



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-0250
Project Number
10461972
Test Number
748155

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

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-0250
Lamp: Nine white LEDs
Mounting: Surface
Ballast/Driver: One Meanwell LPV-60-12

Luminaire

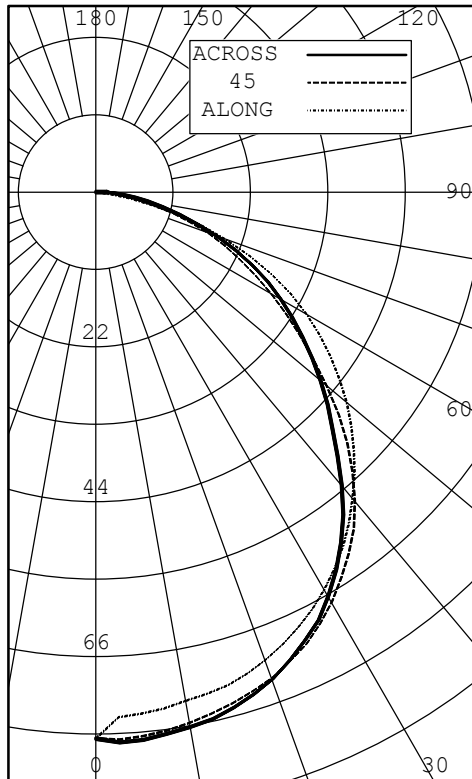


Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.0 VAC
Current:	0.06817 A
Power:	3.380 W
Power Factor:	0.414
Frequency:	60 Hz
Current THD:	174 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	78	78	78	78	78	
5	74	77	78	79	78	7
15	73	75	75	77	76	21
25	68	71	71	71	70	32
35	61	64	63	62	61	39
45	52	54	51	49	48	39
55	41	40	35	36	36	34
65	28	22	23	25	25	24
75	12	8	11	12	12	12
85	0	1	3	4	4	3
90	0	0	1	1	2	
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	61	28.94
0-40	100	47.36
0-60	173	81.68
0-90	211	99.89
40-90	111	52.53
60-90	38	18.21
90-180	0	0.11
0-180	211	100.00

EFFICACY (LUMENS PER WATT): 62.2

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 12.250 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	14859	11324	9761
55	14365	8921	8083
65	13197	6762	6354
75	9230	4285	3921
85	813	1541	1611

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	78	78	78	78	78	78	
5	74	77	78	79	78	78	7
10	73	76	77	78	77	77	
15	73	75	75	77	76	75	21
20	71	73	73	75	74	73	
25	68	71	71	71	70	71	32
30	65	68	67	67	66	67	
35	61	64	63	62	61	62	39
40	57	59	57	56	54	57	
45	52	54	51	49	48	51	39
50	47	48	43	42	42	44	
55	41	40	35	36	36	38	34
60	35	32	29	30	30	31	
65	28	22	23	25	25	24	24
70	20	15	17	19	18	17	
75	12	8	11	12	12	11	12
80	5	4	6	7	8	6	
85	0	1	3	4	4	2	3
90	0	0	1	1	2	1	
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	1.131	.081	.041	.00	1.101	.061	.020	.98	1.071	.041	.000	.97	0.990	.960	.94	0.950	.930	.91	0.920	.900	.88	0.86			
	2	1.030	.960	.890	.83	1.010	.940	.880	.83	0.990	.920	.860	.82	0.880	.840	.80	0.850	.810	.78	0.820	.790	.76	0.74			
	3	0.950	.850	.770	.70	0.930	.830	.760	.70	0.900	.820	.750	.69	0.790	.730	.68	0.760	.710	.67	0.740	.700	.66	0.64			
	4	0.880	.760	.670	.61	0.860	.750	.670	.61	0.840	.730	.660	.60	0.710	.640	.59	0.690	.630	.59	0.670	.620	.58	0.56			
	5	0.810	.680	.590	.52	0.790	.670	.580	.52	0.770	.660	.580	.52	0.640	.570	.51	0.620	.560	.51	0.600	.550	.50	0.48			
	6	0.750	.610	.520	.46	0.730	.600	.520	.46	0.710	.590	.510	.45	0.570	.500	.45	0.560	.490	.44	0.540	.480	.44	0.42			
	7	0.680	.550	.460	.40	0.670	.540	.450	.40	0.650	.530	.450	.39	0.510	.440	.39	0.500	.430	.38	0.490	.430	.38	0.36			
	8	0.630	.490	.410	.35	0.620	.490	.410	.35	0.610	.480	.400	.35	0.470	.400	.34	0.460	.390	.34	0.440	.380	.34	0.32			
	9	0.590	.450	.360	.31	0.570	.440	.360	.31	0.560	.440	.360	.31	0.420	.350	.30	0.410	.350	.30	0.400	.340	.30	0.28			
	10	0.540	.410	.320	.27	0.530	.400	.320	.27	0.520	.400	.320	.27	0.390	.320	.27	0.380	.310	.27	0.370	.310	.27	0.25			

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	4.94	5.10
6.00	2.20	7.65
8.00	1.23	10.2
10.0	0.790	12.8
12.0	0.549	15.3
14.0	0.403	17.9
16.0	0.309	20.4

Cone of Light Plot

