

Test Report Number:	LCZP21030009	Total Page:11 Version:1.0
Applicant Name:	FOSHAN LEDKEY LIGHTING CO.,LTD.	
Applicant Address:	Building 1, No.5 Nanda Road Danzao, Nanhai, Foshan, China	
Test item:	LED outdoor fixture	
Model / Type Reference:	OW0146-12-930-BK, OW0146-12-930-WH	
Date of Issue:	2021-03-05	
Testing Laboratory:	LCTECH Guangdong Testing Services Co., Ltd. 2/F., Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China Tel:+86-760-22833366 Fax:+86-760-22833399 E-mail:Service@lccert.com http://www.lccert.com	
Test Sites:	1/F., Building I, Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China	
Test Specification:	Photometric test (According to IES LM-79-08)	
Report Template No.:	LC-RT-PL-006 Rev.1.4	
Test Result:	See the following pages	
Compiled by:	Reviewed by:	
2021-03-05 PengkangLiang	2021-03-05 Lin Qiu	
_____	_____	
Date Name Signature	Date Name Signature	
Remark:		
OW0146-12-930-BK and OW0146-12-930-WH are the same except the model number and the finish color. Model OW0146-12-930-BK was selected to the test.		
The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of the examination of the product sample submitted by the applicant. A general statement concerning the quality of the products from the series manufacture cannot be derived therefore.		

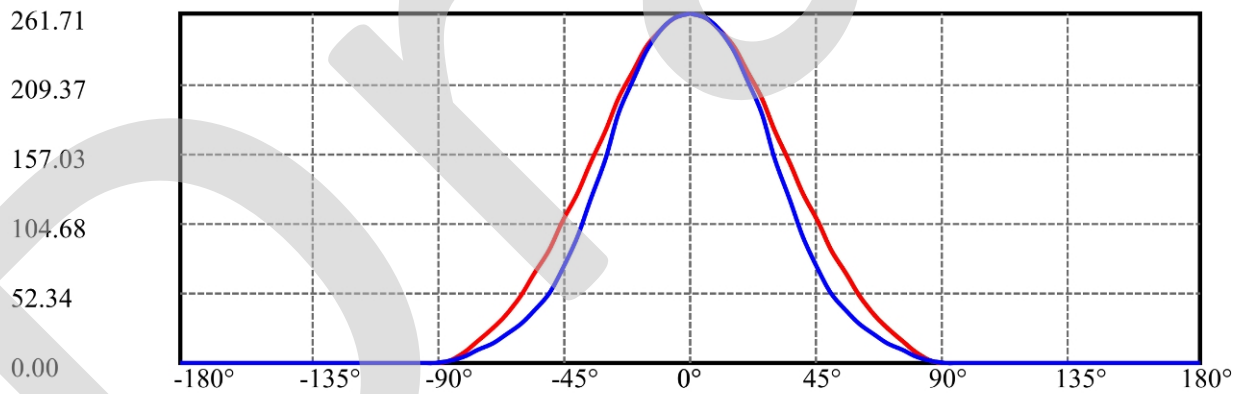
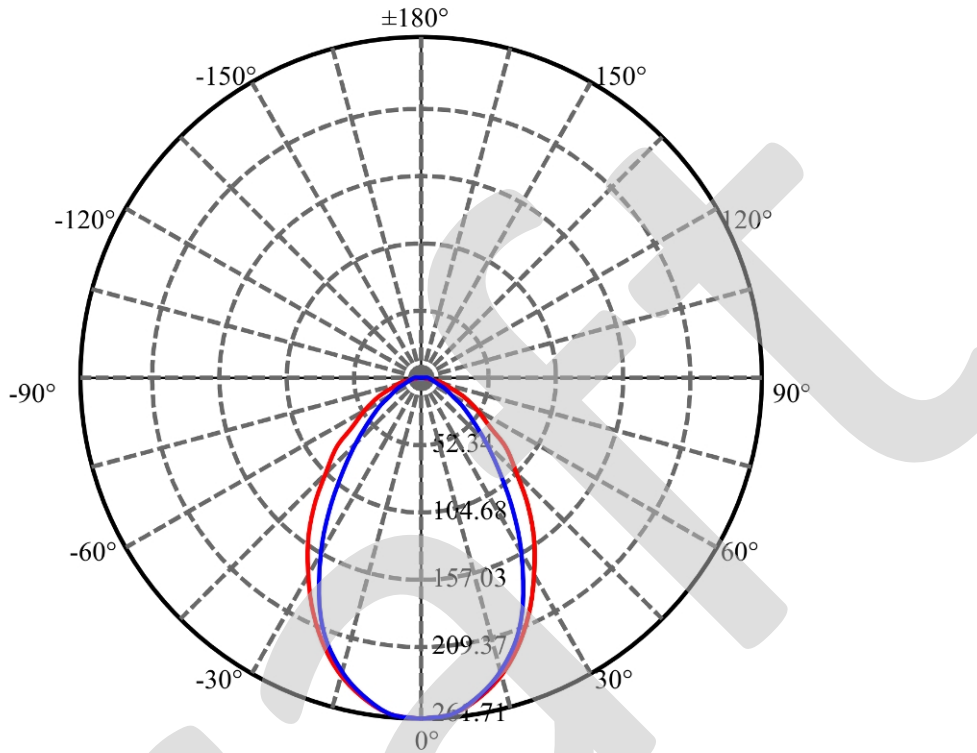
Sample Description			
Luminaire Type	LED outdoor fixture	Model/Type	OW0146-12-930-BK
Input Type	<input checked="" type="checkbox"/> AC <input type="checkbox"/> DC	Rated Voltage	120-277VAC, 50/60Hz
Rated Wattage	12 W	Lamp Rated Flux	Not Provided
Lamp Type	LED	Lamp Model	Not Provided
Power Supply Type	LED driver	Power Supply Model	Not Provided
Luminous Length	120mm	Luminous Width	70 mm
Luminous Diameter	N A	Luminous Height	0 mm
Sample Code of lab.	210302102001		

