

LM-79-19 Test Report

For

Lite the Nite

(Brand Name: Lite the Nite)

650 E.Algonquin Rd,Ste 405 Schaumburg. IL 60173

Model name(s): BST105BZ

Report Type: Testing and Report According to IES LM-79-2019

**Type of
Luminaire:** LED Luminaire

Report Date: 2026-04-01

Test & Report By:

Ferrum Li

Engineer: Ferrum Li

Review By:

Garman Mo

Manager: Garman Mo

Note: 1.The results contained in this report pertain only to the tested samples.

2.This report does not imply product certification, approval, or endorsement by A2LA or any agency of the Federal Government.

1.1 Product Information:		
Model Number	BST105BZ	
Remark	N/A	
Representative (Tested) Model	BST105BZ	
Model Difference	N/A	
SKU (if available)	--	
Type of Luminaire (for integral lamps, list base type and lamp type)	LED Luminaire	
LED Manufacturer	EDISON	
LED Model	3014	
Sample Number	JBE260303-B1	
Date of Receipt	2026-03-18	
Luminaire Aperture (for downlights)	--	in.
Luminaire Length	--	mm
Luminaire Width	--	mm
Number of Units (modular products)	N/A	s

1.2 Rated Values:	
Rated Voltage / Frequency	12Vac, 60Hz
Nominal Power	4.7W
Rated Initial Lamp Lumen	--
Declared CCT	3000K

1.3 Test Specifications:

Test item	1. Total Luminous Flux 2. Luminous Distribution Intensity 3. Luminous Efficacy 4. Correlated Color Temperature
Reference Standard	1. IES LM-79-2019 Optical and Electrical Measurements of Solid-State Lighting Products 2. ANSI C78.377-2015 Specifications for the Chromaticity of Solid State Lighting Products 3. CIE 13.3-1995 Method of Measuring and Specifying Colour Rendering Properties of Light Sources 4. CIE 15-2004 Technical Report Colorimetry 5. IESNA LM-16-93 Practical Guide to Colorimetry of Light Source
Reference Work Instruction	QD25

1.4 Test Methods

1) Photometric and Light Distribution Measurement – Goniophotometer Method:

Photometric parameters were measured using the goniophotometer and software. The ambient temperature shall be maintained at $25^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$, measured at a point not more than 1.5 m from the sample and at the same height as the sample. The humidity should be maintained between 10% and 65%. The sample was operated at 12 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Luminous flux, luminaire efficacy, zonal lumen were calculated from the software taken at 1° vertical intervals and 22.5° horizontal intervals.

2) Electrical Measurements:

Electrical parameters were measured using power meters incorporated in goniophotometer or sphere-spectroradiometer system. The ambient temperature surrounding the sample was maintained at $25^{\circ}\text{C} \pm 1.2^{\circ}\text{C}$. The sample was operated at 12 or rated Volts AC, 60Hz. It was stabilized before measurement was made. Voltage, frequency, current, power, power factor and total harmonic distortion were measured by and read from the power meter.

2.1 Electrical, Photometric and Chromaticity Measurements

Test date	2026-03-21	Test Ambient:	25 ± 1° C
Test Orientation	As intended	Stabilization Time (min)	60
Model Number	BST105BZ	Total Operating Time (min)	75

Electrical Measurement:

Sample No.	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	THD %
JBE260303-B1	12.00	60	0.2870	2.989	0.8680	44.40

Photometric Measurement – Goniophotometer Method(Test Distance:26.000m):

