

APPLICATION FOR TEST REPORT

On Behalf of

Interlight Enjoy Innovation B.V.

IP44 Indoor batten Basic

Model No.: IL-BN120K4

Prepared for : Interlight Enjoy Innovation B.V.
Smalriemseweg 6,4112 NC Beusichem,The Netherlands

Prepared By : Shenzhen TCT Testing Technology Co., Ltd.
1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong,
Baoan District, Shenzhen, Guangdong, China

Date of Test: Jan. 09, to Jan. 17, 2019
Date of Report: Jan. 17, 2019
Report Number: TCT190109S010

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Test Report IESNA LM 79: 2008 ELECTRICAL AND PHOTOMETRIC MEASUREMENTS OF SOLID-STATE LIGHTING PRODUCTS	
Report reference No	TCT190109S010
Tested by (+ signature)	Moon Ding
Approved by (+ signature)	Thomas
Date of issue	Jan. 17, 2019
Testing Laboratory Name	Shenzhen TCT Testing Technology Co., Ltd.
Address	1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China
Testing location	CBTL ☐ CCATL ☐ SMT ☐ TMP ☐
Address	Same as above.
Applicant's Name.....	Interlight Enjoy Innovation B.V.
Address	Smalriemseweg 6,4112 NC Beusichem, The Netherlands
Manufacturer	Guangdong Mage Intelligent Lighting Co. Ltd.
Address	Block 2, No.1 Bei Shui Industrial Area 2, Baian Road, Bei Shui Village Committee, Xingtan, Shunde, Guangdong Foshan, China
Test item description	IP44 Indoor batten Basic
Trademark	
Model and/or type reference	IL-BN120K4



IES LM-79-08			
Clause	Requirement – Test	Measuring result – Remark	Verdict
2.0	Ambient Conditions		P
2.1	General		P
2.2	Air Temperature		P
2.3	Thermal Condition for Mounting SSL Products		P
2.4	Air Movement		P
3.0	Power Supply Characteristics		P
3.1	Waveshape of AC power supply		P
3.2	Voltage regulation		P
4.0	Seasoning of SSL Product		N/A
	No seasoning of SSL product		P
5.0	Stabilisation of SSL Product		P
	SSL product has sufficiently stabilised before measurement		P
6.0	Operation Orientation		P
	SSL product shall be stabilized and measured in intended operating orientation	As normal working	P
7.0	Electrical Settings		P
	SSL product shall be operated at rated voltage		P
	SSL product with dimming capability are tested at maximum input power condition		N/A
	SSL product with different modes are measured in all relevant modes		N/A
8.0	Electrical Instrumentations		P
8.1	Circuits		P
8.2	Uncertainties		N/A
9.0	Test methods for Luminous Flux measurement		P
9.1	Integrating sphere with a spectroradiometer (Sphere-spectroradiometer system)		N/A
9.2	Integrating sphere with a photometer head (Sphere-photometer system)		N/A
9.3	Goniophotometer		P
10.0	Luminous Intensity Distribution		P
	Reporting acc. to IEC LM-63		P
11.0	Luminous Efficacy		P
	Calculation		P
12.0	Test Methods for Color Characteristics of SSL Products		P
	Measurements		P
13.0	Uncertainty statement		N/A

Sample No.: IL-BN120K4

Sample Name: IP44 Indoor batten Basic

Test Results:

Test item	Results
Voltage (V)	240.0
Current (A)	0.171
Power Factor	0.971
Power (W)	39.8
Luminous flux (lm)	4262.3
Luminous Efficiency(lm/W)	107.2
Luminous Intensity Distribution	See attached figure 2

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Figure 1:

Zonal flux distribution table

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Sum/Lum(%)
0.0	1289.233	.000	.000	.000%	.000%
5.0	1283.020	30.751	30.751	.721%	.721%
10.0	1264.301	91.126	121.876	2.138%	2.859%
15.0	1233.687	148.179	270.055	3.477%	6.336%
20.0	1191.065	199.834	469.889	4.688%	11.024%
25.0	1139.009	244.382	714.271	5.734%	16.758%
30.0	1077.724	280.530	994.800	6.582%	23.340%
35.0	1008.517	307.214	1302.014	7.208%	30.547%
40.0	934.268	324.139	1626.153	7.605%	38.152%
45.0	853.276	330.978	1957.131	7.765%	45.917%
50.0	769.655	327.937	2285.068	7.694%	53.611%
55.0	682.758	315.803	2600.871	7.409%	61.021%
60.0	593.954	295.108	2895.979	6.924%	67.944%
65.0	504.674	267.078	3163.058	6.266%	74.210%
70.0	414.508	232.743	3395.801	5.461%	79.671%
75.0	328.688	194.260	3590.060	4.558%	84.229%
80.0	250.639	155.012	3745.072	3.637%	87.865%
85.0	185.888	118.615	3863.687	2.783%	90.648%
90.0	139.388	89.063	3952.750	2.090%	92.738%
95.0	109.138	68.048	4020.798	1.597%	94.334%
100.0	88.488	53.700	4074.498	1.260%	95.594%
105.0	72.627	43.110	4117.608	1.011%	96.606%
110.0	60.525	34.804	4152.412	.817%	97.422%
115.0	50.299	28.061	4180.473	.658%	98.081%
120.0	41.505	22.318	4202.791	.524%	98.604%
125.0	33.978	17.448	4220.238	.409%	99.013%
130.0	27.314	13.327	4233.565	.313%	99.326%
135.0	21.679	9.900	4243.465	.232%	99.558%
140.0	16.684	7.103	4250.568	.167%	99.725%
145.0	12.371	4.848	4255.416	.114%	99.839%
150.0	8.873	3.128	4258.544	.073%	99.912%
155.0	5.992	1.881	4260.425	.044%	99.956%
160.0	3.886	1.036	4261.461	.024%	99.981%
165.0	2.256	.506	4261.968	.012%	99.993%
170.0	1.346	.214	4262.182	.005%	99.998%
175.0	.966	.083	4262.264	.002%	99.999%
180.0	1.092	.025	4262.289	.001%	100.000%

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Zonal flux distribution table

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	994.80	23.34%
0-40	1626.15	38.15%
0-60	2895.98	67.94%
0-90	3952.75	92.74%
0-120	4202.79	98.60%
0-180	4262.29	100.00%
60-90	1351.88	31.72%
90-120	339.10	7.96%
90-130	369.88	8.68%
90-150	394.85	9.26%
90-180	398.58	9.35%
0-70.36	3409.83	80.00%

