

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: P580755

Luminaire Tested: **HVSL8-4-LD4-2HI-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580755
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-LD4-2HI-30-UNV-O-EDD-90
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

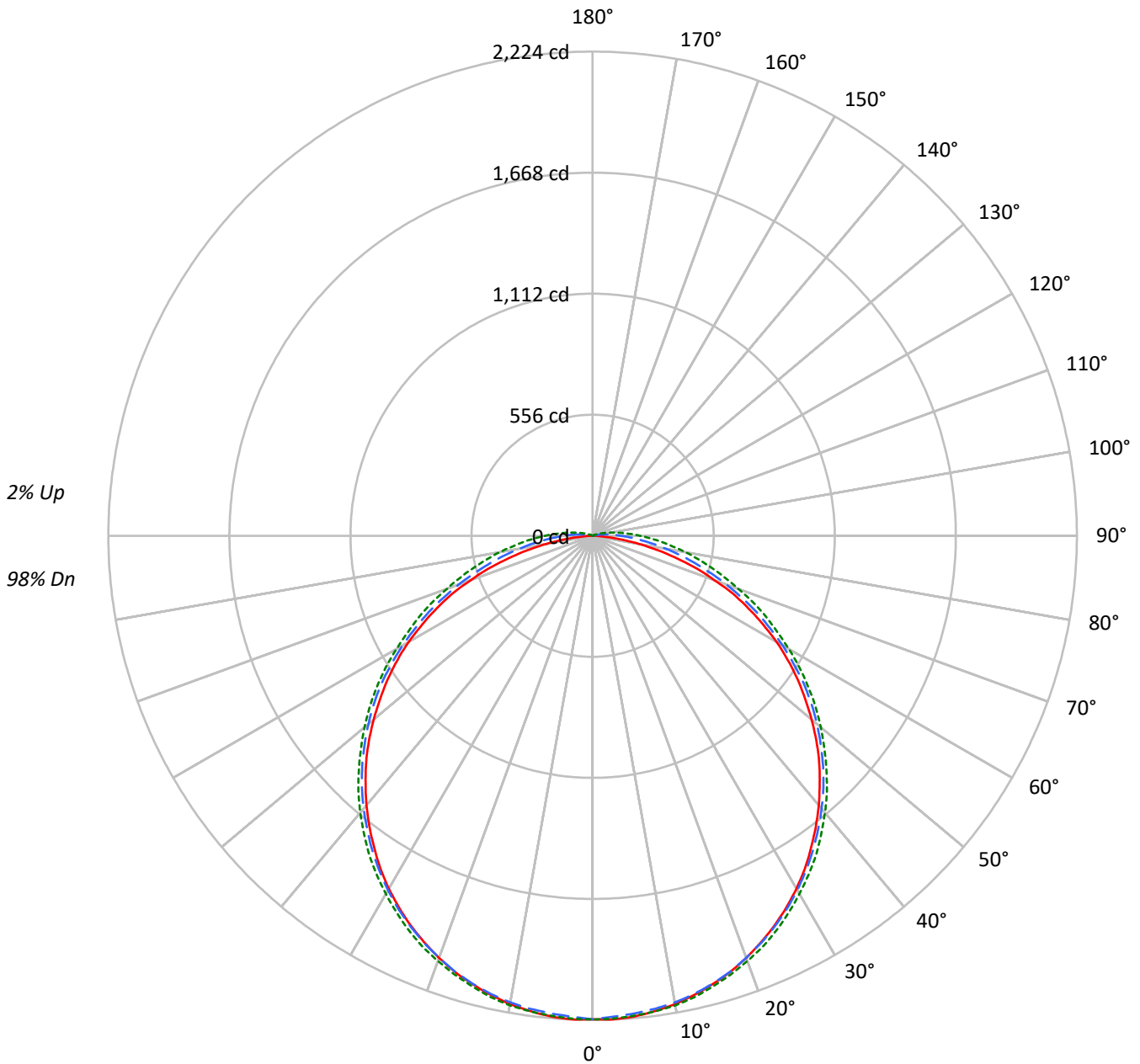
Lumens per Lamp: N/A
Luminaire Lumens: 6716.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 88.8
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°	8966	8966	8966
5°	8948	8766	8774
10°	8889	8609	8599
15°	8812	8435	8388
20°	8730	8241	8183
25°	8632	8042	7974
30°	8518	7829	7737
35°	8374	7596	7503
40°	8224	7350	7230
45°	8063	7082	6934
50°	7853	6772	6617
55°	7627	6433	6267
60°	7357	5992	5858
65°	6918	5499	5453
70°	6288	4919	4982
75°	5392	4282	4554
80°	4055	3657	4162
85°	2168	3026	3791