Test Condition			
Temperature	25.0°C	Humidity	65%
Test Equipment	LC-I-902 GMS-2000	Test Mode	C-Gamma
Test Date	2021-03-04	Test Method	Absolutely photometric
Azimuth (C)	15	Elevation (Gamma)	5
Test distance	30.13 m	Uncertainty	Considered
Stabilization	2 hours		

Characteristics			
Input Voltage	120.07 V	Input Current	0.096 A
Wattage	11.15 W	Power Factor	0.970
Total lumens	424.38 lm	Luminous Efficacy	38.06 lm/W
Luminaire Efficiency	N.A	Central Intensity	261.709 cd
Max intensity	261.709 cd	Angle of max intensity	C=0,Gamma=0
Maximum S/H	C0_180= 1.04,C90_270= 0.98	CIE Type	Direct lighting

Luminance Data (cd/m ²)									
Gamma	45	50	55	60	65	70	75	80	85
C0	17660	15572	13714	11882	10282	8770	7254	5544	3112
C45	15103	12504	10520	8846	7530	6371	5348	4079	2296
C90	11799	9640	8083	6827	5903	5117	4200	3193	1684

Light Distribution Curve(cd)



C0(Max): —————

C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:69.6 Right:69.6

:C90/270Left:61.6 Right:61.6

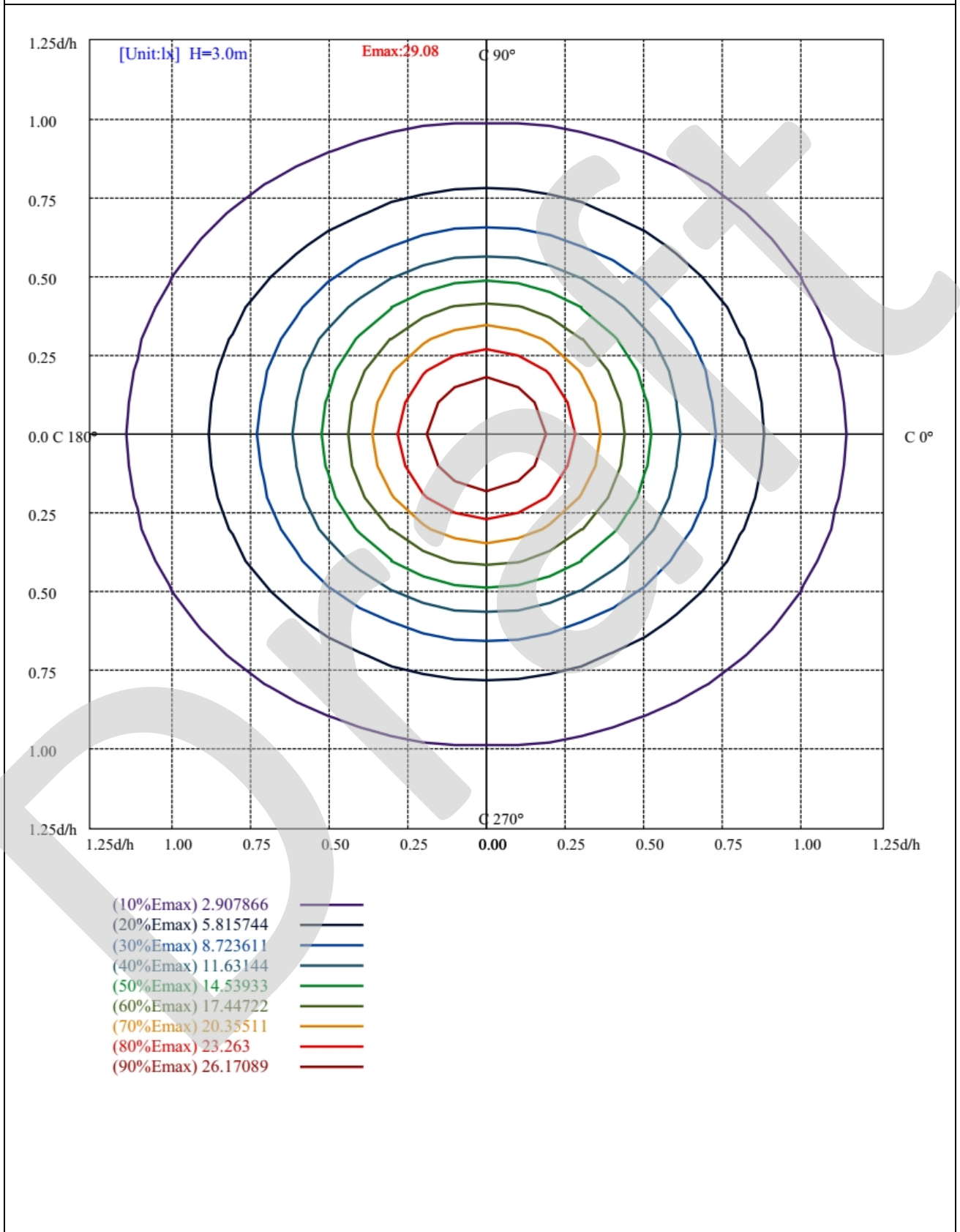
Beam Angle(50%Imax):C0/180Left:39.2 Right:39.2