ZONAL LUMEN SUMMARY

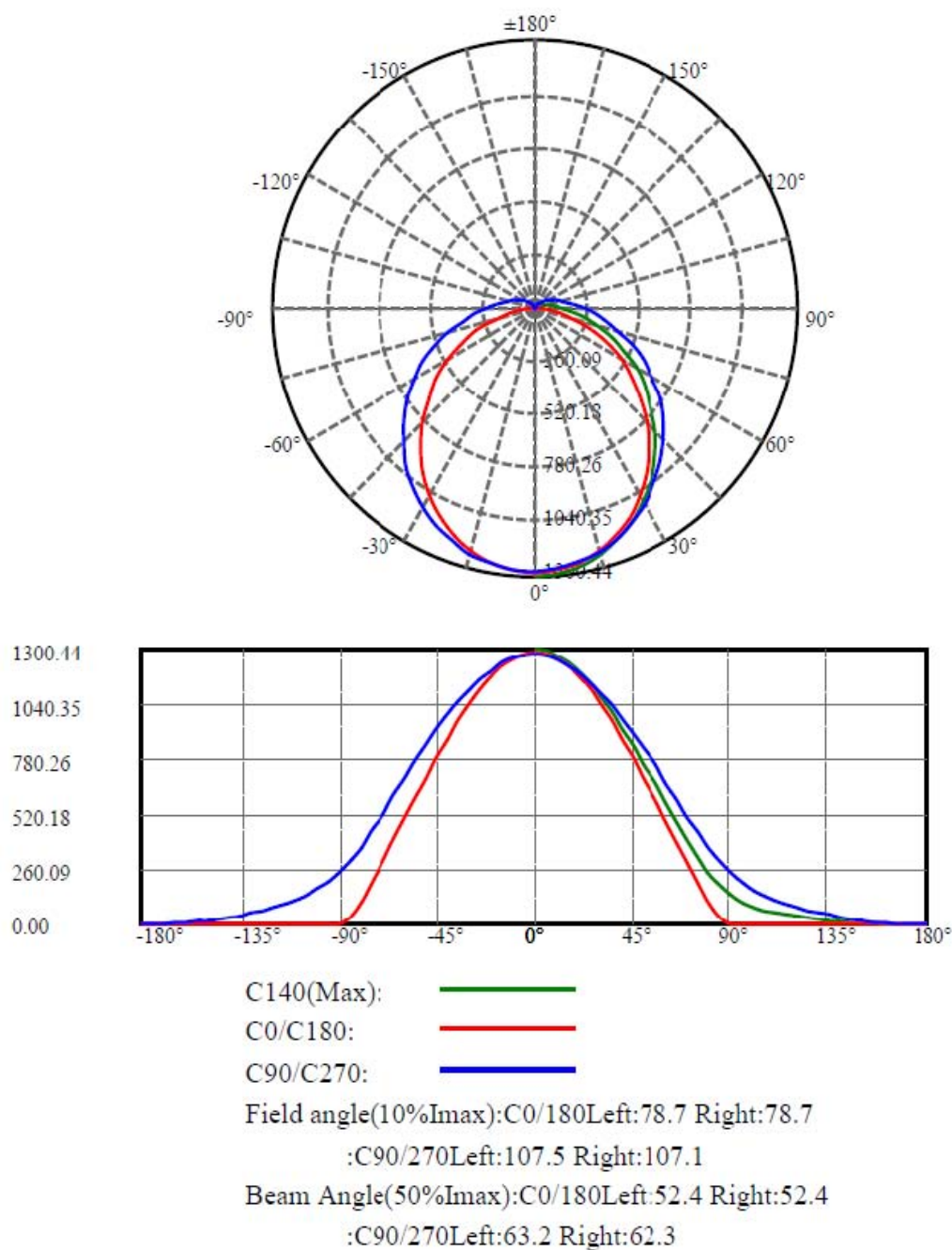
0-10	121.88
10-20	348.01
20-30	524.91
30-40	631.35
40-50	658.92
50-60	610.91
60-70	499.82
70-80	349.27
80-90	207.68
90-100	121.75
100-110	77.91
110-120	50.38
120-130	30.77
130-140	17.00
140-150	7.98
150-160	2.92
160-170	0.72
170-180	0.08

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Figure 2:

Light Distribution Curve (Unit:cd)

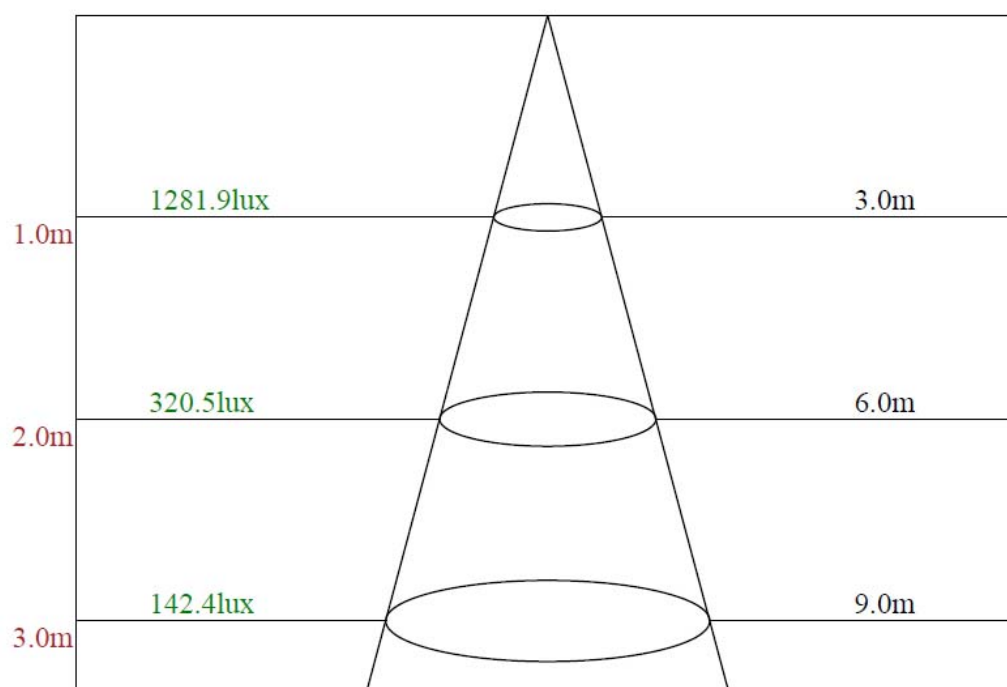


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Figure 3:

Lux Distance Curve



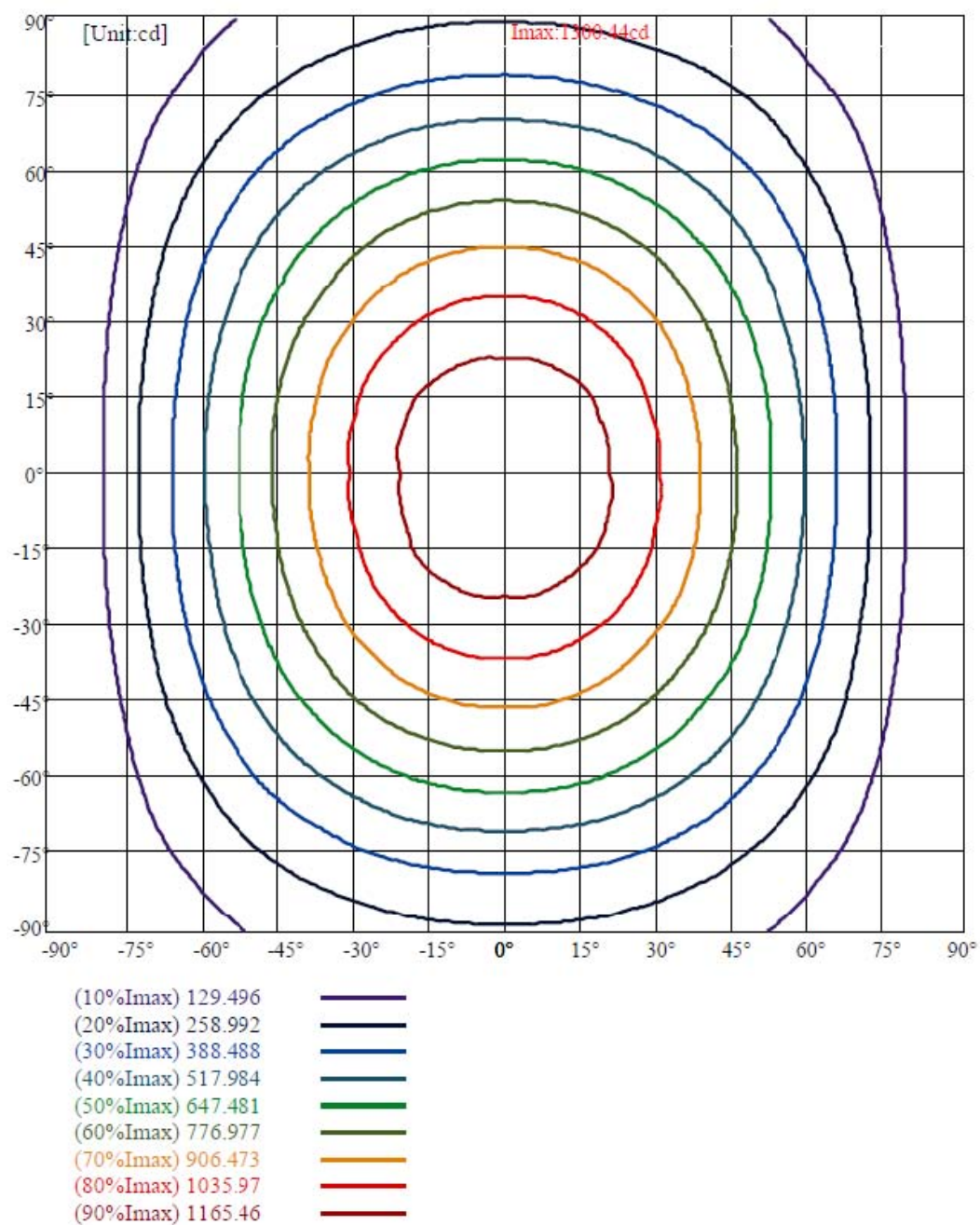
Beam angle of C140plane112.41

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Figure 4:

ISO-Intensity(V-H)

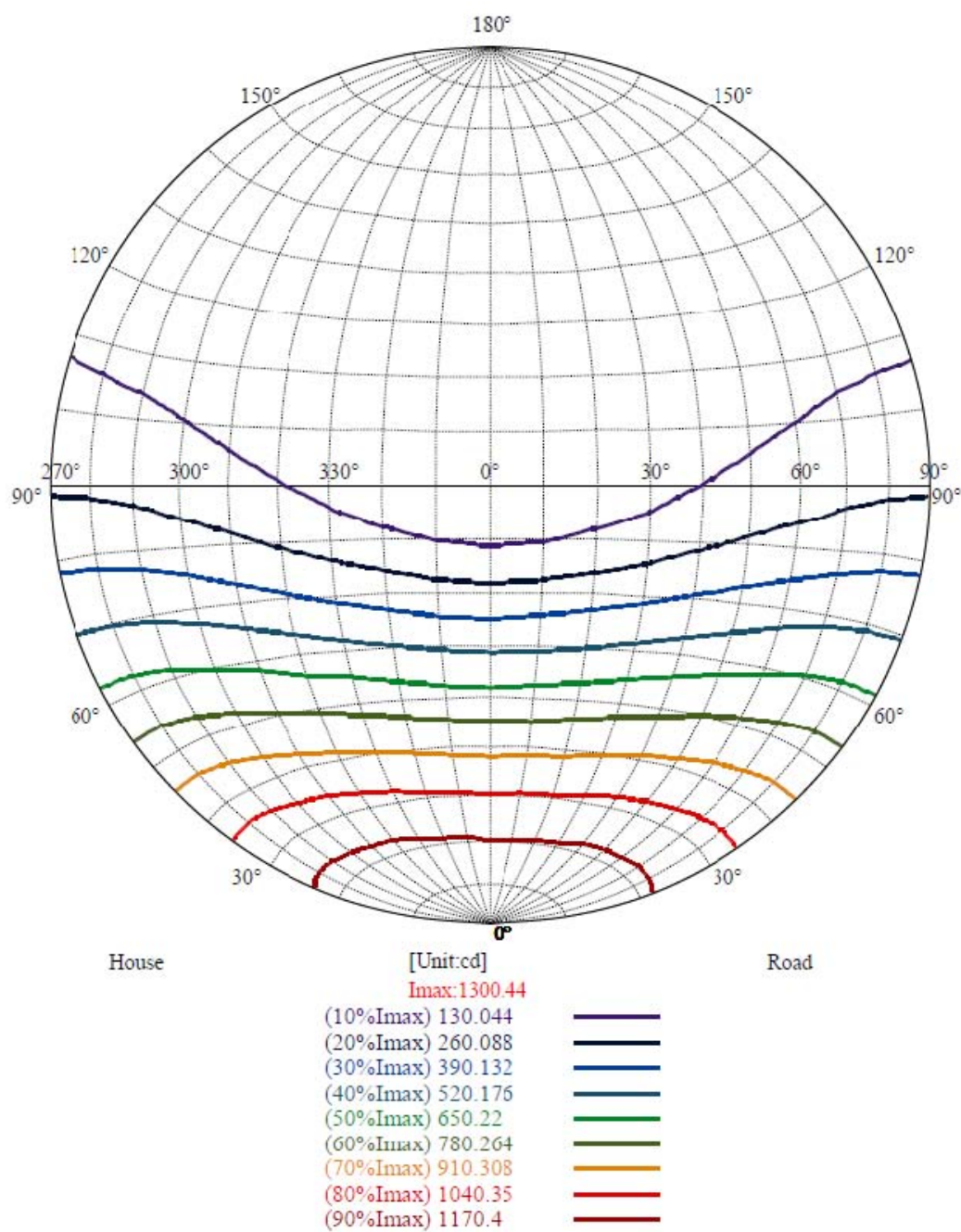


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Figure 5:

ISO candela diagram on circular web

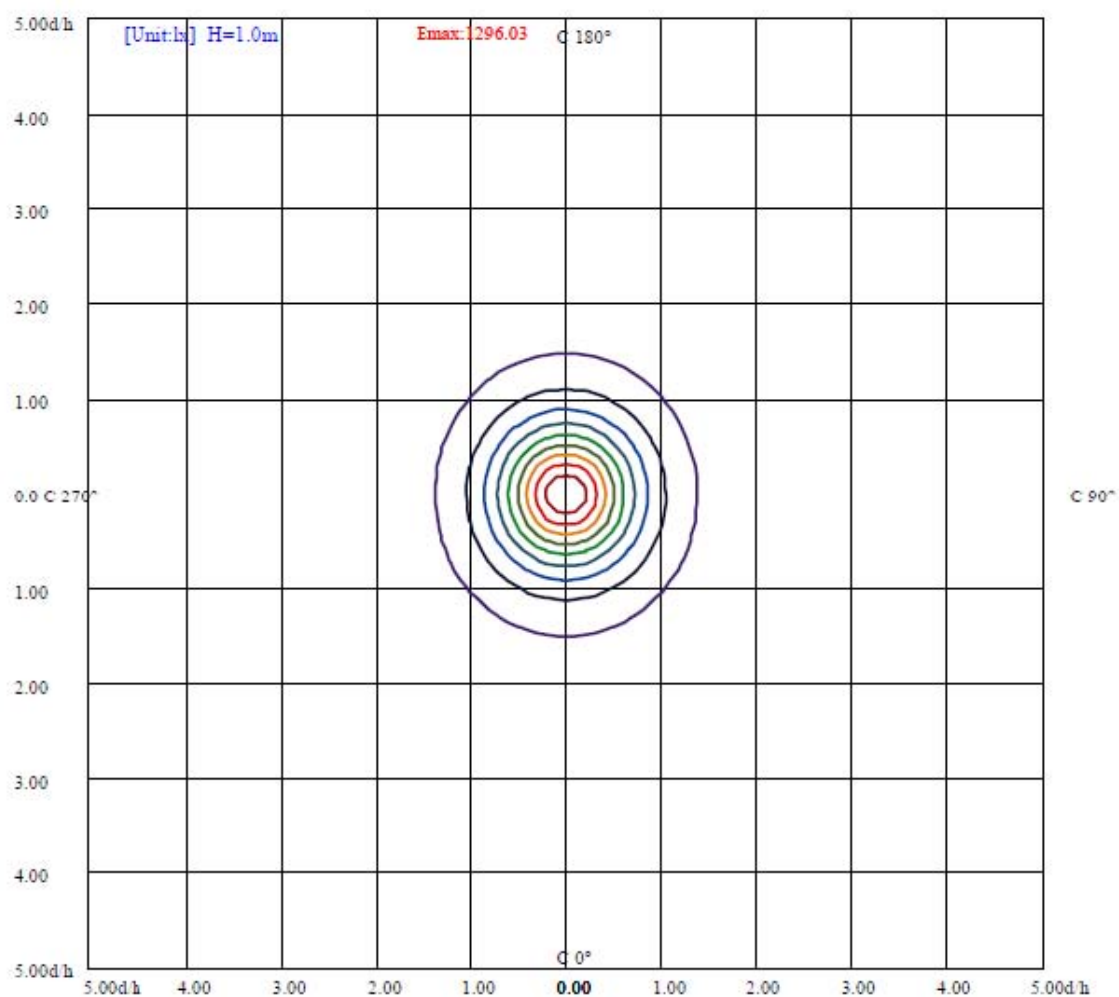


Sample No.: IL-BN120K4

Sample Name: IP44 Indoor batten Basic

Figure 6:

ISO illuminance diagram



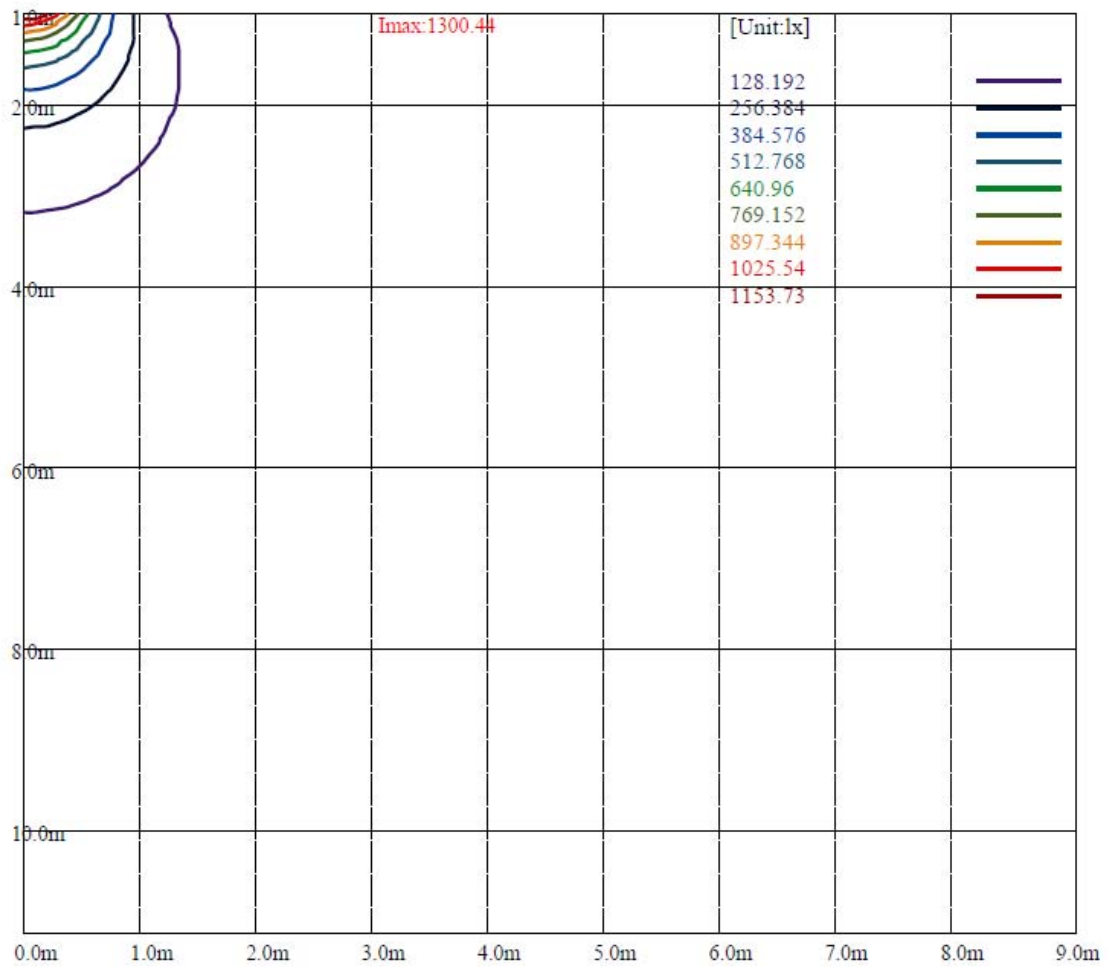
(10%Emax) 129.602	—
(20%Emax) 259.204	—
(30%Emax) 388.807	—
(40%Emax) 518.409	—
(50%Emax) 648.011	—
(60%Emax) 777.613	—
(70%Emax) 907.216	—
(80%Emax) 1036.82	—
(90%Emax) 1166.42	—