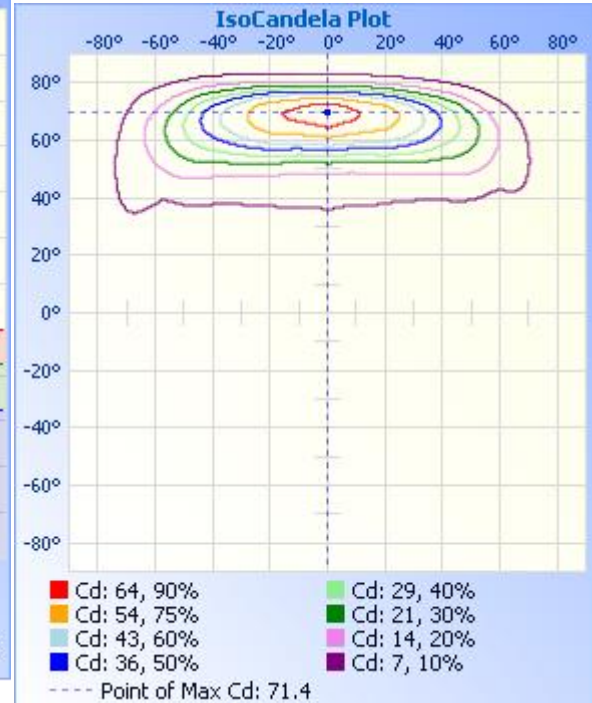
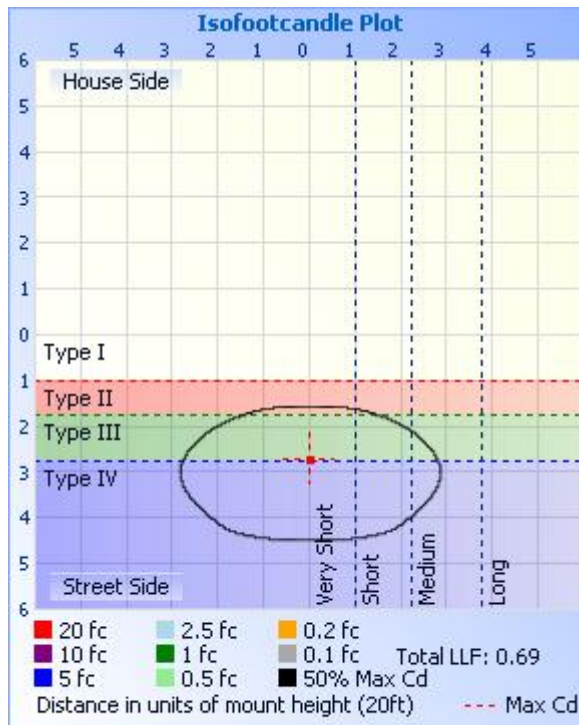
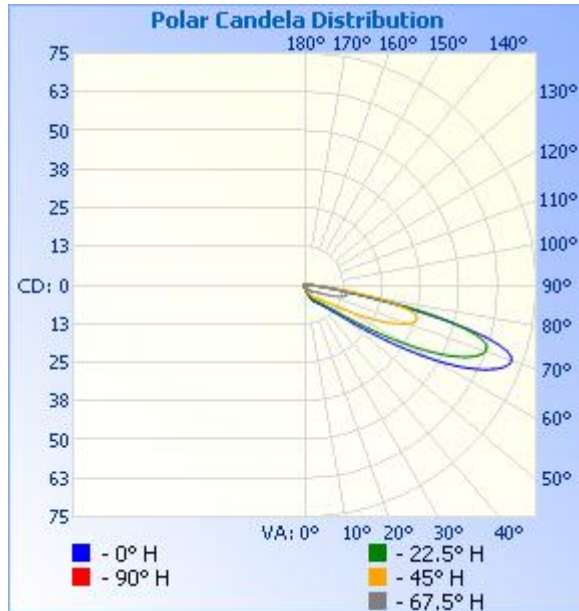
Parameter	Result
Test Voltage (V)	12
Frequency (Hz)	60
Total Luminous (lm)	43.167
Luminous Efficacy (lm/W)	14.44
Beam Angle (°)	86.3