:C90/270Left:33.5 Right:33.5

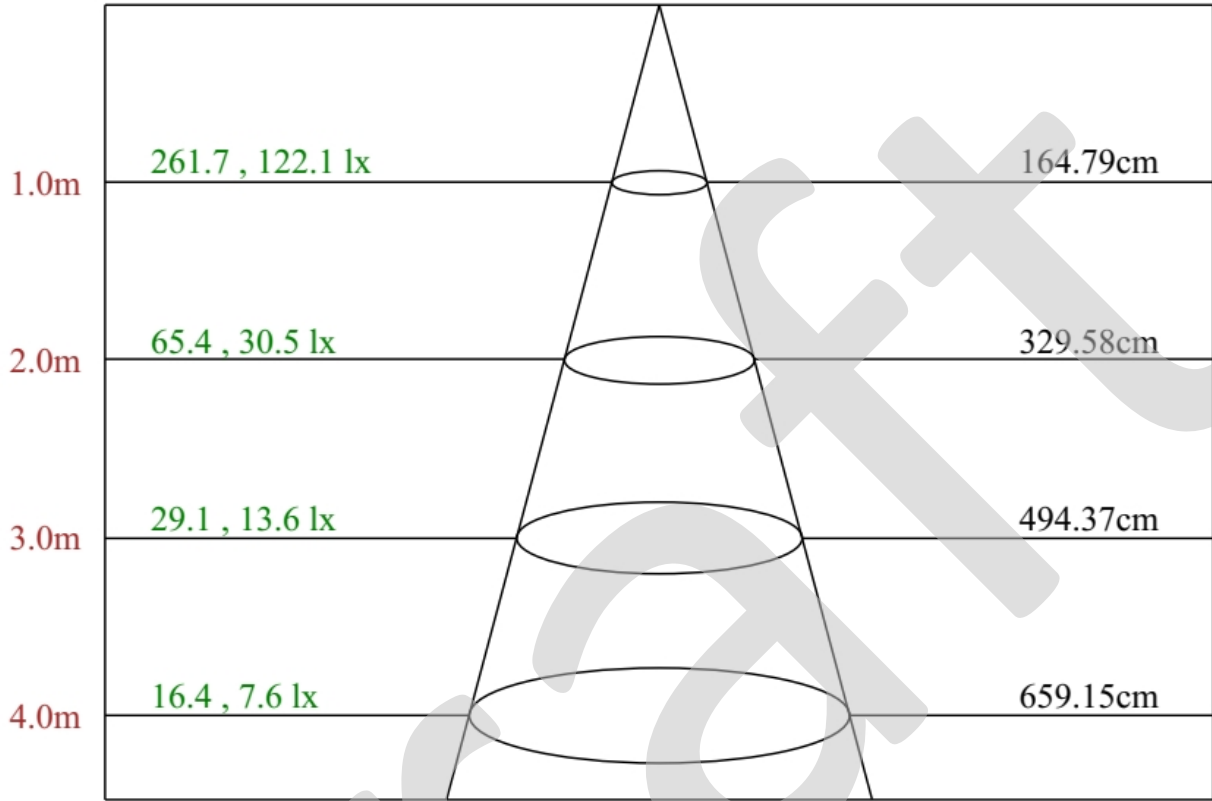
Zonal flux distribution table

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	261.709	0.000	0	0.00%	0.00%
5.0	258.796	6.222	6.222	1.47%	1.47%
10.0	249.898	18.198	24.42	4.29%	5.75%
15.0	235.612	28.800	53.22	6.79%	12.54%
20.0	216.076	37.225	90.446	8.77%	21.31%
25.0	192.433	42.845	133.291	10.10%	31.41%
30.0	165.782	45.332	178.623	10.68%	42.09%
35.0	137.326	44.635	223.258	10.52%	52.61%
40.0	111.412	41.500	264.758	9.78%	62.39%
45.0	88.280	36.975	301.733	8.71%	71.10%
50.0	67.861	31.551	333.283	7.43%	78.53%
55.0	51.635	25.982	359.265	6.12%	84.66%
60.0	38.562	20.849	380.114	4.91%	89.57%
65.0	27.868	16.149	396.264	3.81%	93.37%
70.0	19.306	11.945	408.208	2.81%	96.19%
75.0	12.218	8.240	416.448	1.94%	98.13%
80.0	6.220	4.934	421.382	1.16%	99.29%
85.0	1.769	2.171	423.553	0.51%	99.81%
90.0	0.011	0.487	424.04	0.11%	99.92%
95.0	0.000	0.003	424.043	0.00%	99.92%
100.0	0.000	0.000	424.043	0.00%	99.92%
105.0	0.000	0.000	424.043	0.00%	99.92%
110.0	0.000	0.000	424.043	0.00%	99.92%
115.0	0.000	0.000	424.043	0.00%	99.92%
120.0	0.000	0.000	424.043	0.00%	99.92%
125.0	0.000	0.000	424.043	0.00%	99.92%
130.0	0.000	0.000	424.043	0.00%	99.92%
135.0	0.004	0.001	424.044	0.00%	99.92%
140.0	0.008	0.002	424.046	0.00%	99.92%
