

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: P580528

Luminaire Tested: **HVSL4-3-LD4-1LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580528
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-40-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

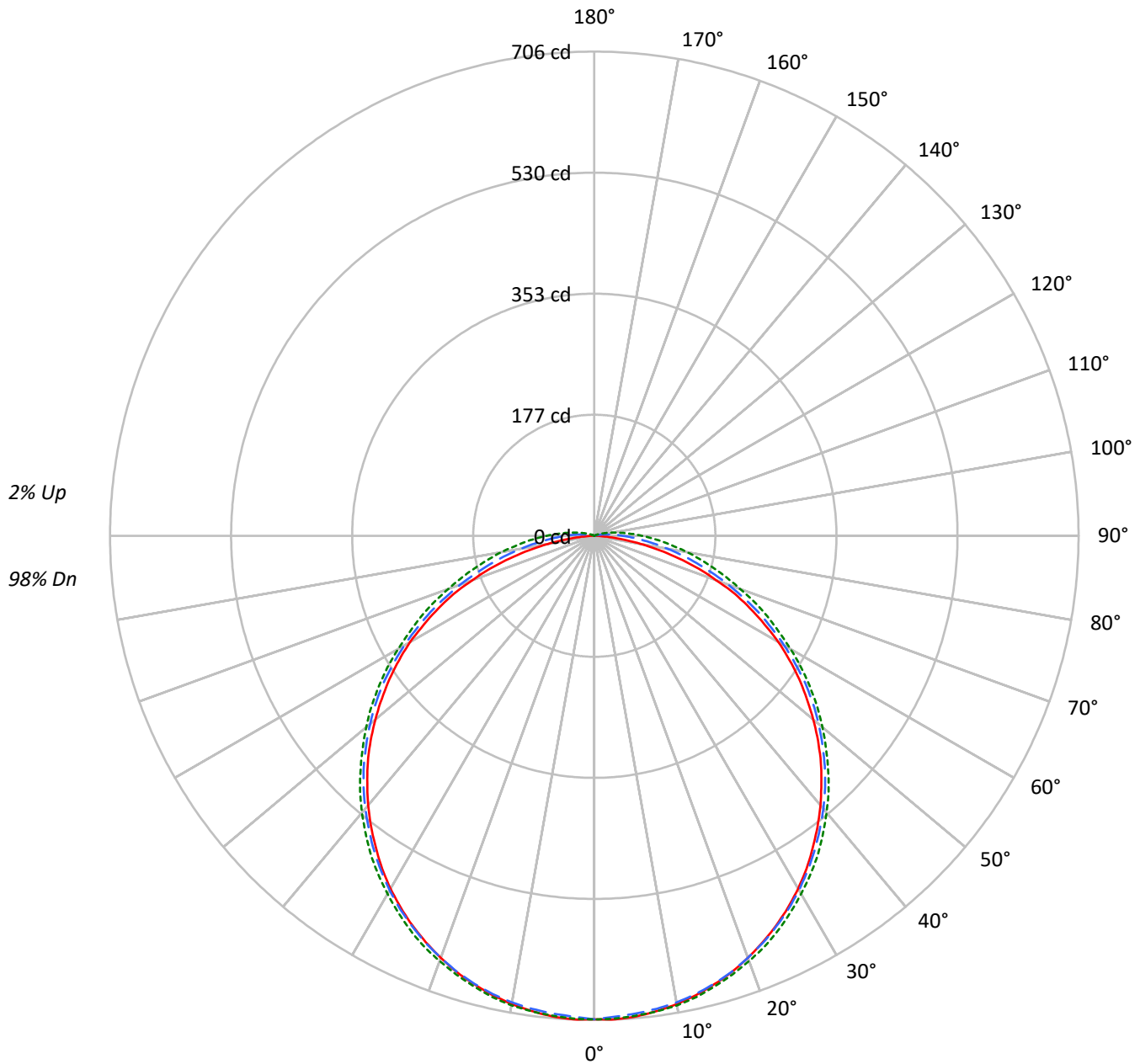
Lumens per Lamp: N/A
Luminaire Lumens: 2132.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

