

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: P580245

Luminaire Tested: **HVSL12-4-LD4-3STD-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580245
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-LD4-3STD-35-UNV-O-EDD-90
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

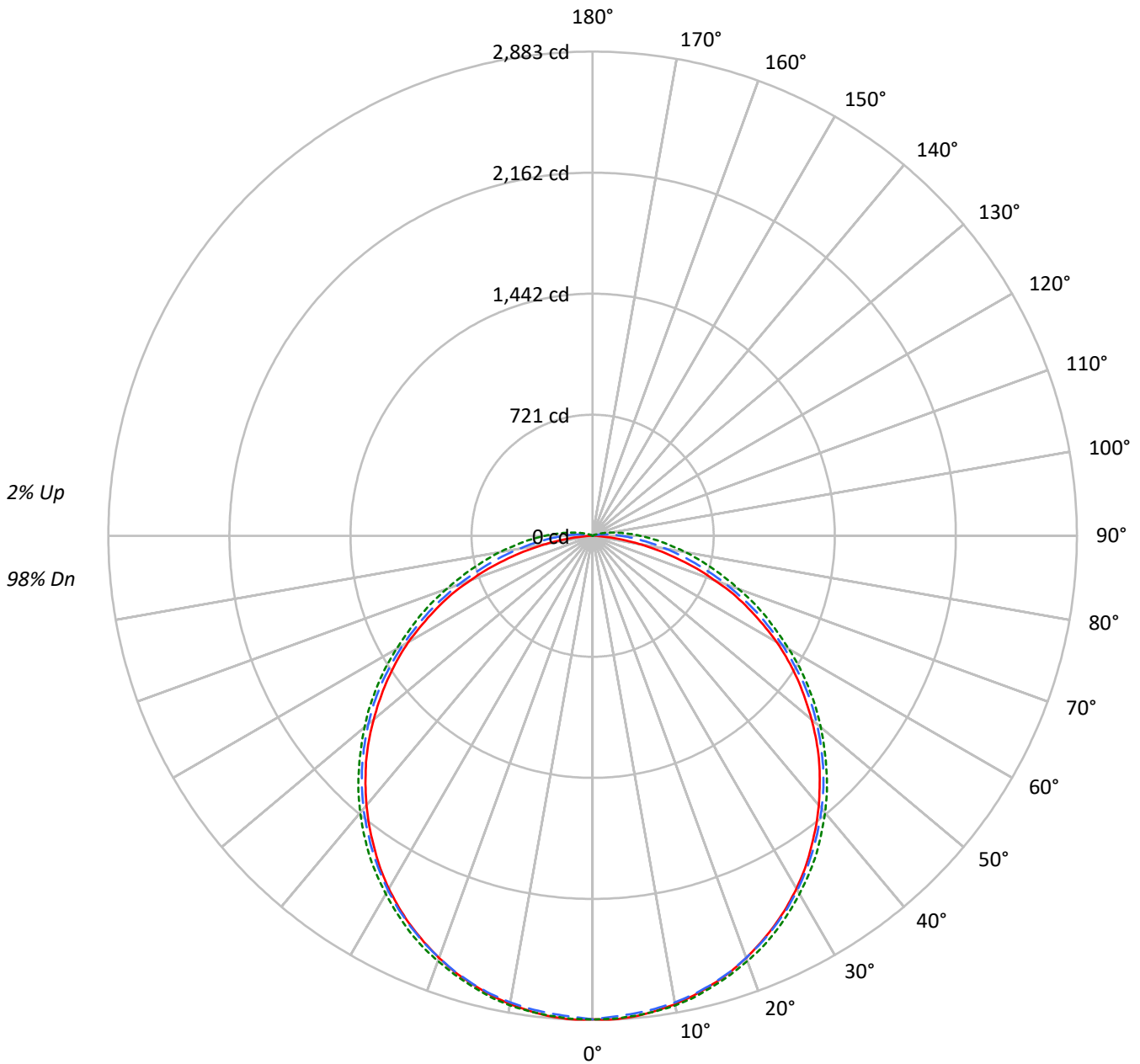
Lumens per Lamp: N/A
Luminaire Lumens: 8707.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 101.1
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°	7749	7749	7749
5°	7734	7615	7638
10°	7683	7516	7538
15°	7616	7401	7405
20°	7545	7268	7275
25°	7460	7129	7141
30°	7362	6979	6981
35°	7237	6811	6824
40°	7108	6632	6632
45°	6969	6435	6422
50°	6788	6203	6193
55°	6592	5947	5937
60°	6359	5600	5630
65°	5980	5210	5334
70°	5434	4741	4982
75°	4661	4226	4691
80°	3506	3737	4472
85°	1874	3271	4351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.5	3.1
10°-20°	781.7	9.0
20°-30°	1186.1	13.6
30°-40°	1434.2	16.5
40°-50°	1496.4	17.2
50°-60°	1368.2	15.7
60°-70°	1066.6	12.2
70°-80°	667.2	7.7
80°-90°	303.0	3.5
90°-100°	101.6	1.2
100°-110°	25.5	0.3
110°-120°	4.0	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°	2240.3	25.7
0°-40°	3674.5	42.2
0°-60°	6539.1	75.1
0°-90°	8575.9	98.5
90°-120°	131.1	1.5
90°-150°	131.1	1.5
90°-180°	131.0	1.5
0°-180°	8707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2880	2880	2880	2880	2880	
5°	2874	2868	2855	2869	2869	273
15°	2764	2769	2762	2777	2777	780
25°	2561	2563	2566	2588	2592	1180
35°	2267	2278	2287	2310	2320	1419
45°	1908	1925	1940	1959	1969	1470
55°	1489	1506	1534	1557	1567	1330
65°	1023	1041	1077	1120	1137	1012
75°	518	550	630	705	732	552
85°	90	166	284	376	409	113
90°	1	62	168	252	282	4
95°	1	16	87	158	182	1
105°	1	2	14	42	56	1
115°	2	2	3	8	11	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°	2879.7	2879.7	2879.7	2879.7	2879.7
