

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: P580361

Luminaire Tested: **HVSL2-3-LD4-LO-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580361
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-LO-50-UNV-O-EDD-90
Description: 3 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

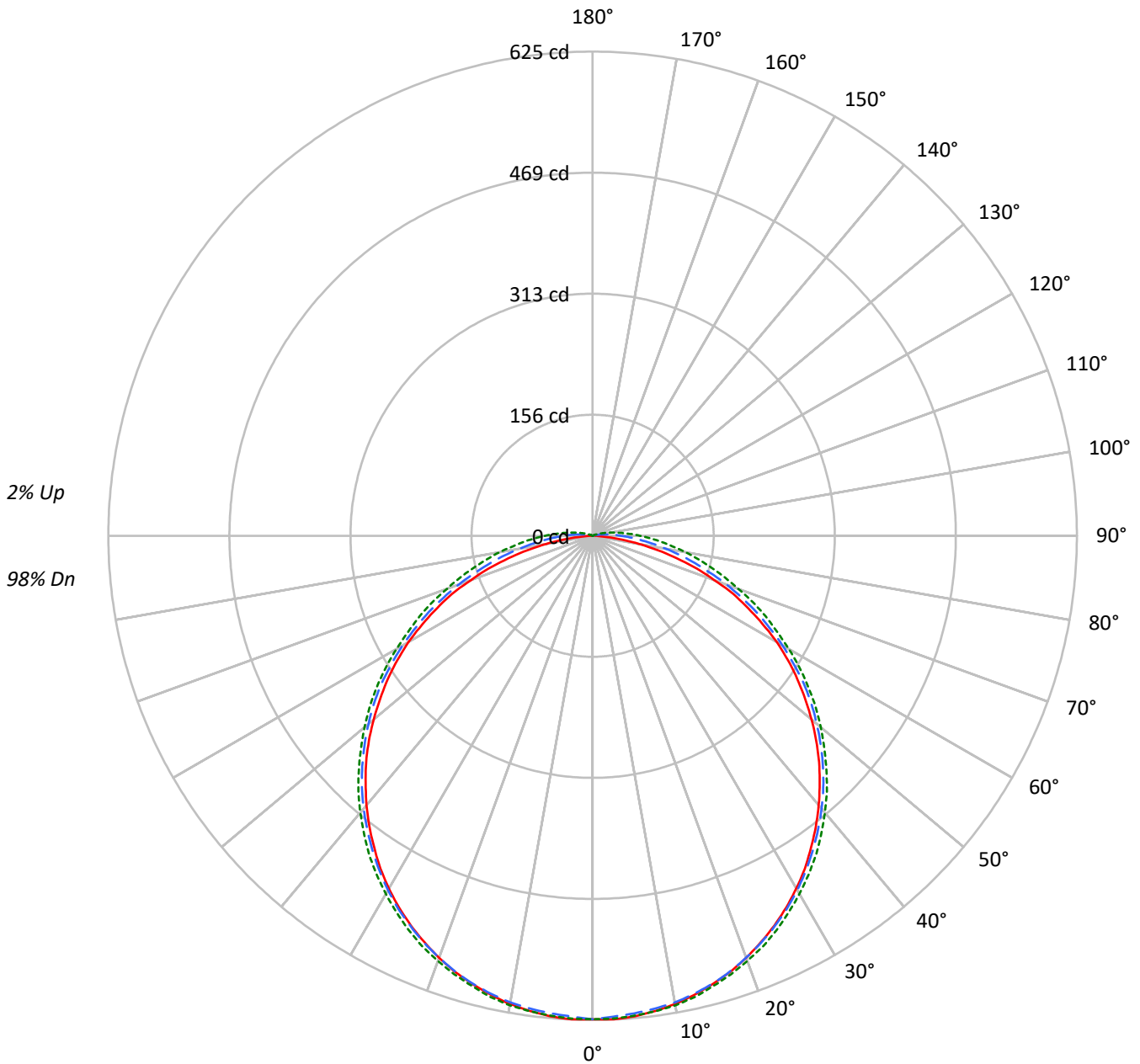
Lumens per Lamp: N/A
Luminaire Lumens: 1886.9 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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				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°	13436	13436	13436
5°	13394	12552	12356
10°	13287	11814	11436
15°	13156	11115	10576
20°	13017	10439	9807
25°	12852	9798	9099
30°	12664	9175	8412
35°	12431	8555	7770
40°	12188	7945	7126
45°	11923	7330	6495
50°	11584	6691	5872
55°	11218	6040	5249
60°	10781	5316	4604
65°	10091	4569	3991
70°	9108	3786	3360
75°	7736	2999	2787
80°	5713	2272	2261
85°	2931	1596	1762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	3.1
10°-20°	169.4	9.0
20°-30°	257.0	13.6
30°-40°	310.8	16.5
40°-50°	324.3	17.2
50°-60°	296.5	15.7
60°-70°	231.1	12.3
70°-80°	144.6	7.7
80°-90°	65.7	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°	485.5	25.7
0°-40°	796.3	42.2
0°-60°	1417.2	75.1
0°-90°	1858.6	98.5
90°-120°	28.4	1.5
90°-150°	28.4	1.5
90°-180°	28.0	1.5
0°-180°	1886.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	624	624	624	624	624	
5°	623	622	619	622	622	59
15°	599	600	598	602	602	169
25°	555	556	556	561	562	256
35°	491	494	496	501	503	308
