
AFX

Client:

LumCAT: SYDP10LAJUDSN-3000K

Luminaire: LED lamp

Report No:

Ballast type:

Test No: LCZP25010159

Voltage(V): 120.040

LampCAT:

Current(A): 0.170

Lamp flux(lm): 1335.2

Power (W): 20.620

Number of Lamps: 1

PF: 0.991

Length(mm): -250

Width(mm): -250

Phm Type: C

Height(mm): 60

Photometric Results

Lumens(lm): 1335.15, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 64.75

Central intensity(cd): 203.660, Maximum intensity(cd): 203.974

Angle of maximum intensity: C=60.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=322.6

[C90/270]Total=312.0

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

[C90/270]Total=N.A.

Maximum s/h(1/2): C0_180=1.33 C90_270=1.34

Maximum s/h(1/4): C0_180=1.47 C90_270=1.48

Up flux rate of lamp(%): 41.30%

Down flux rate of lamp(%): 58.70%

Up flux rate of LUM(%): 41.30%

Down flux rate of LUM(%): 58.70%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 38.416%

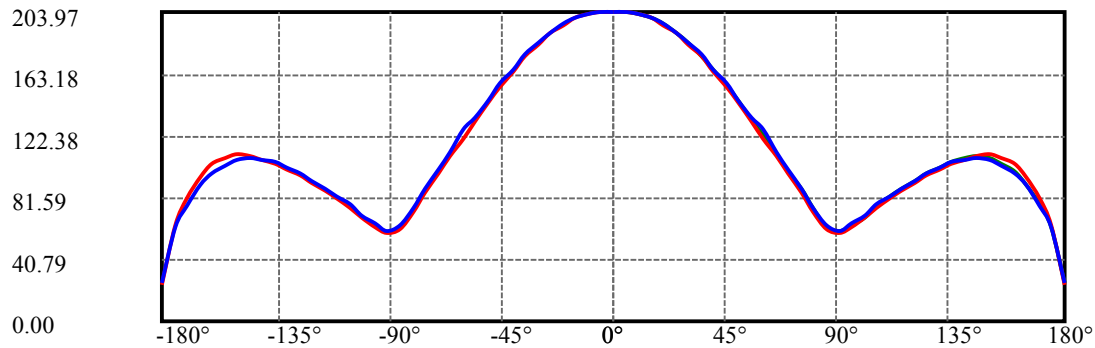
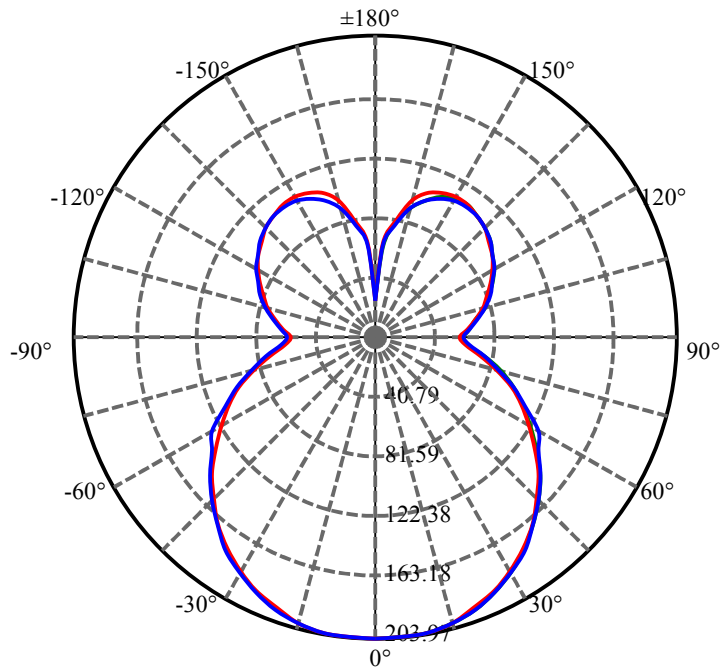
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	203.660	0.000	0	0.00%	0.00%
5.0	203.825	4.871	4.871	0.36%	0.36%
10.0	202.875	14.549	19.42	1.09%	1.45%
15.0	200.116	23.905	43.326	1.79%	3.24%
20.0	195.709	32.622	75.947	2.44%	5.69%
25.0	190.057	40.460	116.407	3.03%	8.72%
30.0	183.017	47.213	163.62	3.54%	12.25%
35.0	174.946	52.713	216.332	3.95%	16.20%
40.0	165.986	56.882	273.214	4.26%	20.46%
45.0	155.661	59.555	332.77	4.46%	24.92%
50.0	144.767	60.706	393.476	4.55%	29.47%
55.0	133.268	60.454	453.93	4.53%	34.00%
60.0	121.930	58.988	512.918	4.42%	38.42%
65.0	110.236	56.440	569.358	4.23%	42.64%
