

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: P580549

Luminaire Tested: **HVSL4-3-LD4-2LO-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580549
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-LD4-2LO-35-UNV-O-EDD-90
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

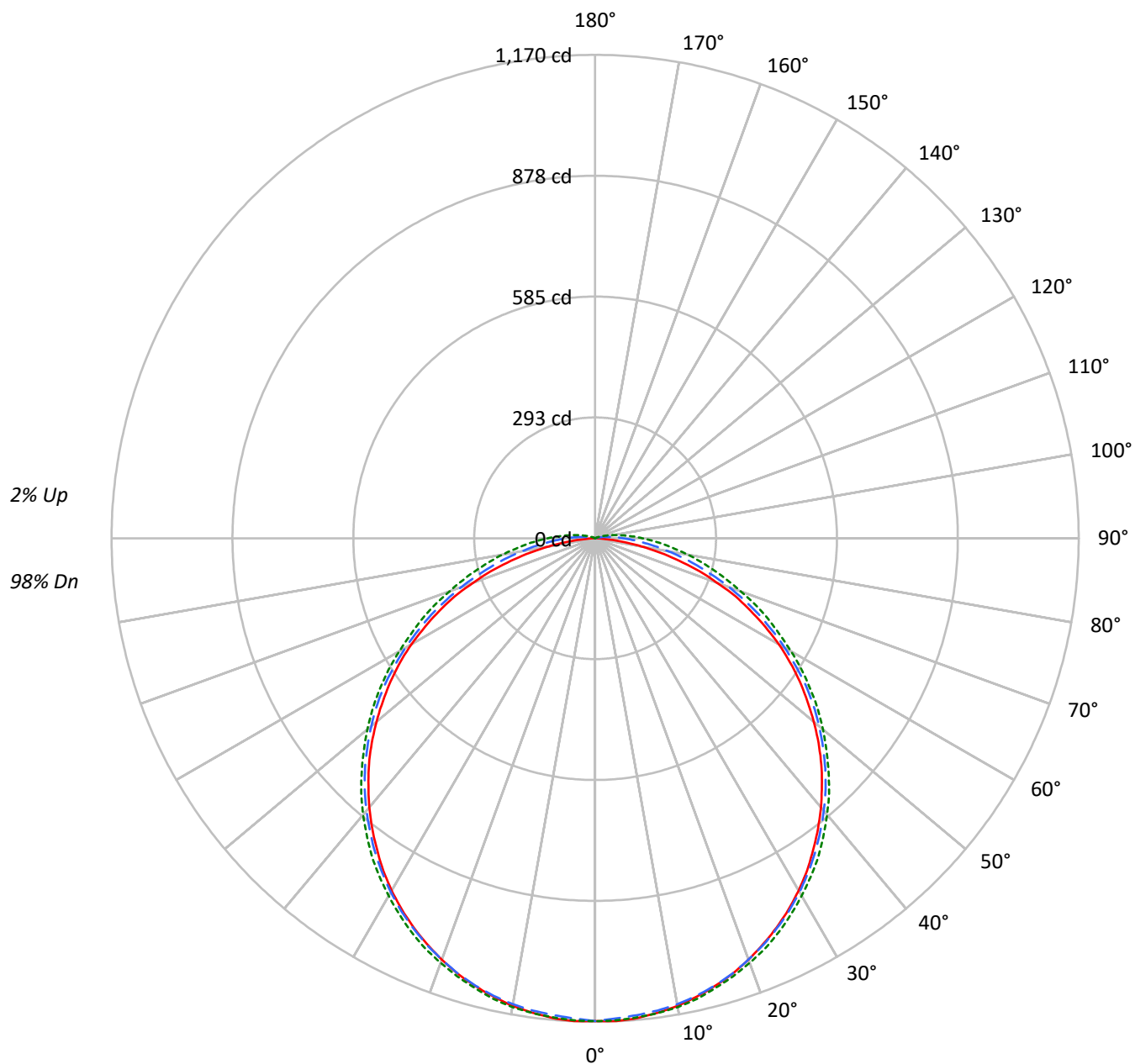
Lumens per Lamp: N/A
Luminaire Lumens: 3533.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.7
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°	12578	12578	12578
5°	12538	12103	12051
10°	12439	11705	11574
15°	12316	11298	11071
20°	12185	10873	10595
25°	12032	10451	10129
30°	11856	10018	9639
35°	11636	9563	9160
40°	11409	9096	8643
45°	11162	8604	8106
50°	10846	8061	7549
55°	10503	7483	6960
60°	10094	6789	6311
65°	9447	6039	5670
70°	8530	5199	4966
75°	7240	4310	4308
80°	5350	3448	3681
85°	2749	2596	3054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	3.1
10°-20°	317.2	9.0
20°-30°	481.3	13.6
30°-40°	581.9	16.5
40°-50°	607.2	17.2
50°-60°	555.2	15.7
60°-70°	432.8	12.2
70°-80°	270.7	7.7
80°-90°	123.0	3.5
90°-100°	41.2	1.2
100°-110°	10.4	0.3
110°-120°	1.6	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°	909.0	25.7
0°-40°	1491.0	42.2
0°-60°	2653.3	75.1
0°-90°	3479.8	98.5
90°-120°	53.2	1.5
90°-150°	53.2	1.5
90°-180°	53.0	1.5
0°-180°	3533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1166	1164	1159	1164	1164	111
15°	1122	1124	1121	1127	1127	317
25°	1039	1040	1041	1050	1052	479
35°	920	924	928	937	941	576
45°	774	781	787	795	799	596
55°	604	611	622	632	636	540
65°	415	422	437	454	461	411
75°	210	223	256	286	297	224
85°	36	67	115	153	166	46
90°	0	25	68	102	115	1
95°	0	7	35	64	74	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°	1168.5	1168.5	1168.5	1168.5	1168.5
