

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BTLW061007L30ENBK.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LCZP18100242  
 [TESTLAB] LCTECH  
 [TESTDATE] 2018/10/31  
 [ISSUEDATE] 2018/10/31  
 [MANUFAC] Foshan LedKey Lighting Co,Ltd  
 [LUMCAT] BTLW061007L30ENBK  
 [LUMINAIRE] LED lamp  
 [LAMPCAT]  
 [LAMP]

**CHARACTERISTICS**

Lumens Per Lamp	478.01 (1 lamp)
Total Lamp Lumens	478.01
Luminaire Lumens	478
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	9.03
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Sphere
Luminous Length (0-180)	0.17 m (Diameter)
Luminous Width (90-270)	0.17 m (Diameter)
Luminous Height	0.22 m (Diameter)

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4119	4101	3986
55	3508	3502	3381
65	2870	2874	2751
75	2200	2204	2105
85	1518	1534	1437

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**CANDELA TABULATION**

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
<b>0</b>	123.622	123.622	123.622	123.622	123.622	123.622	123.622	123.622	123.622	123.622
<b>5</b>	123.947	123.632	123.497	123.271	123.902	123.722	123.722	123.091	123.091	122.641
<b>10</b>	122.416	122.686	122.506	122.686	122.686	122.461	122.236	121.381	120.751	121.156
<b>15</b>	120.796	120.706	120.571	120.661	120.796	120.616	120.031	119.266	118.366	118.051
<b>20</b>	118.186	117.736	117.916	117.421	117.331	117.736	116.611	115.350	115.305	114.900
<b>25</b>	114.675	114.090	114.135	113.910	113.640	113.550	112.560	110.985	110.895	110.625
<b>30</b>	110.445	110.085	110.085	109.725	109.770	109.320	108.194	106.214	106.034	105.629
<b>35</b>	105.494	104.864	104.774	104.954	104.549	104.054	102.704	100.949	99.958	99.463
<b>40</b>	99.103	99.193	99.328	99.013	98.923	98.473	97.168	95.278	94.378	93.252
<b>45</b>	93.522	93.432	93.162	93.117	92.487	92.082	90.507	88.662	87.807	87.132
<b>50</b>	86.232	86.592	86.727	86.232	86.096	85.511	83.846	81.866	81.191	80.111
<b>55</b>	79.661	79.796	79.661	79.526	79.076	78.806	76.780	74.620	74.035	72.865
<b>60</b>	72.820	72.685	72.280	72.460	71.920	71.425	69.444	67.824	66.699	65.979
<b>65</b>	65.169	65.439	65.439	65.259	65.169	64.494	62.468	60.533	59.633	58.643
<b>70</b>	57.608	57.653	57.968	57.833	57.473	57.158	55.357	53.467	52.207	51.307
<b>75</b>	49.957	49.957	50.092	50.047	50.137	49.642	47.796	45.636	45.006	43.836
<b>80</b>	42.216	42.261	42.306	42.306	42.216	41.946	39.965	38.030	37.130	36.140
<b>85</b>	34.475	34.655	34.835	34.835	34.565	34.250	32.629	30.784	29.884	29.029
<b>90</b>	27.274	27.409	27.229	27.409	27.364	27.229	25.473	23.898	23.088	22.323
<b>95</b>	20.883	20.838	21.063	21.153	20.973	20.793	19.488	18.002	17.192	16.427
<b>100</b>	14.942	14.987	15.122	15.257	15.257	14.987	13.817	12.467	11.927	11.432
<b>105</b>	10.081	10.126	10.126	10.171	10.126	10.036	8.911	7.786	7.471	7.111
<b>110</b>	5.851	5.941	5.941	5.941	6.031	5.716	5.086	4.231	4.051	3.735
<b>115</b>	2.610	2.610	2.610	2.565	2.520	2.475	1.890	1.530	1.395	1.305
<b>120</b>	0.450	0.495	0.405	0.495	0.495	0.540	0.270	0.360	0.270	0.225
<b>125</b>	0.090	0.090	0.090	0.090	0.090	0.090	0.135	0.090	0.225	0.135
<b>130</b>	0.000	0.090	0.090	0.090	0.090	0.135	0.090	0.090	0.135	0.090
<b>135</b>	0.090	0.090	0.090	0.090	0.090	0.045	0.090	0.090	0.090	0.090
<b>140</b>	0.090	0.135	0.090	0.135	0.135	0.135	0.135	0.135	0.180	0.135
<b>145</b>	0.180	0.135	0.180	0.180	0.135	0.135	0.180	0.225	0.270	0.315
<b>150</b>	0.270	0.225	0.225	0.270	0.180	0.225	0.270	0.315	0.315	0.315
<b>155</b>	0.180	0.270	0.270	0.270	0.315	0.270	0.315	0.360	0.405	0.360
<b>160</b>	0.360	0.405	0.405	0.360	0.405	0.450	0.405	0.405	0.360	0.360
<b>165</b>	0.450	0.450	0.405	0.495	0.450	0.360	0.450	0.495	0.450	0.450
<b>170</b>	0.450	0.495	0.495	0.495	0.495	0.540	0.495	0.495	0.495	0.450
<b>175</b>	0.450	0.540	0.585	0.540	0.495	0.540	0.495	0.495	0.495	0.540
<b>180</b>	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540