70.0	98.554	52.867	622.225	3.96%	46.60%
75.0	86.431	48.352	670.577	3.62%	50.22%
80.0	74.300	43.007	713.584	3.22%	53.45%
85.0	62.106	37.065	750.649	2.78%	56.22%
90.0	58.802	33.105	783.755	2.48%	58.70%
95.0	63.351	33.446	817.201	2.51%	61.21%
100.0	69.317	36.049	853.251	2.70%	63.91%
105.0	75.759	38.818	892.069	2.91%	66.81%
110.0	81.549	41.118	933.187	3.08%	69.89%
115.0	86.989	42.675	975.862	3.20%	73.09%
120.0	91.897	43.487	1019.349	3.26%	76.35%
125.0	96.749	43.605	1062.954	3.27%	79.61%
130.0	100.862	42.967	1105.921	3.22%	82.83%
135.0	104.305	41.457	1147.378	3.11%	85.94%
140.0	106.821	39.092	1186.47	2.93%	88.86%
145.0	108.396	35.907	1222.377	2.69%	91.55%
150.0	108.435	31.930	1254.307	2.39%	93.94%
155.0	105.898	27.124	1281.431	2.03%	95.98%
160.0	100.778	21.676	1303.108	1.62%	97.60%
165.0	91.828	15.873	1318.981	1.19%	98.79%
170.0	78.594	10.109	1329.09	0.76%	99.55%
175.0	61.682	5.018	1334.108	0.38%	99.92%
180.0	25.761	1.045	1335.154	0.08%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	163.62	12.25%	12.25%
0-40	273.21	20.46%	20.46%
0-60	512.92	38.42%	38.42%
0-90	783.75	58.70%	58.70%
0-120	1019.35	76.35%	76.35%
0-180	1335.15	100.00%	100.00%
60-90	270.84	20.29%	20.29%
90-120	235.59	17.65%	17.65%
90-130	322.17	24.13%	24.13%
90-150	470.55	35.24%	35.24%
90-180	550.35	41.22%	41.22%
0-125.60	1068.12	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	19.42
10-20	56.53
20-30	87.67
30-40	109.59
40-50	120.26
50-60	119.44
60-70	109.31
70-80	91.36
80-90	70.17
90-100	69.50
100-110	79.94
110-120	86.16
120-130	86.57
130-140	80.55
140-150	67.84
150-160	48.80
160-170	25.98
170-180	5.02