145.0	0.030	0.006	424.052	0.00%	99.92%
150.0	0.114	0.021	424.074	0.00%	99.93%
155.0	0.235	0.044	424.118	0.01%	99.94%
160.0	0.386	0.065	424.183	0.02%	99.95%
165.0	0.507	0.074	424.256	0.02%	99.97%
170.0	0.602	0.066	424.322	0.02%	99.99%
175.0	0.658	0.045	424.367	0.01%	100.00%
180.0	0.340	0.012	424.379	0.00%	100.00%

ISO illuminance diagram(Lux)



Lux distance Curve



Max , Ave

Beam angle of C0 plane 78.97

Utilization factor table

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.07	1.04	1.01	1.05	1.02	0.99	1.01	0.98	0.96	0.97	0.95	0.93	0.93	0.92	0.90	0.88
2	0.96	0.90	0.86	0.94	0.89	0.85	0.91	0.86	0.83	0.88	0.84	0.81	0.85	0.82	0.79	0.77
3	0.86	0.80	0.74	0.85	0.79	0.73	0.82	0.77	0.72	0.79	0.75	0.71	0.77	0.73	0.70	0.68
4	0.78	0.71	0.65	0.77	0.70	0.65	0.75	0.69	0.64	0.72	0.67	0.63	0.70	0.66	0.62	0.60
5	0.71	0.63	0.58	0.70	0.63	0.57	0.68	0.62	0.57	0.66	0.61	0.56	0.65	0.60	0.56	0.54
6	0.65	0.57	0.52	0.64	0.57	0.52	0.63	0.56	0.51	0.61	0.55	0.51	0.59	0.54	0.50	0.48
7	0.60	0.52	0.47	0.59	0.52	0.47	0.58	0.51	0.46	0.56	0.50	0.46	0.55	0.50	0.46	0.44
8	0.55	0.48	0.43	0.55	0.47	0.42	0.53	0.47	0.42	0.52	0.46	0.42	0.51	0.46	0.42	0.40
9	0.51	0.44	0.39	0.51	0.44	0.39	0.50	0.43	0.39	0.49	0.43	0.39	0.48	0.42	0.38	0.37
10	0.48	0.41	0.36	0.47	0.40	0.36	0.46	0.40	0.36	0.46	0.40	0.36	0.45	0.39	0.35	0.34

