

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: P580204

Luminaire Tested: **HVSL12-4-LD4-2HI-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580204
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: HVSL12-4-LD4-2HI-30-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

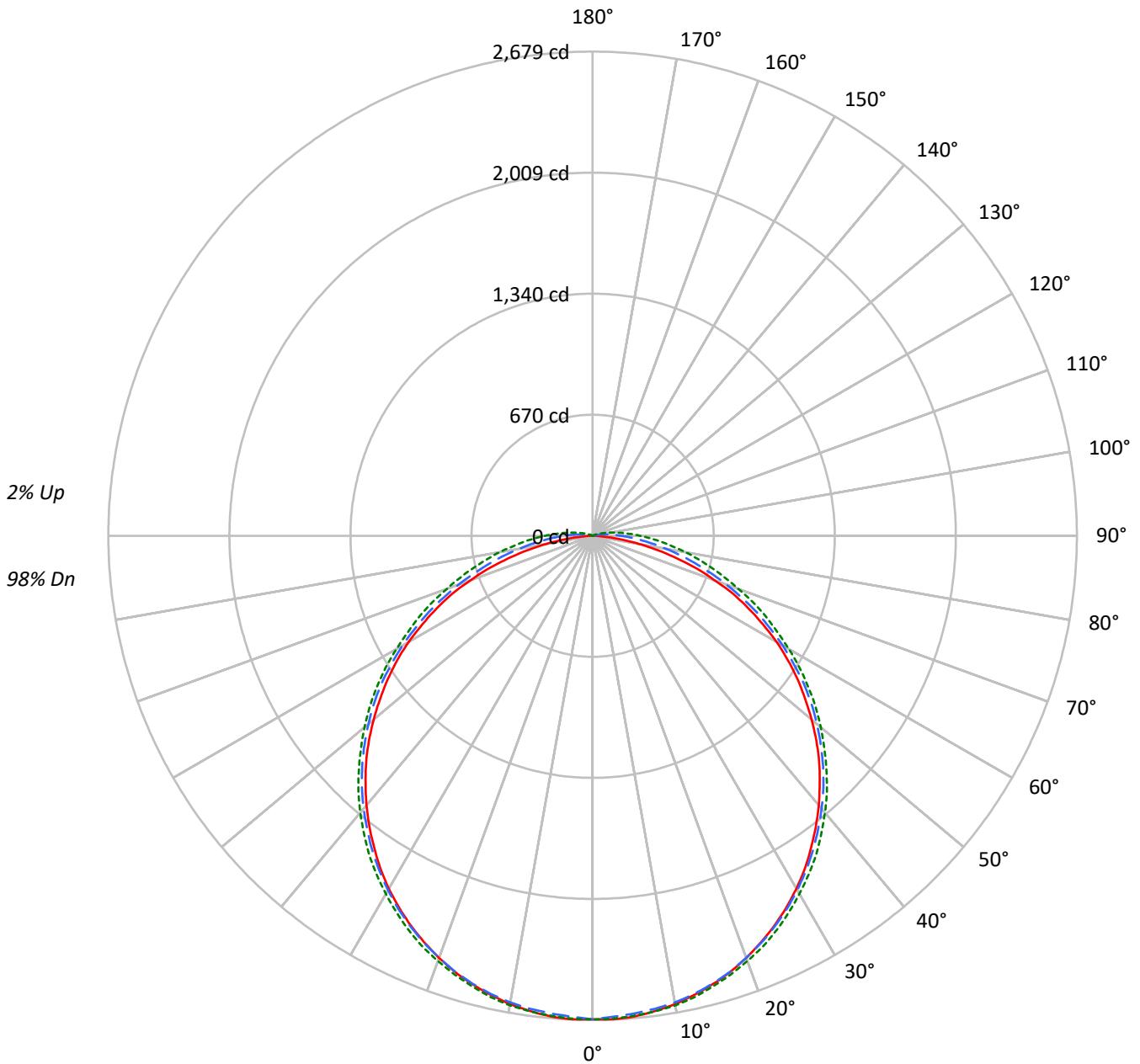
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8090.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 91.2
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					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°	7200	7200	7200
5°	7186	7075	7097
10°	7138	6983	7004
15°	7077	6877	6880
20°	7010	6753	6759
25°	6932	6624	6635
30°	6840	6484	6486
35°	6724	6328	6340
40°	6605	6162	6162
45°	6475	5979	5967
50°	6307	5764	5754
55°	6125	5525	5517
60°	5908	5204	5231
65°	5556	4840	4956
70°	5050	4405	4629
75°	4331	3926	4358
80°	3258	3472	4155
85°	1742	3040	4041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	3.1
10°-20°	726.3	9.0
20°-30°	1102.0	13.6
30°-40°	1332.5	16.5
40°-50°	1390.4	17.2
50°-60°	1271.2	15.7
60°-70°	991.0	12.2
70°-80°	619.9	7.7
80°-90°	281.6	3.5
90°-100°	94.4	1.2
100°-110°	23.7	0.3
110°-120°	3.7	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°	2081.5	25.7
0°-40°	3414.1	42.2
0°-60°	6075.7	75.1
0°-90°	7968.2	98.5
90°-120°	121.8	1.5
90°-150°	121.8	1.5
90°-180°	122.0	1.5
0°-180°	8090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2676	2676	2676	2676	2676	
5°	2670	2665	2653	2666	2666	254
15°	2568	2573	2566	2580	2580	725
25°	2380	2382	2384	2404	2408	1097
35°	2107	2116	2125	2146	2155	1319
45°	1772	1788	1803	1820	1829	1366
55°	1383	1400	1426	1446	1456	1236
65°	951	967	1000	1040	1056	941
75°	481	511	585	655	680	513
85°	83	154	264	349	380	105
90°	1	57	156	234	262	3
95°	1	15	81	146	169	0
105°	1	2	13	39	52	1
115°	2	2	2	7	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