C60(Max): —————

C0/C180: —————

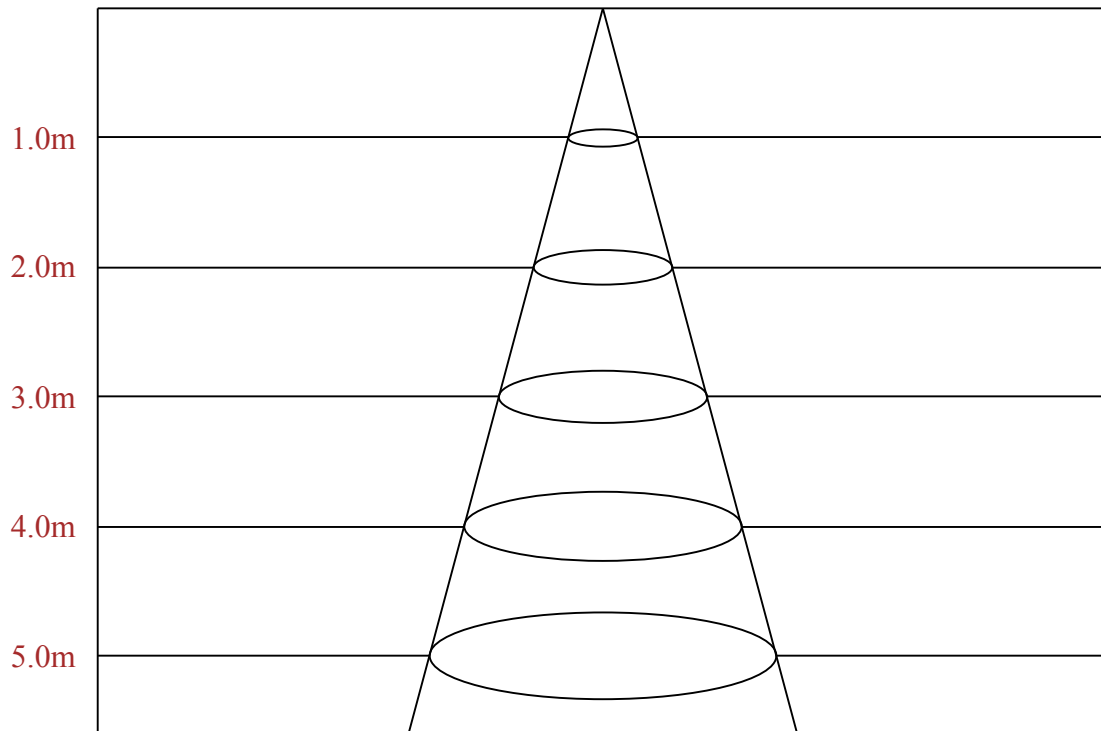
C90/C270: —————

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