2.5°	1169.9	1168.2	1163.0	1168.2	1168.0
5°	1166.0	1163.8	1158.6	1164.1	1164.1
7.5°	1158.3	1157.5	1152.8	1159.1	1159.1
10°	1149.2	1148.9	1145.1	1152.0	1152.3
12.5°	1136.5	1137.7	1134.1	1140.7	1141.5
15°	1121.7	1123.6	1120.6	1126.9	1126.6
17.5°	1105.4	1106.5	1104.3	1111.5	1111.2
20°	1085.3	1086.7	1085.0	1092.5	1093.3
22.5°	1063.0	1064.9	1064.7	1072.4	1074.6
25°	1039.3	1040.1	1041.2	1050.1	1051.7
27.5°	1013.1	1014.5	1016.4	1024.4	1026.1
30°	984.5	986.7	988.9	997.2	999.4
32.5°	954.2	956.4	959.2	969.9	971.0
35°	920.0	924.2	928.0	937.4	941.2
37.5°	885.9	891.1	894.7	904.6	907.6
40°	849.8	855.0	860.8	871.3	873.2
42.5°	812.1	818.1	825.0	834.4	837.7
45°	774.0	780.9	787.3	795.0	798.8
47.5°	733.0	739.9	747.6	756.4	758.9
50°	690.6	698.6	706.8	715.1	719.5
52.5°	647.1	656.7	666.1	674.9	679.0
55°	604.1	611.2	622.5	631.6	635.8
57.5°	559.5	565.5	575.7	590.6	592.8
60°	514.0	519.5	530.0	542.1	547.1
62.5°	463.9	471.3	482.3	497.8	502.2
65°	415.1	422.3	436.9	454.2	461.4
67.5°	368.0	370.5	389.2	407.4	419.0
70°	312.4	321.7	343.5	365.8	374.6
72.5°	264.4	273.8	297.8	323.9	335.0
75°	210.2	223.1	255.6	286.2	296.9
77.5°	162.5	176.8	217.1	247.9	260.3
80°	113.5	135.8	179.6	214.3	227.8
82.5°	71.3	98.9	145.7	182.1	193.9
85°	36.4	67.2	115.4	152.6	166.1
87.5°	9.6	43.5	89.8	125.3	139.1
90°	0.3	25.1	68.0	102.2	114.6
92.5°	0.3	14.0	50.7	81.3	93.9
95°	0.3	6.6	35.3	63.9	73.8
97.5°	0.3	2.8	24.2	48.2	58.1
100°	0.3	1.4	15.4	35.0	43.5
102.5°	0.6	0.8	9.6	25.1	32.0
105°	0.6	0.8	5.8	17.1	22.9



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CATALOG NUMBER: HVSL4-3-LD4-2LO-35-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.7	6.9
115°	0.8	0.8	1.1	3.0	4.4
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°	0.6	0.8	3.3	11.6	15.7
110°	0.8	0.8	1.9	7.2	10.5



(END OF REPORT)