TEST NUMBER: P580204

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2675.7	2675.7	2675.7	2675.7	2675.7
2.5°	2678.8	2675.1	2663.1	2675.1	2674.4
5°	2670.0	2665.0	2653.0	2665.6	2665.6
7.5°	2652.3	2650.5	2639.7	2654.2	2654.2
10°	2631.5	2630.9	2622.1	2637.8	2638.5
12.5°	2602.5	2605.0	2596.8	2612.0	2613.9
15°	2568.5	2572.9	2565.9	2580.4	2579.8
17.5°	2531.2	2533.8	2528.7	2545.1	2544.5
20°	2485.2	2488.3	2484.6	2501.6	2503.5
22.5°	2434.1	2438.5	2437.9	2455.5	2460.6
25°	2379.9	2381.7	2384.3	2404.5	2408.2
27.5°	2319.9	2323.1	2327.5	2345.8	2349.6
30°	2254.3	2259.4	2264.4	2283.4	2288.4
32.5°	2185.0	2190.0	2196.3	2220.9	2223.4
35°	2106.7	2116.2	2125.0	2146.5	2155.3
37.5°	2028.5	2040.5	2048.7	2071.4	2078.4
40°	1945.9	1957.9	1971.1	1995.1	1999.5
42.5°	1859.5	1873.4	1889.1	1910.6	1918.1
45°	1772.4	1788.2	1802.7	1820.4	1829.2
47.5°	1678.5	1694.2	1711.9	1732.1	1737.7
50°	1581.3	1599.6	1618.5	1637.5	1647.5
52.5°	1481.7	1503.7	1525.2	1545.4	1554.8
55°	1383.3	1399.7	1425.5	1446.3	1455.8
57.5°	1281.1	1294.9	1318.3	1352.3	1357.4
60°	1177.0	1189.6	1213.6	1241.3	1252.7
62.5°	1062.2	1079.2	1104.5	1139.8	1149.9
65°	950.6	967.0	1000.4	1040.1	1056.5
67.5°	842.7	848.4	891.3	932.9	959.4
70°	715.3	736.7	786.6	837.6	857.8
72.5°	605.5	627.0	681.9	741.8	767.0
75°	481.3	510.9	585.3	655.4	680.0
77.5°	372.1	404.9	497.0	567.7	596.1
80°	259.9	311.0	411.3	490.7	521.6
82.5°	163.4	226.4	333.7	416.9	444.1
85°	83.3	153.9	264.3	349.4	380.3
87.5°	22.1	99.7	205.6	287.0	318.5
90°	0.6	57.4	155.8	234.0	262.4
92.5°	0.6	32.2	116.1	186.1	215.1
95°	0.6	15.1	80.7	146.3	169.0
97.5°	0.6	6.3	55.5	110.4	133.1
100°	0.6	3.2	35.3	80.1	99.7
102.5°	1.3	1.9	22.1	57.4	73.2
105°	1.3	1.9	13.2	39.1	52.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	2.5	10.7	15.8
115°	1.9	1.9	2.5	6.9	10.1
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°	1.3	1.9	7.6	26.5	36.0
110°	1.9	1.9	4.4	16.4	24.0



(END OF REPORT)