



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-0141
Project Number
10460077
Test Number
758931

Test Date

2014-09-25

Prepared By

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

Todd Heiland, Technician

Approved By

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

Eric Gaudreau, Engineering Project Handler

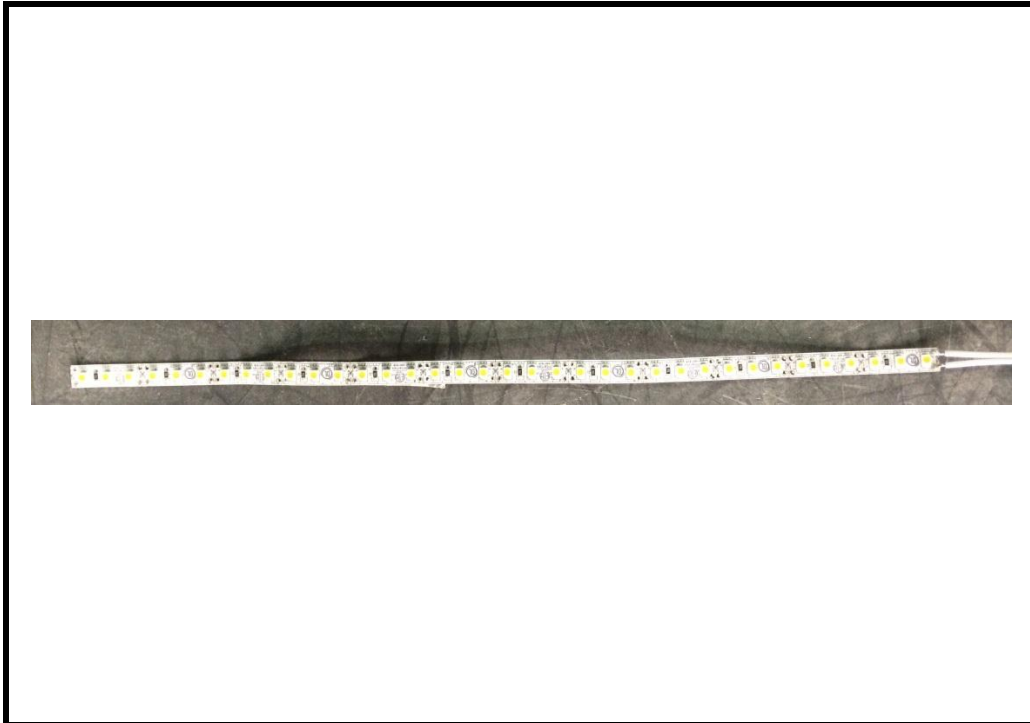
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Luminaire Description: LED strip
Catalog Number: BLAZE™ 12v LED Tape Light DI-12V-0141
Lamp: 36 white LEDs
Mounting: Surface
Ballast/Driver: One Meanwell LPV-60-12

Luminaire

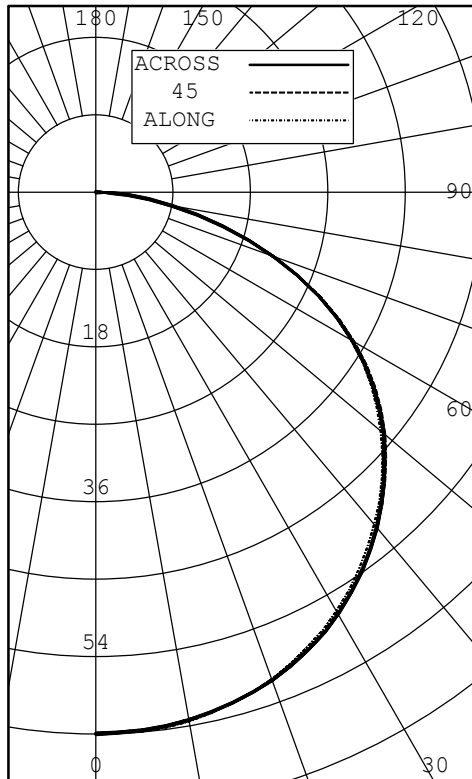


Test Conditions

Test Temperature:	24.3 °C
Voltage:	120.0 VAC
Current:	0.08737 A
Power:	4.296 W
Power Factor:	0.407
Frequency:	60 Hz
Current THD:	192 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	63	63	63	63	63	
5	63	63	63	63	63	6
10	63	62	62	62	62	
15	62	61	61	62	62	17
20	60	60	60	60	60	
25	58	58	58	59	59	27
30	56	56	56	57	57	
35	53	54	54	54	54	34
40	50	51	51	51	51	
45	47	47	48	48	47	37
50	43	44	44	44	44	
55	39	39	40	40	39	35
60	34	34	35	35	34	
65	29	29	29	29	29	28
70	22	22	22	22	22	
75	15	15	16	15	15	16
80	9	9	9	9	9	
85	4	4	4	4	4	4
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	50	24.60
0-40	84	41.02
0-60	156	76.02
0-90	205	100.00
40-90	121	58.98
60-90	49	23.98
90-180	0	0.00
0-180	205	100.00

