

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: P580522

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580522
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-LD4-1HI-50-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

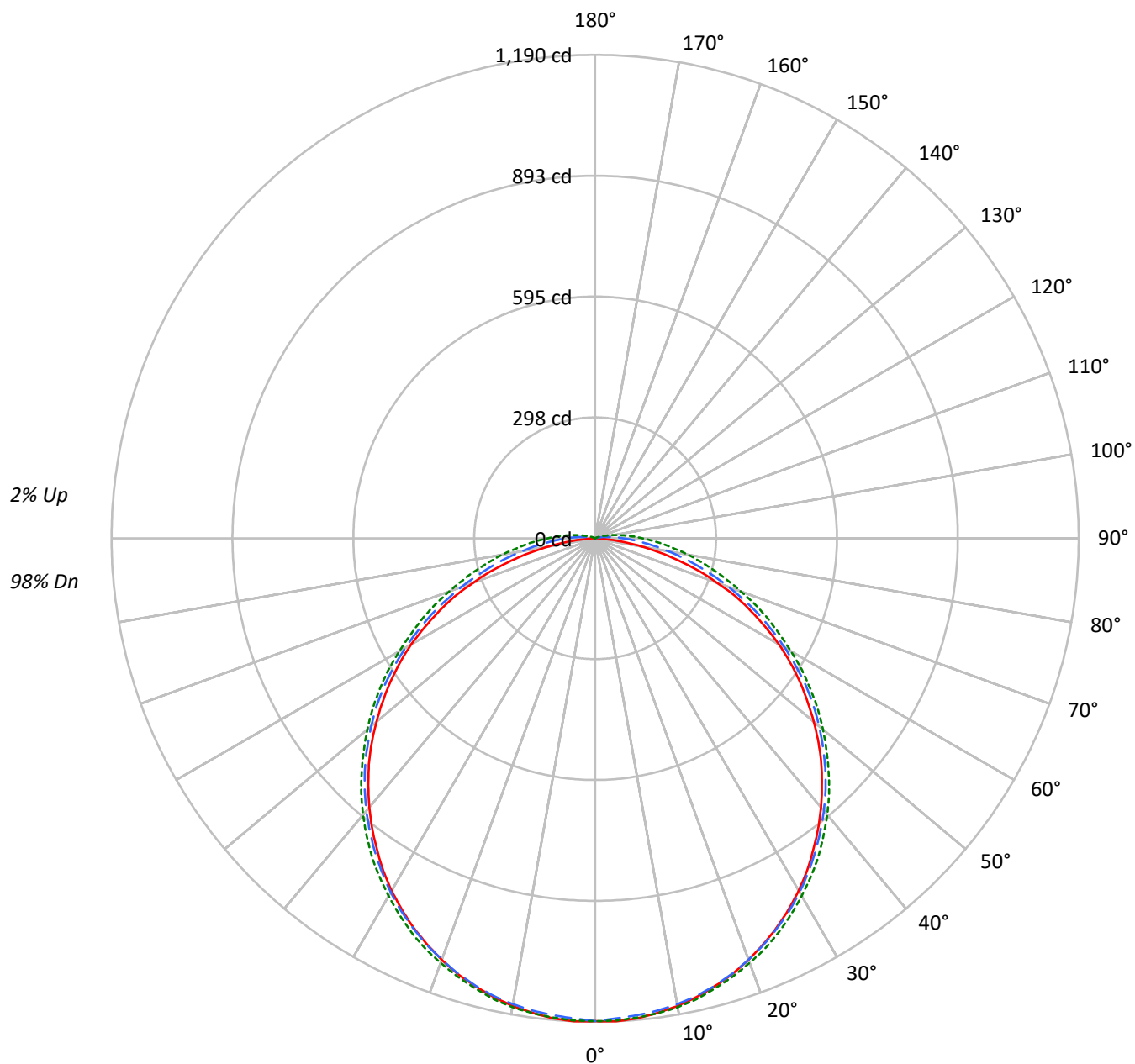
Lumens per Lamp: N/A
Luminaire Lumens: 3594.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 32.3
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°	12795	12795	12795
5°	12755	12312	12259
10°	12654	11907	11773
15°	12528	11493	11263
20°	12396	11062	10778
25°	12240	10632	10304
30°	12061	10192	9805
35°	11837	9728	9319
40°	11606	9254	8792
45°	11355	8753	8246
50°	11033	8200	7679
55°	10684	7613	7080
60°	10269	6906	6420
65°	9611	6143	5769
70°	8677	5288	5052
75°	7364	4384	4383
80°	5439	3508	3744
85°	2795	2641	3108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.1
10°-20°	322.7	9.0
20°-30°	489.6	13.6
30°-40°	592.0	16.5
40°-50°	617.7	17.2
50°-60°	564.7	15.7
60°-70°	440.3	12.2
70°-80°	275.4	7.7
80°-90°	125.1	3.5
90°-100°	41.9	1.2
100°-110°	10.5	0.3
110°-120°	1.7	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°	924.7	25.7
0°-40°	1516.7	42.2
0°-60°	2699.1	75.1
0°-90°	3539.9	98.5
90°-120°	54.1	1.5
90°-150°	54.1	1.5
90°-180°	54.0	1.5
0°-180°	3594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1186	1184	1179	1184	1184	113
15°	1141	1143	1140	1146	1146	322
25°	1057	1058	1059	1068	1070	487
35°	936	940	944	954	958	586
45°	787	794	801	809	813	607
55°	614	622	633	642	647	549
65°	422	430	444	462	469	418
75°	214	227	260	291	302	228
85°	37	68	117	155	169	47
90°	0	26	69	104	117	1
95°	0	7	36	65	75	0
105°	1	1	6	17	23	1
115°	1	1	1	3	4	1
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°	1188.7	1188.7	1188.7	1188.7	1188.7
