

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: P580205

Luminaire Tested: **HVSL12-4-LD4-2HI-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580205
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-35-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

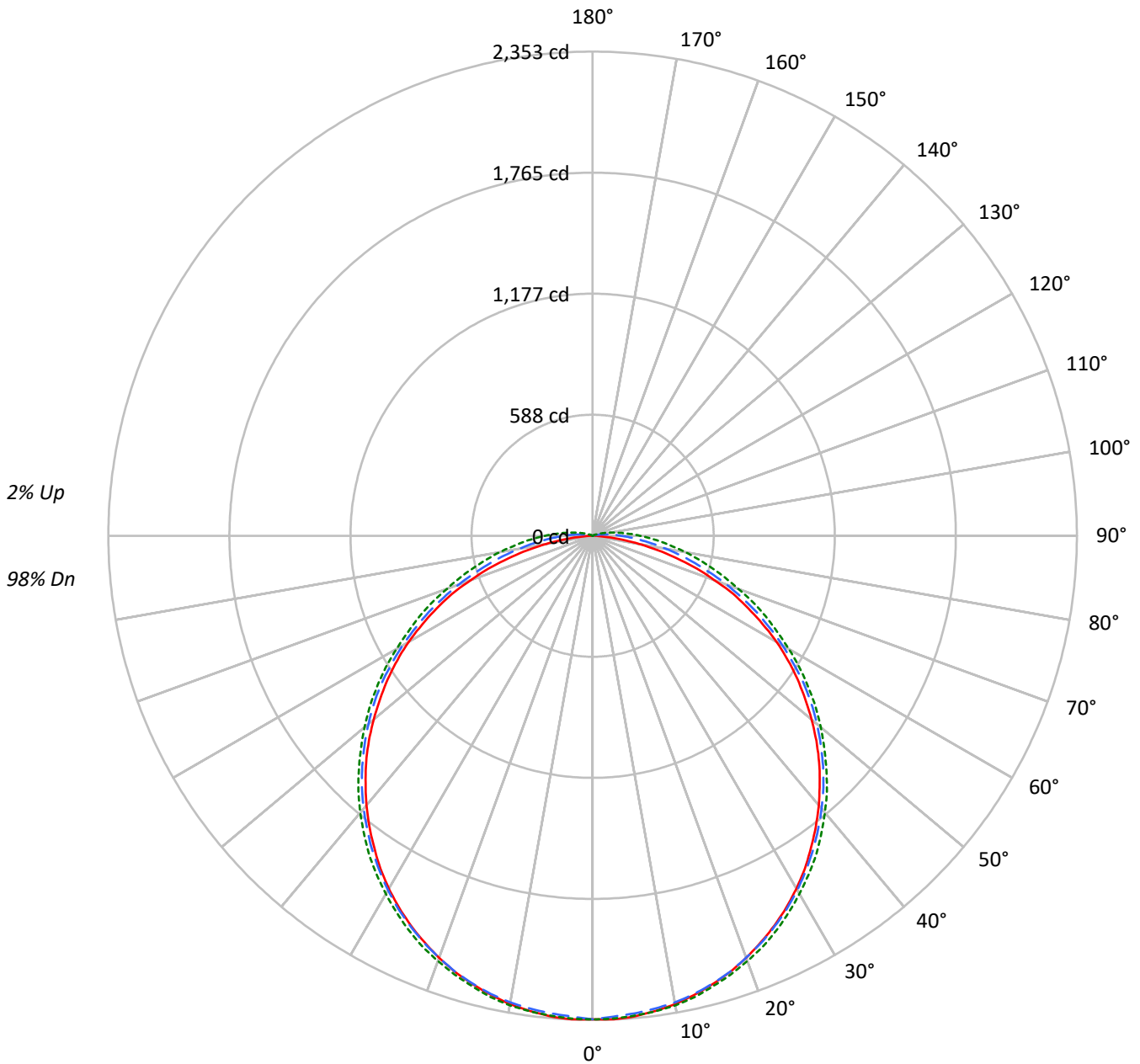
Lumens per Lamp: N/A
Luminaire Lumens: 7105.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

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°	6324	6324	6324
5°	6311	6214	6233
10°	6269	6133	6151
15°	6215	6040	6042
20°	6157	5931	5936
25°	6088	5818	5827
30°	6008	5695	5697
35°	5906	5558	5568
40°	5801	5412	5412
45°	5687	5251	5240
50°	5539	5062	5053
55°	5379	4853	4845
60°	5189	4570	4595
65°	4879	4251	4352
70°	4435	3869	4066
75°	3803	3449	3828
80°	2860	3049	3649
85°	1529	2670	3549



