

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: P580237

Luminaire Tested: **HVSL12-4-LD4-3LO-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580237
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-35-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

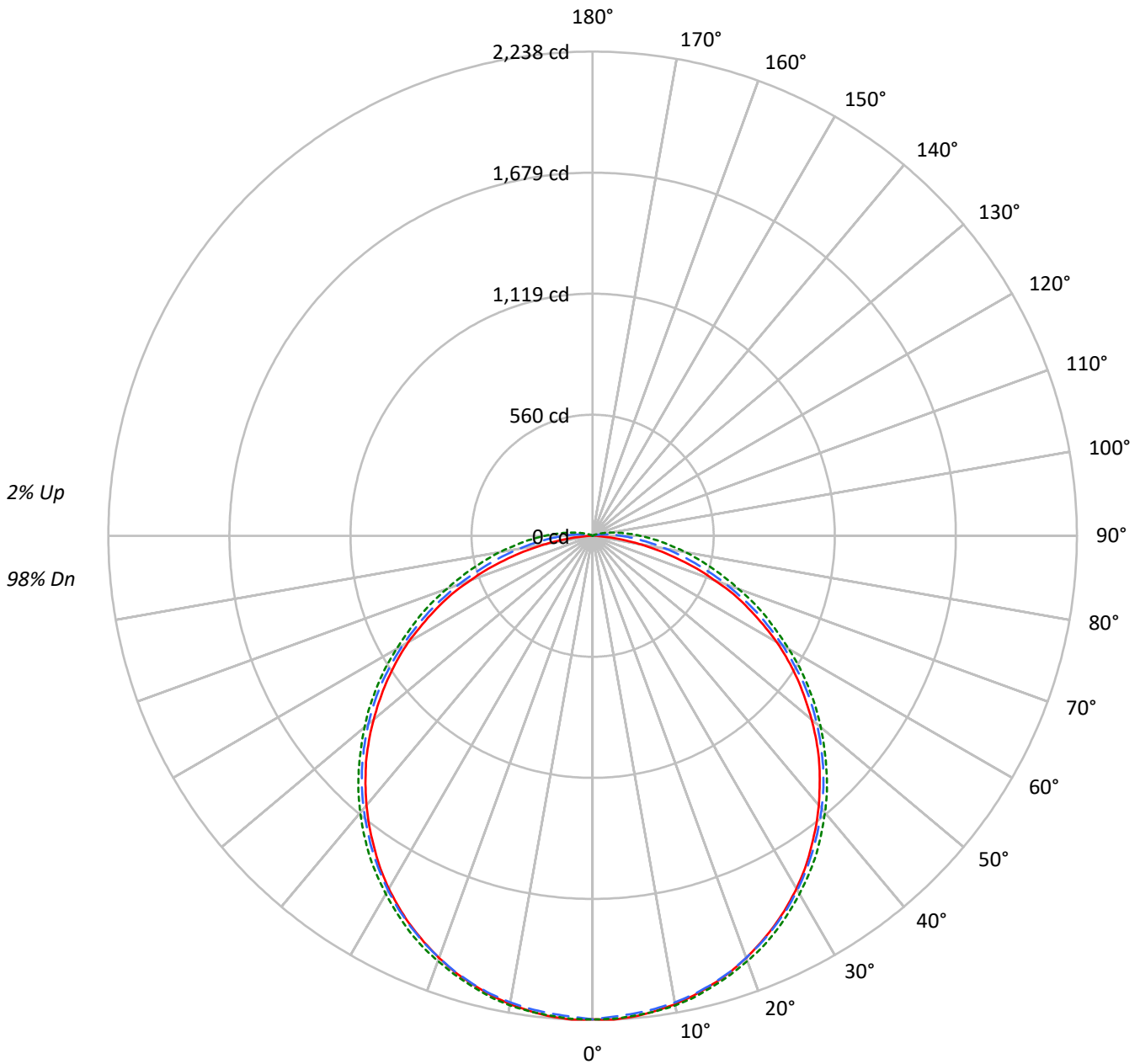
Lumens per Lamp: N/A
Luminaire Lumens: 6759.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 71.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	6016	6016	6016
5°	6004	5911	5929
10°	5964	5834	5852
15°	5912	5746	5748
20°	5857	5642	5647
25°	5791	5534	5543
30°	5715	5418	5419
35°	5618	5287	5297
40°	5518	5148	5148
45°	5410	4996	4985
50°	5269	4815	4808
55°	5117	4616	4609
60°	4936	4347	4371
65°	4642	4044	4140
70°	4219	3680	3868
75°	3618	3280	3641
80°	2721	2901	3472
85°	1456	2540	3377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	3.1
10°-20°	606.8	9.0
20°-30°	920.7	13.6
30°-40°	1113.3	16.5
40°-50°	1161.6	17.2
50°-60°	1062.1	15.7
60°-70°	828.0	12.2
70°-80°	517.9	7.7
80°-90°	235.2	3.5
90°-100°	78.9	1.2
100°-110°	19.8	0.3
110°-120°	3.1	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°	1739.1	25.7
0°-40°	2852.4	42.2
0°-60°	5076.1	75.1
0°-90°	6657.2	98.5
90°-120°	101.8	1.5
90°-150°	101.8	1.5
90°-180°	102.0	1.5
0°-180°	6759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2236	2236	2236	2236	2236	
5°	2231	2226	2216	2227	2227	212
15°	2146	2150	2144	2156	2155	606
25°	1988	1990	1992	2009	2012	916
35°	1760	1768	1775	1793	1801	1102
45°	1481	1494	1506	1521	1528	1141
55°	1156	1169	1191	1208	1216	1032
65°	794	808	836	869	883	786
75°	402	427	489	548	568	429
85°	70	129	221	292	318	88
90°	0	48	130	196	219	3
95°	0	13	68	122	141	0
105°	1	2	11	33	44	1
115°	2	2	2	6	8	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°	2235.5	2235.5	2235.5	2235.5	2235.5
