



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
TRUE FOCUS™ 12V Light Bar DI-0253
Project Number
10461972
Test Number
748158

Test Date

2014-09-09

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

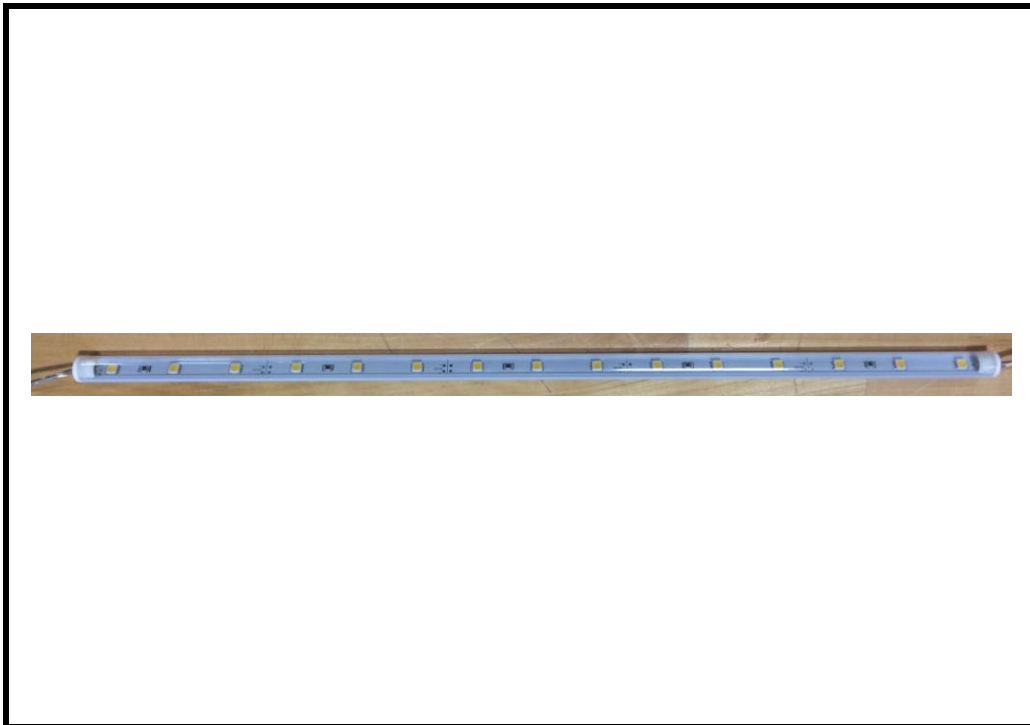
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Luminaire Description: White plastic housing, clear plastic enclosure
Catalog Number: TRUE FOCUS™ 12V Light Bar DI-0253
Lamp: 15 white LEDs
Mounting: Surface
Ballast/Driver: One Meanwell LPV-60-12