Zonal Lumen Tabulation

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	0.9	2%
0-40	2.2	5%
0-60	10.5	24.4%
60-90	32.5	75.2%
70-100	18.2	42.1%
90-120	0.2	0.4%
0-90	43.0	99.6%
90-180	0.2	0.4%
0-180	43.2	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	0.0	0.1%	90-100	0.2	0.4%
10-20	0.2	0.5%	100-110	0.0	0%
20-30	0.6	1.4%	110-120	0.0	0%
30-40	1.3	3.0%	120-130	0.0	0%
40-50	2.3	5.4%	130-140	0.0	0%
50-60	6.0	14.0%	140-150	0.0	0%
60-70	14.4	33.4%	150-160	0.0	0%
70-80	15.0	34.7%	160-170	0.0	0%
80-90	3.0	7.0%	170-180	0.0	0%

Photometric Data





Certificate #4703.03

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Table--1																	UNIT: cd			
T (DEG)	C (DEG)																			
	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5				
0	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48				
5	0.47	0.51	0.55	0.60	0.61	0.60	0.55	0.51	0.48	0.44	0.41	0.39	0.38	0.39	0.41	0.44				
10	0.48	0.57	0.71	0.83	0.96	0.85	0.73	0.59	0.48	0.41	0.35	0.31	0.30	0.31	0.34	0.40				
15	0.48	0.65	1.06	1.67	1.89	1.73	1.16	0.69	0.49	0.37	0.29	0.24	0.22	0.23	0.28	0.35				
20	0.49	0.74	1.66	2.40	2.69	2.49	1.80	0.80	0.50	0.33	0.23	0.16	0.13	0.15	0.21	0.31				
25	0.48	0.87	2.17	3.69	4.48	3.92	2.39	1.07	0.51	0.29	0.16	0.09	0.06	0.08	0.14	0.26				
30	0.48	1.17	2.91	5.27	5.90	5.52	3.37	1.42	0.51	0.25	0.11	0.03	0.00	0.01	0.08	0.21				
35	0.47	1.41	4.02	6.13	6.83	6.36	4.59	1.70	0.52	0.20	0.05	0.00	0.00	0.00	0.03	0.16				
40	0.46	1.62	4.97	7.18	8.11	7.43	5.44	1.98	0.51	0.16	0.00	0.00	0.00	0.00	0.00	0.12				
45	0.45	1.84	5.79	9.00	10.5	9.25	6.31	2.41	0.51	0.11	0.00	0.00	0.00	0.00	0.00	0.07				
50	0.43	2.25	7.24	12.9	16.0	13.2	7.81	3.03	0.50	0.07	0.00	0.00	0.00	0.00	0.00	0.03				
55	0.40	2.86	10.3	21.9	28.7	22.4	11.2	3.74	0.48	0.03	0.00	0.00	0.00	0.00	0.00	0.00				
60	0.37	3.66	16.5	37.1	48.2	38.6	17.6	4.67	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
65	0.33	5.34	25.0	51.6	64.7	54.6	27.7	6.76	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
70	0.29	8.16	31.4	58.2	71.4	62.4	36.2	10.4	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
75	0.22	10.1	30.5	46.9	54.6	53.3	37.3	13.6	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
80	0.12	8.69	15.2	16.6	17.9	21.0	22.9	13.0	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
85	0.04	2.54	4.21	4.95	5.13	5.68	6.41	5.72	0.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00				
90	0.00	0.45	1.20	1.42	2.10	2.16	1.98	1.18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
95	0.00	0.01	0.01	0.66	0.59	0.54	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
100	0.00	0.01	0.05	0.07	0.12	0.10	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
105	0.00	0.01	0.03	0.04	0.04	0.04	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
110	0.00	0.00	0.02	0.03	0.04	0.03	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
115	0.00	0.00	0.01	0.03	0.03	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
120	0.00	0.00	0.01	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
125	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
130	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

3. Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
ST-R-355	Goniophotometer system	Verified by D908S standard lamp	
ST-R-359	Standard Lamp D908S	2025-05-30	2028-05-29
ST-R-S-357	AC Power Source	2025-12-22	2026-12-21
ST-R-S-422	Power Meter for Goniophotometer	2025-05-21	2026-05-20
ST-R-S-354	hygrothermograph for Goniophotometer	2025-05-21	2026-05-20
Uncertainty: Photometric Measurement(Goniophotometer):3.32%, k=2			

4. Product Photo



******* END OF REPORT *******