

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P580151

Luminaire Tested: **HVSL12-2-LD4-2STD-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: HVSL12-2-LD4-2STD-40-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

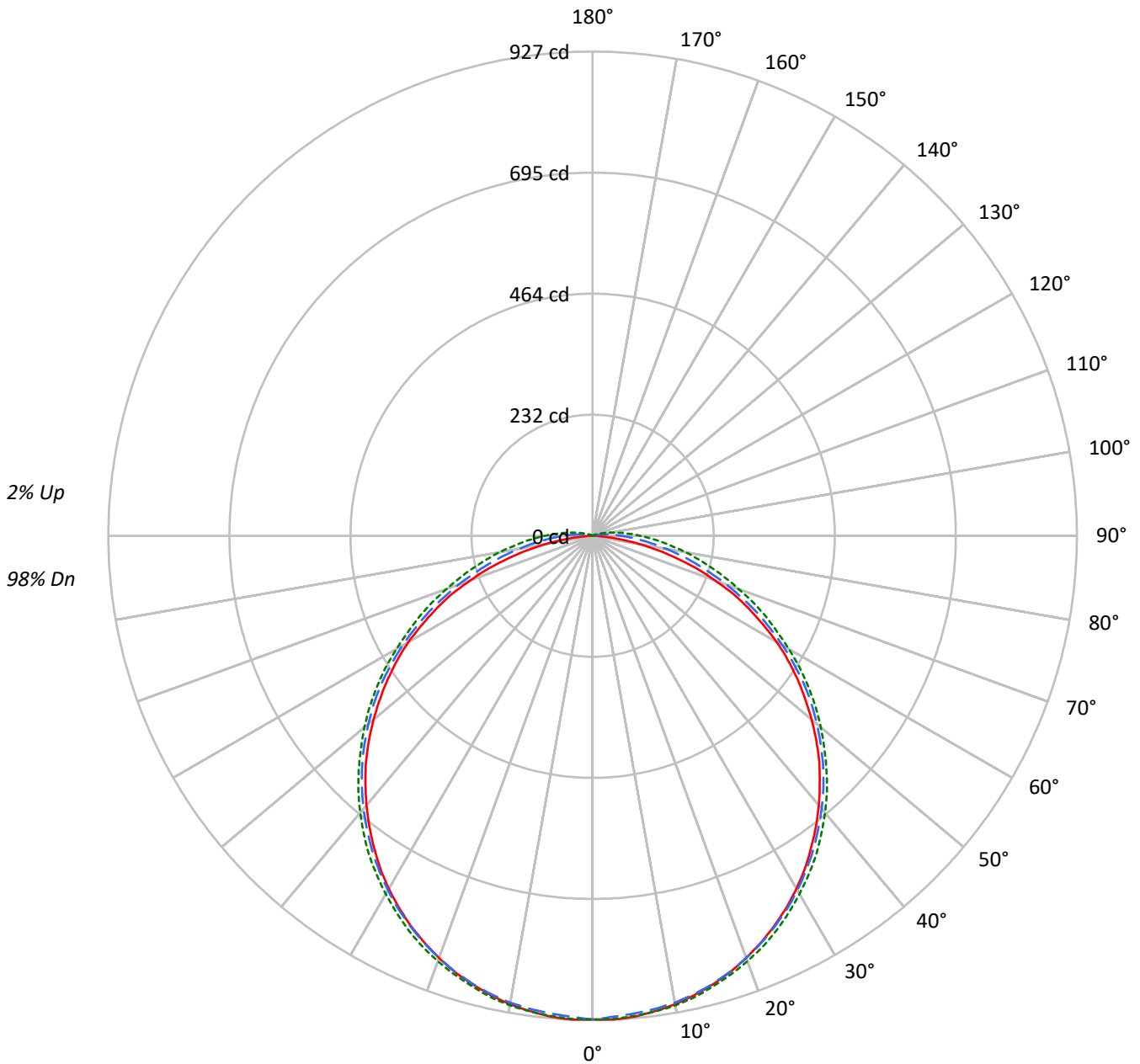
Lumens per Lamp: N/A
Luminaire Lumens: 2800.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101					98				
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83					81				
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69					67				
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58					56				
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50					47				
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43					41				
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38					36				
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34					32				
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30					28				
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27					25				
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25					23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4984	4984	4984
5°	4956	4885	4913
10°	4905	4810	4848
15°	4845	4724	4762
20°	4781	4627	4679
25°	4708	4527	4593
30°	4626	4419	4490
35°	4527	4300	4389
40°	4422	4174	4265
45°	4310	4035	4130
50°	4168	3874	3983
55°	4015	3696	3819
60°	3832	3461	3622
65°	3554	3197	3431
70°	3170	2883	3204
75°	2642	2538	3016
80°	1892	2202	2876
85°	911	1870	2797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.1
10°-20°	251.4	9.0
20°-30°	381.4	13.6
30°-40°	461.2	16.5
40°-50°	481.2	17.2
50°-60°	440.0	15.7
60°-70°	343.0	12.2
70°-80°	214.6	7.7
80°-90°	97.4	3.5
90°-100°	32.6	1.2
100°-110°	8.2	0.3
110°-120°	1.3	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	720.4	25.7
0°-40°	1181.6	42.2
0°-60°	2102.9	75.1
0°-90°	2757.8	98.5
90°-120°	42.2	1.5
90°-150°	42.2	1.5
90°-180°	42.0	1.5
0°-180°	2800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	924	922	918	923	923	88
15°	889	890	888	893	893	251