:C90/270Left:0.0 Right:0.0

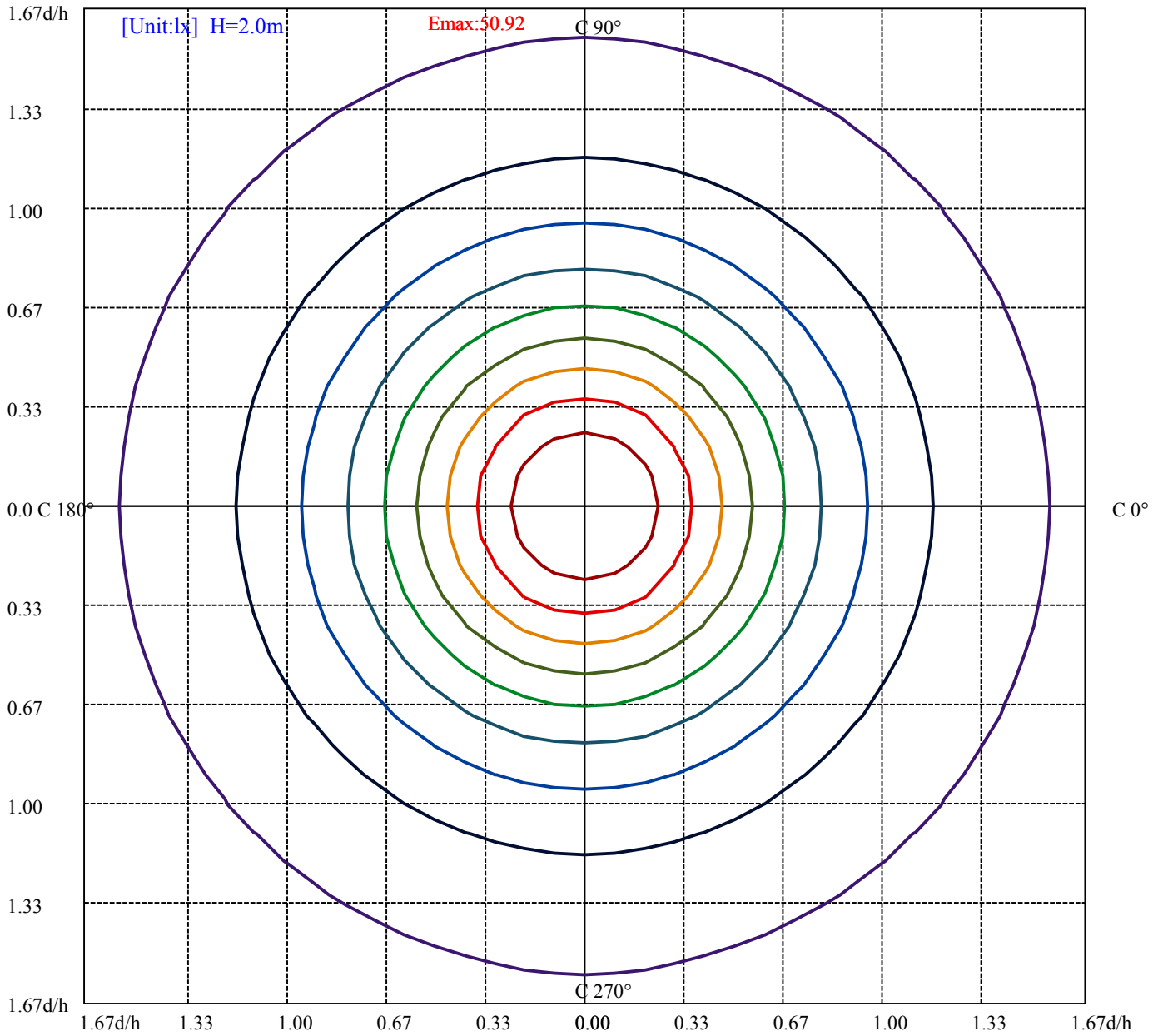
Beam Angle(50%Imax):C0/180Left:166.3 Right:156.3