Intensity data(cd)									
$C/\gamma(^{\circ})$	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	261.71	259.03	250.81	237.58	219.62	198.18	175.04	150.91	127.15
15.0	261.71	259.73	251.21	238.37	221.05	199.96	176.81	152.75	129.15
30.0	261.71	259.55	251.99	239.21	222.29	200.69	176.84	152.45	127.97
45.0	261.71	260.62	253.56	240.97	223.95	202.94	177.58	150.05	123.43
60.0	261.71	260.80	254.43	241.69	225.04	203.02	175.62	147.05	118.57
75.0	261.71	261.62	255.30	244.13	227.38	203.58	174.11	144.54	116.44
90.0	261.71	261.34	254.95	244.08	227.56	204.55	174.78	143.91	115.15
105.0	261.71	261.44	255.33	243.57	227.34	203.92	175.84	146.40	118.41
120.0	261.71	261.89	255.79	244.95	229.01	206.87	179.63	150.85	122.70
135.0	261.71	261.89	256.51	245.49	229.36	208.67	184.62	157.10	130.13
150.0	261.71	261.89	256.69	245.47	229.68	209.33	186.61	162.06	136.51
165.0	261.71	261.71	256.05	245.45	229.93	209.39	186.83	163.27	138.89
180.0	261.71	258.76	249.91	236.51	218.02	197.02	173.97	149.75	126.97
195.0	261.71	258.12	249.14	235.14	216.30	194.85	171.42	147.46	123.94
210.0	261.71	257.93	247.49	233.09	213.47	190.79	166.22	140.21	115.28
225.0	261.71	257.63	247.13	231.73	210.36	185.28	157.21	130.31	101.70
240.0	261.71	257.16	246.15	228.59	205.56	177.54	148.69	114.29	86.27
255.0	261.71	256.95	244.87	226.83	201.84	172.82	138.13	103.80	78.08
270.0	261.71	256.32	244.08	225.09	197.70	169.66	130.76	99.08	74.15
285.0	261.71	255.78	243.57	223.33	197.44	168.73	132.81	99.45	75.20
300.0	261.71	255.15	242.31	223.91	199.13	170.80	141.65	106.67	81.16
315.0	261.71	255.06	242.94	225.08	201.75	175.23	147.44	120.92	91.49
330.0	261.71	255.32	243.55	226.21	205.22	180.59	166.53	127.84	104.48
345.0	261.71	255.41	243.81	228.20	206.83	184.00	159.62	134.69	110.67
360.0	261.71	259.03	250.81	237.58	219.62	198.18	175.04	150.91	127.15
$C/\gamma(^{\circ})$	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	104.81	83.81	65.76	49.50	36.37	24.93	15.73	8.22	2.41
15.0	106.08	84.63	66.32	50.44	36.53	24.95	15.62	7.99	2.15
30.0	104.31	82.44	63.18	47.25	34.38	23.76	14.85	7.29	1.98
45.0	98.07	77.06	59.04	43.65	31.69	21.55	13.58	6.52	1.63
60.0	93.64	71.07	53.96	39.95	29.03	19.93	12.47	6.10	1.46
75.0	89.25	68.38	51.35	38.08	27.83	19.31	12.17	6.13	1.56
90.0	87.94	67.48	51.23	37.80	27.85	19.54	12.14	6.30	1.64
105.0	90.70	69.10	52.60	38.92	28.62	20.05	12.94	6.56	2.01
120.0	97.01	74.42	56.48	42.08	30.70	21.59	13.94	7.47	2.46
135.0	104.88	83.01	63.24	47.66	35.17	24.33	15.86	8.66	3.01
150.0	112.51	89.97	70.63	53.93	40.06	28.29	18.52	10.22	3.74
165.0	115.97	94.24	74.97	57.53	43.37	31.14	20.36	11.60	4.66
180.0	104.99	84.35	66.39	50.30	36.63	25.46	15.82	7.95	2.14
195.0	101.33	80.59	63.09	47.84	34.64	24.05	14.81	7.63	2.06
210.0	92.79	72.27	54.36	39.96	28.35	19.44	12.24	6.39	2.07
225.0	77.61	58.14	42.83	30.70	21.55	14.85	9.42	5.07	1.45
240.0	64.79	46.86	33.40	24.21	17.20	12.10	7.55	4.00	1.09
255.0	56.20	39.45	28.47	20.69	15.01	10.62	6.77	3.39	0.92
270.0	52.23	36.62	26.66	19.54	14.06	9.86	6.12	3.01	0.82
285.0	53.14	37.56	27.35	19.78	14.22	9.84	8.02	2.92	0.64
300.0	60.21	42.72	30.33	25.41	15.49	10.75	6.56	3.28	0.64
315.0	78.28	51.85	37.63	26.61	18.50	12.48	7.65	3.55	0.64
330.0	82.58	62.87	46.26	33.58	23.63	15.70	9.22	4.20	0.64
345.0	89.40	69.76	53.69	40.09	27.94	18.81	10.87	4.84	0.64
360.0	104.81	83.81	65.76	49.50	36.37	24.93	15.73	8.22	2.41