2.5°	2238.1	2234.9	2224.9	2234.9	2234.4
5°	2230.7	2226.5	2216.5	2227.0	2227.0
7.5°	2216.0	2214.4	2205.4	2217.6	2217.6
10°	2198.6	2198.1	2190.7	2203.8	2204.4
12.5°	2174.3	2176.4	2169.6	2182.2	2183.8
15°	2145.9	2149.6	2143.8	2155.9	2155.4
17.5°	2114.8	2116.9	2112.7	2126.4	2125.9
20°	2076.3	2079.0	2075.8	2090.0	2091.6
22.5°	2033.6	2037.3	2036.8	2051.6	2055.8
25°	1988.3	1989.9	1992.0	2008.9	2012.0
27.5°	1938.2	1940.9	1944.6	1959.9	1963.0
30°	1883.4	1887.7	1891.9	1907.7	1911.9
32.5°	1825.5	1829.7	1835.0	1855.5	1857.6
35°	1760.1	1768.0	1775.4	1793.3	1800.7
37.5°	1694.8	1704.8	1711.6	1730.6	1736.4
40°	1625.7	1635.8	1646.8	1666.9	1670.5
42.5°	1553.6	1565.1	1578.3	1596.2	1602.6
45°	1480.8	1494.0	1506.1	1520.9	1528.3
47.5°	1402.3	1415.5	1430.2	1447.1	1451.8
50°	1321.2	1336.4	1352.2	1368.1	1376.5
52.5°	1237.9	1256.3	1274.2	1291.1	1299.0
55°	1155.7	1169.4	1191.0	1208.4	1216.3
57.5°	1070.3	1081.9	1101.4	1129.9	1134.1
60°	983.4	993.9	1013.9	1037.1	1046.6
62.5°	887.4	901.7	922.8	952.3	960.7
65°	794.2	807.9	835.8	869.0	882.7
67.5°	704.1	708.8	744.6	779.4	801.5
70°	597.6	615.5	657.1	699.8	716.7
72.5°	505.9	523.8	569.7	619.7	640.8
75°	402.1	426.9	489.0	547.5	568.1
77.5°	310.9	338.3	415.3	474.3	498.0
80°	217.1	259.8	343.6	410.0	435.8
82.5°	136.5	189.2	278.8	348.3	371.0
85°	69.6	128.6	220.8	291.9	317.8
87.5°	18.4	83.3	171.8	239.8	266.1
90°	0.5	48.0	130.2	195.5	219.2
92.5°	0.5	26.9	97.0	155.5	179.7
95°	0.5	12.6	67.5	122.3	141.2
97.5°	0.5	5.3	46.4	92.2	111.2
100°	0.5	2.6	29.5	66.9	83.3
102.5°	1.1	1.6	18.4	48.0	61.1
105°	1.1	1.6	11.1	32.7	43.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.1	9.0	13.2
115°	1.6	1.6	2.1	5.8	8.4
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°	1.1	1.6	6.3	22.1	30.0
110°	1.6	1.6	3.7	13.7	20.0



(END OF REPORT)