**Vert. Angles**      **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>
<b>0</b>	123.622	123.622	123.622
<b>5</b>	123.001	122.506	122.956
<b>10</b>	120.976	120.616	120.346
<b>15</b>	118.096	118.051	117.286
<b>20</b>	114.675	114.450	113.685
<b>25</b>	109.770	109.500	109.455
<b>30</b>	105.359	104.594	104.774
<b>35</b>	99.103	98.788	98.923
<b>40</b>	93.297	92.802	92.442
<b>45</b>	86.637	86.051	86.141
<b>50</b>	79.616	79.121	78.941
<b>55</b>	72.460	72.010	71.650
<b>60</b>	64.989	64.719	64.719

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	57.788	57.563	57.338
<b>70</b>	50.542	49.867	49.867
<b>75</b>	42.801	42.486	42.036
<b>80</b>	35.330	34.835	34.835
<b>85</b>	28.534	27.949	27.814
<b>90</b>	21.738	21.288	21.243
<b>95</b>	15.932	15.527	15.212
<b>100</b>	10.891	10.576	10.711
<b>105</b>	6.751	6.436	6.481
<b>110</b>	3.465	3.285	3.150
<b>115</b>	1.080	1.080	0.990
<b>120</b>	0.180	0.180	0.180
<b>125</b>	0.135	0.180	0.180
<b>130</b>	0.135	0.090	0.090
<b>135</b>	0.135	0.090	0.090
<b>140</b>	0.135	0.180	0.180
<b>145</b>	0.270	0.225	0.270
<b>150</b>	0.315	0.360	0.360
<b>155</b>	0.360	0.360	0.360
<b>160</b>	0.450	0.450	0.450
<b>165</b>	0.450	0.450	0.450
<b>170</b>	0.450	0.495	0.540
<b>175</b>	0.585	0.450	0.540
<b>180</b>	0.540	0.540	0.540

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	45.47	9.50	9.50
0-30	97.25	20.30	20.30
0-40	161.30	33.70	33.70
0-60	299.15	62.60	62.60
0-80	410.12	85.80	85.80
0-90	445.01	93.10	93.10
10-90	433.29	90.60	90.60
20-40	115.83	24.20	24.20
20-50	185.39	38.80	38.80
40-70	199.23	41.70	41.70
60-80	110.96	23.20	23.20
70-80	49.60	10.40	10.40
80-90	34.90	7.30	7.30
90-110	30.05	6.30	6.30
90-120	32.30	6.80	6.80
90-130	32.46	6.80	6.80
90-150	32.67	6.80	6.80
90-180	33.00	6.90	6.90
110-180	2.95	0.60	0.60
0-180	478.01	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	11.72
10-20	33.75
20-30	51.78
30-40	64.05
40-50	69.56
50-60	68.30
60-70	61.37
70-80	49.60
80-90	34.90
90-100	20.68
100-110	9.37
110-120	2.25
120-130	0.16
130-140	0.08
140-150	0.13
150-160	0.15
160-170	0.13
170-180	0.05