:C90/270Left:161.0 Right:151.0

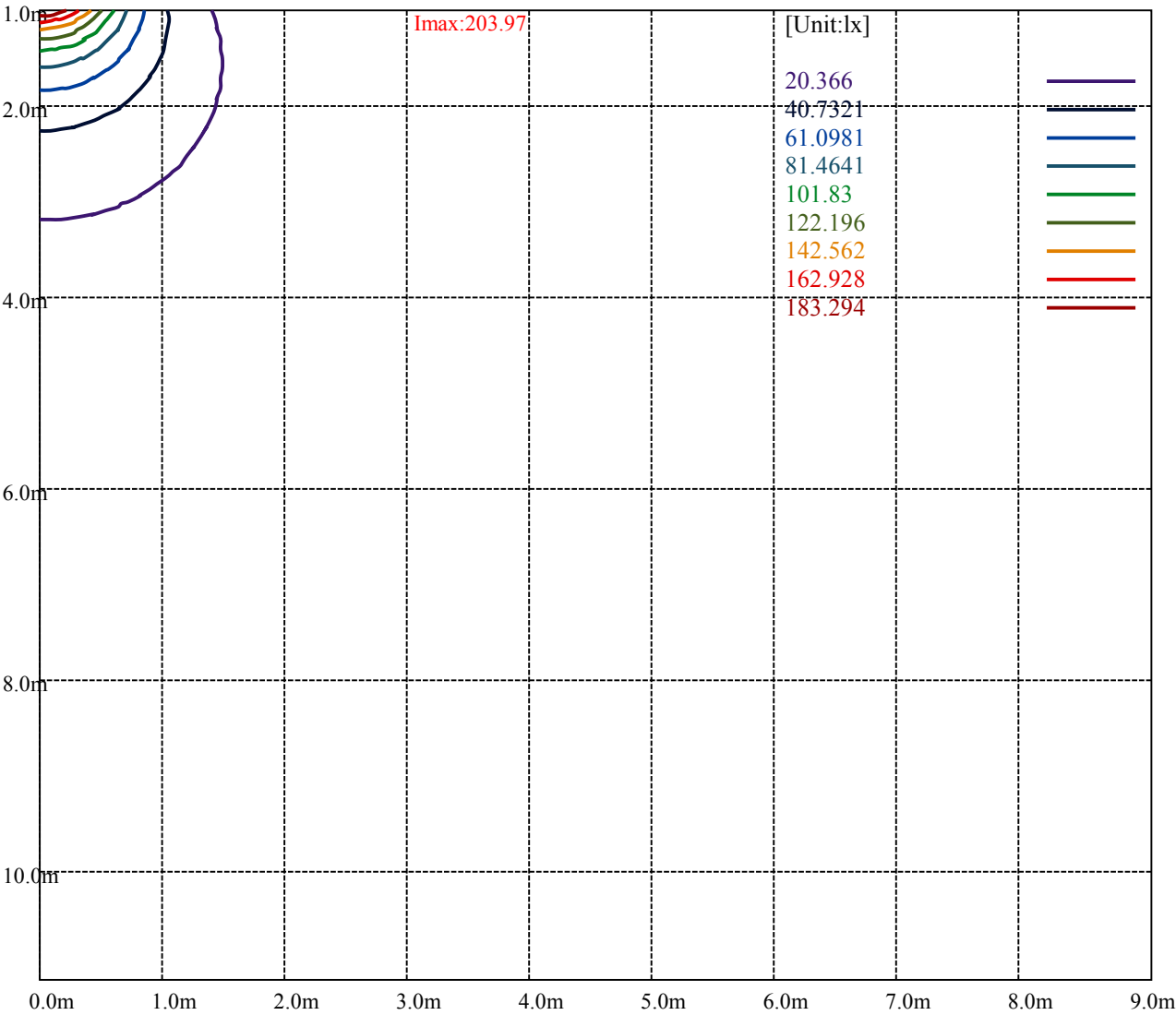


Max , Ave

Beam angle of C60 plane 225.72



(10%Emax) 5.0915	—
(20%Emax) 10.18303	—
(30%Emax) 15.27452	—
(40%Emax) 20.36603	—
(50%Emax) 25.4575	—
(60%Emax) 30.549	—
(70%Emax) 35.6405	—
(80%Emax) 40.732	—
(90%Emax) 45.8235	—



Luminance Table

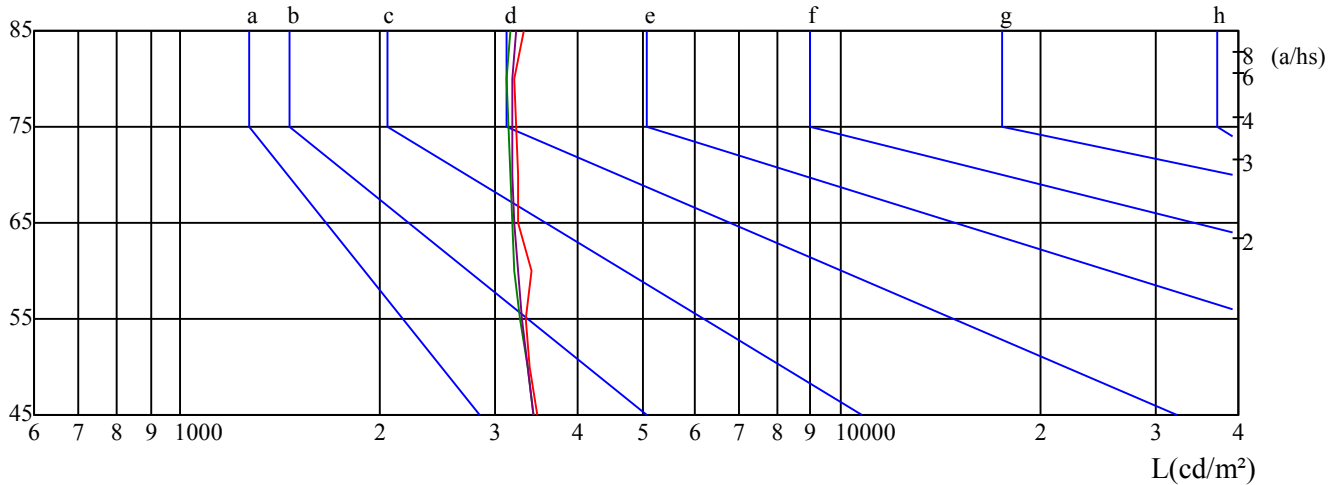
γ	45	50	55	60	65	70	75	80	85
C0	3419	3344	3270	3206	3176	3157	3139	3125	3160
C45	3434	3359	3297	3234	3204	3185	3173	3177	3229
C90	3460	3387	3331	3389	3246	3236	3233	3212	3305