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°	7590	7590	7590
5°	7566	7304	7272
10°	7506	7063	6984
15°	7432	6818	6681
20°	7353	6562	6394
25°	7261	6307	6113
30°	7155	6046	5817
35°	7022	5771	5528
40°	6885	5490	5215
45°	6736	5192	4892
50°	6545	4864	4556
55°	6337	4516	4201
60°	6092	4097	3808
65°	5701	3644	3421
70°	5147	3137	2997
75°	4368	2602	2600
80°	3229	2081	2222
85°	1654	1565	1843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.1
10°-20°	191.4	9.0
20°-30°	290.4	13.6
30°-40°	351.2	16.5
40°-50°	366.4	17.2
50°-60°	335.0	15.7
60°-70°	261.2	12.2
70°-80°	163.4	7.7
80°-90°	74.2	3.5
90°-100°	24.9	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°	548.6	25.7
0°-40°	899.7	42.2
0°-60°	1601.2	75.1
0°-90°	2099.9	98.5
90°-120°	32.1	1.5
90°-150°	32.1	1.5
90°-180°	32.0	1.5
0°-180°	2132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	705	705	705	705	705	
5°	704	702	699	702	702	67
15°	677	678	676	680	680	191
25°	627	628	628	634	635	289
35°	555	558	560	566	568	348
45°	467	471	475	480	482	360
55°	364	369	376	381	384	326
65°	250	255	264	274	278	248
75°	127	135	154	173	179	135
85°	22	41	70	92	100	28
90°	0	15	41	62	69	1
95°	0	4	21	39	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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CATALOG NUMBER: HVSL4-3-LD4-1LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.1	705.1	705.1	705.1	705.1
2.5°	706.0	705.0	701.8	705.0	704.8
5°	703.6	702.3	699.2	702.5	702.5
7.5°	699.0	698.5	695.7	699.5	699.5
10°	693.5	693.3	691.0	695.2	695.3
12.5°	685.9	686.5	684.4	688.3	688.8
15°	676.9	678.0	676.2	680.0	679.9
17.5°	667.1	667.7	666.4	670.7	670.6
20°	654.9	655.8	654.8	659.3	659.8
22.5°	641.5	642.6	642.5	647.1	648.5
25°	627.2	627.7	628.3	633.7	634.7
27.5°	611.4	612.2	613.4	618.2	619.2
30°	594.1	595.4	596.8	601.7	603.1
32.5°	575.8	577.1	578.8	585.3	586.0
35°	555.2	557.7	560.0	565.7	568.0
37.5°	534.6	537.7	539.9	545.9	547.7
40°	512.8	516.0	519.5	525.8	526.9
42.5°	490.0	493.7	497.9	503.5	505.5
45°	467.1	471.3	475.1	479.7	482.1
47.5°	442.3	446.5	451.1	456.5	458.0
50°	416.7	421.6	426.5	431.5	434.2
52.5°	390.5	396.3	401.9	407.3	409.8
55°	364.5	368.9	375.7	381.2	383.7
57.5°	337.6	341.3	347.4	356.4	357.7
60°	310.2	313.5	319.8	327.1	330.1
62.5°	279.9	284.4	291.1	300.4	303.0
65°	250.5	254.8	263.6	274.1	278.4
67.5°	222.1	223.6	234.9	245.9	252.8
70°	188.5	194.2	207.3	220.8	226.1
72.5°	159.6	165.2	179.7	195.5	202.1
75°	126.8	134.6	154.3	172.7	179.2
77.5°	98.1	106.7	131.0	149.6	157.1
80°	68.5	82.0	108.4	129.3	137.5
82.5°	43.1	59.7	87.9	109.9	117.0
85°	21.9	40.6	69.6	92.1	100.2
87.5°	5.8	26.3	54.2	75.6	83.9
90°	0.2	15.1	41.1	61.7	69.2
92.5°	0.2	8.5	30.6	49.0	56.7
95°	0.2	4.0	21.3	38.6	44.5
97.5°	0.2	1.7	14.6	29.1	35.1
100°	0.2	0.8	9.3	21.1	26.3
102.5°	0.3	0.5	5.8	15.1	19.3
105°	0.3	0.5	3.5	10.3	13.8



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CATALOG NUMBER: HVSL4-3-LD4-1LO-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	0.7	2.8	4.2
115°	0.5	0.5	0.7	1.8	2.7
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	7.0	9.5
110°	0.5	0.5	1.2	4.3	6.3



(END OF REPORT)