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Figure 7:

Space ISO Lux diagram



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Figure 8:

Luminance Limiting Curve(no luminous side)

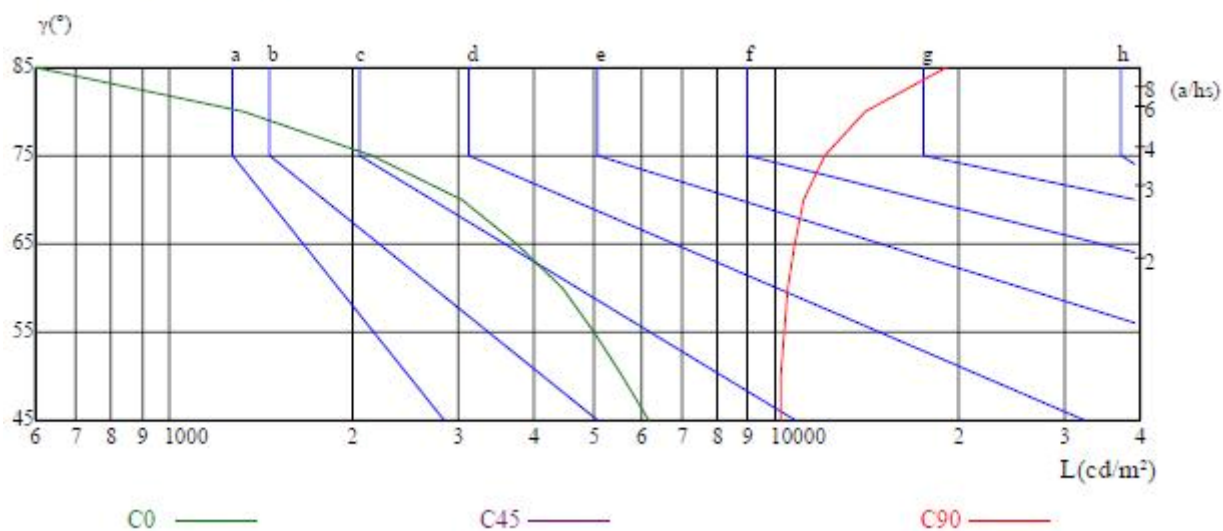
Luminance Table

γ	45	50	55	60	65	70	75	80	85
C0	6176	5574	5014	4433	3723	3027	2161	1326	507
C45	0	0	0	0	0	0	0	0	0
C90	10171	10230	10362	10453	10738	11107	12044	14091	19174

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



Sample Name: IP44 Indoor batten Basic

UGR Glare

Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions X Y		Viewed crosswise					Viewed endwise				
2H	2H	13.7	15.0	14.1	15.4	15.8	11.9	13.3	12.3	13.6	14.0
	3H	15.8	17.0	16.3	17.4	17.9	13.1	14.3	13.6	14.7	15.2
	4H	16.8	17.8	17.2	18.2	18.7	13.4	14.4	13.8	14.8	15.3
	6H	18.0	19.0	18.5	19.4	19.9	13.6	14.7	14.1	15.1	15.6
	8H	18.6	19.6	19.1	20.1	20.6	13.7	14.7	14.2	15.2	15.7
	12H	19.1	19.9	19.6	20.4	20.9	13.5	14.3	14.1	14.8	15.4
4H	2H	14.0	15.0	14.5	15.4	15.9	12.6	13.6	13.1	14.1	14.6
	3H	16.3	17.1	16.9	17.6	18.2	14.0	14.8	14.6	15.3	15.9
	4H	17.7	18.5	18.2	19.0	19.5	14.6	15.4	15.2	15.9	16.5
	6H	19.1	19.8	19.6	20.4	20.9	15.0	15.8	15.5	16.3	16.9
	8H	19.6	20.1	20.2	20.7	21.3	14.9	15.4	15.5	16.0	16.6
	12H	20.4	20.9	21.0	21.5	22.1	15.0	15.4	15.6	16.0	16.7
8H	4H	17.8	18.3	18.4	18.9	19.5	15.1	15.6	15.8	16.2	16.9
	6H	19.4	19.8	20.0	20.4	21.1	15.7	16.2	16.3	16.8	17.4
	8H	20.3	20.7	20.9	21.3	22.0	15.9	16.4	16.5	17.0	17.6
	12H	21.2	21.7	21.9	22.3	23.0	16.0	16.5	16.6	17.1	17.7
12H	4H	17.8	18.3	18.4	18.9	19.6	15.3	15.8	15.9	16.4	17.1
	6H	19.5	19.9	20.1	20.5	21.2	16.0	16.5	16.6	17.1	17.7
	8H	20.4	20.9	21.0	21.5	22.1	16.3	16.7	16.9	17.3	18.0
Variation with the observer position at spacings:											
S = 1.0H		0.2/-1.0					0.3/-0.4				
S = 1.5H		0.5/-0.8					0.5/-0.7				
S = 2.0H		0.4/-0.6					1.0/-1.0				
Standard tables:		BKBF					BK5				
Uncorrected UGR		9.9					4.2				
According 1000lm											

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Figure 10:

Utilization factor table for indoor luminaire

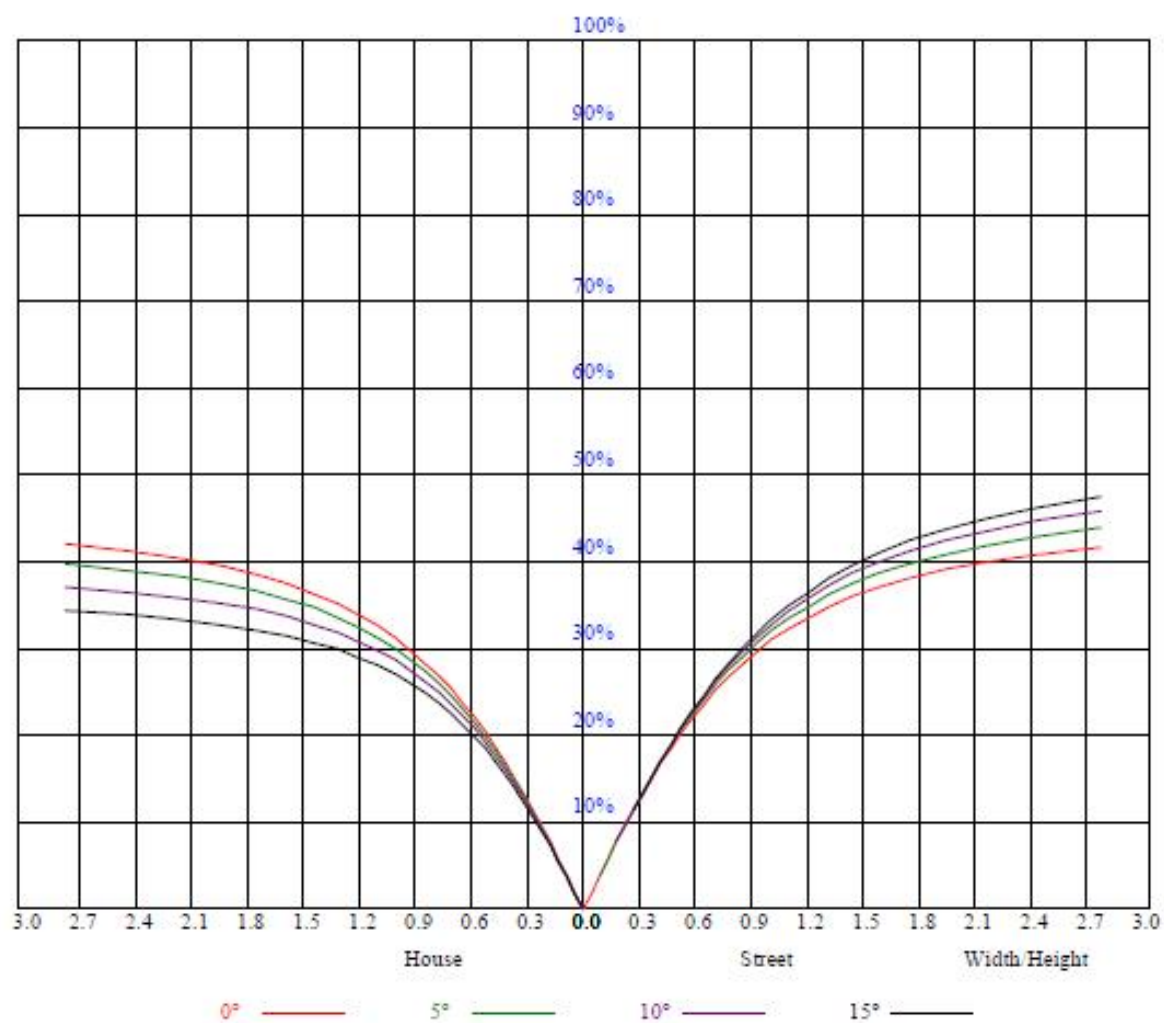
RHOC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOF=20 CU															
0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	0.95	0.95	0.95	0.93
1	1.00	0.95	0.91	0.97	0.93	0.89	0.92	0.88	0.85	0.86	0.83	0.81	0.82	0.79	0.77	0.74
2	0.87	0.79	0.73	0.84	0.77	0.72	0.79	0.74	0.69	0.75	0.70	0.66	0.71	0.67	0.64	0.61
3	0.76	0.67	0.60	0.73	0.66	0.59	0.69	0.63	0.57	0.66	0.60	0.55	0.62	0.57	0.53	0.51
4	0.67	0.58	0.51	0.65	0.56	0.50	0.61	0.54	0.48	0.58	0.52	0.47	0.55	0.50	0.46	0.43
5	0.60	0.50	0.43	0.58	0.49	0.43	0.55	0.47	0.42	0.52	0.46	0.41	0.50	0.44	0.39	0.37
6	0.54	0.44	0.38	0.52	0.44	0.37	0.50	0.42	0.36	0.47	0.41	0.36	0.45	0.39	0.35	0.32
7	0.48	0.40	0.33	0.47	0.39	0.33	0.45	0.38	0.32	0.43	0.36	0.31	0.41	0.35	0.31	0.29
8	0.44	0.36	0.30	0.43	0.35	0.29	0.41	0.34	0.29	0.39	0.33	0.28	0.38	0.32	0.27	0.25
9	0.40	0.32	0.27	0.40	0.32	0.26	0.38	0.31	0.26	0.36	0.30	0.25	0.35	0.29	0.25	0.23
10	0.37	0.29	0.24	0.37	0.29	0.24	0.35	0.28	0.23	0.34	0.27	0.23	0.32	0.27	0.22	0.21
RCR	COEFFICIENTS OF UTILIZATION RHOF=20 WLC															
1	0.35	0.20	0.06	0.34	0.19	0.06	0.32	0.18	0.06	0.30	0.18	0.06	0.29	0.17	0.05	
2	0.31	0.17	0.05	0.30	0.17	0.05	0.29	0.16	0.05	0.27	0.15	0.05	0.26	0.15	0.05	
3	0.28	0.15	0.05	0.28	0.15	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04	
4	0.26	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04	
5	0.24	0.12	0.03	0.23	0.12	0.03	0.22	0.11	0.03	0.21	0.11	0.03	0.20	0.11	0.03	
6	0.22	0.11	0.03	0.21	0.11	0.03	0.20	0.10	0.03	0.19	0.10	0.03	0.18	0.10	0.03	
7	0.20	0.10	0.03	0.20	0.10	0.03	0.19	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	
8	0.19	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.02	0.17	0.08	0.02	0.16	0.08	0.02	
9	0.18	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	
10	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.07	0.02	0.14	0.07	0.02	
RCR	COEFFICIENTS OF UTILIZATION RHOF=20 CCLU															
0	0.25	0.25	0.25	0.21	0.21	0.21	0.14	0.14	0.14	0.08	0.08	0.08	0.03	0.03	0.03	
1	0.20	0.19	0.18	0.18	0.17	0.16	0.13	0.12	0.11	0.08	0.07	0.06	0.03	0.02	0.02	
2	0.17	0.16	0.14	0.16	0.14	0.12	0.12	0.10	0.09	0.08	0.06	0.05	0.03	0.02	0.02	
3	0.15	0.13	0.12	0.14	0.12	0.10	0.11	0.09	0.08	0.07	0.06	0.05	0.03	0.02	0.02	
4	0.14	0.12	0.10	0.13	0.11	0.09	0.10	0.08	0.07	0.07	0.05	0.04	0.03	0.02	0.01	
5	0.13	0.11	0.09	0.12	0.10	0.08	0.10	0.08	0.06	0.07	0.05	0.04	0.02	0.02	0.01	
6	0.12	0.10	0.08	0.12	0.09	0.08	0.10	0.07	0.06	0.06	0.05	0.03	0.02	0.02	0.01	
7	0.11	0.09	0.08	0.11	0.09	0.07	0.09	0.07	0.05	0.06	0.05	0.03	0.02	0.02	0.01	
8	0.11	0.09	0.08	0.11	0.08	0.07	0.09	0.07	0.05	0.06	0.04	0.03	0.02	0.02	0.01	
9	0.11	0.09	0.07	0.10	0.08	0.06	0.09	0.06	0.05	0.06	0.04	0.03	0.02	0.02	0.01	
10	0.10	0.08	0.07	0.10	0.08	0.06	0.08	0.06	0.05	0.06	0.04	0.03	0.02	0.01	0.01	

Sample No.: IL-BN120K4

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Figure 11:

Coefficient Utilization Curve



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Figure 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	1281.92	1273.94	1254.00	1216.96	1169.94	1114.09	1040.30	964.79	874.46
10.0	1289.90	1283.91	1260.84	1225.79	1174.21	1116.09	1048.27	964.79	881.59
20.0	1294.17	1286.76	1265.39	1227.78	1179.63	1117.51	1049.70	967.92	888.71
30.0	1289.90	1281.64	1262.54	1226.36	1181.91	1122.36	1057.96	987.58	903.81
40.0	1298.16	1289.61	1270.81	1236.33	1193.59	1136.03	1074.49	999.55	924.61
50.0	1293.89	1286.19	1267.67	1234.91	1192.17	1142.02	1078.76	1011.80	935.44
60.0	1287.33	1281.35	1261.40	1231.77	1193.02	1141.45	1085.89	1019.78	953.39
70.0	1285.62	1277.08	1259.13	1230.92	1194.45	1145.15	1092.44	1027.76	963.36
80.0	1279.93	1273.37	1254.28	1227.78	1191.88	1144.87	1093.86	1032.03	970.49
90.0	1273.09	1266.53	1248.30	1222.94	1187.61	1140.88	1091.87	1030.61	969.92
100.0	1279.93	1272.23	1254.00	1227.50	1192.45	1144.87	1094.72	1032.32	970.49
110.0	1283.91	1276.79	1258.27	1230.35	1194.45	1144.58	1091.87	1028.04	964.79
120.0	1288.47	1281.64	1261.69	1233.77	1190.74	1143.44	1089.02	1020.92	955.10
130.0	1291.89	1284.20	1264.82	1235.19	1189.89	1139.74	1077.05	1011.52	940.85
140.0	1300.44	1292.75	1271.09	1238.61	1193.88	1140.59	1073.35	1004.11	922.33
150.0	1296.74	1290.18	1268.24	1235.76	1186.75	1131.19	1067.65	989.58	911.79
160.0	1295.31	1287.90	1264.82	1231.49	1184.76	1122.93	1056.25	973.91	893.55
170.0	1295.60	1289.33	1268.81	1231.20	1183.62	1120.36	1050.84	974.19	883.01
180.0	1281.92	1274.51	1254.00	1216.96	1170.80	1108.11	1040.58	965.07	875.32
190.0	1289.90	1284.20	1261.69	1227.21	1176.49	1118.65	1051.12	967.07	883.87
200.0	1294.17	1287.05	1266.25	1228.92	1181.62	1124.35	1052.26	978.46	890.13
210.0	1289.90	1284.77	1265.39	1230.92	1187.32	1134.32	1065.37	995.28	911.22
220.0	1298.16	1291.89	1275.08	1246.02	1201.28	1148.00	1087.88	1012.94	937.72
230.0	1293.89	1288.76	1273.09	1242.60	1202.99	1154.55	1093.01	1027.47	950.26
240.0	1287.33	1283.91	1268.81	1242.03	1202.99	1157.40	1099.28	1039.44	973.05
250.0	1285.62	1280.50	1267.67	1242.88	1205.27	1161.96	1106.40	1048.84	985.02
260.0	1279.93	1277.36	1263.40	1240.60	1204.42	1163.10	1109.82	1053.69	993.28
270.0	1273.09	1269.67	1256.28	1234.34	1198.72	1158.54	1106.40	1050.84	990.72
280.0	1279.93	1276.79	1261.69	1239.75	1203.28	1162.82	1108.11	1053.12	991.29
290.0	1283.91	1279.93	1264.82	1240.89	1204.13	1160.54	1105.26	1047.13	983.88
300.0	1288.47	1283.91	1267.39	1241.74	1202.14	1155.98	1097.57	1036.02	969.92
310.0	1291.89	1288.47	1271.38	1242.31	1200.14	1149.71	1093.01	1028.33	949.40
320.0	1300.44	1295.31	1275.94	1245.73	1200.14	1147.72	1086.46	1011.52	936.86
330.0	1296.74	1291.04	1271.38	1239.75	1193.02	1138.31	1075.34	996.70	920.34
340.0	1295.31	1287.05	1267.10	1234.34	1185.33	1127.20	1055.97	980.17	900.11
350.0	1295.60	1288.19	1267.39	1230.35	1183.33	1124.92	1049.98	973.34	883.58
360.0	1281.92	1273.94	1254.00	1216.96	1169.94	1114.09	1040.30	964.79	874.46

Sample No.: IL-BN120K4

Sample Name: IP44 Indoor batten Basic

Intensity data(cd)

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	786.13	686.12	591.52	496.36	391.21	294.91	192.33	106.00	35.62
10.0	787.27	696.66	603.78	500.34	406.32	303.17	210.85	119.39	53.28
20.0	804.08	708.35	618.31	518.30	426.55	335.37	238.49	158.71	89.47
30.0	822.89	730.57	642.24	544.22	455.04	365.86	272.97	197.46	131.64
40.0	843.98	752.80	668.17	574.43	487.81	401.76	312.29	239.63	174.66
50.0	859.65	781.29	692.39	610.04	518.01	433.67	354.46	276.67	216.55
60.0	875.32	800.10	720.60	630.56	548.78	467.58	383.52	312.57	245.90
70.0	888.43	816.62	740.83	656.20	575.28	488.38	410.88	334.80	273.82
80.0	898.11	827.16	752.80	669.03	589.53	503.19	426.83	356.45	289.78
90.0	898.97	828.30	755.65	672.45	593.23	508.04	432.25	363.01	296.05
100.0	899.25	828.30	753.94	671.31	592.38	505.76	429.68	359.87	293.48
110.0	889.57	817.19	741.68	657.06	577.56	490.94	414.29	343.92	278.67
120.0	878.17	802.09	723.16	635.40	553.63	465.87	389.22	312.86	253.02
130.0	859.36	781.29	693.82	610.33	526.56	435.95	356.74	280.09	220.54
140.0	841.98	750.52	666.46	580.70	488.09	402.90	314.57	242.76	183.21
150.0	822.32	735.42	637.97	548.78	459.60	364.15	279.52	198.03	138.19
160.0	807.79	712.34	621.73	521.15	429.11	329.95	241.91	162.13	94.03
170.0	796.11	695.52	601.50	505.47	401.76	307.44	208.57	125.37	53.57
180.0	786.70	686.41	592.38	496.93	392.35	295.76	192.90	106.28	30.77
190.0	788.70	697.80	596.08	501.20	406.32	303.74	211.71	120.24	54.14
200.0	804.94	716.89	618.02	525.99	426.26	334.51	237.35	158.71	94.31
210.0	829.16	736.56	647.66	555.62	457.03	367.57	275.25	199.17	136.77
220.0	856.23	764.48	677.57	582.69	495.22	409.17	318.84	244.47	177.51
230.0	873.89	795.82	706.35	621.44	529.12	443.36	355.31	282.65	220.82
240.0	894.98	818.62	732.28	649.65	557.62	474.70	395.20	315.99	253.59
250.0	910.08	836.00	751.94	671.59	589.53	500.63	420.28	342.21	278.95
260.0	918.91	847.96	765.62	685.55	604.63	515.45	436.80	357.88	295.48
270.0	919.20	847.96	767.04	688.69	608.33	520.29	441.93	363.58	301.18
280.0	919.20	847.68	765.33	685.84	604.63	514.88	435.95	358.73	295.76
290.0	908.94	836.00	752.80	673.02	590.95	502.05	422.84	343.63	281.23
300.0	892.13	815.20	730.00	648.51	565.02	474.42	396.34	323.12	254.73
310.0	874.18	787.27	705.78	622.30	530.26	446.21	359.02	286.93	219.11
320.0	848.82	764.76	670.17	584.40	497.50	404.04	323.12	243.62	181.79
330.0	829.44	742.25	651.36	552.49	463.59	367.57	282.94	199.74	138.76
340.0	807.79	720.03	621.16	527.98	427.40	335.37	248.18	160.42	96.59
350.0	795.25	695.24	601.21	506.33	402.04	307.73	209.43	125.94	58.98
360.0	786.13	686.12	591.52	496.36	391.21	294.91	192.33	106.00	35.62

