

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: P580270

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580270
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
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

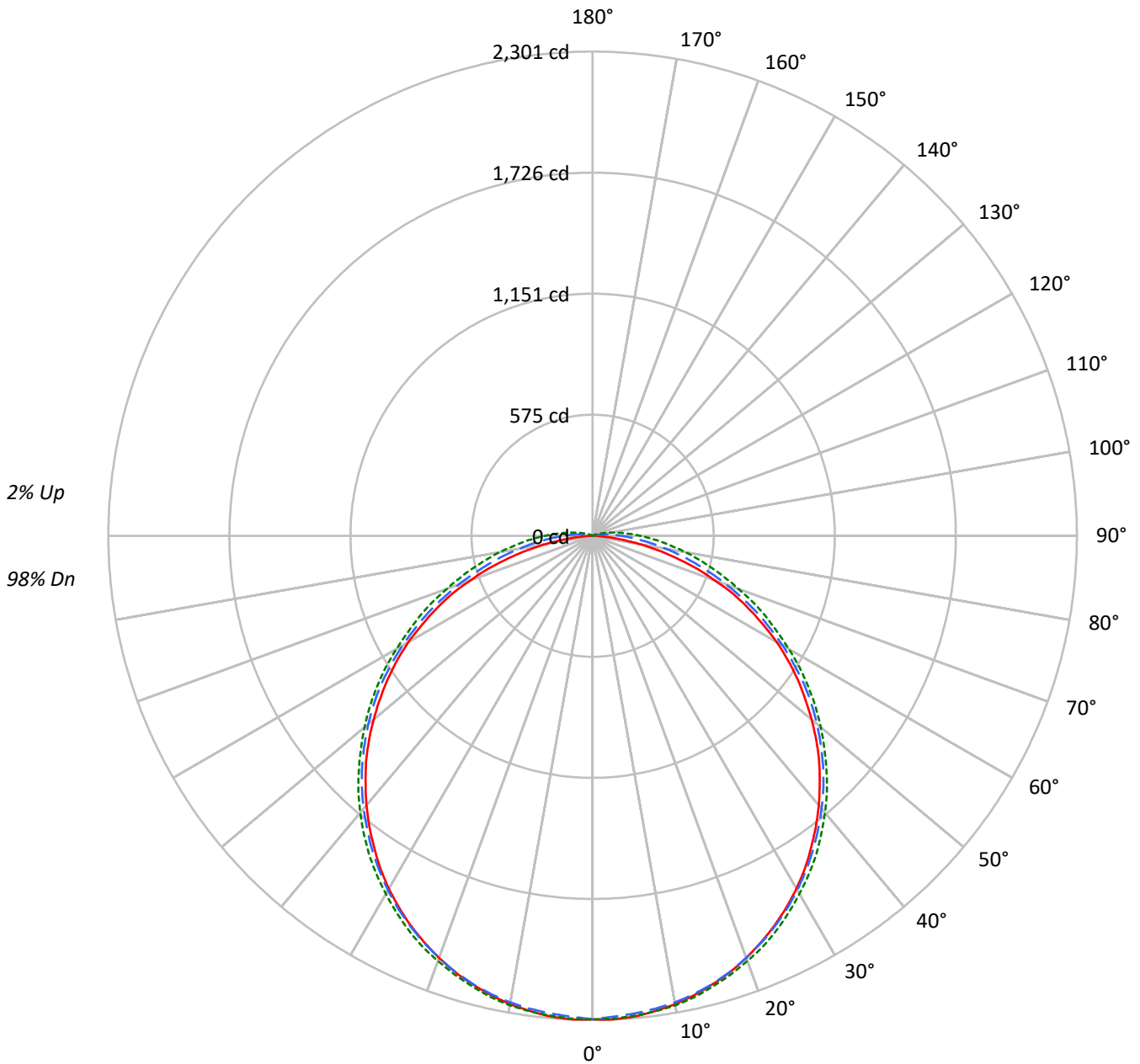
Lumens per Lamp: N/A
Luminaire Lumens: 6949.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

