



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
SIDEWINDER Tape Light DI-12V-0026
Project Number
10458922
Test Number
738588

Test Date

2014-09-17

Prepared By

Handwritten signature of Javier Caban in black ink.

Javier Caban, Technician

Approved By

Handwritten signature of Eric M. Gaudreau in black ink.

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: SIDEWINDER Tape Light DI-12V-0026
Lamp: 18 white LEDs
Mounting: Surface
Ballast/Driver: One Meanwell LPV-60-12

Luminaire

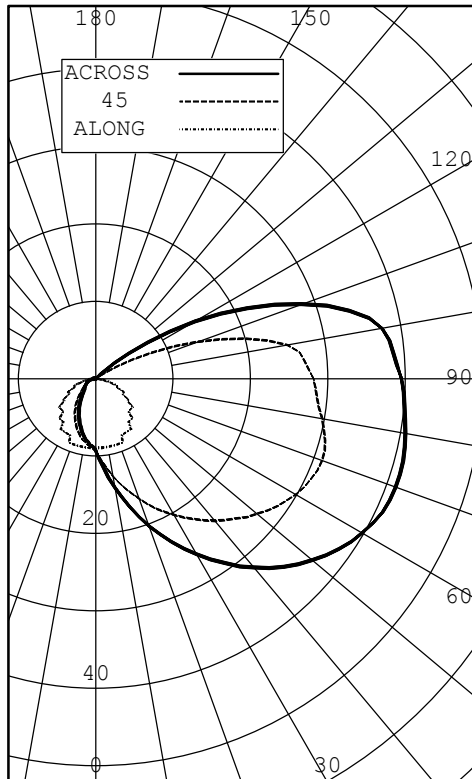


Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.05111 A
Power:	2.379 W
Power Factor:	0.388
Frequency:	60 Hz
Current THD:	164 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT
 BEAM SIDE LUMENS



ANGLE	ALONG	67.5	45	22.5	ACROSS	OUTPUT LUMENS
0	9	9	9	9	9	
5	9	10	11	11	12	1
15	9	12	15	17	17	2
25	8	13	19	22	23	4
35	8	15	22	27	29	6
45	6	16	26	32	34	9
55	5	16	29	36	38	12
65	4	17	31	39	41	13
75	2	17	31	39	41	14
85	1	14	29	37	40	14
90	0	13	28	37	40	
95	0	12	27	36	39	13
105	0	4	20	31	34	9
115	0	0	8	18	22	5
125	0	0	1	6	8	1
135	0	0	0	1	1	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

BOTH SIDES
 ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	10	8.52
0-40	18	15.66
0-60	41	36.21
0-90	84	74.49
40-90	66	58.83
60-90	43	38.28
90-180	29	25.51
0-180	113	100.00

EFFICACY (LUMENS PER WATT): 47.0

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 11.500 INS
 WIDTH: 0.250 INS

LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	4574	19593	26328
55	4699	27079	36231
65	5102	39301	52375
75	4166	64026	85940
85	6186	177993	248387

TESTED IN ACCORDANCE WITH IES PROCEDURES.



BEAM SIDE
INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS		
0	9	9	9	9	9	9	
5	9	10	11	11	12	11	1
10	9	11	13	14	14	12	
15	9	12	15	17	17	14	2
20	9	13	17	19	20	16	
25	8	13	19	22	23	17	4
30	8	14	20	25	26	19	
35	8	15	22	27	29	21	6
40	7	15	24	30	32	22	
45	6	16	26	32	34	23	9
50	6	16	27	34	37	25	
55	5	16	29	36	38	26	12
60	4	16	30	38	40	26	
65	4	17	31	39	41	27	13
70	3	17	31	39	41	27	
75	2	17	31	39	41	27	14
80	1	16	30	38	41	26	
85	1	14	29	37	40	25	14
90	0	13	28	37	40	25	
95	0	12	27	36	39	24	13
100	0	8	25	35	38	22	
105	0	4	20	31	34	18	9
110	0	1	14	25	28	13	
115	0	0	8	18	22	9	5
120	0	0	3	12	15	6	
125	0	0	1	6	8	3	1
130	0	0	0	2	3	1	
135	0	0	0	1	1	0	0
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	



