

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: P580162

Luminaire Tested: **HVSL12-2-LD4-3HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580162
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: HVSL12-2-LD4-3HI-50-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

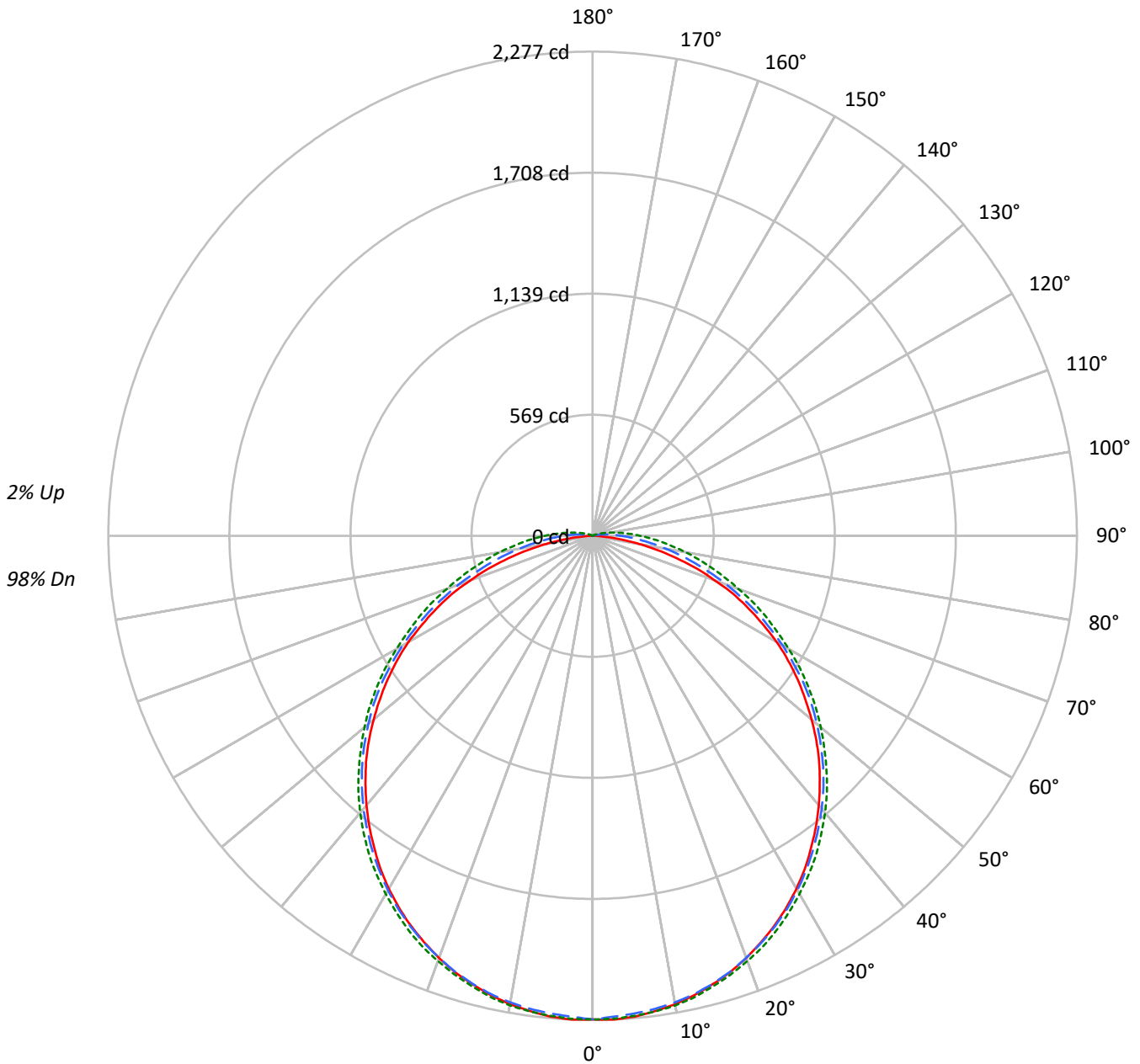
Lumens per Lamp: N/A
Luminaire Lumens: 6877.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 66.7
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°	12241	12241	12241
5°	12173	11998	12066
10°	12048	11813	11907
15°	11899	11604	11697
20°	11743	11365	11491
25°	11564	11119	11280
30°	11362	10854	11028
35°	11118	10561	10779
40°	10861	10251	10476
45°	10586	9911	10144
50°	10238	9515	9783
55°	9860	9078	9379
60°	9411	8501	8894
65°	8729	7852	8425
70°	7785	7081	7870
75°	6489	6234	7409
80°	4649	5410	7064
85°	2239	4593	6871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	3.1
10°-20°	617.4	9.0
20°-30°	936.8	13.6
30°-40°	1132.7	16.5
40°-50°	1181.9	17.2
50°-60°	1080.6	15.7
60°-70°	842.4	12.2
70°-80°	527.0	7.7
80°-90°	239.3	3.5
90°-100°	80.2	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°	1769.4	25.7
0°-40°	2902.2	42.2
0°-60°	5164.8	75.1
0°-90°	6773.5	98.5
90°-120°	103.5	1.5
90°-150°	103.5	1.5
90°-180°	104.0	1.5
0°-180°	6877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2274	2274	2274	2274	2274	
5°	2270	2265	2255	2266	2266	216
15°	2183	2187	2181	2194	2193	616
25°	2023	2025	2027	2044	2047	932
35°	1791	1799	1806	1825	1832	1121
45°	1507	1520	1532	1547	1555	1161
55°	1176	1190	1212	1230	1238	1050
65°	808	822	850	884	898	799
75°	409	434	498	557	578	436
85°	71	131	225	297	323	90
90°	0	49	132	199	223	3
95°	0	13	69	124	144	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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CATALOG NUMBER: HVSL12-2-LD4-3HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2274.5	2274.5	2274.5	2274.5	2274.5
