

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: P580239

Luminaire Tested: **HVSL12-4-LD4-3LO-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580239
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: HVSL12-4-LD4-3LO-40-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

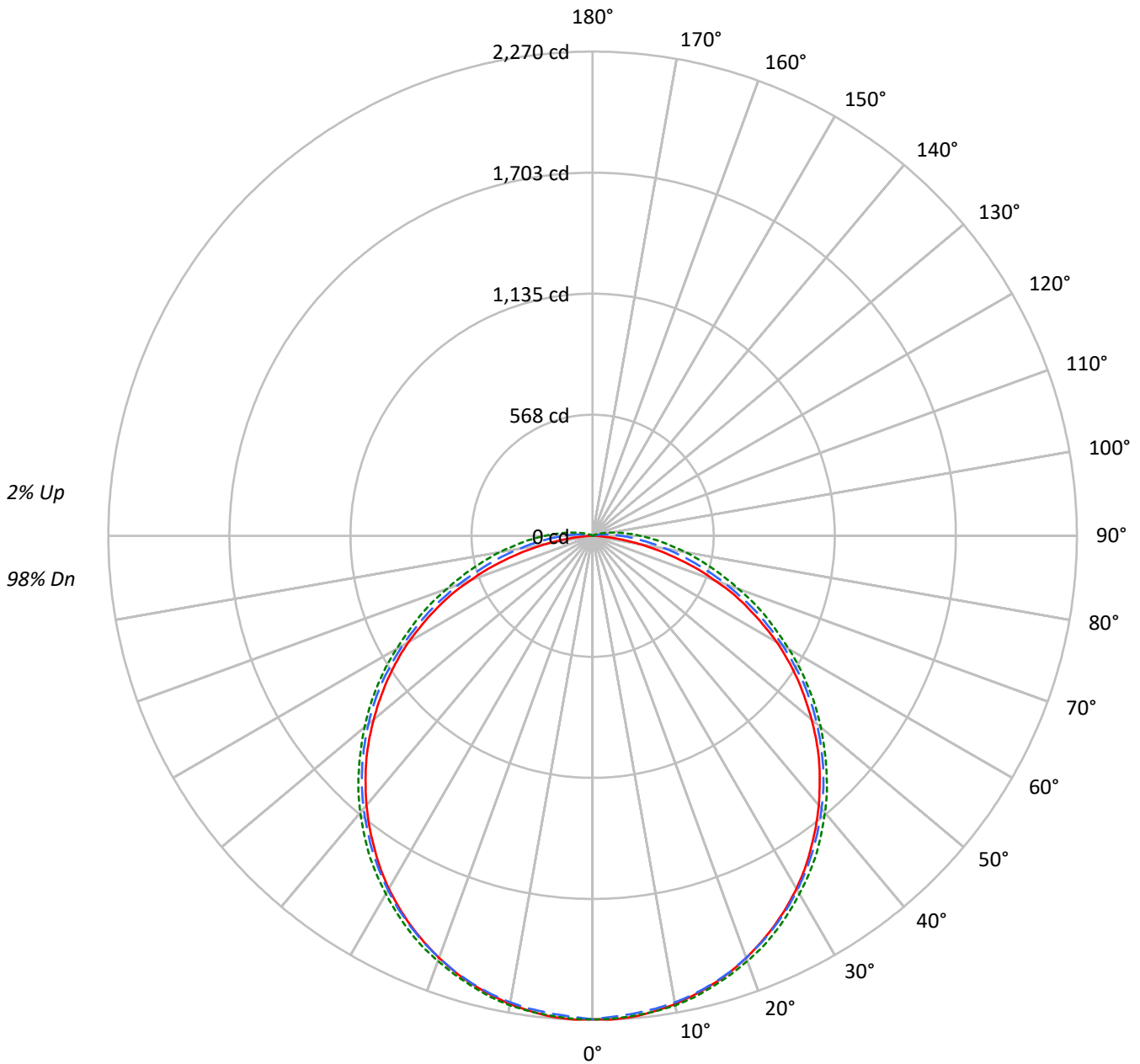
Lumens per Lamp: N/A
Luminaire Lumens: 6855.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 71.4
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									
RC	80									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°	6101	6101	6101
5°	6089	5995	6014
10°	6048	5917	5935
15°	5996	5827	5830
20°	5940	5722	5727
25°	5873	5613	5622
30°	5796	5495	5496
35°	5698	5362	5372
40°	5596	5222	5221
45°	5487	5067	5056
50°	5344	4884	4876
55°	5190	4682	4675
60°	5006	4409	4433
65°	4708	4102	4199
70°	4279	3733	3923
75°	3669	3327	3693
80°	2760	2942	3521
85°	1474	2576	3425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	3.1
10°-20°	615.4	9.0
20°-30°	933.8	13.6
30°-40°	1129.1	16.5
40°-50°	1178.2	17.2
50°-60°	1077.2	15.7
60°-70°	839.7	12.2
70°-80°	525.3	7.7
80°-90°	238.6	3.5
90°-100°	80.0	1.2
100°-110°	20.1	0.3
110°-120°	3.2	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°	1763.8	25.7
0°-40°	2892.9	42.2
0°-60°	5148.2	75.1
0°-90°	6751.8	98.5
90°-120°	103.2	1.5
90°-150°	103.2	1.5
90°-180°	103.0	1.5
0°-180°	6855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2267	2267	2267	2267	2267	
5°	2262	2258	2248	2259	2259	215
15°	2176	2180	2174	2186	2186	614
25°	2017	2018	2020	2037	2041	929
35°	1785	1793	1801	1819	1826	1117
45°	1502	1515	1528	1542	1550	1157
55°	1172	1186	1208	1226	1234	1047
65°	805	819	848	881	895	797
75°	408	433	496	555	576	435
85°	70	130	224	296	322	89
90°	0	49	132	198	222	3
95°	0	13	68	124	143	0
105°	1	2	11	33	44	1