25°	824	824	825	832	834	380
35°	729	732	736	743	746	456
45°	614	619	624	630	633	473
55°	479	484	493	501	504	428
65°	329	335	346	360	366	326
75°	167	177	203	227	235	178
85°	29	53	92	121	132	36
90°	0	20	54	81	91	1
95°	0	5	28	51	58	0
105°	0	1	5	14	18	0
115°	1	1	1	2	4	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.1	926.1	926.1	926.1	926.1
2.5°	927.2	925.9	921.7	925.9	925.6
5°	924.1	922.4	918.2	922.6	922.6
7.5°	918.0	917.3	913.6	918.6	918.6
10°	910.8	910.6	907.5	913.0	913.2
12.5°	900.7	901.6	898.8	904.0	904.7
15°	889.0	890.5	888.1	893.1	892.9
17.5°	876.1	877.0	875.2	880.9	880.7
20°	860.1	861.2	859.9	865.8	866.5
22.5°	842.5	844.0	843.8	849.9	851.6
25°	823.7	824.3	825.2	832.2	833.5
27.5°	802.9	804.0	805.6	811.9	813.2
30°	780.2	782.0	783.7	790.3	792.0
32.5°	756.2	758.0	760.2	768.7	769.5
35°	729.2	732.4	735.5	742.9	746.0
37.5°	702.1	706.2	709.1	716.9	719.3
40°	673.5	677.6	682.2	690.5	692.0
42.5°	643.6	648.4	653.8	661.3	663.9
45°	613.5	618.9	623.9	630.0	633.1
47.5°	580.9	586.4	592.5	599.5	601.4
50°	547.3	553.6	560.2	566.7	570.2
52.5°	512.8	520.5	527.9	534.9	538.1
55°	478.8	484.4	493.4	500.6	503.9
57.5°	443.4	448.2	456.3	468.1	469.8
60°	407.4	411.7	420.0	429.6	433.6
62.5°	367.6	373.5	382.3	394.5	398.0
65°	329.0	334.7	346.2	360.0	365.7
67.5°	291.7	293.6	308.5	322.9	332.0
70°	247.6	255.0	272.2	289.9	296.9
72.5°	209.6	217.0	236.0	256.7	265.5
75°	166.6	176.8	202.6	226.8	235.3
77.5°	128.8	140.2	172.0	196.5	206.3
80°	89.9	107.6	142.3	169.8	180.5
82.5°	56.5	78.4	115.5	144.3	153.7
85°	28.8	53.3	91.5	120.9	131.6
87.5°	7.6	34.5	71.2	99.3	110.2
90°	0.2	19.9	53.9	81.0	90.8
92.5°	0.2	11.1	40.2	64.4	74.4
95°	0.2	5.2	27.9	50.6	58.5
97.5°	0.2	2.2	19.2	38.2	46.1
100°	0.2	1.1	12.2	27.7	34.5
102.5°	0.4	0.7	7.6	19.9	25.3
105°	0.4	0.7	4.6	13.5	18.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	0.9	3.7	5.5
115°	0.7	0.7	0.9	2.4	3.5
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	0.4	0.7	2.6	9.2	12.4
110°	0.7	0.7	1.5	5.7	8.3



(END OF REPORT)