2.5°	2883.1	2879.1	2866.2	2879.1	2878.4
5°	2873.6	2868.2	2855.3	2868.9	2868.9
7.5°	2854.6	2852.6	2841.1	2856.7	2856.7
10°	2832.2	2831.6	2822.0	2839.0	2839.7
12.5°	2801.0	2803.7	2794.9	2811.2	2813.2
15°	2764.3	2769.1	2761.6	2777.2	2776.6
17.5°	2724.3	2727.0	2721.6	2739.2	2738.5
20°	2674.7	2678.1	2674.1	2692.4	2694.4
22.5°	2619.7	2624.5	2623.8	2642.8	2648.3
25°	2561.4	2563.4	2566.1	2587.8	2591.9
27.5°	2496.9	2500.3	2505.0	2524.7	2528.8
30°	2426.3	2431.7	2437.1	2457.5	2462.9
32.5°	2351.6	2357.0	2363.8	2390.3	2393.0
35°	2267.4	2277.6	2287.1	2310.2	2319.7
37.5°	2183.2	2196.1	2205.0	2229.4	2236.9
40°	2094.3	2107.2	2121.5	2147.3	2152.0
42.5°	2001.3	2016.2	2033.2	2056.3	2064.4
45°	1907.6	1924.6	1940.2	1959.2	1968.7
47.5°	1806.5	1823.4	1842.4	1864.2	1870.3
50°	1701.9	1721.6	1742.0	1762.3	1773.2
52.5°	1594.7	1618.4	1641.5	1663.2	1673.4
55°	1488.8	1506.4	1534.2	1556.6	1566.8
57.5°	1378.8	1393.7	1418.8	1455.5	1460.9
60°	1266.8	1280.3	1306.1	1336.0	1348.2
62.5°	1143.2	1161.5	1188.7	1226.7	1237.6
65°	1023.1	1040.7	1076.7	1119.5	1137.1
67.5°	907.0	913.1	959.2	1004.0	1032.6
70°	769.8	792.9	846.5	901.5	923.3
72.5°	651.7	674.8	733.9	798.3	825.5
75°	518.0	549.9	630.0	705.3	731.8
77.5°	400.5	435.8	534.9	611.0	641.5
80°	279.7	334.7	442.6	528.2	561.4
82.5°	175.8	243.7	359.1	448.7	477.9
85°	89.6	165.6	284.4	376.1	409.4
87.5°	23.8	107.3	221.3	308.9	342.8
90°	0.7	61.8	167.7	251.9	282.4
92.5°	0.7	34.6	124.9	200.3	231.5
95°	0.7	16.3	86.9	157.5	181.9
97.5°	0.7	6.8	59.7	118.8	143.2
100°	0.7	3.4	38.0	86.2	107.3
102.5°	1.4	2.0	23.8	61.8	78.7
105°	1.4	2.0	14.3	42.1	56.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	2.7	11.5	17.0
115°	2.0	2.0	2.7	7.5	10.9
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°	1.4	2.0	8.1	28.5	38.7
110°	2.0	2.0	4.8	17.7	25.8



(END OF REPORT)