

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: P580207

Luminaire Tested: **HVSL12-4-LD4-2HI-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580207
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-LD4-2HI-40-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

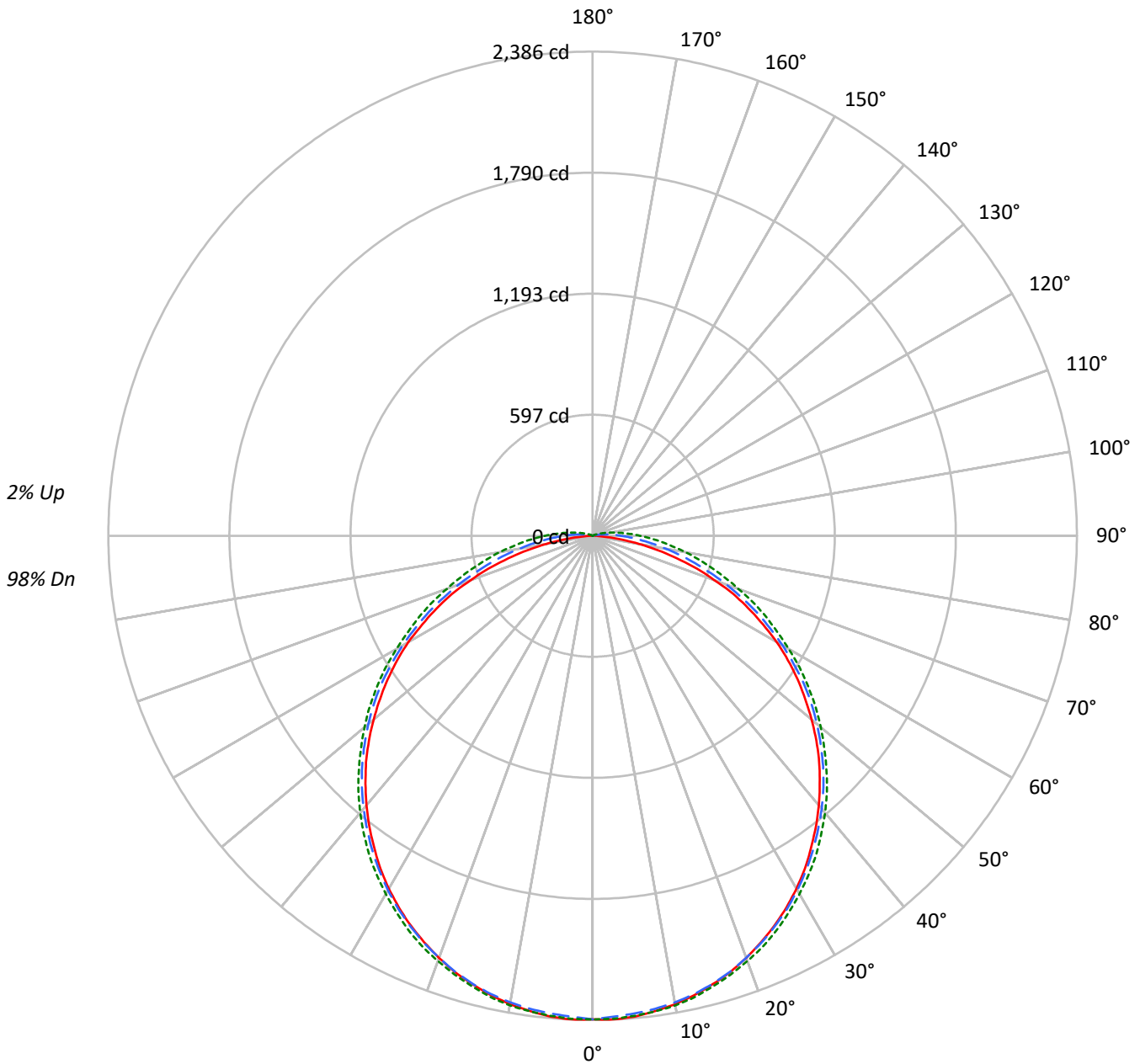
Lumens per Lamp: N/A
Luminaire Lumens: 7206.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 91.2
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°	6413	6413	6413
5°	6401	6302	6321
10°	6358	6220	6239
15°	6303	6126	6128
20°	6244	6015	6020
25°	6174	5900	5910
30°	6093	5776	5778
35°	5990	5636	5647
40°	5883	5489	5489
45°	5768	5326	5315
50°	5618	5134	5125
55°	5456	4922	4914
60°	5263	4635	4660
65°	4949	4312	4414
70°	4498	3924	4123
75°	3857	3498	3882
80°	2902	3092	3701
85°	1552	2708	3600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	3.1
10°-20°	646.9	9.0
20°-30°	981.6	13.6
30°-40°	1186.9	16.5
40°-50°	1238.5	17.2
50°-60°	1132.3	15.7
60°-70°	882.7	12.2
70°-80°	552.2	7.7
80°-90°	250.8	3.5
90°-100°	84.1	1.2
100°-110°	21.1	0.3
110°-120°	3.3	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°	1854.1	25.7
0°-40°	3041.0	42.2
0°-60°	5411.8	75.1
0°-90°	7097.5	98.5
90°-120°	108.5	1.5
90°-150°	108.5	1.5
90°-180°	108.0	1.5
0°-180°	7206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2383	2383	2383	2383	2383	
5°	2378	2374	2363	2374	2374	226
15°	2288	2292	2286	2298	2298	646
25°	2120	2122	2124	2142	2145	977
35°	1876	1885	1893	1912	1920	1175
45°	1579	1593	1606	1622	1629	1217
55°	1232	1247	1270	1288	1297	1101
65°	847	861	891	926	941	838
75°	429	455	521	584	606	457
85°	74	137	235	311	339	94
90°	1	51	139	208	234	3
95°	1	14	72	130	151	0
105°	1	2	12	35	47	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°	2383.3	2383.3	2383.3	2383.3	2383.3