115°	2	2	2	6	9	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2267.2	2267.2	2267.2	2267.2	2267.2
2.5°	2269.9	2266.7	2256.5	2266.7	2266.2
5°	2262.4	2258.1	2248.0	2258.7	2258.7
7.5°	2247.4	2245.8	2236.8	2249.0	2249.0
10°	2229.8	2229.3	2221.8	2235.2	2235.7
12.5°	2205.2	2207.4	2200.4	2213.2	2214.8
15°	2176.4	2180.1	2174.2	2186.5	2186.0
17.5°	2144.8	2147.0	2142.7	2156.6	2156.1
20°	2105.8	2108.5	2105.3	2119.7	2121.3
22.5°	2062.5	2066.3	2065.7	2080.7	2085.0
25°	2016.6	2018.2	2020.3	2037.4	2040.6
27.5°	1965.8	1968.5	1972.2	1987.7	1990.9
30°	1910.2	1914.5	1918.7	1934.8	1939.1
32.5°	1851.4	1855.7	1861.0	1881.9	1884.0
35°	1785.1	1793.1	1800.6	1818.8	1826.3
37.5°	1718.9	1729.0	1736.0	1755.2	1761.1
40°	1648.8	1659.0	1670.2	1690.5	1694.3
42.5°	1575.6	1587.4	1600.7	1618.9	1625.3
45°	1501.9	1515.2	1527.5	1542.5	1550.0
47.5°	1422.2	1435.6	1450.6	1467.7	1472.5
50°	1339.9	1355.4	1371.4	1387.5	1396.0
52.5°	1255.5	1274.2	1292.3	1309.5	1317.5
55°	1172.1	1186.0	1207.9	1225.5	1233.6
57.5°	1085.5	1097.3	1117.0	1145.9	1150.2
60°	997.3	1008.0	1028.3	1051.8	1061.5
62.5°	900.0	914.5	935.9	965.8	974.3
65°	805.4	819.3	847.7	881.3	895.2
67.5°	714.1	718.9	755.2	790.5	812.9
70°	606.1	624.3	666.5	709.8	726.9
72.5°	513.1	531.3	577.8	628.5	649.9
75°	407.8	432.9	496.0	555.3	576.2
77.5°	315.3	343.1	421.2	481.0	505.1
80°	220.2	263.5	348.5	415.8	442.0
82.5°	138.4	191.9	282.7	353.3	376.3
85°	70.5	130.4	223.9	296.1	322.3
87.5°	18.7	84.4	174.2	243.2	269.9
90°	0.5	48.6	132.0	198.3	222.3
92.5°	0.5	27.3	98.3	157.7	182.3
95°	0.5	12.8	68.4	124.0	143.2
97.5°	0.5	5.3	47.0	93.5	112.8
100°	0.5	2.7	29.9	67.9	84.4
102.5°	1.1	1.6	18.7	48.6	62.0
105°	1.1	1.6	11.2	33.1	44.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.1	9.1	13.4
115°	1.6	1.6	2.1	5.9	8.6
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°	1.1	1.6	6.4	22.4	30.5
110°	1.6	1.6	3.7	13.9	20.3



(END OF REPORT)