45°	413	417	420	425	427	319
55°	323	326	332	337	340	288
65°	222	226	233	243	246	219
75°	112	119	136	153	159	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	624.1	624.1	624.1	624.1	624.1
2.5°	624.8	624.0	621.2	624.0	623.8
5°	622.8	621.6	618.8	621.8	621.8
7.5°	618.7	618.2	615.7	619.1	619.1
10°	613.8	613.7	611.6	615.3	615.4
12.5°	607.0	607.6	605.7	609.2	609.7
15°	599.1	600.1	598.5	601.9	601.7
17.5°	590.4	591.0	589.8	593.7	593.5
20°	579.7	580.4	579.5	583.5	583.9
22.5°	567.8	568.8	568.6	572.8	573.9
25°	555.1	555.5	556.1	560.8	561.7
27.5°	541.1	541.9	542.9	547.2	548.0
30°	525.8	527.0	528.2	532.6	533.8
32.5°	509.6	510.8	512.3	518.0	518.6
35°	491.4	493.6	495.7	500.7	502.7
37.5°	473.2	476.0	477.9	483.2	484.8
40°	453.9	456.7	459.8	465.4	466.4
42.5°	433.7	437.0	440.6	445.6	447.4
45°	413.4	417.1	420.5	424.6	426.7
47.5°	391.5	395.2	399.3	404.0	405.3
50°	368.8	373.1	377.5	381.9	384.3
52.5°	345.6	350.7	355.7	360.5	362.7
55°	322.6	326.5	332.5	337.4	339.6
57.5°	298.8	302.0	307.5	315.4	316.6
60°	274.5	277.5	283.1	289.5	292.2
62.5°	247.8	251.7	257.6	265.9	268.2
65°	221.7	225.5	233.3	242.6	246.4
67.5°	196.6	197.9	207.9	217.6	223.8
70°	166.8	171.8	183.5	195.4	200.1
72.5°	141.2	146.2	159.0	173.0	178.9
75°	112.3	119.2	136.5	152.9	158.6
77.5°	86.8	94.5	115.9	132.4	139.0
80°	60.6	72.5	95.9	114.5	121.7
82.5°	38.1	52.8	77.8	97.2	103.6
85°	19.4	35.9	61.6	81.5	88.7
87.5°	5.1	23.2	48.0	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	50.2
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)