EFFICACY (LUMENS PER WATT): 47.6

*** 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	22918	23250	23177
55	23450	23901	23750
65	23309	23678	23398
75	20428	20652	20506
85	14030	15254	15075

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	63	63	63	63	63	63	
2.5	63	63	63	63	63	63	
5.0	63	63	63	63	63	63	6
7.5	63	63	63	63	63	63	
10.0	63	62	62	62	62	62	
12.5	62	62	62	62	62	62	
15.0	62	61	61	62	62	61	17
17.5	61	61	61	61	61	61	
20.0	60	60	60	60	60	60	
22.5	59	59	59	60	60	59	
25.0	58	58	58	59	59	58	27
27.5	57	57	58	58	58	58	
30.0	56	56	56	57	57	56	
32.5	55	55	55	56	55	55	
35.0	53	54	54	54	54	54	34
37.5	52	52	52	53	52	52	
40.0	50	51	51	51	51	51	
42.5	49	49	49	49	49	49	
45.0	47	47	48	48	47	47	37
47.5	45	45	46	46	46	46	
50.0	43	44	44	44	44	44	
52.5	41	41	42	42	42	42	
55.0	39	39	40	40	39	39	35
57.5	37	37	37	37	37	37	
60.0	34	34	35	35	34	35	
62.5	32	32	32	32	32	32	
65.0	29	29	29	29	29	29	28
67.5	25	26	26	26	25	26	
70.0	22	22	22	22	22	22	
72.5	19	19	19	19	19	19	
75.0	15	15	16	15	15	15	16
77.5	12	12	12	12	12	12	
80.0	9	9	9	9	9	9	
82.5	6	6	6	6	6	6	
85.0	4	4	4	4	4	4	4
87.5	1	2	2	2	2	2	
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	.061	.020	.98	1.091	.041	.000	.96	1.061	.020	.980	.95	0.980	.940	.92	0.940	.910	.89	0.900	.880	.86	0.84			
	2	1.020	.940	.870	.80	0.990	.920	.850	.79	0.970	.900	.830	.78	0.860	.810	.76	0.830	.790	.75	0.800	.760	.73	0.71			
	3	0.930	.820	.730	.66	0.910	.800	.720	.66	0.880	.790	.710	.65	0.760	.690	.64	0.730	.680	.63	0.710	.660	.62	0.60			
	4	0.850	.730	.630	.57	0.830	.720	.630	.56	0.810	.700	.620	.56	0.680	.610	.55	0.650	.590	.54	0.630	.580	.54	0.52			
	5	0.790	.650	.550	.48	0.760	.640	.550	.48	0.740	.620	.540	.48	0.600	.530	.47	0.580	.520	.47	0.560	.510	.46	0.44			
	6	0.720	.580	.480	.42	0.700	.570	.480	.41	0.680	.560	.470	.41	0.540	.460	.41	0.520	.450	.40	0.510	.440	.40	0.38			
	7	0.660	.510	.420	.36	0.640	.500	.420	.36	0.630	.500	.410	.35	0.480	.400	.35	0.460	.400	.34	0.450	.390	.34	0.32			
	8	0.610	.460	.380	.31	0.590	.460	.370	.31	0.580	.450	.370	.31	0.430	.360	.31	0.420	.350	.30	0.410	.350	.30	0.28			
	9	0.560	.420	.330	.27	0.550	.410	.330	.27	0.530	.410	.330	.27	0.390	.320	.27	0.380	.310	.27	0.370	.310	.26	0.25			
	10	0.520	.380	.290	.24	0.510	.380	.290	.24	0.500	.370	.290	.24	0.360	.290	.24	0.350	.280	.23	0.340	.280	.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.



Cone of Light

Cone of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	3.92	5.31
6.00	1.74	7.97
8.00	0.980	10.6
10.0	0.627	13.3
12.0	0.436	15.9
14.0	0.320	18.6
16.0	0.245	21.3

Cone of Light Plot