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5258	5374	5303	6719	6921	6792	14199	14847	14505

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 ———

RHOCC	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	1.09	1.09	1.09	1.02	1.02	1.02	0.88	0.88	0.88	0.76	0.76	0.76	0.64	0.64	0.64	0.59
1	0.92	0.87	0.83	0.86	0.81	0.78	0.74	0.71	0.68	0.63	0.60	0.58	0.53	0.51	0.49	0.45
2	0.79	0.72	0.66	0.74	0.67	0.62	0.63	0.58	0.54	0.54	0.50	0.47	0.45	0.42	0.40	0.35
3	0.69	0.60	0.54	0.64	0.57	0.51	0.55	0.49	0.44	0.47	0.42	0.39	0.39	0.36	0.33	0.29
4	0.60	0.52	0.45	0.56	0.48	0.42	0.49	0.42	0.37	0.41	0.36	0.32	0.35	0.31	0.28	0.24
5	0.54	0.45	0.38	0.50	0.42	0.36	0.43	0.37	0.32	0.37	0.32	0.28	0.31	0.27	0.24	0.21
6	0.48	0.39	0.33	0.45	0.37	0.31	0.39	0.32	0.27	0.33	0.28	0.24	0.28	0.24	0.21	0.18
7	0.43	0.34	0.28	0.40	0.33	0.27	0.35	0.29	0.24	0.30	0.25	0.21	0.25	0.21	0.18	0.16
8	0.39	0.31	0.25	0.37	0.29	0.24	0.32	0.26	0.21	0.27	0.22	0.19	0.23	0.19	0.16	0.14
9	0.36	0.28	0.22	0.33	0.26	0.21	0.29	0.23	0.19	0.25	0.20	0.17	0.22	0.17	0.15	0.12
10	0.33	0.25	0.20	0.31	0.24	0.19	0.27	0.21	0.17	0.23	0.18	0.15	0.20	0.16	0.13	0.11

