

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: P580368

Luminaire Tested: **HVSL2-3-LD4-STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580368  
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: HVSL2-3-LD4-STD-40-UNV-O-EDD  
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

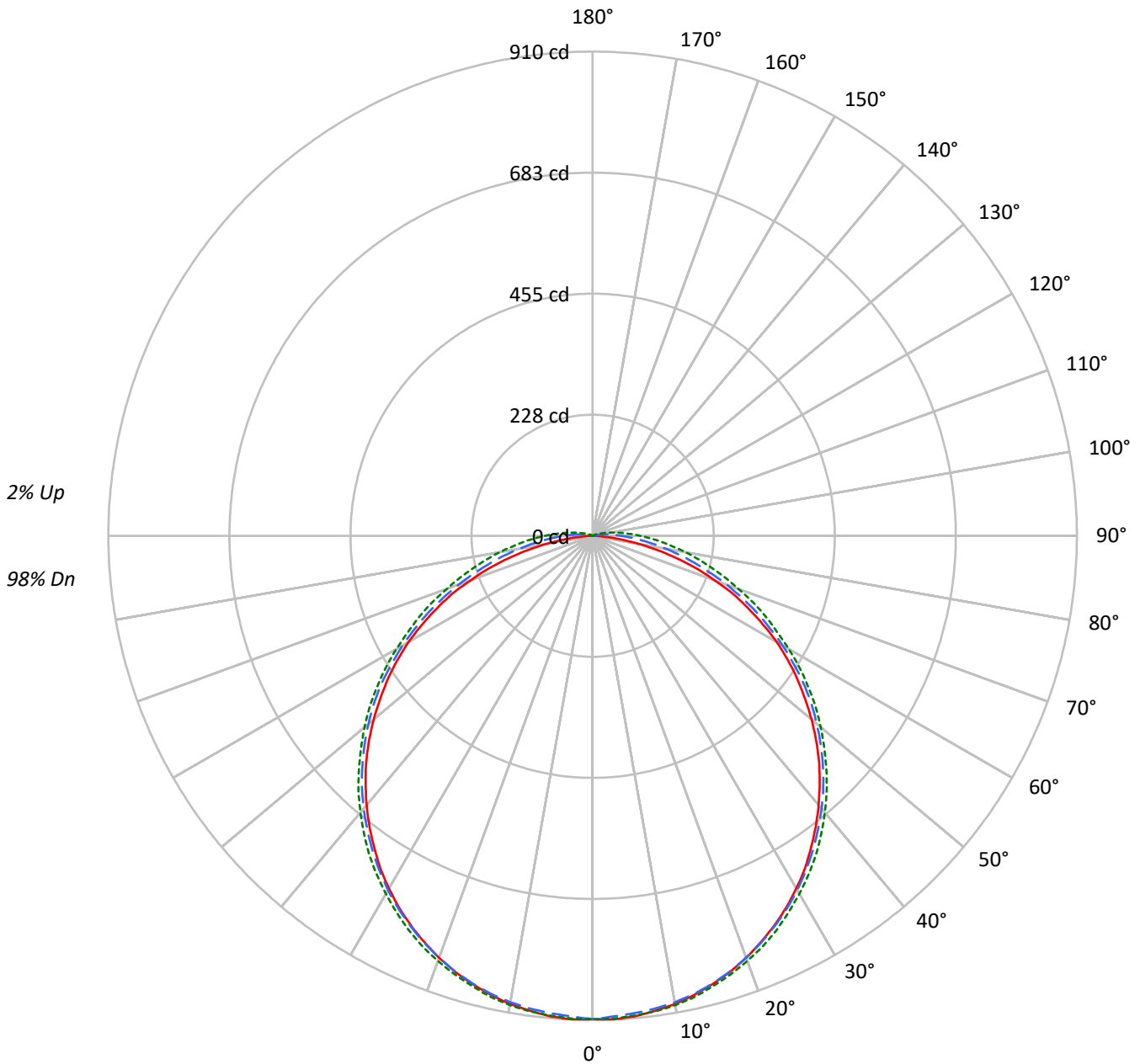
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2747.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 24.5  
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				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°	19558	19558	19558
5°	19497	18273	17985
10°	19342	17198	16648
15°	19152	16182	15397
20°	18950	15197	14278
25°	18710	14265	13245
30°	18437	13357	12244
35°	18097	12454	11311
40°	17740	11565	10373
45°	17357	10670	9454
50°	16865	9741	8547
55°	16333	8792	7640
60°	15698	7738	6703
65°	14692	6653	5810
70°	13264	5510	4892
75°	11257	4367	4058
80°	8314	3307	3291
85°	4275	2324	2565



