UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300

Photometric Indoor Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Elemental LED Inc, DBA Diode LED
Wes Buck
Suite 211,1195 Park Ave.
Emeryville, CA 94608
United States

Catalog Number
BLAZE™ 12v LED Tape Light DI-12V-0142
Project Number
10460077
Test Number
758932

Test Date

2014-09-24

Prepared By

Todd Heiland, Technician

Approved By

Eric Gaudreau, Engineering Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description:	LED strip
Catalog Number:	BLAZE™ 12v LED Tape Light DI-12V-0142
Lamp:	36 white LEDs
Mounting:	Surface
Ballast/Driver:	One Meanwell LPV-60-12

Luminaire

Test Conditions

Test Temperature:	24.4	°C
Voltage:	120.0	VAC
Current:	0.09002	A
Power:	4.443	W
Power Factor:	0.409	
Frequency:	60	Hz
Current THD:	192	%

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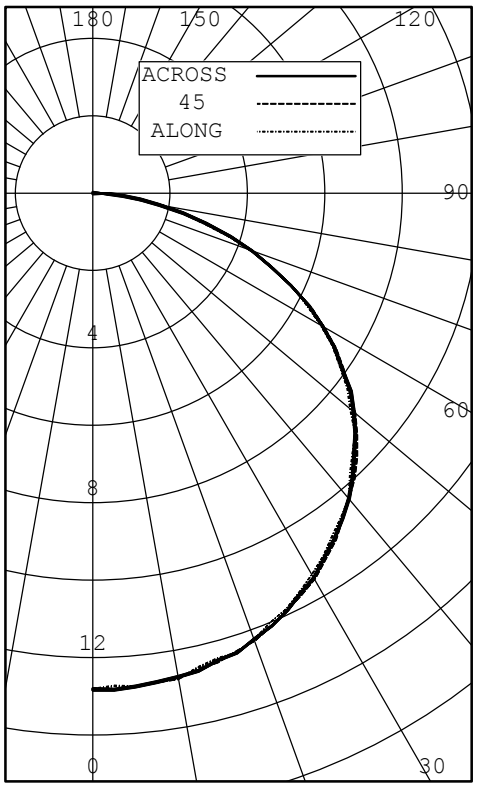

INTENSITY(CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	13	13	13	13	13	
5	13	13	13	13	13	1
10	13	13	13	13	13	
15	12	13	13	13	13	4
20	12	12	12	12	12	
25	12	12	12	12	12	5
30	11	11	12	11	11	
35	11	11	11	11	11	7
40	10	10	10	10	10	
45	10	10	10	10	10	7
50	9	9	9	9	9	
55	8	8	8	8	8	7
60	7	7	7	7	7	
65	6	6	6	6	6	6
70	4	4	4	4	4	
75	3	3	3	3	3	3
80	2	2	2	2	2	
85	1	1	1	1	1	1
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	10	24.90
0-40	17	41.45
0-60	31	76.45
0-90	41	100.00
40-90	24	58.55
60-90	10	23.55
90-180	0	0.00
0-180	41	100.00

EFFICACY (LUMENS PER WATT): 9.6

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 12.000 INS
WIDTH: 0.375 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
SC: 1.3

ANGLE	ALONG	45	ACROSS
45	4627	4718	4669
55	4684	4762	4732
65	4604	4621	4622
75	3925	4063	4074
85	2964	3169	3173

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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INTENSITY(CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	LUMENS
0.0	13	13	13	13	13	13	
2.5	13	13	13	13	13	13	
5.0	13	13	13	13	13	13	1
7.5	13	13	13	13	13	13	
10.0	13	13	13	13	13	13	
12.5	13	13	13	13	13	13	
15.0	12	13	13	13	13	13	4
17.5	12	12	12	12	12	12	
20.0	12	12	12	12	12	12	
22.5	12	12	12	12	12	12	
25.0	12	12	12	12	12	12	5
27.5	12	12	12	12	12	12	
30.0	11	11	12	11	11	11	
32.5	11	11	11	11	11	11	
35.0	11	11	11	11	11	11	7
37.5	11	11	11	11	11	11	
40.0	10	10	10	10	10	10	
42.5	10	10	10	10	10	10	
45.0	10	10	10	10	10	10	7
47.5	9	9	9	9	9	9	
50.0	9	9	9	9	9	9	
52.5	8	8	8	8	8	8	
55.0	8	8	8	8	8	8	7
57.5	7	7	7	7	7	7	
60.0	7	7	7	7	7	7	
62.5	6	6	6	6	6	6	
65.0	6	6	6	6	6	6	6
67.5	5	5	5	5	5	5	
70.0	4	4	4	4	4	4	
72.5	4	4	4	4	4	4	
75.0	3	3	3	3	3	3	3
77.5	2	2	2	2	2	2	
80.0	2	2	2	2	2	2	
82.5	1	1	1	1	1	1	
85.0	1	1	1	1	1	1	1
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	90				80				70				50			30			10			0
WALL	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																						
0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	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	1.11	1.06	1.02	0.97	1.09	1.04	1.00	0.96	1.06	1.02	0.98	0.94	0.97	0.94	0.91	0.94	0.91	0.89	0.90	0.88	0.86	0.84
2	1.02	0.93	0.86	0.80	0.99	0.91	0.85	0.79	0.97	0.89	0.83	0.78	0.86	0.81	0.76	0.83	0.78	0.74	0.80	0.76	0.73	0.71
3	0.93	0.82	0.73	0.66	0.90	0.80	0.72	0.66	0.88	0.78	0.71	0.65	0.76	0.69	0.64	0.73	0.67	0.63	0.70	0.66	0.62	0.60
4	0.85	0.73	0.63	0.56	0.83	0.71	0.63	0.56	0.81	0.70	0.62	0.56	0.67	0.60	0.55	0.65	0.59	0.54	0.63	0.58	0.53	0.51
5	0.78	0.65	0.55	0.48	0.76	0.63	0.54	0.48	0.74	0.62	0.54	0.47	0.60	0.53	0.47	0.58	0.51	0.46	0.56	0.51	0.46	0.44
6	0.72	0.57	0.48	0.42	0.70	0.56	0.47	0.41	0.68	0.55	0.47	0.41	0.54	0.46	0.40	0.52	0.45	0.40	0.50	0.44	0.40	0.38
7	0.66	0.51	0.42	0.36	0.64	0.50	0.41	0.35	0.62	0.49	0.41	0.35	0.48	0.40	0.35	0.46	0.39	0.34	0.45	0.39	0.34	0.32
8	0.61	0.46	0.37	0.31	0.59	0.45	0.37	0.31	0.58	0.45	0.37	0.31	0.43	0.36	0.31	0.42	0.35	0.30	0.41	0.35	0.30	0.28
9	0.56	0.42	0.33	0.27	0.55	0.41	0.33	0.27	0.53	0.41	0.33	0.27	0.39	0.32	0.27	0.38	0.31	0.27	0.37	0.31	0.26	0.25
10	0.52	0.38	0.29	0.24	0.51	0.38	0.29	0.24	0.50	0.37	0.29	0.24	0.36	0.29	0.24	0.35	0.28	0.23	0.34	0.28	0.23	0.22

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LUMINAIRE INPUT WATTS 4.3

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.

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Cone of Light

Cone of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	0.799	5.28
6.00	0.355	7.93
8.00	0.200	10.6
10.0	0.128	13.2
12.0	0.0888	15.9
14.0	0.0652	18.5
16.0	0.0500	21.1

Cone of Light Plot