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	203.66	204.74	204.47	202.58	198.71	193.94	186.74	179.54	170.63
15.0	203.66	204.65	204.74	202.13	198.80	193.68	186.75	178.65	169.39
30.0	203.66	204.47	204.38	202.22	198.36	193.14	185.95	178.21	169.04
45.0	203.66	204.65	204.20	201.77	198.00	192.61	185.69	177.52	168.53
60.0	203.66	204.65	204.20	201.86	197.82	191.99	185.07	177.17	168.01
75.0	203.66	204.56	203.66	201.42	197.11	191.55	184.74	176.49	167.25
90.0	203.66	204.56	203.66	201.15	197.02	191.19	184.28	176.39	167.06
105.0	203.66	204.29	203.48	200.61	195.95	190.31	183.68	175.62	166.57
120.0	203.66	204.11	203.12	200.16	195.77	190.04	183.13	175.07	166.19
135.0	203.66	203.66	202.50	199.54	195.33	189.25	182.62	174.39	165.26
150.0	203.66	203.12	202.05	199.63	190.50	189.07	182.18	174.39	164.63
165.0	203.66	202.94	201.78	199.19	194.54	188.90	181.75	173.61	164.04
180.0	203.66	202.94	201.05	197.36	192.23	185.84	178.01	169.37	159.92
195.0	203.66	202.76	201.05	197.63	192.15	186.21	178.65	170.02	160.30
210.0	203.66	202.94	201.14	197.82	193.14	186.49	179.29	170.75	161.40
225.0	203.66	202.76	201.32	198.27	193.69	187.49	180.48	171.77	162.78
240.0	203.66	202.94	201.60	198.81	193.87	188.66	181.39	173.40	163.97
255.0	203.66	203.12	201.96	199.09	194.51	189.04	181.60	174.25	164.38
270.0	203.66	203.21	202.76	199.62	195.77	189.84	182.85	174.77	165.89
285.0	203.66	203.66	202.76	199.90	195.42	189.68	183.50	175.62	173.47
300.0	203.66	204.20	203.12	200.52	199.63	190.93	183.40	175.96	166.82
315.0	203.66	204.11	203.30	200.62	196.23	190.59	183.61	175.37	166.33
330.0	203.66	204.29	203.57	200.44	196.32	190.59	183.79	175.55	166.33
345.0	203.66	204.47	203.12	200.44	196.15	190.33	183.27	174.86	165.47
360.0	203.66	204.74	204.47	202.58	198.71	193.94	186.74	179.54	170.63
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	160.19	149.21	137.42	125.27	113.48	101.79	89.28	76.32	63.63
15.0	159.31	147.89	136.73	124.59	113.07	100.39	88.07	74.57	62.79
30.0	158.88	147.73	135.86	123.63	112.04	99.72	86.86	73.82	62.13
45.0	158.29	146.70	135.29	123.08	111.22	98.64	85.97	73.31	61.99
60.0	157.68	147.00	134.52	122.48	110.63	98.78	85.76	72.83	62.05
75.0	157.03	145.91	134.43	122.59	110.84	98.47	86.36	72.64	62.42
90.0	157.28	146.60	135.38	123.63	112.06	100.30	87.39	73.93	62.80
105.0	156.71	146.23	135.83	124.72	114.24	101.25	88.44	75.89	63.35
120.0	156.33	145.75	134.55	123.34	111.87	99.95	87.40	74.94	62.84
135.0	155.23	144.58	133.39	121.66	110.92	99.19	86.75	74.12	62.49
150.0	155.14	143.86	133.03	121.48	110.11	98.29	87.10	74.66	61.95
165.0	154.47	143.64	132.20	121.28	109.39	98.57	86.58	74.42	61.98
180.0	149.66	138.68	127.07	115.37	104.67	93.24	81.45	69.30	57.87
195.0	150.41	139.34	127.65	115.86	104.98	94.18	81.86	70.44	58.38
210.0	151.33	140.36	129.12	116.80	106.19	94.95	83.35	71.30	59.34
225.0	152.18	141.85	130.26	118.41	107.44	96.31	85.08	73.04	61.00
240.0	153.82	143.32	131.46	120.06	109.01	97.88	86.39	74.44	62.23
255.0	155.05	144.29	132.72	120.98	109.95	99.18	87.71	84.48	63.22
270.0	156.29	144.98	134.04	130.81	110.89	99.59	88.46	75.72	64.24
285.0	155.90	145.96	133.68	122.48	111.28	100.17	88.35	76.16	63.88
300.0	156.78	145.84	134.10	123.16	111.15	100.40	87.76	76.19	63.73
315.0	156.84	145.20	134.37	122.46	110.47	99.37	87.37	75.56	62.75
330.0	155.95	145.02	132.76	121.48	110.83	97.94	86.39	73.68	62.13
345.0	155.09	144.45	132.55	120.66	108.94	96.78	84.25	71.46	61.36
360.0	160.19	149.21	137.42	125.27	113.48	101.79	89.28	76.32	63.63