2.5°	2386.1	2382.7	2372.1	2382.7	2382.2
5°	2378.3	2373.8	2363.1	2374.3	2374.3
7.5°	2362.5	2360.8	2351.3	2364.2	2364.2
10°	2344.0	2343.4	2335.6	2349.6	2350.2
12.5°	2318.1	2320.4	2313.1	2326.6	2328.2
15°	2287.8	2291.7	2285.6	2298.5	2297.9
17.5°	2254.6	2256.9	2252.4	2267.0	2266.4
20°	2213.6	2216.4	2213.1	2228.2	2229.9
22.5°	2168.1	2172.1	2171.5	2187.2	2191.7
25°	2119.8	2121.5	2123.7	2141.7	2145.1
27.5°	2066.4	2069.2	2073.2	2089.5	2092.8
30°	2008.0	2012.5	2017.0	2033.8	2038.3
32.5°	1946.2	1950.7	1956.3	1978.2	1980.5
35°	1876.5	1885.0	1892.8	1911.9	1919.8
37.5°	1806.9	1817.5	1824.8	1845.1	1851.3
40°	1733.3	1743.9	1755.7	1777.1	1781.0
42.5°	1656.3	1668.7	1682.7	1701.8	1708.5
45°	1578.8	1592.8	1605.7	1621.5	1629.3
47.5°	1495.0	1509.1	1524.8	1542.8	1547.9
50°	1408.5	1424.8	1441.7	1458.5	1467.5
52.5°	1319.8	1339.4	1358.5	1376.5	1384.9
55°	1232.1	1246.7	1269.8	1288.3	1296.7
57.5°	1141.1	1153.4	1174.2	1204.6	1209.1
60°	1048.4	1059.6	1081.0	1105.7	1115.8
62.5°	946.1	961.3	983.8	1015.2	1024.2
65°	846.7	861.3	891.1	926.5	941.1
67.5°	750.6	755.7	793.9	831.0	854.6
70°	637.1	656.2	700.6	746.1	764.1
72.5°	539.4	558.5	607.3	660.7	683.2
75°	428.7	455.1	521.4	583.7	605.7
77.5°	331.5	360.7	442.7	505.7	530.9
80°	231.5	277.0	366.3	437.1	464.6
82.5°	145.5	201.7	297.2	371.4	395.5
85°	74.2	137.1	235.4	311.3	338.8
87.5°	19.7	88.8	183.2	255.6	283.7
90°	0.6	51.1	138.8	208.4	233.7
92.5°	0.6	28.7	103.4	165.7	191.6
95°	0.6	13.5	71.9	130.3	150.6
97.5°	0.6	5.6	49.4	98.3	118.5
100°	0.6	2.8	31.5	71.4	88.8
102.5°	1.1	1.7	19.7	51.1	65.2
105°	1.1	1.7	11.8	34.8	46.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	2.2	9.6	14.0
115°	1.7	1.7	2.2	6.2	9.0
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	1.7	6.7	23.6	32.0
110°	1.7	1.7	3.9	14.6	21.3



(END OF REPORT)