



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-0140
Project Number
10460077
Test Number
758930

Test Date

2014-09-24

Prepared By

A handwritten signature in black ink, appearing to read 'Todd Heiland'.

Todd Heiland, Technician

Approved By

A handwritten signature in black ink, appearing to read 'Eric M. Gaudreau'.

Eric Gaudreau, Engineering Project Handler

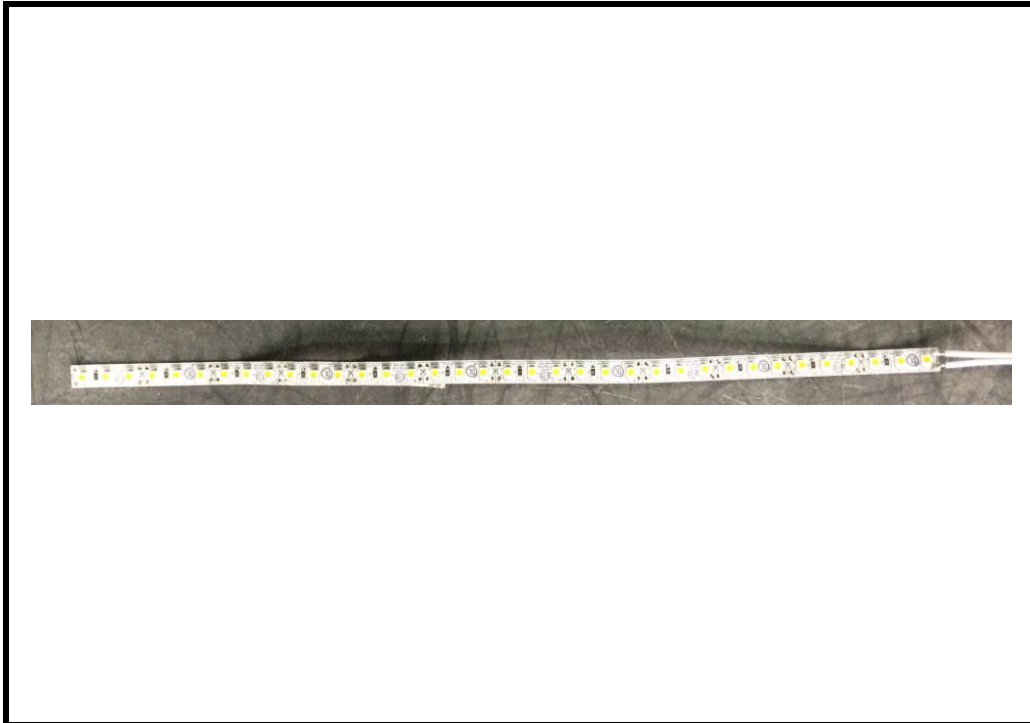
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Luminaire Description: LED strip
Catalog Number: BLAZE™ 12v LED Tape Light DI-12V-0140
Lamp: 36 white LEDs
Mounting: Surface
Ballast/Driver: One Meanwell LPV-60-12

Luminaire

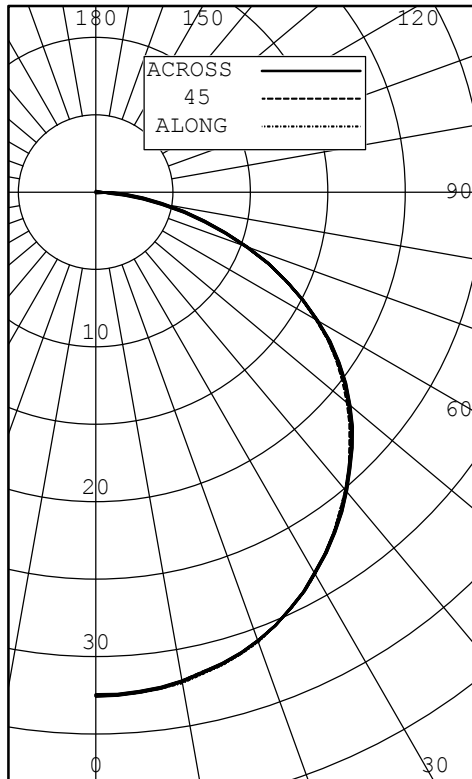


Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.09797 A
Power:	4.850 W
Power Factor:	0.415
Frequency:	60 Hz
Current THD:	193 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	33	33	33	33	33	
5	32	33	32	32	32	3
10	32	32	32	32	32	
15	32	32	32	32	32	9
20	31	31	31	31	31	
25	30	30	30	30	30	14
30	28	28	28	29	28	
35	27	27	27	27	27	17
40	25	25	25	25	25	
45	23	23	23	24	23	18
50	21	21	21	22	21	
55	19	19	19	19	19	17
60	17	16	16	17	17	
65	14	14	13	14	14	13
70	11	11	10	10	10	
75	7	7	7	7	7	8
80	4	4	4	4	4	
85	2	2	2	2	2	2
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	26	25.54
0-40	42	42.20
0-60	77	76.90
0-90	101	100.00
40-90	58	57.80
60-90	23	23.10
90-180	0	0.00
0-180	101	100.00

EFFICACY (LUMENS PER WATT): 21.0

*** 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	11349	11344	11417
55	11439	11423	11543
65	11125	11000	11126
75	9781	9726	9752
85	6718	7132	7537

TESTED IN ACCORDANCE WITH IES PROCEDURES.



