

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: P580529

Luminaire Tested: **HVSL4-3-LD4-1LO-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580529
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: HVSL4-3-LD4-1LO-50-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

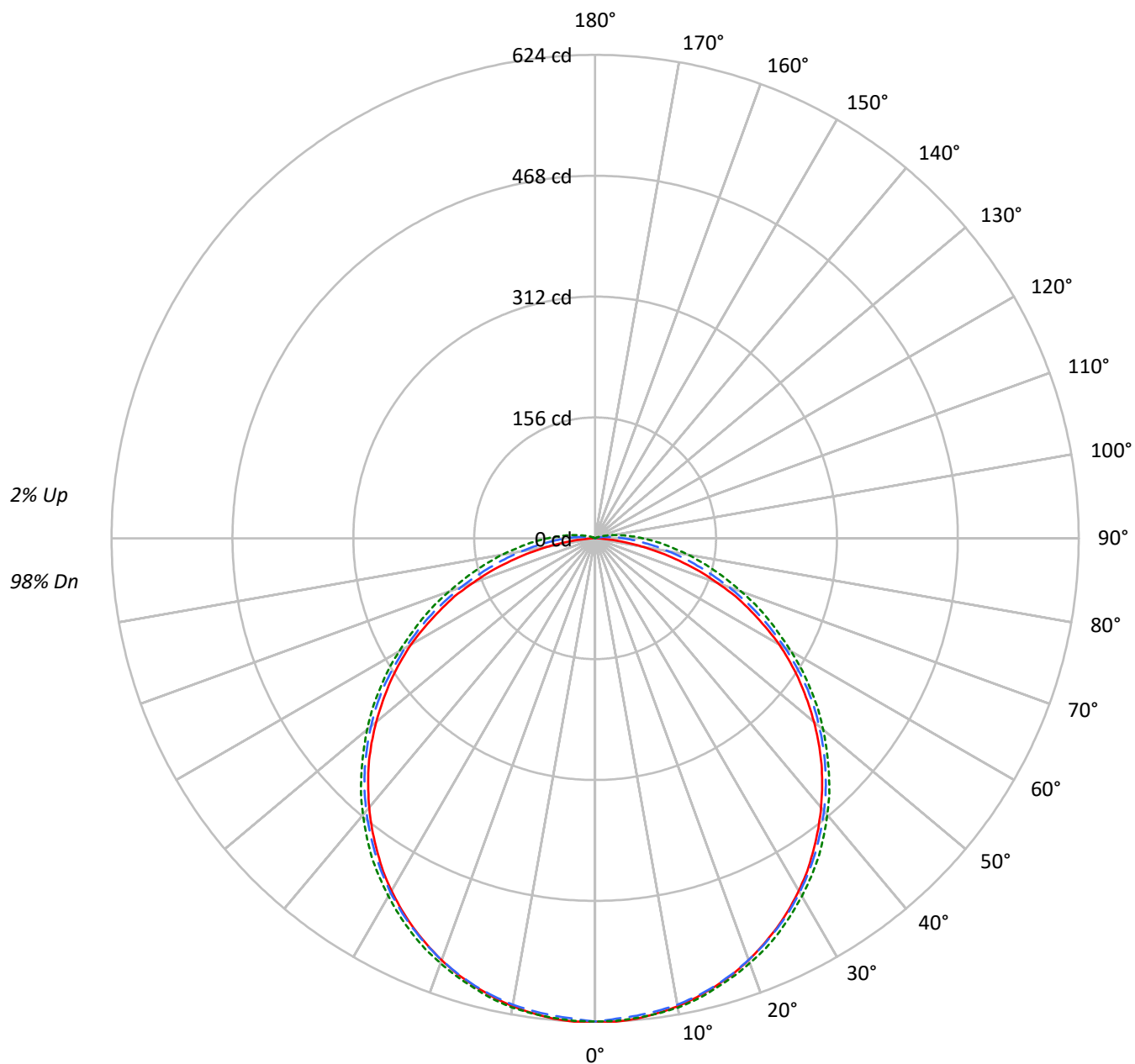
Lumens per Lamp: N/A
Luminaire Lumens: 1886.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 17.3
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	6715	6715	6715
5°	6694	6461	6433
10°	6640	6249	6178
15°	6575	6031	5910
20°	6505	5804	5656
25°	6423	5579	5407
30°	6328	5348	5145
35°	6212	5105	4890
40°	6090	4856	4613
45°	5959	4593	4327
50°	5789	4303	4030
55°	5607	3995	3716
60°	5389	3624	3368
65°	5043	3223	3027
70°	4554	2776	2651
75°	3865	2302	2300
80°	2856	1841	1965
85°	1465	1385	1631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	3.1
10°-20°	169.3	9.0
20°-30°	256.9	13.6
30°-40°	310.6	16.5
40°-50°	324.1	17.2
50°-60°	296.4	15.7
60°-70°	231.0	12.3
70°-80°	144.5	7.7
80°-90°	65.6	3.5
90°-100°	22.0	1.2
100°-110°	5.5	0.3
110°-120°	0.9	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°	485.3	25.7
0°-40°	795.9	42.2
0°-60°	1416.4	75.1
0°-90°	1857.6	98.5
90°-120°	28.4	1.5
90°-150°	28.4	1.5
90°-180°	28.0	1.5
0°-180°	1886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	622	621	618	621	621	59
15°	599	600	598	602	601	169
25°	555	555	556	560	561	256
35°	491	493	495	500	502	307
45°	413	417	420	424	426	318
55°	322	326	332	337	339	288
65°	222	225	233	242	246	219
75°	112	119	136	153	158	120
85°	19	36	62	82	89	25
90°	0	13	36	55	61	1
95°	0	4	19	34	39	0
105°	0	0	3	9	12	0
