



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-0251
Project Number
10461972
Test Number
748156

Test Date

2014-09-09

Prepared By

A handwritten signature in black ink that reads 'Javier Caban'.

Javier Caban, Technician

Approved By

A handwritten signature in black ink that reads 'Eric M. Gaudreau'.

Eric Gaudreau, Engineering Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White plastic housing, clear plastic enclosure
Catalog Number: TRUE FOCUS™ 12V Light Bar DI-0251
Lamp: Nine white LEDs
Mounting: Surface
Ballast/Driver: One Meanwell LPV-60-12

Luminaire

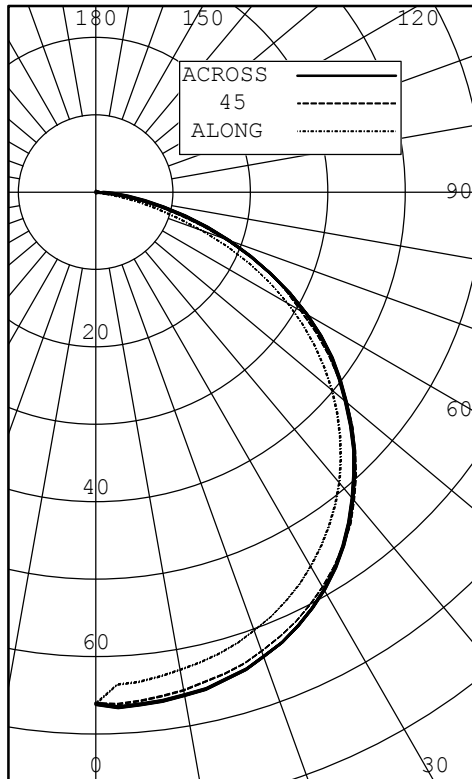


Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.06464 A
Power:	3.169 W
Power Factor:	0.408
Frequency:	60 Hz
Current THD:	172 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	66	66	66	66	66	
5	64	66	66	67	66	6
15	62	64	64	66	65	18
25	58	61	61	63	62	28
35	53	55	56	56	56	35
45	45	48	47	48	47	36
55	35	38	37	37	37	33
65	22	25	25	25	25	24
75	8	11	11	12	12	12
85	0	1	2	2	2	2
90	0	0	0	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	53	27.09
0-40	87	44.87
0-60	156	80.43
0-90	195	100.00
40-90	107	55.13
60-90	38	19.57
90-180	0	0.00
0-180	195	100.00

EFFICACY (LUMENS PER WATT): 60.8

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 12.250 INS
 WIDTH: 0.625 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	12783	10607	9689
55	12177	9274	8388
65	10538	7435	6457
75	6414	4285	3795
85	116	1045	962

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	66	66	66	66	66	66	
5	64	66	66	67	66	66	6
10	63	65	65	67	66	65	
15	62	64	64	66	65	64	18
20	60	63	63	64	64	63	
25	58	61	61	63	62	61	28
30	56	58	59	60	59	59	
35	53	55	56	56	56	55	35
40	49	52	52	52	52	52	
45	45	48	47	48	47	47	36
50	40	43	42	43	42	42	
55	35	38	37	37	37	37	33
60	29	32	31	32	32	31	
65	22	25	25	25	25	25	24
70	15	17	18	19	18	18	
75	8	11	11	12	12	11	12
80	3	4	6	6	7	5	
85	0	1	2	2	2	2	2
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	1.221	.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	.031	.00	1.101	.051	.020	.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	.75	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	.720	.650	.59	0.700	.630	.58	0.680	.620	.57	0.660	.610	.57	0.54			
5	0.800	.670	.580	.51	0.780	.660	.570	.51	0.760	.650	.560	.51	0.630	.550	.50	0.610	.540	.49	0.590	.530	.49	0.47			
6	0.740	.600	.510	.44	0.720	.590	.500	.44	0.700	.580	.500	.44	0.560	.490	.43	0.540	.480	.43	0.530	.470	.42	0.41			
7	0.670	.530	.440	.39	0.660	.530	.440	.38	0.640	.520	.440	.38	0.500	.430	.37	0.490	.420	.37	0.470	.410	.37	0.35			
8	0.620	.480	.400	.34	0.610	.470	.390	.33	0.600	.470	.390	.33	0.450	.380	.33	0.440	.380	.33	0.430	.370	.33	0.31			
9	0.580	.440	.350	.29	0.560	.430	.350	.29	0.550	.430	.350	.29	0.410	.340	.29	0.400	.330	.29	0.390	.330	.28	0.27			
10	0.530	.400	.310	.26	0.520	.390	.310	.26	0.510	.390	.310	.26	0.380	.300	.26	0.370	.300	.25	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	4.22	5.25
6.00	1.87	7.87
8.00	1.05	10.5
10.0	0.675	13.1
12.0	0.469	15.7
14.0	0.344	18.4
16.0	0.264	21.0

Cone of Light Plot

