

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: P580774

Luminaire Tested: **HVSL8-4-LD4-2STD-35-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580774
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: HVSL8-4-LD4-2STD-35-UNV-O-EDD
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

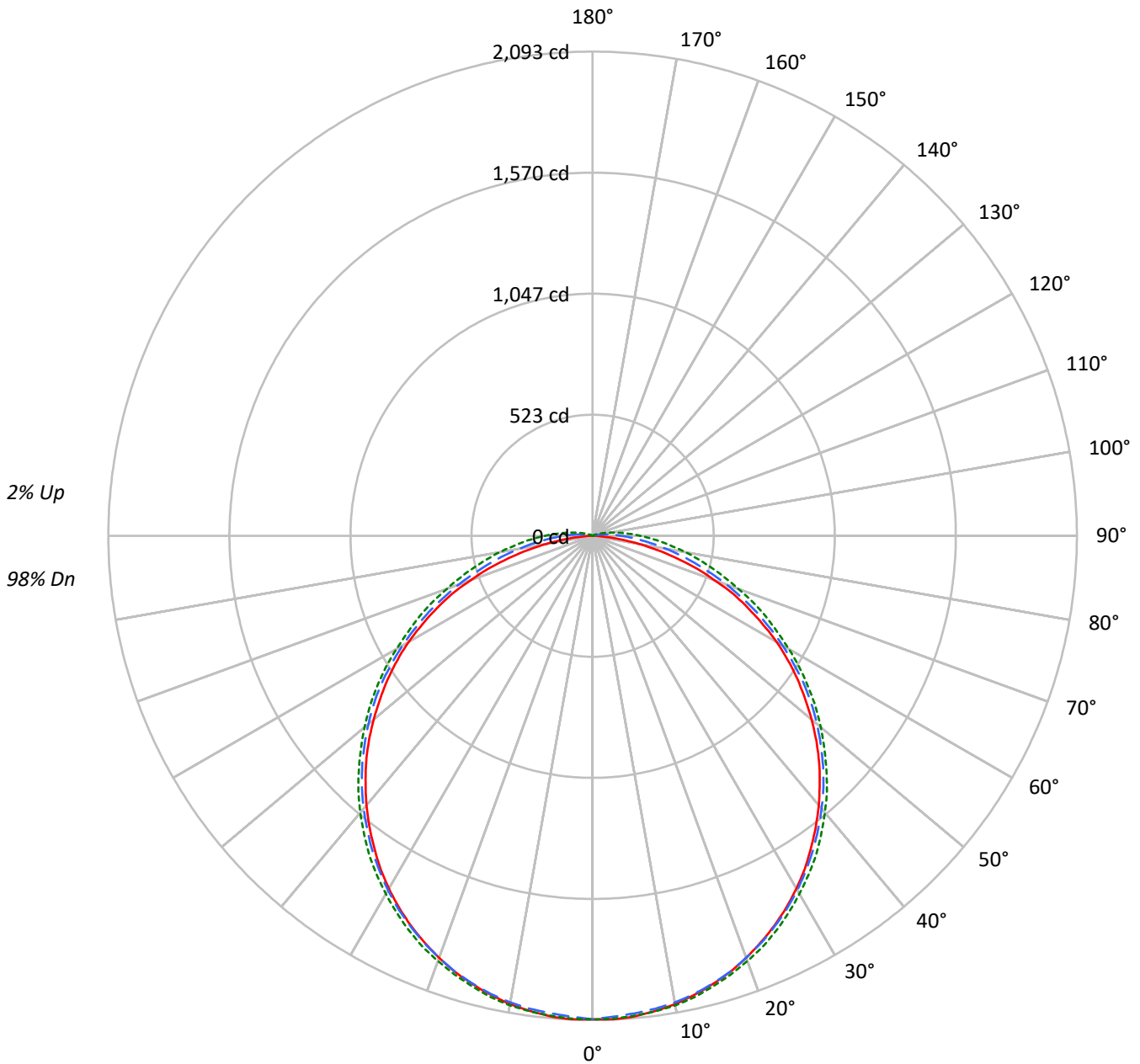
Lumens per Lamp: N/A
Luminaire Lumens: 6320.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 67.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	8437	8437	8437
5°	8421	8249	8257
10°	8365	8101	8092
15°	8292	7938	7893
20°	8215	7755	7700
25°	8123	7568	7504
30°	8015	7368	7281
35°	7880	7148	7060
40°	7740	6917	6803
45°	7588	6664	6526
50°	7390	6373	6227
55°	7177	6053	5898
60°	6923	5639	5513
65°	6511	5175	5132
70°	5917	4629	4688
75°	5075	4030	4285
80°	3817	3442	3917
85°	2039	2848	3566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	3.1
10°-20°	567.4	9.0
20°-30°	860.9	13.6
30°-40°	1041.0	16.5
40°-50°	1086.2	17.2
50°-60°	993.1	15.7
60°-70°	774.2	12.2
70°-80°	484.3	7.7
80°-90°	220.0	3.5
90°-100°	73.7	1.2
100°-110°	18.5	0.3
110°-120°	2.9	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°	1626.1	25.7
0°-40°	2667.1	42.2
0°-60°	4746.4	75.1
0°-90°	6224.9	98.5
90°-120°	95.2	1.5
90°-150°	95.2	1.5
90°-180°	95.0	1.5
0°-180°	6320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2086	2082	2072	2082	2082	198
15°	2006	2010	2004	2016	2015	566
25°	1859	1861	1863	1878	1881	857
35°	1646	1653	1660	1677	1684	1030
45°	1385	1397	1408	1422	1429	1067
55°	1081	1093	1114	1130	1137	965
65°	743	755	782	813	825	735
75°	376	399	457	512	531	401
85°	65	120	206	273	297	82
90°	0	45	122	183	205	3
95°	0	12	63	114	132	0
105°	1	2	10	31	41	1
115°	2	2	2	5	8	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°	2090.3	2090.3	2090.3	2090.3	2090.3
