

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: P580255

Luminaire Tested: **HVSL12-8-LD4-1HI-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580255
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: HVSL12-8-LD4-1HI-40-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

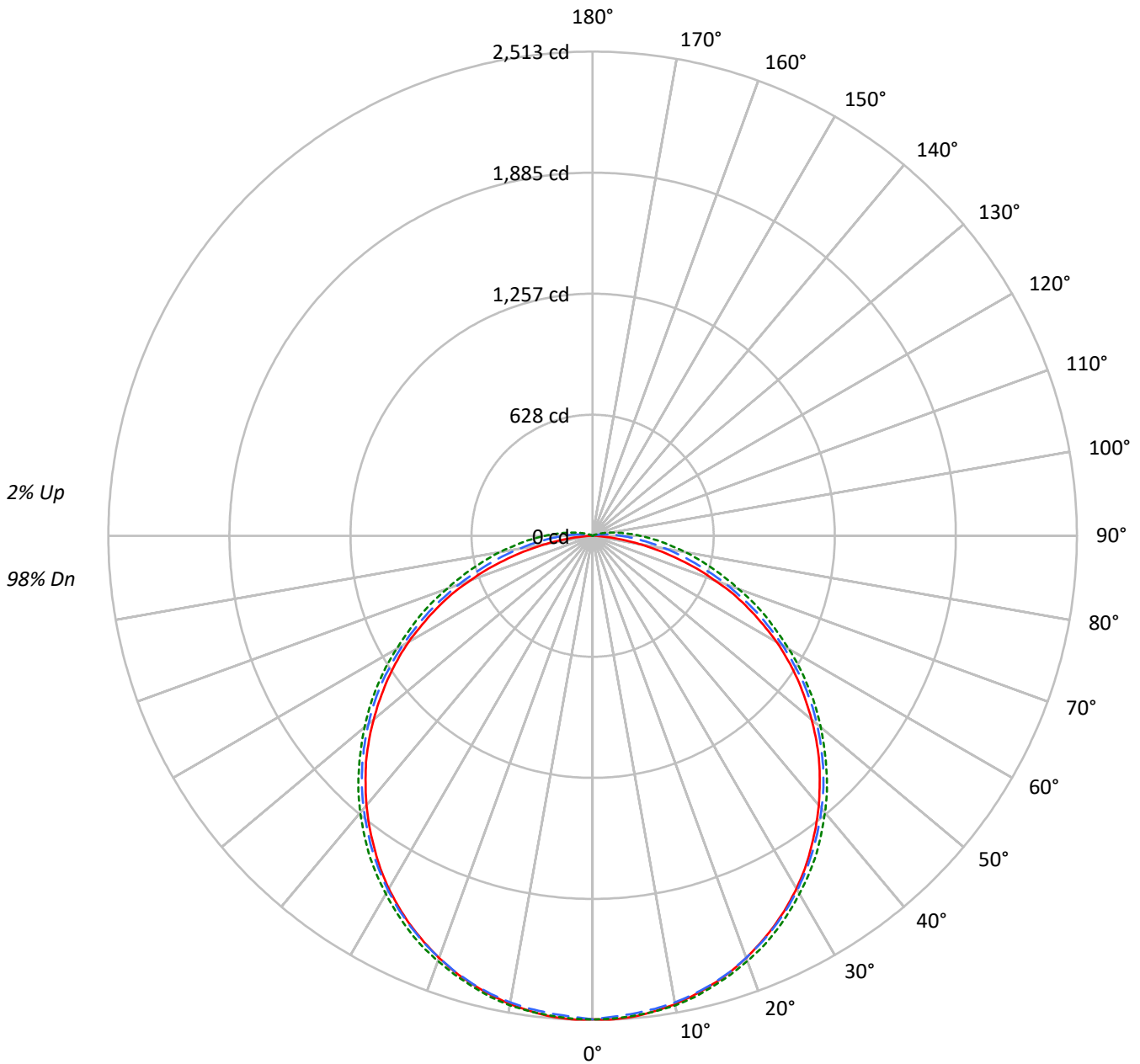
Lumens per Lamp: N/A
Luminaire Lumens: 7589.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 91
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°	3377	3377	3377
5°	3377	3323	3329
10°	3360	3284	3285
15°	3338	3238	3227
20°	3313	3184	3170
25°	3282	3127	3112
30°	3246	3066	3042
35°	3199	2996	2974
40°	3151	2923	2890
45°	3099	2841	2799
50°	3030	2744	2699
55°	2956	2637	2587
60°	2868	2491	2454
65°	2717	2326	2324
70°	2497	2127	2171
75°	2178	1910	2044
80°	1689	1706	1949
85°	974	1521	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	3.1
10°-20°	681.3	9.0
20°-30°	1033.8	13.6
30°-40°	1250.0	16.5
40°-50°	1304.3	17.2
50°-60°	1192.5	15.7
60°-70°	929.6	12.2
70°-80°	581.5	7.7
80°-90°	264.1	3.5
90°-100°	88.5	1.2
100°-110°	22.2	0.3
110°-120°	3.5	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°	1952.6	25.7
0°-40°	3202.6	42.2
0°-60°	5699.4	75.1
0°-90°	7474.7	98.5
90°-120°	114.3	1.5
90°-150°	114.3	1.5
90°-180°	114.0	1.5
0°-180°	7589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2510	2510	2510	2510	2510	
5°	2505	2500	2489	2500	2500	238
15°	2409	2414	2407	2421	2420	680
25°	2232	2234	2237	2256	2259	1029
35°	1976	1985	1993	2014	2022	1237
45°	1663	1678	1691	1708	1716	1281
55°	1298	1313	1337	1357	1366	1159
65°	892	907	938	976	991	882
75°	452	479	549	615	638	481
85°	78	144	248	328	357	99
90°	1	54	146	220	246	3
95°	1	14	76	137	159	0
105°	1	2	12	37	49	1
115°	2	2	2	6	10	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°	2510.0	2510.0	2510.0	2510.0	2510.0
