

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: P580526

Luminaire Tested: **HVSL4-3-LD4-1LO-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580526
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-35-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

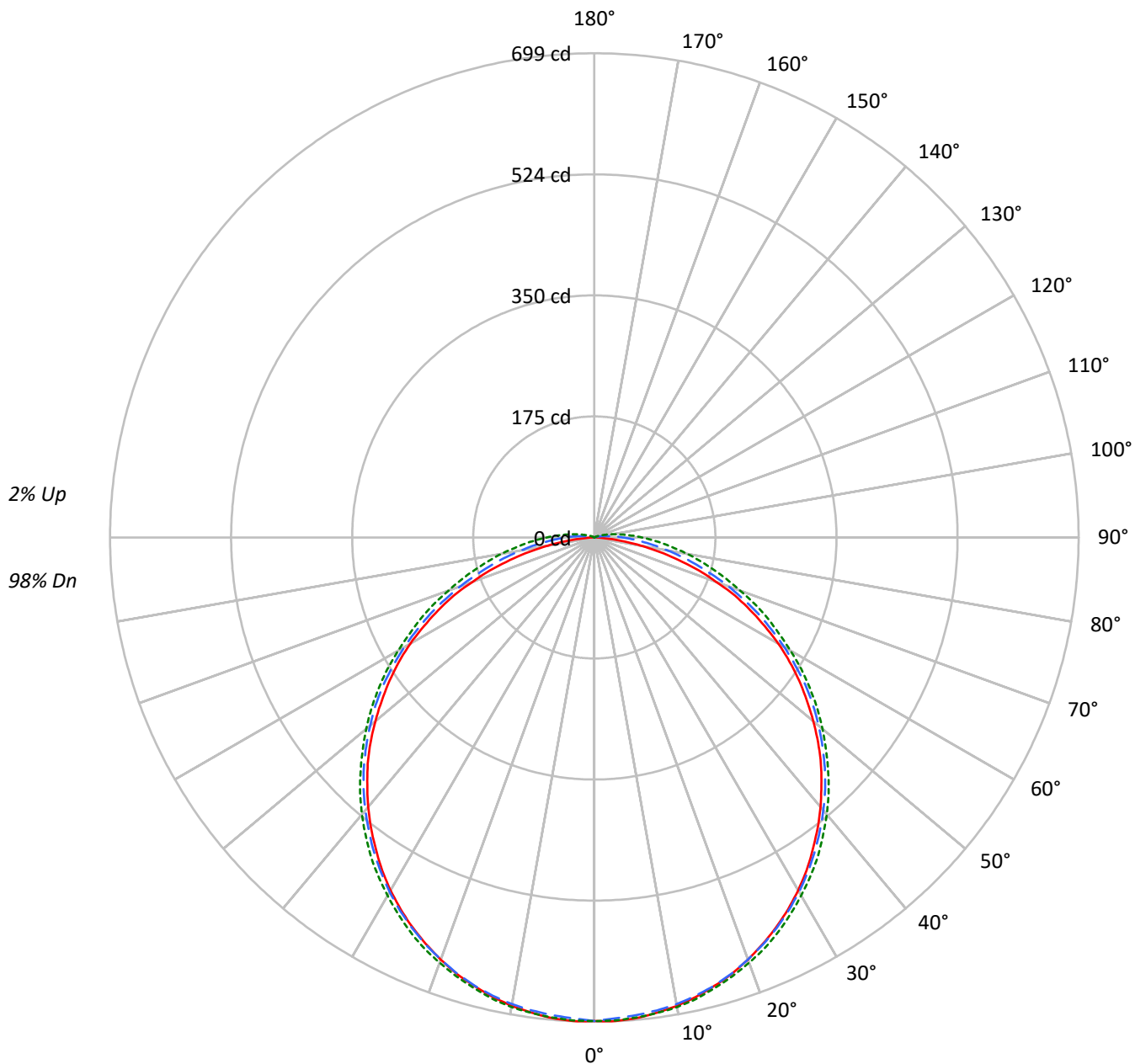
Lumens per Lamp: N/A
Luminaire Lumens: 2111.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

