

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: P580269

Luminaire Tested: **HVSL12-8-LD4-1STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580269
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: HVSL12-8-LD4-1STD-35-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

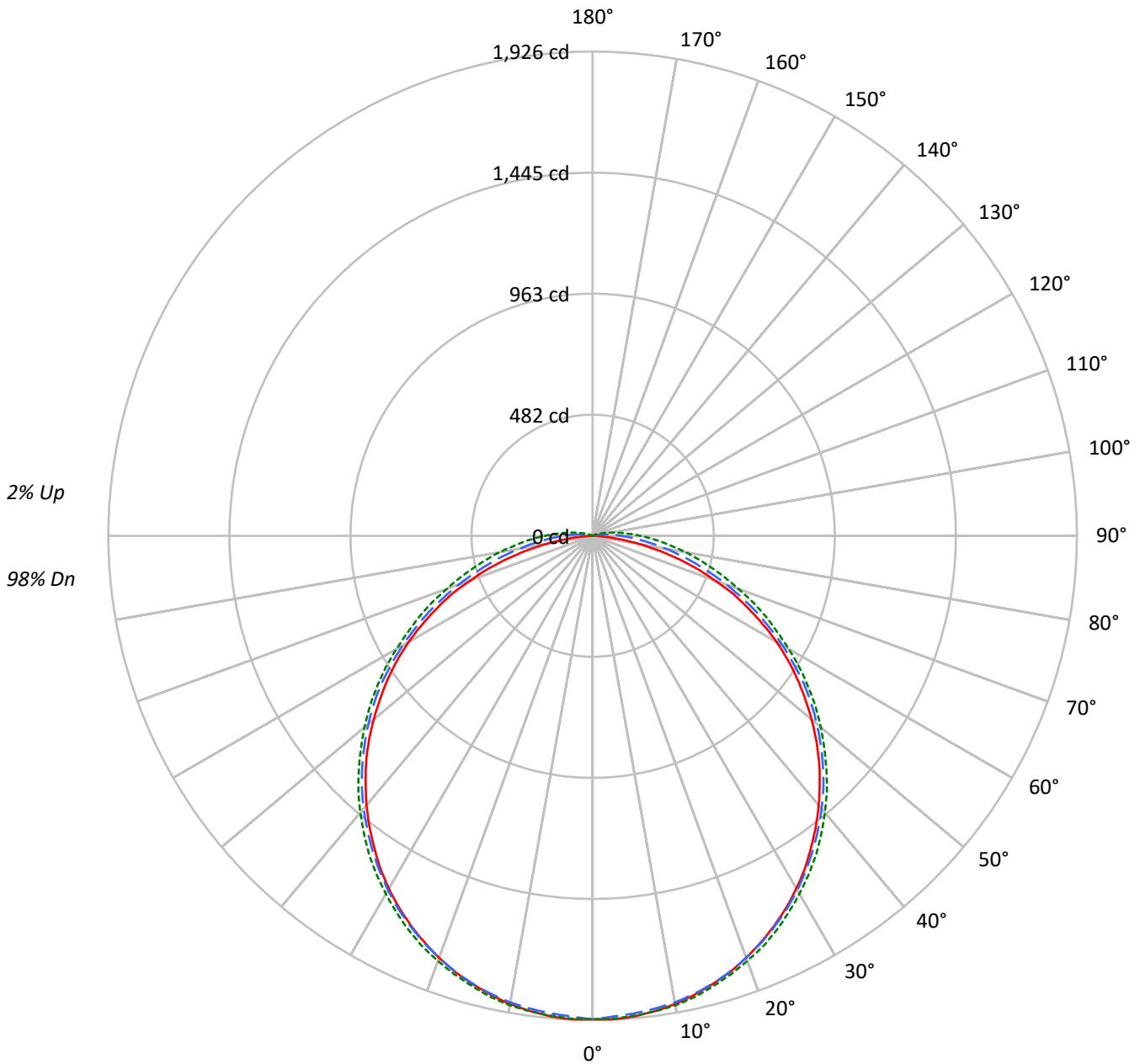
Lumens per Lamp: N/A
Luminaire Lumens: 5815.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 69.1
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°	2588	2588	2588
5°	2587	2546	2551
10°	2575	2516	2517
15°	2557	2481	2473
20°	2538	2439	2429
25°	2515	2396	2384
30°	2488	2349	2331
35°	2452	2296	2279
40°	2414	2239	2215
45°	2375	2177	2144
50°	2321	2103	2068
55°	2265	2021	1983
60°	2197	1909	1880
65°	2082	1782	1781
70°	1913	1630	1664
75°	1668	1463	1566
80°	1294	1307	1493
85°	746	1166	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	3.1
10°-20°	522.1	9.0
20°-30°	792.1	13.6
30°-40°	957.8	16.5
40°-50°	999.4	17.2
50°-60°	913.8	15.7
60°-70°	712.3	12.2
70°-80°	445.6	7.7
80°-90°	202.4	3.5
90°-100°	67.8	1.2
100°-110°	17.0	0.3
110°-120°	2.7	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°	1496.2	25.7
0°-40°	2454.0	42.2
0°-60°	4367.2	75.1
0°-90°	5727.5	98.5
90°-120°	87.6	1.5
90°-150°	87.6	1.5
90°-180°	88.0	1.5
0°-180°	5815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1919	1916	1907	1916	1916	182
15°	1846	1849	1844	1855	1854	521
25°	1711	1712	1714	1728	1731	788
35°	1514	1521	1527	1543	1549	948
45°	1274	1285	1296	1308	1315	982
55°	994	1006	1025	1040	1046	888
65°	683	695	719	748	759	676
75°	346	367	421	471	489	369
85°	60	111	190	251	273	76
90°	0	41	112	168	189	2
95°	0	11	58	105	122	0
105°	1	1	10	28	38	1
115°	1	1	2	5	7	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°	1923.3	1923.3	1923.3	1923.3	1923.3