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	3.1
10°-20°	602.9	9.0
20°-30°	914.9	13.6
30°-40°	1106.2	16.5
40°-50°	1154.3	17.2
50°-60°	1055.3	15.7
60°-70°	822.7	12.2
70°-80°	514.6	7.7
80°-90°	233.7	3.5
90°-100°	78.3	1.2
100°-110°	19.7	0.3
110°-120°	3.1	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°	1728.0	25.7
0°-40°	2834.2	42.2
0°-60°	5043.8	75.1
0°-90°	6614.9	98.5
90°-120°	101.1	1.5
90°-150°	101.1	1.5
90°-180°	101.0	1.5
0°-180°	6716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2221	2221	2221	2221	2221	
5°	2216	2212	2202	2213	2213	210
15°	2132	2136	2130	2142	2142	602
25°	1976	1977	1979	1996	1999	910
35°	1749	1757	1764	1782	1789	1095
45°	1471	1484	1496	1511	1518	1134
55°	1148	1162	1183	1201	1208	1026
65°	789	803	830	864	877	781
75°	400	424	486	544	564	426
85°	69	128	219	290	316	87
90°	0	48	129	194	218	3
95°	0	13	67	122	140	0
105°	1	2	11	32	44	1
115°	2	2	2	6	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°	2221.2	2221.2	2221.2	2221.2	2221.2
2.5°	2223.9	2220.7	2210.8	2220.7	2220.2
5°	2216.5	2212.3	2202.4	2212.9	2212.9
7.5°	2201.9	2200.3	2191.4	2203.4	2203.4
10°	2184.6	2184.1	2176.7	2189.8	2190.4
12.5°	2160.5	2162.6	2155.8	2168.4	2169.9
15°	2132.2	2135.9	2130.1	2142.2	2141.7
17.5°	2101.3	2103.4	2099.2	2112.9	2112.3
20°	2063.1	2065.7	2062.6	2076.7	2078.3
22.5°	2020.7	2024.4	2023.8	2038.5	2042.7
25°	1975.7	1977.2	1979.3	1996.1	1999.2
27.5°	1925.9	1928.5	1932.2	1947.4	1950.5
30°	1871.5	1875.6	1879.8	1895.5	1899.7
32.5°	1813.9	1818.1	1823.3	1843.7	1845.8
35°	1748.9	1756.8	1764.1	1781.9	1789.3
37.5°	1684.0	1693.9	1700.8	1719.6	1725.4
40°	1615.4	1625.4	1636.4	1656.2	1659.9
42.5°	1543.7	1555.2	1568.3	1586.1	1592.4
45°	1471.4	1484.5	1496.5	1511.2	1518.5
47.5°	1393.4	1406.5	1421.1	1437.9	1442.6
50°	1312.7	1327.9	1343.6	1359.3	1367.7
52.5°	1230.0	1248.3	1266.1	1282.9	1290.8
55°	1148.3	1161.9	1183.4	1200.7	1208.5
57.5°	1063.5	1075.0	1094.4	1122.7	1126.9
60°	977.1	987.6	1007.5	1030.5	1039.9
62.5°	881.8	895.9	916.9	946.2	954.6
65°	789.1	802.7	830.5	863.5	877.1
67.5°	699.6	704.3	739.9	774.5	796.4
70°	593.8	611.6	653.0	695.4	712.1
72.5°	502.7	520.5	566.0	615.8	636.7
75°	399.5	424.1	485.9	544.1	564.5
77.5°	308.9	336.2	412.6	471.3	494.8
80°	215.7	258.2	341.4	407.4	433.0
82.5°	135.6	188.0	277.0	346.1	368.6
85°	69.1	127.8	219.4	290.1	315.8
87.5°	18.3	82.7	170.7	238.3	264.4
90°	0.5	47.7	129.3	194.3	217.8
92.5°	0.5	26.7	96.3	154.5	178.6
95°	0.5	12.6	67.0	121.5	140.3
97.5°	0.5	5.2	46.1	91.6	110.5
100°	0.5	2.6	29.3	66.5	82.7
102.5°	1.0	1.6	18.3	47.7	60.7
105°	1.0	1.6	11.0	32.5	43.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.1	8.9	13.1
115°	1.6	1.6	2.1	5.8	8.4
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	1.6	6.3	22.0	29.8
110°	1.6	1.6	3.7	13.6	19.9



(END OF REPORT)