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°	7515	7515	7515
5°	7491	7232	7201
10°	7433	6994	6915
15°	7359	6751	6615
20°	7281	6497	6331
25°	7189	6245	6052
30°	7084	5986	5759
35°	6953	5714	5473
40°	6817	5435	5165
45°	6670	5141	4843
50°	6480	4816	4511
55°	6275	4472	4159
60°	6031	4057	3771
65°	5644	3608	3388
70°	5095	3105	2967
75°	4326	2575	2574
80°	3196	2060	2199
85°	1639	1552	1824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	3.1
10°-20°	189.5	9.0
20°-30°	287.6	13.6
30°-40°	347.7	16.5
40°-50°	362.8	17.2
50°-60°	331.7	15.7
60°-70°	258.6	12.2
70°-80°	161.8	7.7
80°-90°	73.5	3.5
90°-100°	24.6	1.2
100°-110°	6.2	0.3
110°-120°	1.0	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°	543.2	25.7
0°-40°	890.9	42.2
0°-60°	1585.4	75.1
0°-90°	2079.2	98.5
90°-120°	31.8	1.5
90°-150°	31.8	1.5
90°-180°	32.0	1.5
0°-180°	2111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	697	695	692	696	696	66
15°	670	671	670	673	673	189
25°	621	622	622	627	628	286
35°	550	552	554	560	562	344
45°	462	467	470	475	477	356
55°	361	365	372	377	380	322
65°	248	252	261	271	276	245
75°	126	133	153	171	177	134
85°	22	40	69	91	99	27
90°	0	15	41	61	68	1
95°	0	4	21	38	44	0
105°	0	0	4	10	14	0
115°	0	0	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	698.2	698.2	698.2	698.2	698.2
2.5°	699.0	698.0	694.9	698.0	697.9
5°	696.7	695.4	692.3	695.6	695.6
7.5°	692.1	691.6	688.8	692.6	692.6
10°	686.7	686.5	684.2	688.3	688.5
12.5°	679.1	679.8	677.6	681.6	682.1
15°	670.2	671.4	669.6	673.3	673.2
17.5°	660.5	661.2	659.8	664.1	664.0
20°	648.5	649.3	648.3	652.8	653.3
22.5°	635.2	636.3	636.1	640.7	642.1
25°	621.0	621.5	622.2	627.4	628.4
27.5°	605.4	606.2	607.3	612.1	613.1
30°	588.2	589.6	590.9	595.8	597.1
32.5°	570.1	571.5	573.1	579.5	580.2
35°	549.7	552.2	554.5	560.1	562.4
37.5°	529.3	532.4	534.6	540.5	542.3
40°	507.8	510.9	514.3	520.6	521.8
42.5°	485.2	488.8	492.9	498.5	500.5
45°	462.5	466.6	470.4	475.0	477.3
47.5°	438.0	442.1	446.7	452.0	453.4
50°	412.6	417.4	422.3	427.3	429.9
52.5°	386.6	392.4	398.0	403.2	405.7
55°	360.9	365.2	372.0	377.4	379.9
57.5°	334.3	337.9	344.0	352.9	354.2
60°	307.1	310.4	316.7	323.9	326.9
62.5°	277.2	281.6	288.2	297.4	300.0
65°	248.0	252.3	261.0	271.4	275.7
67.5°	219.9	221.4	232.6	243.4	250.3
70°	186.6	192.2	205.2	218.6	223.8
72.5°	158.0	163.6	177.9	193.6	200.1
75°	125.6	133.3	152.7	171.0	177.4
77.5°	97.1	105.7	129.7	148.1	155.5
80°	67.8	81.1	107.3	128.1	136.1
82.5°	42.6	59.1	87.1	108.8	115.9
85°	21.7	40.2	69.0	91.2	99.2
87.5°	5.8	26.0	53.7	74.9	83.1
90°	0.2	15.0	40.7	61.1	68.5
92.5°	0.2	8.4	30.3	48.6	56.1
95°	0.2	4.0	21.1	38.2	44.1
97.5°	0.2	1.6	14.5	28.8	34.7
100°	0.2	0.8	9.2	20.9	26.0
102.5°	0.3	0.5	5.8	15.0	19.1
105°	0.3	0.5	3.5	10.2	13.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	2.8	4.1
115°	0.5	0.5	0.7	1.8	2.6
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	0.5	2.0	6.9	9.4
110°	0.5	0.5	1.2	4.3	6.3



(END OF REPORT)