

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: P580253

Luminaire Tested: **HVSL12-8-LD4-1HI-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580253
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-35-UNV-O-EDD-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

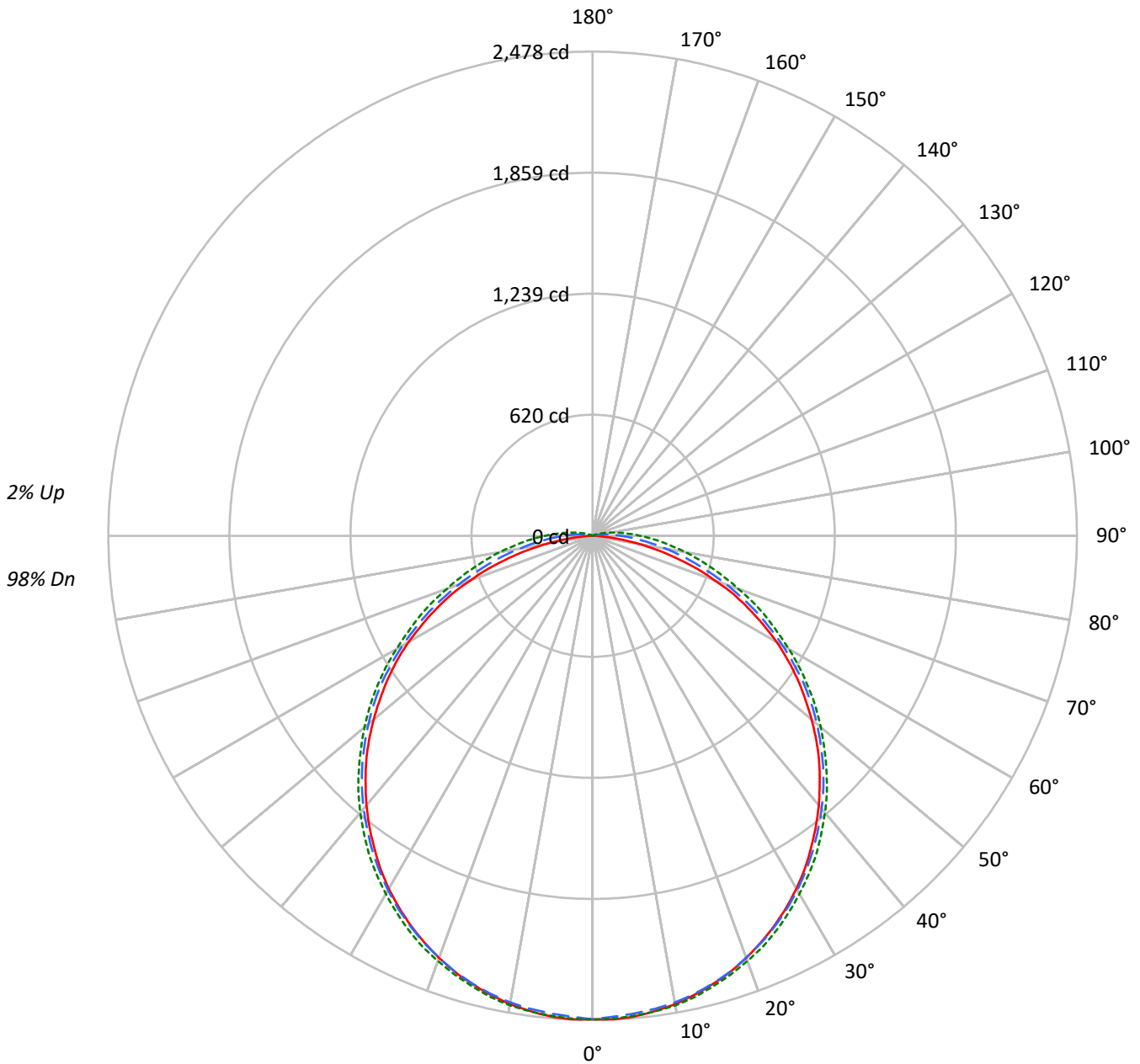
Lumens per Lamp: N/A
Luminaire Lumens: 7483.1 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 91
Input Voltage (V): NR
Input Current (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°	3330	3330	3330
5°	3330	3276	3282
10°	3313	3238	3239
15°	3291	3193	3182
20°	3267	3139	3126
25°	3237	3083	3068
30°	3201	3023	3000
35°	3155	2954	2932
40°	3107	2882	2850
45°	3056	2801	2760
50°	2988	2706	2661
55°	2915	2601	2551
60°	2828	2456	2419
65°	2679	2294	2292
70°	2462	2098	2141
75°	2147	1883	2015
80°	1666	1682	1922
85°	960	1500	1869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	3.1
10°-20°	671.8	9.0
20°-30°	1019.3	13.6
30°-40°	1232.6	16.5
40°-50°	1286.1	17.2
50°-60°	1175.9	15.7
60°-70°	916.7	12.2
70°-80°	573.4	7.7
80°-90°	260.4	3.5
90°-100°	87.3	1.2
100°-110°	21.9	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°	1925.3	25.7
0°-40°	3157.9	42.2
0°-60°	5619.9	75.1
0°-90°	7370.4	98.5
90°-120°	112.7	1.5
90°-150°	112.7	1.5
90°-180°	113.0	1.5
0°-180°	7483.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2475	2475	2475	2475	2475	
5°	2470	2465	2454	2466	2466	235
15°	2376	2380	2373	2387	2386	671
25°	2201	2203	2205	2224	2228	1014
35°	1949	1957	1966	1985	1994	1220
45°	1639	1654	1668	1684	1692	1263
55°	1280	1295	1319	1338	1347	1143
65°	879	894	925	962	977	870
75°	445	473	541	606	629	475
85°	77	142	244	323	352	97
90°	1	53	144	216	243	3
95°	1	14	75	135	156	0
105°	1	2	12	36	48	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°	2474.9	2474.9	2474.9	2474.9	2474.9