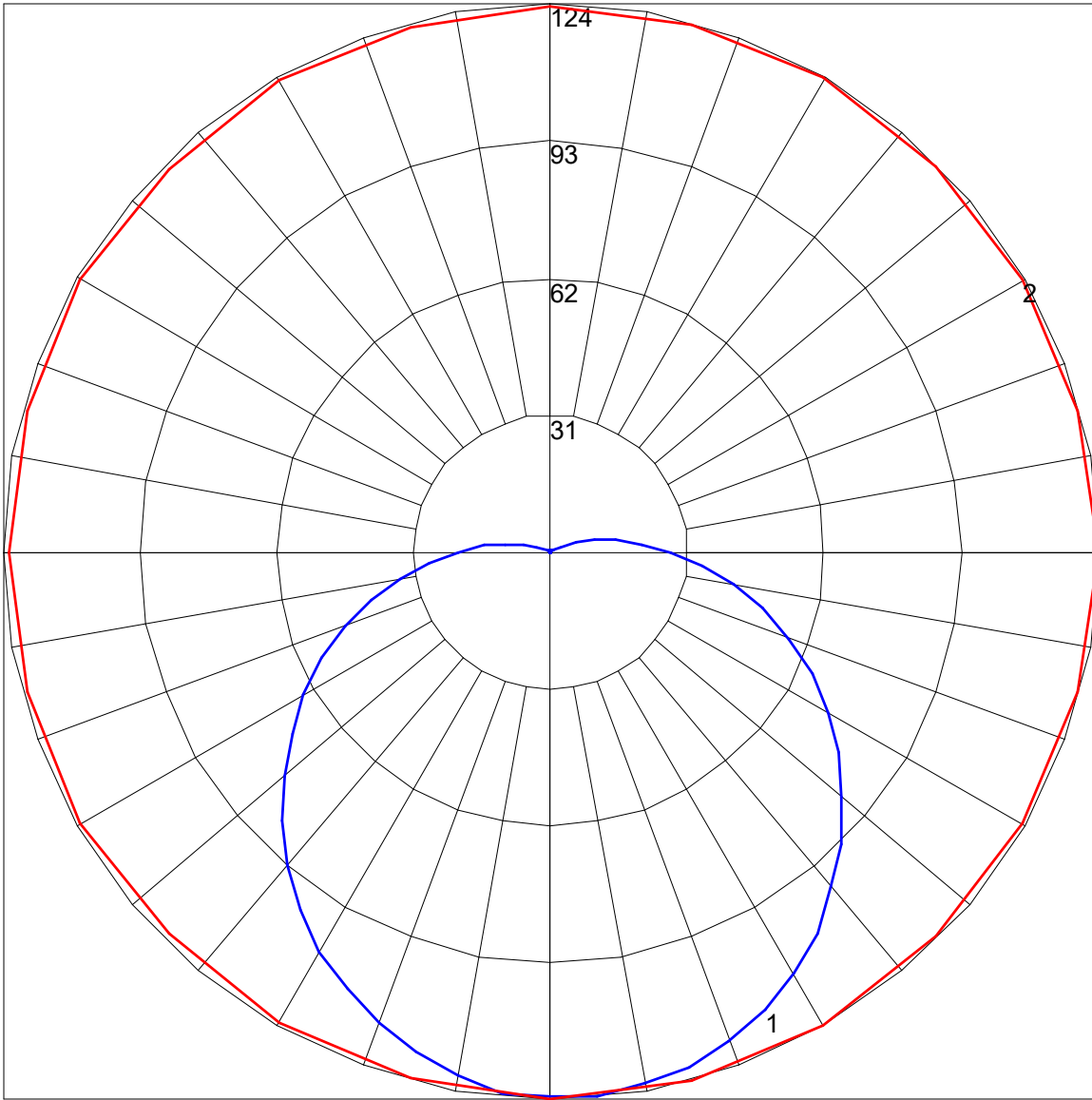
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	104	98	93	88	101	95	90	86	89	85	82	84	81	78	80	77	74	72
2	94	84	76	69	90	81	74	68	77	70	65	72	67	63	68	64	60	57
3	85	73	64	56	81	71	62	55	67	59	53	63	57	52	59	54	50	47
4	77	64	54	47	74	62	53	46	59	51	45	55	49	43	52	47	42	40
5	71	57	47	40	68	55	46	39	52	44	38	50	43	37	47	41	36	34
6	65	51	41	35	63	50	41	34	47	39	33	45	38	32	42	36	32	29
7	60	46	37	30	58	45	36	30	43	35	29	41	34	29	39	32	28	26
8	56	42	33	27	54	41	32	27	39	31	26	37	30	25	35	29	25	23
9	52	38	30	24	50	37	29	24	36	28	23	34	28	23	33	27	22	20
10	49	35	27	22	47	35	27	21	33	26	21	32	25	21	30	24	20	18

POLAR GRAPH



Maximum Candela = 123.947 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)