2.5°	2512.9	2509.4	2498.1	2509.4	2508.8
5°	2504.7	2499.9	2488.7	2500.5	2500.5
7.5°	2488.1	2486.3	2476.3	2489.9	2489.9
10°	2468.6	2468.0	2459.7	2474.5	2475.1
12.5°	2441.3	2443.7	2436.0	2450.2	2452.0
15°	2409.4	2413.5	2407.0	2420.6	2420.0
17.5°	2374.5	2376.9	2372.1	2387.5	2386.9
20°	2331.3	2334.2	2330.7	2346.7	2348.4
22.5°	2283.4	2287.5	2286.9	2303.5	2308.2
25°	2232.5	2234.3	2236.6	2255.6	2259.1
27.5°	2176.3	2179.2	2183.4	2200.5	2204.1
30°	2114.7	2119.5	2124.2	2141.9	2146.7
32.5°	2049.6	2054.4	2060.3	2083.4	2085.7
35°	1976.3	1985.1	1993.4	2013.5	2021.8
37.5°	1902.9	1914.1	1921.8	1943.1	1949.6
40°	1825.4	1836.6	1849.1	1871.5	1875.7
42.5°	1744.3	1757.3	1772.1	1792.3	1799.4
45°	1662.7	1677.5	1691.1	1707.6	1715.9
47.5°	1574.5	1589.3	1605.9	1624.8	1630.1
50°	1483.4	1500.5	1518.3	1536.0	1545.5
52.5°	1389.9	1410.6	1430.7	1449.7	1458.5
55°	1297.6	1313.0	1337.2	1356.8	1365.6
57.5°	1201.7	1214.8	1236.6	1268.6	1273.3
60°	1104.1	1115.9	1138.4	1164.5	1175.1
62.5°	996.4	1012.4	1036.1	1069.2	1078.7
65°	891.7	907.1	938.4	975.7	991.1
67.5°	790.5	795.8	836.1	875.1	900.0
70°	671.0	691.1	737.8	785.8	804.7
72.5°	568.0	588.1	639.6	695.8	719.5
75°	451.5	479.3	549.1	614.8	637.9
77.5°	349.1	379.9	466.3	532.5	559.2
80°	243.8	291.7	385.8	460.3	489.3
82.5°	153.2	212.4	313.0	391.1	416.6
85°	78.1	144.4	247.9	327.8	356.8
87.5°	20.7	93.5	192.9	269.2	298.8
90°	0.6	53.8	146.1	219.5	246.1
92.5°	0.6	30.2	108.9	174.6	201.8
95°	0.6	14.2	75.7	137.3	158.6
97.5°	0.6	5.9	52.1	103.5	124.8
100°	0.6	3.0	33.1	75.1	93.5
102.5°	1.2	1.8	20.7	53.8	68.6
105°	1.2	1.8	12.4	36.7	49.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	1.8	2.4	10.1	14.8
115°	1.8	1.8	2.4	6.5	9.5
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°	1.2	1.8	7.1	24.9	33.7
110°	1.8	1.8	4.1	15.4	22.5



(END OF REPORT)