

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: P580542

Luminaire Tested: **HVSL4-3-LD4-2HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580542
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: HVSL4-3-LD4-2HI-35-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

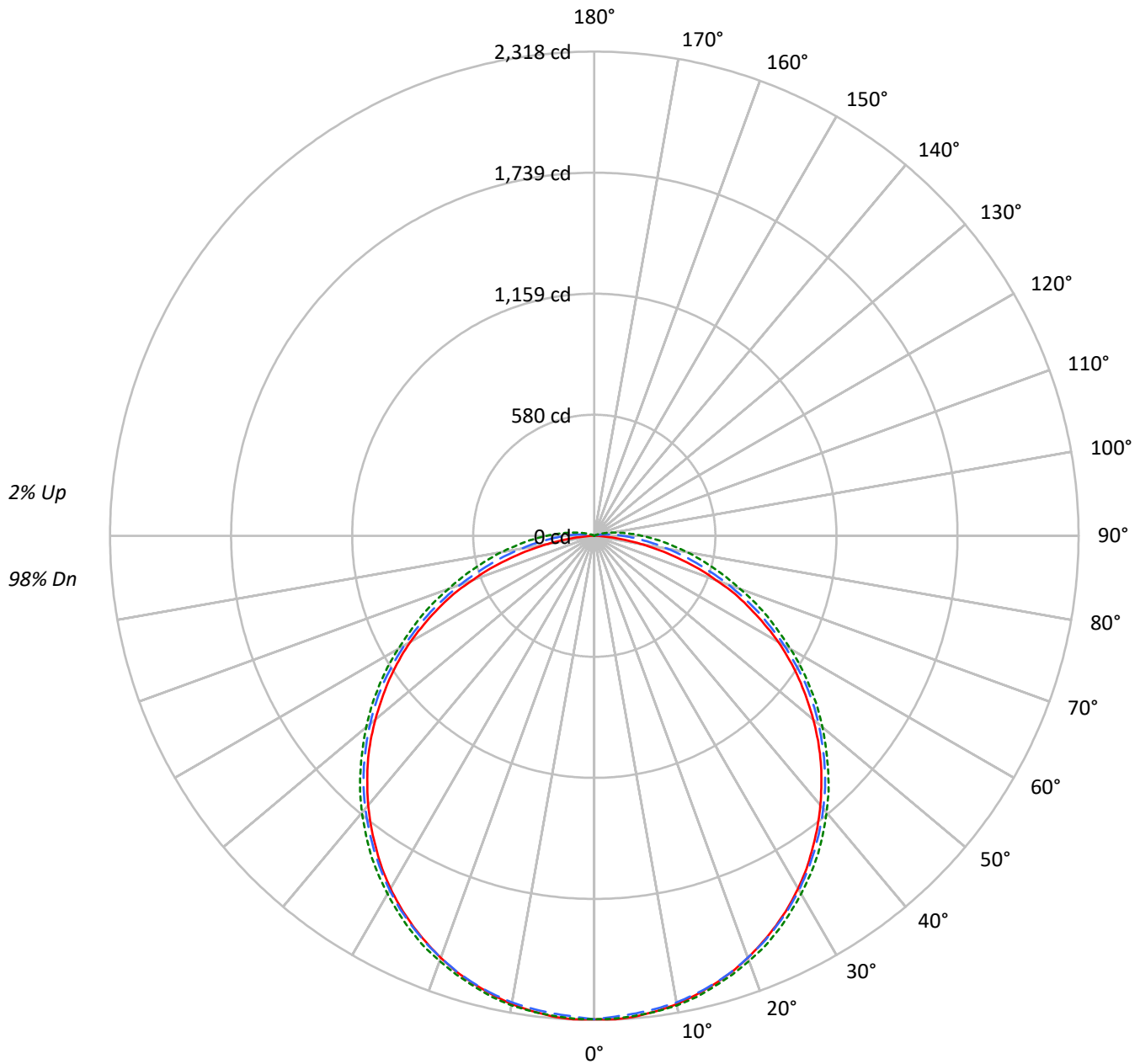
Lumens per Lamp: N/A
Luminaire Lumens: 6999.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 64.7
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	24916	24916	24916
5°	24838	23976	23873
10°	24642	23188	22928
15°	24399	22381	21932
20°	24139	21541	20989
25°	23835	20705	20066
30°	23487	19847	19094
35°	23053	18946	18147
40°	22602	18020	17122
45°	22113	17044	16059
50°	21487	15971	14956
55°	20806	14825	13788
60°	19997	13449	12502
65°	18716	11963	11233
70°	16895	10299	9838
75°	14343	8539	8536
80°	10596	6832	7292
85°	5438	5142	6052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	3.1
10°-20°	628.3	9.0
20°-30°	953.4	13.6
30°-40°	1152.8	16.5
40°-50°	1202.9	17.2
50°-60°	1099.8	15.7
60°-70°	857.4	12.2
70°-80°	536.3	7.7
80°-90°	243.6	3.5
90°-100°	81.6	1.2
100°-110°	20.5	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°	1800.8	25.7
0°-40°	2953.7	42.2
0°-60°	5256.4	75.1
0°-90°	6893.7	98.5
90°-120°	105.3	1.5
90°-150°	105.3	1.5
90°-180°	105.0	1.5
0°-180°	6999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2315	2315	2315	2315	2315	
5°	2310	2306	2295	2306	2306	219
15°	2222	2226	2220	2232	2232	627
25°	2059	2061	2063	2080	2084	949
35°	1823	1831	1838	1857	1865	1141
45°	1533	1547	1560	1575	1582	1182
55°	1197	1211	1233	1251	1260	1069
65°	822	837	866	900	914	814
75°	416	442	506	567	588	444
85°	72	133	229	302	329	91
90°	0	50	135	202	227	3
95°	0	13	70	127	146	0
105°	1	2	12	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2314.8	2314.8	2314.8	2314.8	2314.8