Luminaire

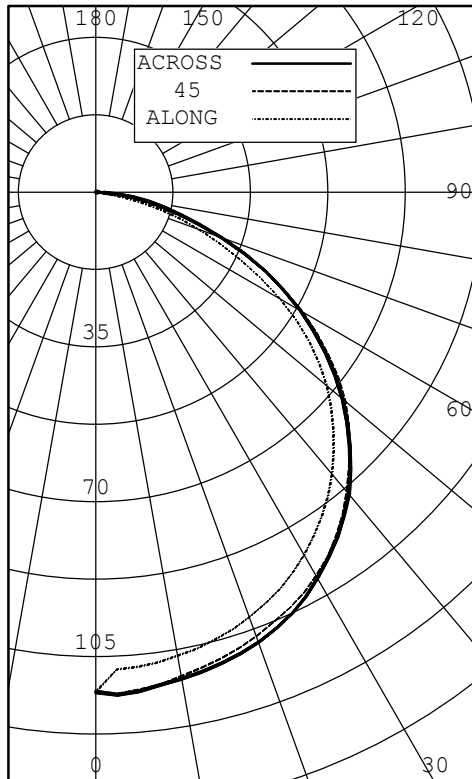


Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.09132 A
Power:	4.800 W
Power Factor:	0.438
Frequency:	60 Hz
Current THD:	180 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	113	113	113	113	113	
5	108	113	113	114	113	11
15	105	110	109	111	110	31
25	99	103	104	106	105	48
35	89	94	95	96	95	59
45	76	81	81	82	81	62
55	59	64	64	64	63	56
65	36	43	43	43	42	41
75	15	18	19	20	20	20
85	1	2	5	6	5	5
90	0	1	1	0	0	
95	0	0	0	0	0	0
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	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	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	89	26.85
0-40	148	44.51
0-60	267	80.14
0-90	333	99.98
40-90	185	55.47
60-90	66	19.84
90-180	0	0.02
0-180	333	100.00

EFFICACY (LUMENS PER WATT): 69.4

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 18.750 INS
 WIDTH: 0.625 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3

SC (ALONG): 1.2, SC (ACROSS): 1.3

ANGLE	ALONG	45	ACROSS
45	14206	11899	10890
55	13593	10585	9347
65	11282	8347	7178
75	7793	4629	4156
85	834	1708	1394

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	113	113	113	113	113	113	
5	108	113	113	114	113	113	11
10	107	112	111	112	112	111	
15	105	110	109	111	110	109	31
20	102	107	107	109	108	107	
25	99	103	104	106	105	104	48
30	95	99	100	101	101	99	
35	89	94	95	96	95	94	59
40	83	88	88	89	89	88	
45	76	81	81	82	81	81	62
50	68	73	74	73	73	73	
55	59	64	64	64	63	63	56
60	48	54	54	54	53	53	
65	36	43	43	43	42	42	41
70	25	31	31	31	30	30	
75	15	18	19	20	20	19	20
80	6	8	10	12	12	10	
85	1	2	5	6	5	4	5
90	0	1	1	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	1.221	.221	.221	.221	1.191	.191	.191	.191	1.161	.161	.161	.161	1.111	.111	.111	1.061	.061	.061	1.021	.021	.021	1.00			
1	1.121	.071	.031	1.00	1.101	.051	.010	.98	1.071	.031	.000	.96	0.990	.960	.93	0.950	.930	.90	0.920	.900	.88	0.86			
2	1.030	.950	.890	.83	1.010	.930	.870	.82	0.980	.910	.860	.81	0.880	.830	.79	0.850	.810	.77	0.820	.780	.76	0.73			
3	0.940	.840	.760	.69	0.920	.820	.750	.69	0.900	.810	.740	.68	0.780	.720	.67	0.750	.700	.66	0.730	.690	.65	0.63			
4	0.870	.750	.660	.60	0.850	.740	.660	.59	0.830	.730	.650	.59	0.700	.630	.58	0.680	.620	.57	0.660	.610	.57	0.55			
5	0.800	.670	.580	.51	0.780	.660	.570	.51	0.760	.650	.570	.51	0.630	.560	.50	0.610	.540	.50	0.590	.540	.49	0.47			
6	0.740	.600	.510	.45	0.720	.590	.500	.44	0.700	.580	.500	.44	0.560	.490	.44	0.550	.480	.43	0.530	.470	.43	0.41			
7	0.670	.530	.450	.39	0.660	.530	.440	.38	0.640	.520	.440	.38	0.500	.430	.38	0.490	.420	.37	0.480	.420	.37	0.35			
8	0.630	.480	.400	.34	0.610	.480	.390	.34	0.600	.470	.390	.33	0.460	.380	.33	0.440	.380	.33	0.430	.370	.33	0.31			
9	0.580	.440	.350	.29	0.570	.430	.350	.29	0.550	.430	.350	.29	0.410	.340	.29	0.400	.340	.29	0.390	.330	.29	0.27			
10	0.540	.400	.310	.26	0.520	.390	.310	.26	0.510	.390	.310	.26	0.380	.310	.26	0.370	.300	.26	0.360	.300	.25	0.24			

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	7.16	5.21
6.00	3.18	7.82
8.00	1.79	10.4
10.0	1.15	13.0
12.0	0.796	15.6
14.0	0.585	18.2
16.0	0.448	20.9

Cone of Light Plot