OPPOSITE SIDE TO BEAM
INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS	AVERAGE	
0	9	9	9	9	9	9	
5	9	9	9	9	9	9	0
10	9	9	8	8	8	8	
15	9	8	8	7	7	8	1
20	9	8	7	6	6	7	
25	8	7	6	6	5	6	1
30	8	7	6	5	4	6	
35	8	6	5	4	4	5	2
40	7	5	4	3	3	4	
45	6	5	3	2	2	4	1
50	6	4	3	2	2	3	
55	5	3	2	2	2	3	1
60	4	3	2	2	2	2	
65	4	2	1	1	1	2	1
70	3	2	1	1	1	1	
75	2	1	1	1	1	1	1
80	1	1	1	1	1	1	
85	1	0	0	0	0	0	0
90	0	0	0	0	0	0	
95	0	0	0	0	0	0	0
100	0	0	0	0	0	0	
105	0	0	0	0	0	0	0
110	0	0	0	0	0	0	
115	0	0	0	0	0	0	0
120	0	0	0	0	0	0	
125	0	0	0	0	0	0	0
130	0	0	0	0	0	0	
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
	1.191	1.191	1.191	1.19	1.131	1.131	1.131	1.13	1.071	1.071	1.071	1.07	0.970	0.970	0.97	0.870	0.870	0.87	0.790	0.790	0.79	0.74			
	1.030	0.960	0.890	0.83	0.980	0.910	0.840	0.79	0.920	0.860	0.800	0.75	0.770	0.720	0.68	0.680	0.650	0.61	0.610	0.580	0.55	0.51			
	0.910	0.800	0.710	0.62	0.860	0.760	0.670	0.60	0.810	0.720	0.640	0.57	0.640	0.570	0.52	0.570	0.510	0.47	0.500	0.460	0.42	0.38			
	0.820	0.680	0.570	0.49	0.770	0.650	0.550	0.47	0.720	0.610	0.520	0.45	0.540	0.470	0.41	0.480	0.420	0.37	0.420	0.370	0.33	0.29			
	0.750	0.590	0.480	0.40	0.700	0.560	0.460	0.38	0.660	0.530	0.440	0.37	0.470	0.400	0.34	0.420	0.360	0.30	0.370	0.320	0.27	0.24			
	0.680	0.520	0.410	0.33	0.640	0.490	0.390	0.32	0.600	0.470	0.370	0.30	0.410	0.340	0.28	0.370	0.300	0.25	0.320	0.270	0.22	0.19			
	0.620	0.460	0.350	0.28	0.580	0.430	0.340	0.27	0.540	0.410	0.320	0.25	0.370	0.290	0.23	0.320	0.260	0.21	0.290	0.230	0.19	0.16			
	0.560	0.410	0.300	0.24	0.530	0.380	0.290	0.22	0.500	0.360	0.280	0.21	0.320	0.250	0.19	0.290	0.220	0.17	0.250	0.200	0.15	0.13			
	0.520	0.360	0.270	0.20	0.490	0.350	0.250	0.19	0.460	0.330	0.240	0.18	0.290	0.220	0.17	0.260	0.200	0.15	0.230	0.170	0.13	0.11			
	0.480	0.330	0.230	0.17	0.460	0.310	0.220	0.16	0.430	0.300	0.210	0.16	0.260	0.190	0.14	0.240	0.170	0.13	0.210	0.150	0.11	0.09			
	0.450	0.300	0.210	0.15	0.420	0.280	0.200	0.14	0.400	0.270	0.190	0.14	0.240	0.170	0.12	0.220	0.150	0.11	0.190	0.140	0.10	0.08			

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.