Elemental LED Inc DBA Diode LED,CAT# BLAZE 12v LED Tape Light DI-12V-0140 (RED)
 N/A

N/A,CAT# N/A. LUMINAIRE OUTPUT = 101 LMS.
 120.0V 0.0980A 4.850W PF=0.415

INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	33	33	33	33	33	33	
2.5	33	33	33	33	33	33	
5.0	32	33	32	32	32	32	3
7.5	32	32	32	32	32	32	
10.0	32	32	32	32	32	32	
12.5	32	32	32	32	32	32	
15.0	32	32	32	32	32	32	9
17.5	31	31	31	31	31	31	
20.0	31	31	31	31	31	31	
22.5	30	30	30	30	30	30	
25.0	30	30	30	30	30	30	14
27.5	29	29	29	29	29	29	
30.0	28	28	28	29	28	28	
32.5	28	28	28	28	28	28	
35.0	27	27	27	27	27	27	17
37.5	26	26	26	26	26	26	
40.0	25	25	25	25	25	25	
42.5	24	24	24	24	24	24	
45.0	23	23	23	24	23	23	18
47.5	22	22	22	23	22	22	
50.0	21	21	21	22	21	21	
52.5	20	20	20	20	20	20	
55.0	19	19	19	19	19	19	17
57.5	18	18	18	18	18	18	
60.0	17	16	16	17	17	16	
62.5	15	15	15	15	15	15	
65.0	14	14	13	14	14	14	13
67.5	12	12	12	12	12	12	
70.0	11	11	10	10	10	10	
72.5	9	9	9	9	9	9	
75.0	7	7	7	7	7	7	8
77.5	6	6	6	6	6	6	
80.0	4	4	4	4	4	4	
82.5	3	3	3	3	3	3	
85.0	2	2	2	2	2	2	2
87.5	1	1	1	1	1	1	
90.0	0	0	0	0	0	0	



COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0	
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR	0	1.221	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.061	.06	1.021	.021	.021	.02	1.00
	1	1.121	.071	.030	.99	1.091	.051	.010	.97	1.071	.030	.990	.95	0.980	.950	.92	0.940	.920	.90	0.910	.890	.87	0.85			
	2	1.020	.940	.870	.81	1.000	.920	.860	.80	0.980	.900	.840	.79	0.870	.820	.77	0.840	.790	.76	0.810	.770	.74	0.72			
	3	0.930	.820	.740	.67	0.910	.810	.730	.67	0.890	.790	.720	.66	0.770	.700	.65	0.740	.690	.64	0.710	.670	.63	0.61			
	4	0.860	.740	.640	.58	0.840	.720	.640	.57	0.820	.710	.630	.57	0.690	.620	.56	0.660	.600	.56	0.640	.590	.55	0.53			
	5	0.790	.660	.560	.49	0.770	.650	.560	.49	0.750	.630	.550	.49	0.610	.540	.48	0.590	.530	.48	0.570	.520	.47	0.45			
	6	0.730	.590	.490	.43	0.710	.580	.490	.43	0.690	.570	.480	.42	0.550	.470	.42	0.530	.460	.41	0.520	.460	.41	0.39			
	7	0.660	.520	.430	.37	0.650	.510	.430	.37	0.630	.510	.420	.36	0.490	.410	.36	0.470	.410	.36	0.460	.400	.35	0.34			
	8	0.620	.470	.390	.32	0.600	.460	.380	.32	0.590	.460	.380	.32	0.440	.370	.32	0.430	.360	.32	0.420	.360	.31	0.29			
	9	0.570	.430	.340	.28	0.560	.420	.340	.28	0.540	.420	.340	.28	0.400	.330	.28	0.390	.330	.28	0.380	.320	.27	0.26			
	10	0.530	.390	.300	.25	0.520	.380	.300	.25	0.510	.380	.300	.25	0.370	.300	.25	0.360	.290	.25	0.350	.290	.24	0.23			

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

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.



Cone of Light

Cone of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	2.02	5.19
6.00	0.900	7.78
8.00	0.506	10.4
10.0	0.324	13.0
12.0	0.225	15.6
14.0	0.165	18.1
16.0	0.127	20.7

Cone of Light Plot