2.5°	2477.8	2474.3	2463.3	2474.3	2473.8
5°	2469.7	2465.0	2453.9	2465.6	2465.6
7.5°	2453.3	2451.6	2441.7	2455.1	2455.1
10°	2434.1	2433.5	2425.3	2439.9	2440.5
12.5°	2407.2	2409.6	2402.0	2416.0	2417.7
15°	2375.7	2379.8	2373.4	2386.8	2386.2
17.5°	2341.3	2343.7	2339.0	2354.2	2353.6
20°	2298.7	2301.6	2298.1	2313.9	2315.6
22.5°	2251.5	2255.6	2255.0	2271.3	2276.0
25°	2201.3	2203.0	2205.4	2224.0	2227.5
27.5°	2145.9	2148.8	2152.9	2169.8	2173.3
30°	2085.2	2089.9	2094.5	2112.0	2116.7
32.5°	2021.0	2025.7	2031.5	2054.3	2056.6
35°	1948.7	1957.4	1965.6	1985.4	1993.6
37.5°	1876.3	1887.4	1895.0	1916.0	1922.4
40°	1799.9	1811.0	1823.2	1845.4	1849.5
42.5°	1720.0	1732.8	1747.4	1767.2	1774.2
45°	1639.4	1654.0	1667.5	1683.8	1692.0
47.5°	1552.5	1567.1	1583.4	1602.1	1607.4
50°	1462.7	1479.6	1497.1	1514.6	1523.9
52.5°	1370.5	1390.9	1410.7	1429.4	1438.2
55°	1279.5	1294.6	1318.6	1337.8	1346.6
57.5°	1185.0	1197.8	1219.4	1250.9	1255.5
60°	1088.7	1100.4	1122.5	1148.2	1158.7
62.5°	982.5	998.3	1021.6	1054.3	1063.6
65°	879.2	894.4	925.3	962.1	977.3
67.5°	779.5	784.7	824.4	862.9	887.4
70°	661.6	681.5	727.5	774.8	793.5
72.5°	560.1	579.9	630.7	686.1	709.5
75°	445.2	472.6	541.4	606.2	628.9
77.5°	344.2	374.6	459.7	525.1	551.3
80°	240.4	287.6	380.4	453.9	482.5
82.5°	151.1	209.5	308.6	385.6	410.7
85°	77.0	142.4	244.5	323.2	351.8
87.5°	20.4	92.2	190.2	265.5	294.6
90°	0.6	53.1	144.1	216.5	242.7
92.5°	0.6	29.8	107.4	172.1	199.0
95°	0.6	14.0	74.7	135.4	156.4
97.5°	0.6	5.8	51.3	102.1	123.1
100°	0.6	2.9	32.7	74.1	92.2
102.5°	1.2	1.8	20.4	53.1	67.7
105°	1.2	1.8	12.3	36.2	48.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	1.8	2.3	9.9	14.6
115°	1.8	1.8	2.3	6.4	9.3
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	7.0	24.5	33.3
110°	1.8	1.8	4.1	15.2	22.2



(END OF REPORT)