AFX SYDP10LAJUDSN-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	59.49	63.81	70.47	76.32	82.26	87.84	93.06	97.38	101.52
15.0	59.82	64.86	71.25	77.54	82.94	88.34	93.55	98.14	102.37
30.0	60.51	66.09	72.20	78.32	84.34	89.65	94.50	99.36	103.13
45.0	61.27	66.75	73.22	79.33	84.90	90.29	95.32	99.81	103.85
60.0	61.96	67.44	74.17	80.01	85.76	91.14	95.90	100.57	104.61
75.0	62.15	67.80	74.16	80.35	85.91	91.11	95.96	100.44	104.30
90.0	62.35	67.74	73.57	80.12	85.50	90.62	95.46	99.77	103.62
105.0	62.00	67.20	72.93	78.94	84.31	89.42	94.17	98.47	101.87
120.0	60.69	65.53	71.62	77.54	83.10	88.21	93.05	97.17	101.29
135.0	58.99	63.56	69.83	75.82	81.46	86.84	91.49	96.32	100.08
150.0	57.38	61.59	67.50	73.77	79.67	85.22	90.24	95.07	99.10
165.0	55.90	59.21	65.47	71.82	77.81	83.18	88.46	93.65	98.03
180.0	55.89	60.93	67.05	73.62	79.29	84.87	90.00	95.04	99.27
195.0	54.78	59.28	65.67	72.59	78.08	83.57	89.15	94.00	98.41
210.0	54.49	58.90	64.56	71.12	77.06	82.81	88.21	93.15	97.83
225.0	54.89	58.39	64.59	71.06	77.08	82.56	84.45	93.25	97.47
240.0	55.58	59.09	60.25	71.57	77.67	82.88	88.36	93.30	97.88
255.0	56.68	59.82	65.56	72.01	78.11	83.76	89.05	93.62	98.20
270.0	57.60	60.83	66.93	73.21	79.04	85.05	89.99	94.92	99.32
285.0	58.24	61.91	68.01	74.19	80.37	85.75	90.76	95.87	99.99
300.0	59.16	63.37	69.65	75.57	81.66	87.13	92.24	97.08	101.11
315.0	59.89	64.72	70.81	76.90	82.81	88.36	93.28	97.76	101.96
330.0	60.61	65.53	71.62	77.97	83.70	89.25	94.09	98.65	102.59
345.0	60.91	66.10	72.54	78.53	84.34	89.89	94.81	99.19	102.86
360.0	59.49	63.81	70.47	76.32	82.26	87.84	93.06	97.38	101.52
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	105.30	108.35	110.96	113.66	114.92	114.56	109.34	96.84	81.27
15.0	105.88	108.94	111.28	113.70	114.69	113.07	104.80	92.47	77.00
30.0	106.64	109.52	111.68	113.92	113.47	107.81	98.64	86.32	71.39
45.0	107.18	109.96	112.12	113.01	108.34	100.98	91.18	78.43	66.21
60.0	107.76	110.36	111.98	109.01	103.00	94.38	83.69	71.48	61.69
75.0	107.52	109.59	108.33	105.19	98.20	89.23	77.66	64.93	55.42
90.0	105.87	106.94	106.05	101.20	93.40	85.14	74.47	59.12	50.15
105.0	103.85	104.74	102.95	95.60	86.46	79.03	70.52	58.24	45.70
120.0	104.07	106.22	104.70	98.33	89.10	78.52	68.93	54.41	43.83
135.0	103.31	105.19	105.46	101.52	93.46	81.20	68.30	53.98	42.79
150.0	101.87	103.75	104.65	102.05	95.25	84.69	71.80	57.65	42.07
165.0	101.87	103.93	103.93	103.04	97.94	89.62	77.73	62.43	43.74
180.0	103.05	105.48	106.82	105.83	100.80	93.87	81.09	64.53	45.27
195.0	102.28	105.34	107.50	108.58	106.51	105.52	88.88	73.40	52.17
210.0	101.70	102.77	107.63	109.43	108.71	103.40	94.86	79.76	58.27
225.0	101.52	105.02	107.71	109.69	109.60	106.37	98.82	85.70	61.90
240.0	101.92	105.06	107.94	110.09	110.54	107.67	101.29	90.07	66.36
255.0	101.96	105.46	108.24	110.66	111.47	109.23	102.95	92.10	69.14
270.0	103.18	106.14	108.74	111.61	112.69	110.35	104.52	94.11	74.56
285.0	103.85	106.89	109.49	112.45	113.52	111.28	105.37	94.26	74.91
300.0	104.79	107.66	110.08	113.04	114.56	112.59	106.40	95.02	75.66
315.0	105.55	108.50	110.47	113.42	114.86	113.24	107.51	93.91	75.65
330.0	106.08	108.86	111.27	113.69	115.03	113.51	108.41	94.27	73.85
345.0	106.35	109.03	111.53	113.68	115.02	113.41	106.70	92.84	71.38
360.0	105.30	108.35	110.96	113.66	114.92	114.56	109.34	96.84	81.27

Intensity data(cd)

C/γ(°)	180.0
0.0	48.60
15.0	61.62
30.0	59.25
45.0	57.41
60.0	54.96
75.0	51.92
90.0	50.51
105.0	49.37
120.0	47.51
135.0	47.45
150.0	45.48
165.0	44.18
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	48.60