2.5°	2092.7	2089.8	2080.4	2089.8	2089.3
5°	2085.8	2081.9	2072.5	2082.4	2082.4
7.5°	2072.0	2070.6	2062.2	2073.5	2073.5
10°	2055.8	2055.3	2048.4	2060.7	2061.2
12.5°	2033.1	2035.1	2028.7	2040.5	2042.0
15°	2006.5	2010.0	2004.5	2015.9	2015.4
17.5°	1977.4	1979.4	1975.5	1988.3	1987.8
20°	1941.5	1943.9	1941.0	1954.3	1955.8
22.5°	1901.5	1905.0	1904.5	1918.3	1922.2
25°	1859.2	1860.6	1862.6	1878.4	1881.3
27.5°	1812.4	1814.8	1818.3	1832.6	1835.5
30°	1761.1	1765.1	1769.0	1783.8	1787.7
32.5°	1706.9	1710.9	1715.8	1735.0	1737.0
35°	1645.8	1653.2	1660.1	1676.9	1683.7
37.5°	1584.7	1594.1	1600.5	1618.2	1623.6
40°	1520.2	1529.5	1539.9	1558.6	1562.0
42.5°	1452.6	1463.5	1475.8	1492.6	1498.5
45°	1384.6	1397.0	1408.3	1422.1	1429.0
47.5°	1311.2	1323.5	1337.3	1353.1	1357.5
50°	1235.3	1249.6	1264.4	1279.2	1287.1
52.5°	1157.5	1174.7	1191.5	1207.3	1214.6
55°	1080.6	1093.4	1113.6	1129.9	1137.3
57.5°	1000.8	1011.6	1029.9	1056.5	1060.4
60°	919.5	929.3	948.1	969.7	978.6
62.5°	829.8	843.1	862.8	890.4	898.3
65°	742.6	755.4	781.5	812.6	825.4
67.5°	658.3	662.8	696.3	728.8	749.5
70°	558.8	575.5	614.5	654.4	670.1
72.5°	473.0	489.8	532.7	579.5	599.2
75°	376.0	399.1	457.3	512.0	531.2
77.5°	290.7	316.3	388.3	443.5	465.7
80°	203.0	242.9	321.3	383.4	407.5
82.5°	127.6	176.9	260.7	325.7	346.9
85°	65.0	120.2	206.5	273.0	297.1
87.5°	17.2	77.9	160.6	224.2	248.8
90°	0.5	44.8	121.7	182.8	205.0
92.5°	0.5	25.1	90.7	145.4	168.0
95°	0.5	11.8	63.1	114.3	132.1
97.5°	0.5	4.9	43.4	86.2	104.0
100°	0.5	2.5	27.6	62.6	77.9
102.5°	1.0	1.5	17.2	44.8	57.2
105°	1.0	1.5	10.3	30.6	40.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	2.0	8.4	12.3
115°	1.5	1.5	2.0	5.4	7.9
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°	1.0	1.5	5.9	20.7	28.1
110°	1.5	1.5	3.4	12.8	18.7



(END OF REPORT)