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	3.1
10°-20°	246.6	9.0
20°-30°	374.2	13.6
30°-40°	452.5	16.5
40°-50°	472.1	17.2
50°-60°	431.7	15.7
60°-70°	336.5	12.2
70°-80°	210.5	7.7
80°-90°	95.6	3.5
90°-100°	32.0	1.2
100°-110°	8.0	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°	706.8	25.7
0°-40°	1159.3	42.2
0°-60°	2063.0	75.1
0°-90°	2705.6	98.5
90°-120°	41.3	1.5
90°-150°	41.3	1.5
90°-180°	41.0	1.5
0°-180°	2747.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	907	905	901	905	905	86
15°	872	874	871	876	876	246
25°	808	809	810	816	818	372
35°	715	719	722	729	732	448
45°	602	607	612	618	621	464
55°	470	475	484	491	494	420
65°	323	328	340	353	359	319
75°	163	174	199	222	231	174
85°	28	52	90	119	129	36
90°	0	20	53	80	89	1
95°	0	5	27	50	57	0
105°	0	1	4	13	18	0
115°	1	1	1	2	3	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°	908.5	908.5	908.5	908.5	908.5
2.5°	909.6	908.3	904.3	908.3	908.1
5°	906.6	904.9	900.8	905.1	905.1
7.5°	900.6	900.0	896.3	901.3	901.3
10°	893.5	893.3	890.3	895.7	895.9
12.5°	883.7	884.6	881.8	886.9	887.6
15°	872.1	873.6	871.3	876.2	876.0
17.5°	859.5	860.4	858.6	864.2	864.0
20°	843.9	844.9	843.6	849.4	850.1
22.5°	826.5	828.0	827.8	833.8	835.5
25°	808.1	808.7	809.6	816.4	817.7
27.5°	787.7	788.8	790.3	796.5	797.8
30°	765.5	767.2	768.9	775.3	777.0
32.5°	741.9	743.6	745.8	754.1	755.0
35°	715.4	718.6	721.6	728.8	731.8
37.5°	688.8	692.9	695.6	703.4	705.7
40°	660.7	664.8	669.3	677.4	678.9
42.5°	631.4	636.1	641.5	648.7	651.3
45°	601.8	607.2	612.1	618.1	621.1
47.5°	569.9	575.3	581.3	588.1	590.1
50°	536.9	543.2	549.6	556.0	559.4
52.5°	503.1	510.6	517.9	524.7	527.9
55°	469.7	475.3	484.0	491.1	494.3
57.5°	435.0	439.7	447.6	459.2	460.9
60°	399.7	403.9	412.1	421.5	425.4
62.5°	360.7	366.5	375.0	387.0	390.4
65°	322.8	328.3	339.7	353.2	358.7
67.5°	286.1	288.1	302.6	316.8	325.8
70°	242.9	250.2	267.1	284.4	291.3
72.5°	205.6	212.9	231.5	251.9	260.4
75°	163.4	173.5	198.8	222.5	230.9
77.5°	126.4	137.5	168.8	192.8	202.4
80°	88.2	105.6	139.6	166.6	177.1
82.5°	55.5	76.9	113.3	141.6	150.8
85°	28.3	52.3	89.7	118.7	129.1
87.5°	7.5	33.8	69.8	97.5	108.2
90°	0.2	19.5	52.9	79.5	89.1
92.5°	0.2	10.9	39.4	63.2	73.0
95°	0.2	5.1	27.4	49.7	57.4
97.5°	0.2	2.1	18.8	37.5	45.2
100°	0.2	1.1	12.0	27.2	33.8
102.5°	0.4	0.6	7.5	19.5	24.8
105°	0.4	0.6	4.5	13.3	17.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.9	3.6	5.4
115°	0.6	0.6	0.9	2.4	3.4
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	0.6	2.6	9.0	12.2
110°	0.6	0.6	1.5	5.6	8.1



(END OF REPORT)