2.5°	2277.2	2274.0	2263.8	2274.0	2273.4
5°	2269.7	2265.4	2255.2	2265.9	2265.9
7.5°	2254.7	2253.0	2243.9	2256.3	2256.3
10°	2237.0	2236.4	2228.9	2242.3	2242.9
12.5°	2212.3	2214.4	2207.5	2220.3	2222.0
15°	2183.3	2187.1	2181.2	2193.5	2193.0
17.5°	2151.7	2153.9	2149.6	2163.5	2163.0
20°	2112.6	2115.2	2112.0	2126.5	2128.1
22.5°	2069.1	2072.9	2072.4	2087.4	2091.7
25°	2023.0	2024.6	2026.8	2043.9	2047.2
27.5°	1972.1	1974.8	1978.5	1994.1	1997.3
30°	1916.3	1920.6	1924.9	1941.0	1945.3
32.5°	1857.3	1861.6	1867.0	1887.9	1890.1
35°	1790.9	1798.9	1806.4	1824.6	1832.1
37.5°	1724.4	1734.6	1741.5	1760.8	1766.7
40°	1654.1	1664.3	1675.6	1696.0	1699.7
42.5°	1580.7	1592.5	1605.9	1624.1	1630.5
45°	1506.7	1520.1	1532.4	1547.4	1554.9
47.5°	1426.8	1440.2	1455.2	1472.4	1477.2
50°	1344.2	1359.8	1375.9	1391.9	1400.5
52.5°	1259.5	1278.3	1296.5	1313.7	1321.7
55°	1175.9	1189.8	1211.8	1229.5	1237.5
57.5°	1089.0	1100.8	1120.6	1149.6	1153.9
60°	1000.5	1011.2	1031.6	1055.2	1064.9
62.5°	902.9	917.4	938.9	968.9	977.5
65°	808.0	822.0	850.4	884.2	898.1
67.5°	716.3	721.2	757.6	793.0	815.5
70°	608.0	626.3	668.6	712.1	729.2
72.5°	514.7	533.0	579.6	630.6	652.0
75°	409.1	434.3	497.6	557.1	578.0
77.5°	316.3	344.2	422.5	482.6	506.7
80°	220.9	264.3	349.6	417.2	443.4
82.5°	138.9	192.5	283.6	354.4	377.5
85°	70.8	130.8	224.7	297.0	323.3
87.5°	18.8	84.7	174.8	244.0	270.8
90°	0.5	48.8	132.4	198.9	223.1
92.5°	0.5	27.3	98.7	158.2	182.8
95°	0.5	12.9	68.6	124.4	143.7
97.5°	0.5	5.4	47.2	93.8	113.1
100°	0.5	2.7	30.0	68.1	84.7
102.5°	1.1	1.6	18.8	48.8	62.2
105°	1.1	1.6	11.3	33.2	44.5



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CATALOG NUMBER: HVSL12-2-LD4-3HI-50-UNV-O-EDD

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	22.5	30.6
110°	1.6	1.6	3.8	13.9	20.4



(END OF REPORT)