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.4	3.1
10°-20°	637.9	9.0
20°-30°	967.9	13.6
30°-40°	1170.3	16.5
40°-50°	1221.1	17.2
50°-60°	1116.5	15.7
60°-70°	870.3	12.2
70°-80°	544.4	7.7
80°-90°	247.3	3.5
90°-100°	82.9	1.2
100°-110°	20.8	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°	1828.1	25.7
0°-40°	2998.4	42.2
0°-60°	5336.0	75.1
0°-90°	6998.0	98.5
90°-120°	107.0	1.5
90°-150°	107.0	1.5
90°-180°	107.0	1.5
0°-180°	7105.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2350	2350	2350	2350	2350	
5°	2345	2340	2330	2341	2341	223
15°	2256	2260	2254	2266	2266	637
25°	2090	2092	2094	2112	2115	963
35°	1850	1858	1866	1885	1893	1158
45°	1557	1570	1583	1599	1606	1199
55°	1215	1229	1252	1270	1278	1085
65°	835	849	879	914	928	826
75°	423	449	514	576	597	451
85°	73	135	232	307	334	93
90°	1	50	137	206	230	3
95°	1	13	71	128	148	0
105°	1	2	12	34	46	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°	2349.9	2349.9	2349.9	2349.9	2349.9
2.5°	2352.7	2349.4	2338.8	2349.4	2348.8
5°	2344.9	2340.5	2330.0	2341.0	2341.0
7.5°	2329.4	2327.7	2318.3	2331.1	2331.1
10°	2311.1	2310.6	2302.8	2316.7	2317.2
12.5°	2285.6	2287.9	2280.7	2294.0	2295.6
15°	2255.7	2259.6	2253.5	2266.3	2265.7
17.5°	2223.0	2225.3	2220.8	2235.2	2234.7
20°	2182.6	2185.4	2182.1	2197.0	2198.7
22.5°	2137.7	2141.6	2141.1	2156.6	2161.0
25°	2090.1	2091.8	2094.0	2111.7	2115.0
27.5°	2037.5	2040.2	2044.1	2060.2	2063.5
30°	1979.9	1984.3	1988.7	2005.3	2009.8
32.5°	1918.9	1923.4	1928.9	1950.5	1952.7
35°	1850.2	1858.5	1866.3	1885.1	1892.9
37.5°	1781.5	1792.1	1799.3	1819.2	1825.3
40°	1709.0	1719.5	1731.1	1752.2	1756.1
42.5°	1633.1	1645.3	1659.1	1677.9	1684.6
45°	1556.6	1570.5	1583.2	1598.7	1606.5
47.5°	1474.1	1487.9	1503.5	1521.2	1526.2
50°	1388.8	1404.8	1421.5	1438.1	1446.9
52.5°	1301.3	1320.6	1339.5	1357.2	1365.5
55°	1214.8	1229.2	1252.0	1270.2	1278.5
57.5°	1125.1	1137.3	1157.8	1187.7	1192.1
60°	1033.7	1044.8	1065.8	1090.2	1100.2
62.5°	932.9	947.8	970.0	1001.0	1009.9
65°	834.8	849.2	878.6	913.5	927.9
67.5°	740.1	745.1	782.7	819.3	842.6
70°	628.2	647.0	690.8	735.7	753.4
72.5°	531.8	550.6	598.8	651.5	673.6
75°	422.7	448.7	514.1	575.6	597.2
77.5°	326.8	355.6	436.5	498.6	523.5
80°	228.2	273.1	361.2	431.0	458.1
82.5°	143.5	198.9	293.0	366.2	390.0
85°	73.1	135.2	232.1	306.9	334.0
87.5°	19.4	87.5	180.6	252.1	279.8
90°	0.6	50.4	136.8	205.5	230.4
92.5°	0.6	28.3	101.9	163.4	188.9
95°	0.6	13.3	70.9	128.5	148.5
97.5°	0.6	5.5	48.7	96.9	116.9
100°	0.6	2.8	31.0	70.4	87.5
102.5°	1.1	1.7	19.4	50.4	64.3
105°	1.1	1.7	11.6	34.3	46.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	2.2	9.4	13.8
115°	1.7	1.7	2.2	6.1	8.9
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	6.6	23.3	31.6
110°	1.7	1.7	3.9	14.4	21.1



(END OF REPORT)