2.5°	2317.6	2314.3	2303.9	2314.3	2313.8
5°	2309.9	2305.6	2295.2	2306.1	2306.1
7.5°	2294.7	2293.0	2283.7	2296.3	2296.3
10°	2276.6	2276.1	2268.5	2282.1	2282.7
12.5°	2251.5	2253.7	2246.6	2259.7	2261.4
15°	2222.1	2225.9	2219.9	2232.4	2231.9
17.5°	2189.9	2192.1	2187.7	2201.9	2201.3
20°	2150.0	2152.8	2149.5	2164.2	2165.9
22.5°	2105.8	2109.7	2109.1	2124.4	2128.8
25°	2058.9	2060.6	2062.7	2080.2	2083.5
27.5°	2007.1	2009.8	2013.6	2029.4	2032.7
30°	1950.3	1954.7	1959.1	1975.4	1979.8
32.5°	1890.3	1894.7	1900.1	1921.4	1923.6
35°	1822.6	1830.8	1838.5	1857.0	1864.6
37.5°	1755.0	1765.3	1772.4	1792.1	1798.1
40°	1683.5	1693.8	1705.3	1726.0	1729.9
42.5°	1608.7	1620.7	1634.4	1652.9	1659.5
45°	1533.4	1547.1	1559.6	1574.9	1582.5
47.5°	1452.1	1465.7	1481.0	1498.5	1503.4
50°	1368.1	1383.9	1400.3	1416.6	1425.4
52.5°	1281.8	1300.9	1319.5	1337.0	1345.1
55°	1196.7	1210.9	1233.3	1251.3	1259.5
57.5°	1108.3	1120.3	1140.5	1170.0	1174.3
60°	1018.3	1029.2	1049.9	1073.9	1083.8
62.5°	919.0	933.7	955.5	986.1	994.8
65°	822.4	836.6	865.5	899.9	914.0
67.5°	729.1	734.0	771.1	807.1	830.0
70°	618.8	637.4	680.5	724.7	742.1
72.5°	523.9	542.4	589.9	641.7	663.6
75°	416.4	442.0	506.4	567.0	588.3
77.5°	322.0	350.3	430.0	491.1	515.7
80°	224.8	269.0	355.8	424.6	451.3
82.5°	141.3	195.9	288.7	360.7	384.2
85°	72.0	133.2	228.6	302.3	329.1
87.5°	19.1	86.2	177.9	248.3	275.6
90°	0.5	49.7	134.8	202.5	227.0
92.5°	0.5	27.8	100.4	161.0	186.1
95°	0.5	13.1	69.8	126.6	146.2
97.5°	0.5	5.5	48.0	95.5	115.1
100°	0.5	2.7	30.6	69.3	86.2
102.5°	1.1	1.6	19.1	49.7	63.3
105°	1.1	1.6	11.5	33.8	45.3



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CATALOG NUMBER: HVSL4-3-LD4-2HI-35-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.2	9.3	13.6
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	22.9	31.1
110°	1.6	1.6	3.8	14.2	20.7



(END OF REPORT)