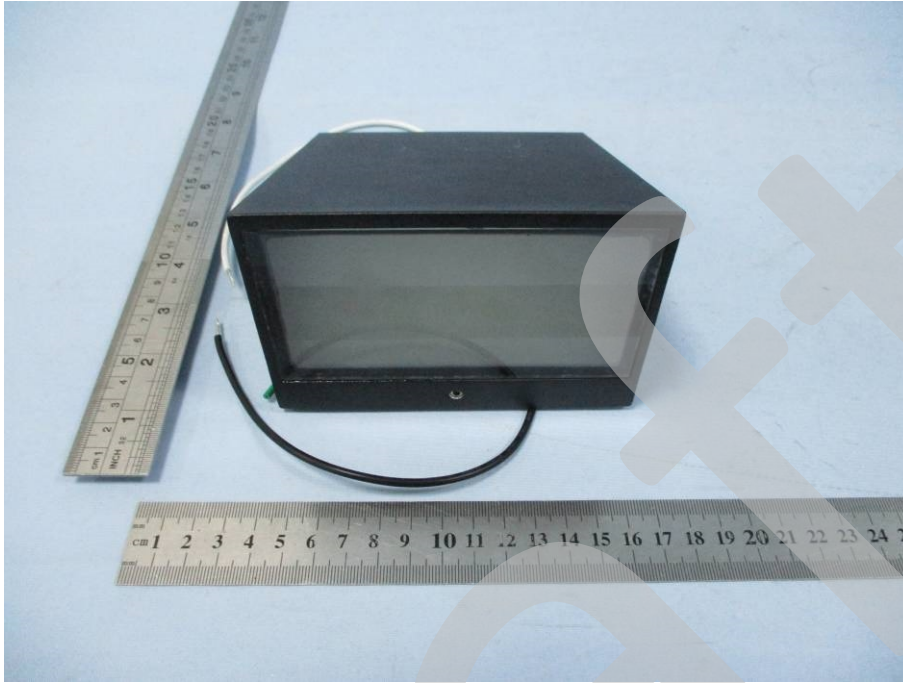
Intensity data(cd)									
<i>Cl</i> (°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
285.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
345.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Cl</i> (°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.09	0.09	0.27	0.45	0.54	0.63	0.63
15.0	0.00	0.09	0.09	0.18	0.27	0.45	0.54	0.63	0.72
30.0	0.00	0.00	0.09	0.18	0.27	0.36	0.45	0.63	0.63
45.0	0.00	0.00	0.09	0.09	0.27	0.45	0.54	0.63	0.72
60.0	0.00	0.00	0.09	0.09	0.27	0.36	0.55	0.64	0.64
75.0	0.00	0.00	0.00	0.09	0.18	0.37	0.55	0.64	0.73
90.0	0.00	0.00	0.00	0.09	0.18	0.37	0.55	0.64	0.64
105.0	0.00	0.00	0.00	0.18	0.18	0.46	0.55	0.64	0.73
120.0	0.00	0.00	0.00	0.09	0.18	0.36	0.55	0.64	0.73
135.0	0.00	0.00	0.09	0.18	0.18	0.36	0.55	0.64	0.64
150.0	0.09	0.00	0.00	0.18	0.27	0.37	0.55	0.64	0.64
165.0	0.00	0.09	0.09	0.09	0.27	0.46	0.46	0.64	0.73
180.0	0.00	0.00	0.00	0.09	0.18	0.27	0.45	0.54	0.63
195.0	0.00	0.00	0.00	0.09	0.27	0.36	0.36	0.54	0.63
210.0	0.00	0.00	0.00	0.00	0.18	0.36	0.45	0.54	0.63
225.0	0.00	0.00	0.00	0.09	0.18	0.36	0.45	0.54	0.63
240.0	0.00	0.00	0.00	0.09	0.27	0.36	0.55	0.64	0.64
255.0	0.00	0.00	0.00	0.09	0.27	0.37	0.46	0.55	0.64
270.0	0.00	0.00	0.00	0.18	0.18	0.37	0.55	0.55	0.64
285.0	0.00	0.00	0.00	0.09	0.27	0.46	0.55	0.64	0.64
300.0	0.00	0.00	0.00	0.09	0.27	0.36	0.55	0.55	0.64
315.0	0.00	0.00	0.09	0.09	0.18	0.36	0.46	0.55	0.64
330.0	0.00	0.00	0.00	0.09	0.27	0.46	0.55	0.55	0.64
345.0	0.00	0.00	0.00	0.18	0.27	0.37	0.46	0.64	0.64
360.0	0.00	0.00	0.09	0.09	0.27	0.45	0.54	0.63	0.63