2.5°	1925.5	1922.8	1914.2	1922.8	1922.3
5°	1919.2	1915.5	1906.9	1916.0	1916.0
7.5°	1906.5	1905.1	1897.4	1907.8	1907.8
10°	1891.5	1891.1	1884.7	1896.0	1896.5
12.5°	1870.7	1872.5	1866.6	1877.5	1878.8
15°	1846.2	1849.3	1844.4	1854.8	1854.3
17.5°	1819.4	1821.2	1817.6	1829.4	1828.9
20°	1786.3	1788.6	1785.9	1798.1	1799.5
22.5°	1749.6	1752.8	1752.3	1765.0	1768.6
25°	1710.6	1712.0	1713.8	1728.3	1731.0
27.5°	1667.5	1669.8	1673.0	1686.1	1688.9
30°	1620.4	1624.0	1627.6	1641.2	1644.9
32.5°	1570.5	1574.1	1578.7	1596.4	1598.2
35°	1514.3	1521.1	1527.4	1542.9	1549.2
37.5°	1458.1	1466.7	1472.6	1488.9	1493.9
40°	1398.7	1407.3	1416.8	1434.1	1437.2
42.5°	1336.6	1346.5	1357.9	1373.3	1378.7
45°	1274.0	1285.3	1295.8	1308.5	1314.8
47.5°	1206.5	1217.8	1230.5	1245.0	1249.1
50°	1136.6	1149.8	1163.4	1177.0	1184.2
52.5°	1065.0	1080.9	1096.3	1110.8	1117.6
55°	994.3	1006.1	1024.6	1039.6	1046.4
57.5°	920.8	930.8	947.6	972.1	975.7
60°	846.0	855.1	872.3	892.3	900.4
62.5°	763.5	775.7	793.9	819.3	826.5
65°	683.2	695.0	719.1	747.6	759.4
67.5°	605.7	609.8	640.6	670.6	689.6
70°	514.1	529.6	565.4	602.1	616.6
72.5°	435.2	450.7	490.1	533.2	551.3
75°	345.9	367.2	420.7	471.1	488.7
77.5°	267.5	291.1	357.3	408.0	428.4
80°	186.8	223.5	295.6	352.7	374.9
82.5°	117.4	162.8	239.8	299.7	319.2
85°	59.8	110.6	190.0	251.2	273.4
87.5°	15.9	71.6	147.8	206.3	229.0
90°	0.5	41.3	112.0	168.2	188.6
92.5°	0.5	23.1	83.4	133.7	154.6
95°	0.5	10.9	58.0	105.2	121.5
97.5°	0.5	4.5	39.9	79.3	95.7
100°	0.5	2.3	25.4	57.6	71.6
102.5°	0.9	1.4	15.9	41.3	52.6
105°	0.9	1.4	9.5	28.1	37.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	1.8	7.7	11.3
115°	1.4	1.4	1.8	5.0	7.3
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°	0.9	1.4	5.4	19.0	25.8
110°	1.4	1.4	3.2	11.8	17.2



(END OF REPORT)