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°	3092	3092	3092
5°	3092	3043	3048
10°	3077	3007	3008
15°	3056	2965	2955
20°	3034	2915	2903
25°	3006	2863	2850
30°	2973	2807	2786
35°	2930	2743	2723
40°	2885	2676	2646
45°	2838	2602	2563
50°	2774	2513	2471
55°	2707	2415	2369
60°	2626	2281	2247
65°	2488	2130	2128
70°	2286	1948	1988
75°	1994	1749	1872
80°	1547	1562	1785
85°	891	1393	1736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	3.1
10°-20°	623.9	9.0
20°-30°	946.6	13.6
30°-40°	1144.6	16.5
40°-50°	1194.3	17.2
50°-60°	1092.0	15.7
60°-70°	851.2	12.2
70°-80°	532.5	7.7
80°-90°	241.8	3.5
90°-100°	81.1	1.2
100°-110°	20.3	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°	1787.9	25.7
0°-40°	2932.5	42.2
0°-60°	5218.8	75.1
0°-90°	6844.4	98.5
90°-120°	104.6	1.5
90°-150°	104.6	1.5
90°-180°	105.0	1.5
0°-180°	6949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2293	2289	2279	2290	2290	218
15°	2206	2210	2204	2216	2216	623
25°	2044	2046	2048	2065	2069	942
35°	1810	1818	1825	1844	1851	1133
45°	1522	1536	1548	1564	1571	1173
55°	1188	1202	1224	1242	1250	1062
65°	816	831	859	893	908	808
75°	413	439	503	563	584	441
85°	72	132	227	300	327	90
90°	0	49	134	201	225	3
95°	0	13	69	126	145	0
105°	1	2	11	34	45	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°	2298.3	2298.3	2298.3	2298.3	2298.3
2.5°	2301.0	2297.8	2287.5	2297.8	2297.2
5°	2293.4	2289.1	2278.8	2289.6	2289.6
7.5°	2278.3	2276.6	2267.4	2279.9	2279.9
10°	2260.4	2259.8	2252.3	2265.8	2266.3
12.5°	2235.5	2237.6	2230.6	2243.6	2245.2
15°	2206.2	2210.0	2204.0	2216.5	2216.0
17.5°	2174.2	2176.4	2172.1	2186.2	2185.6
20°	2134.7	2137.4	2134.1	2148.8	2150.4
22.5°	2090.8	2094.6	2094.1	2109.2	2113.6
25°	2044.2	2045.8	2048.0	2065.3	2068.6
27.5°	1992.7	1995.4	1999.2	2014.9	2018.2
30°	1936.4	1940.7	1945.1	1961.3	1965.6
32.5°	1876.8	1881.1	1886.5	1907.7	1909.8
35°	1809.6	1817.7	1825.3	1843.7	1851.3
37.5°	1742.4	1752.7	1759.8	1779.3	1785.2
40°	1671.4	1681.7	1693.1	1713.7	1717.5
42.5°	1597.2	1609.1	1622.7	1641.1	1647.6
45°	1522.5	1536.0	1548.5	1563.6	1571.2
47.5°	1441.7	1455.3	1470.4	1487.8	1492.7
50°	1358.3	1374.0	1390.3	1406.5	1415.2
52.5°	1272.7	1291.6	1310.1	1327.4	1335.5
55°	1188.2	1202.3	1224.5	1242.3	1250.5
57.5°	1100.4	1112.3	1132.4	1161.6	1166.0
60°	1011.0	1021.8	1042.4	1066.3	1076.0
62.5°	912.4	927.0	948.7	979.0	987.7
65°	816.5	830.6	859.3	893.4	907.5
67.5°	723.8	728.7	765.6	801.3	824.1
70°	614.4	632.8	675.6	719.5	736.8
72.5°	520.1	538.5	585.7	637.2	658.8
75°	413.4	438.9	502.8	562.9	584.1
77.5°	319.7	347.8	426.9	487.6	512.0
80°	223.2	267.1	353.3	421.5	448.1
82.5°	140.3	194.5	286.6	358.1	381.4
85°	71.5	132.2	227.0	300.2	326.7
87.5°	19.0	85.6	176.6	246.5	273.6
90°	0.5	49.3	133.8	201.0	225.4
92.5°	0.5	27.6	99.7	159.8	184.8
95°	0.5	13.0	69.4	125.7	145.2
97.5°	0.5	5.4	47.7	94.8	114.3
100°	0.5	2.7	30.3	68.8	85.6
102.5°	1.1	1.6	19.0	49.3	62.8
105°	1.1	1.6	11.4	33.6	45.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.2	9.2	13.5
115°	1.6	1.6	2.2	6.0	8.7
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	6.5	22.8	30.9
110°	1.6	1.6	3.8	14.1	20.6



(END OF REPORT)