115°	0	0	1	2	2	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.8	623.8	623.8	623.8	623.8
2.5°	624.5	623.6	620.8	623.6	623.5
5°	622.5	621.3	618.5	621.4	621.4
7.5°	618.3	617.9	615.4	618.8	618.8
10°	613.5	613.3	611.3	615.0	615.1
12.5°	606.7	607.3	605.4	608.9	609.4
15°	598.8	599.8	598.2	601.6	601.4
17.5°	590.1	590.7	589.5	593.3	593.2
20°	579.4	580.1	579.2	583.2	583.6
22.5°	567.5	568.5	568.3	572.5	573.6
25°	554.8	555.3	555.8	560.5	561.4
27.5°	540.8	541.6	542.6	546.9	547.8
30°	525.5	526.7	527.9	532.3	533.5
32.5°	509.4	510.5	512.0	517.8	518.3
35°	491.1	493.3	495.4	500.4	502.5
37.5°	472.9	475.7	477.6	482.9	484.5
40°	453.6	456.4	459.5	465.1	466.1
42.5°	433.5	436.7	440.4	445.4	447.2
45°	413.2	416.9	420.3	424.4	426.4
47.5°	391.3	395.0	399.1	403.8	405.1
50°	368.6	372.9	377.3	381.7	384.1
52.5°	345.4	350.6	355.6	360.3	362.5
55°	322.5	326.3	332.3	337.2	339.4
57.5°	298.7	301.9	307.3	315.3	316.4
60°	274.4	277.3	282.9	289.4	292.0
62.5°	247.6	251.6	257.5	265.7	268.1
65°	221.6	225.4	233.2	242.5	246.3
67.5°	196.5	197.8	207.8	217.5	223.7
70°	166.8	171.8	183.4	195.3	200.0
72.5°	141.2	146.2	159.0	172.9	178.8
75°	112.2	119.1	136.5	152.8	158.5
77.5°	86.8	94.4	115.9	132.3	139.0
80°	60.6	72.5	95.9	114.4	121.6
82.5°	38.1	52.8	77.8	97.2	103.5
85°	19.4	35.9	61.6	81.5	88.7
87.5°	5.1	23.2	47.9	66.9	74.3
90°	0.1	13.4	36.3	54.6	61.2
92.5°	0.1	7.5	27.1	43.4	50.1
95°	0.1	3.5	18.8	34.1	39.4
97.5°	0.1	1.5	12.9	25.7	31.0
100°	0.1	0.7	8.2	18.7	23.2
102.5°	0.3	0.4	5.1	13.4	17.1
105°	0.3	0.4	3.1	9.1	12.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.6	2.5	3.7
115°	0.4	0.4	0.6	1.6	2.4
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°	0.3	0.4	1.8	6.2	8.4
110°	0.4	0.4	1.0	3.8	5.6



(END OF REPORT)