Sample Name: IP44 Indoor batten Basic

[illegible]

Sample No.: IL-BN120K4

Sample Name: IP44 Indoor batten Basic

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.85	0.57	0.28	0.57	0.85	0.57	0.57	0.57	0.28
10.0	0.85	1.42	0.57	0.85	0.85	1.14	0.85	0.57	0.85
20.0	3.99	3.13	2.56	1.99	1.99	1.42	1.14	0.85	0.85
30.0	9.40	7.41	5.41	3.99	2.85	1.71	1.42	0.85	0.85
40.0	16.53	12.54	9.12	7.12	4.84	2.85	1.99	1.14	0.85
50.0	25.36	18.81	14.25	9.97	6.55	4.27	2.56	1.42	1.42
60.0	32.48	25.36	18.52	12.82	8.55	5.41	3.13	1.71	1.14
70.0	39.04	29.92	22.22	15.39	10.54	6.55	3.70	1.99	0.57
80.0	43.03	33.62	24.22	17.67	11.11	7.12	3.70	1.99	0.85
90.0	44.73	35.33	26.21	18.52	11.68	7.69	3.70	1.99	1.42
100.0	43.59	33.34	25.07	17.95	11.40	7.69	3.70	1.42	1.14
110.0	39.89	31.06	22.79	16.53	10.54	6.55	3.42	1.71	0.85
120.0	33.91	25.64	18.81	13.39	8.55	5.41	1.99	0.85	0.85
130.0	26.78	19.95	14.53	9.69	6.27	3.99	1.99	1.42	1.14
140.0	18.24	14.25	9.97	6.84	4.56	3.13	1.99	1.42	0.85
150.0	10.83	8.55	6.27	3.99	2.56	1.99	1.42	1.14	1.42
160.0	4.84	3.42	2.56	1.99	1.14	1.71	0.85	0.85	1.14
170.0	1.71	1.71	1.14	1.14	1.14	0.85	1.14	1.14	0.57
180.0	0.00	0.28	0.00	0.28	0.28	0.28	0.00	0.28	0.57
190.0	1.14	0.85	0.85	0.28	1.14	0.57	0.85	0.85	1.14
200.0	4.84	3.70	2.28	1.71	1.71	1.42	0.85	1.14	1.14
210.0	10.26	7.98	5.98	3.42	2.56	1.71	1.42	1.14	1.14
220.0	16.53	13.11	9.40	7.12	4.27	2.56	1.71	1.14	1.14
230.0	24.50	19.09	13.96	9.69	6.27	3.99	2.28	0.85	0.85
240.0	32.20	24.22	18.24	13.11	8.55	5.13	2.85	1.42	0.85
250.0	37.90	29.06	21.94	15.39	10.54	6.27	3.13	1.99	0.85
260.0	42.46	31.91	23.93	17.67	11.68	7.12	4.27	1.99	0.57
270.0	43.88	33.05	25.36	17.95	12.54	7.41	4.56	1.99	1.14
280.0	42.46	32.20	23.93	17.10	11.97	7.69	3.99	1.99	1.14
290.0	38.75	29.06	21.66	15.96	10.83	6.84	4.27	1.99	1.42
300.0	31.91	24.50	18.81	13.39	9.12	6.27	2.85	1.99	0.85
310.0	25.07	19.66	14.53	10.54	6.84	4.84	2.85	1.42	0.85
320.0	17.10	13.68	10.54	7.41	5.13	3.13	1.99	1.42	0.85
330.0	10.26	7.41	5.98	4.84	3.13	1.99	1.71	1.42	1.14
340.0	3.99	3.70	2.28	1.99	1.71	1.14	1.14	1.14	0.85
350.0	1.14	1.14	1.14	1.14	1.42	1.42	1.14	1.14	1.14
360.0	0.85	0.57	0.28	0.57	0.85	0.57	0.57	0.57	0.28

Sample No.: IL-BN120K4

Sample Name: IP44 Indoor batten Basic

Intensity data(cd)

C/γ(°)	180.0
0.0	0.57
10.0	1.14
20.0	1.14
30.0	1.14
40.0	0.85
50.0	1.14
60.0	1.42
70.0	1.14
80.0	1.42
90.0	1.14
100.0	0.85
110.0	1.42
120.0	0.85
130.0	0.85
140.0	0.85
150.0	1.42
160.0	1.14
170.0	1.14
180.0	0.57
190.0	1.14
200.0	1.14
210.0	1.14
220.0	0.85
230.0	1.14
240.0	1.42
250.0	1.14
260.0	1.42
270.0	1.14
280.0	0.85
290.0	1.42
300.0	0.85
310.0	0.85
320.0	0.85
330.0	1.42
340.0	1.14
350.0	1.14
360.0	0.57

Photo documentation:

Photo 1

- ☒ General
- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☐ top
- ☐ bottom
- ☐ internal

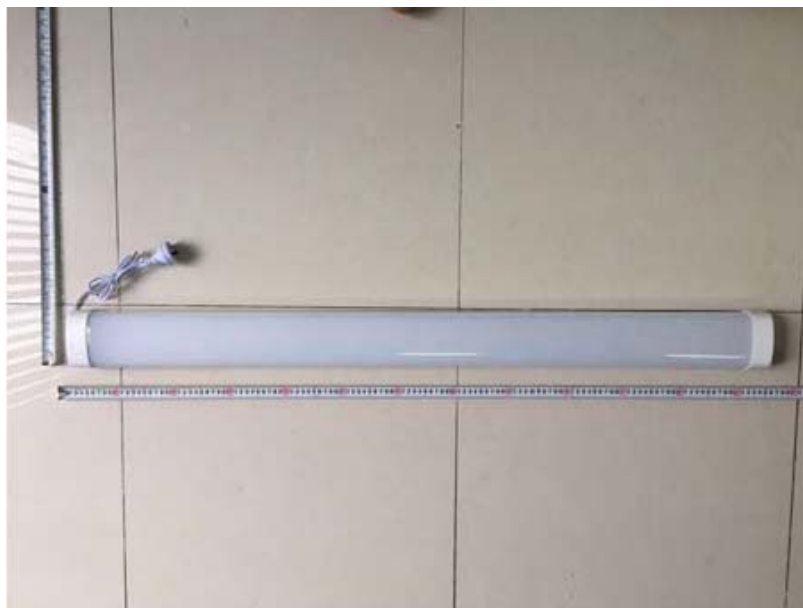


Photo 2

- ☒ General
- ☐ front
- ☐ rear
- ☐ right side
- ☐ left side
- ☐ top
- ☐ bottom
- ☐ internal



*****End of the report*****