2.5°	1190.1	1188.4	1183.1	1188.4	1188.1
5°	1186.2	1183.9	1178.6	1184.2	1184.2
7.5°	1178.3	1177.5	1172.7	1179.2	1179.2
10°	1169.1	1168.8	1164.9	1171.9	1172.1
12.5°	1156.2	1157.3	1153.7	1160.4	1161.2
15°	1141.0	1143.0	1139.9	1146.4	1146.1
17.5°	1124.5	1125.6	1123.4	1130.7	1130.4
20°	1104.1	1105.5	1103.8	1111.3	1112.2
22.5°	1081.4	1083.3	1083.0	1090.9	1093.1
25°	1057.3	1058.1	1059.2	1068.2	1069.9
27.5°	1030.6	1032.0	1034.0	1042.1	1043.8
30°	1001.5	1003.7	1006.0	1014.4	1016.6
32.5°	970.7	972.9	975.7	986.6	987.8
35°	935.9	940.1	944.0	953.6	957.5
37.5°	901.2	906.5	910.1	920.2	923.3
40°	864.5	869.8	875.7	886.3	888.3
42.5°	826.1	832.2	839.2	848.8	852.1
45°	787.4	794.4	800.9	808.7	812.6
47.5°	745.7	752.7	760.5	769.5	772.0
50°	702.5	710.6	719.0	727.4	731.9
52.5°	658.2	668.0	677.6	686.5	690.7
55°	614.5	621.8	633.3	642.5	646.7
57.5°	569.1	575.3	585.7	600.8	603.0
60°	522.9	528.5	539.1	551.5	556.5
62.5°	471.9	479.5	490.7	506.4	510.8
65°	422.3	429.6	444.4	462.1	469.4
67.5°	374.4	376.9	395.9	414.4	426.2
70°	317.8	327.3	349.4	372.1	381.1
72.5°	269.0	278.5	302.9	329.5	340.7
75°	213.8	227.0	260.0	291.1	302.1
77.5°	165.3	179.9	220.8	252.2	264.8
80°	115.4	138.1	182.7	218.0	231.7
82.5°	72.6	100.6	148.2	185.2	197.3
85°	37.0	68.4	117.4	155.2	169.0
87.5°	9.8	44.3	91.4	127.5	141.5
90°	0.3	25.5	69.2	104.0	116.6
92.5°	0.3	14.3	51.6	82.7	95.6
95°	0.3	6.7	35.9	65.0	75.1
97.5°	0.3	2.8	24.7	49.0	59.1
100°	0.3	1.4	15.7	35.6	44.3
102.5°	0.6	0.8	9.8	25.5	32.5
105°	0.6	0.8	5.9	17.4	23.3



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CATALOG NUMBER: HVSL4-3-LD4-1HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.8	7.0
115°	0.8	0.8	1.1	3.1	4.5
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°	0.6	0.8	3.4	11.8	16.0
110°	0.8	0.8	2.0	7.3	10.6



(END OF REPORT)