57	28.58	23.97	14.75	10.14	7.38	5.53
150.0	108.22	67.52	39.77	24.05	18.50	12.95	9.25	6.47	4.62
165.0	99.89	66.60	42.55	27.75	16.65	12.02	8.32	5.55	3.70
180.0	80.82	55.39	39.05	25.43	18.16	12.71	9.08	6.36	4.54
195.0	73.20	59.48	42.09	30.20	21.05	14.64	10.07	7.32	5.49
210.0	77.10	60.58	45.89	33.96	23.86	14.69	11.01	8.26	6.42
225.0	76.18	61.50	46.81	35.80	24.78	14.69	12.85	9.18	6.42
240.0	71.81	56.16	52.48	29.46	21.18	12.89	7.37	6.44	5.52
255.0	58.92	46.95	32.22	21.18	13.81	8.29	5.52	4.60	4.60
270.0	60.86	40.57	20.29	15.68	10.14	7.38	5.53	5.53	4.61
285.0	65.57	45.25	25.86	16.62	10.16	7.39	6.46	5.54	4.62
300.0	73.77	59.94	44.26	29.51	16.60	11.99	10.14	8.30	7.38
315.0	97.74	81.14	61.78	42.42	30.43	18.44	11.99	11.07	10.14
330.0	111.92	96.19	77.70	59.20	42.55	26.82	17.57	12.02	10.17
345.0	123.02	103.59	86.94	67.52	50.87	37.00	23.12	15.72	12.02
360.0	134.40	117.15	97.17	76.28	60.84	42.68	28.15	19.07	13.62
C/ γ (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	9.08	6.36	5.45	4.54	4.54	4.54	5.45	5.45	6.36
15.0	8.24	5.49	4.58	4.58	4.58	4.58	5.49	5.49	6.41
30.0	6.42	4.59	4.59	4.59	4.59	4.59	5.51	5.51	6.42
45.0	5.51	4.59	4.59	4.59	4.59	5.51	5.51	6.42	7.34
60.0	6.44	4.60	4.60	4.60	4.60	5.52	6.44	6.44	7.37
75.0	7.37	5.52	5.52	5.52	5.52	6.44	6.44	7.37	7.37
90.0	9.22	7.38	6.45	6.45	6.45	7.38	7.38	7.38	7.38
105.0	9.24	7.39	6.46	6.46	6.46	7.39	7.39	8.31	8.31
120.0	8.30	7.38	6.45	5.53	6.45	7.38	7.38	8.30	7.38
135.0	4.61	4.61	4.61	4.61	5.53	6.45	7.38	7.38	7.38
150.0	3.70	3.70	3.70	4.62	5.55	5.55	6.47	7.40	7.40
165.0	2.77	3.70	3.70	4.62	5.55	5.55	6.47	7.40	7.40
180.0	3.63	2.72	2.72	3.63	3.63	4.54	6.36	7.26	7.26
195.0	4.58	3.66	3.66	3.66	4.58	4.58	6.41	6.41	7.32
210.0	4.59	4.59	4.59	4.59	5.51	5.51	5.51	5.51	6.42
225.0	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	7.34
240.0	4.60	4.60	4.60	5.52	5.52	5.52	4.60	5.52	7.37
255.0	4.60	4.60	4.60	4.60	5.52	6.44	4.60	5.52	7.37
270.0	4.61	4.61	4.61	5.53	5.53	5.53	4.61	5.53	7.38
285.0	3.69	2.77	3.69	4.62	4.62	5.54	4.62	5.54	7.39
300.0	6.45	5.53	4.61	3.69	3.69	3.69	4.61	6.45	6.45
315.0	8.30	6.45	6.45	5.53	4.61	4.61	5.53	6.45	6.45
330.0	8.32	7.40	5.55	5.55	4.62	4.62	4.62	6.47	6.47
345.0	9.25	6.47	5.55	4.62	4.62	4.62	4.62	5.55	6.47
360.0	9.08	6.36	5.45	4.54	4.54	4.54	5.45	5.45	6.36

Intensity data(cd)

C/ γ (°)	180.0
0.0	7.26
15.0	7.32
30.0	7.34
45.0	7.34
60.0	7.37
75.0	7.37
90.0	6.45
105.0	6.46
120.0	6.45
135.0	7.38
150.0	7.40
165.0	7.40
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	7.26