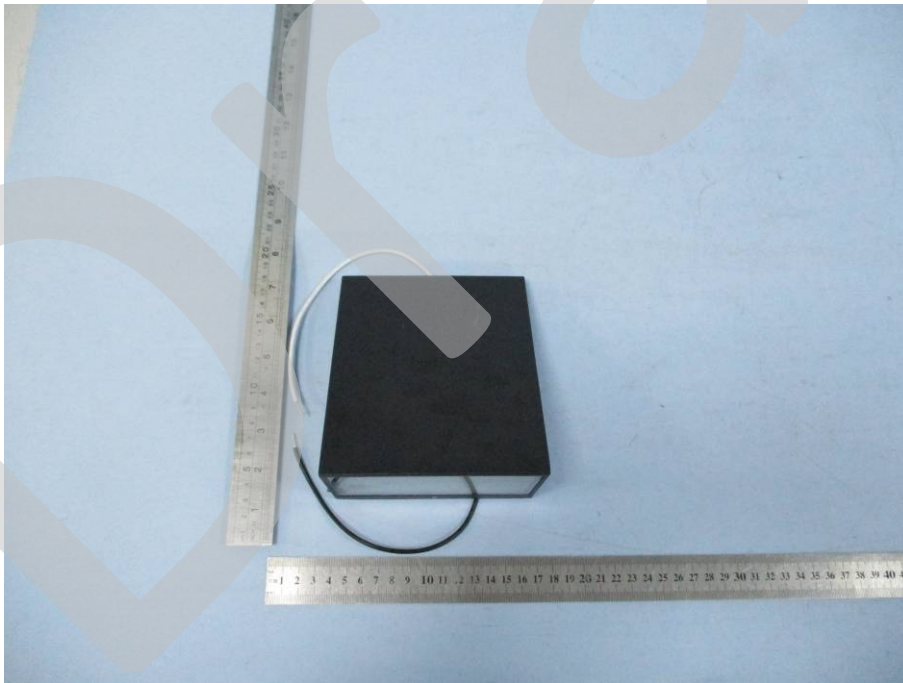
Intensity data(cd)

C/γ(°)	180.0
0.0	0.71
15.0	0.63
30.0	0.63
45.0	0.72
60.0	0.64
75.0	0.73
90.0	0.64
105.0	0.73
120.0	0.64
135.0	0.73
150.0	0.64
165.0	0.73
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	0.71

Appendix A Product Photo



Picture 1



Picture 2

****End of test report****