

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: P580645

Luminaire Tested: **HVSL4-8-LD4-2LO-35-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580645
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: HVSL4-8-LD4-2LO-35-UNV-O-EDD-90
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

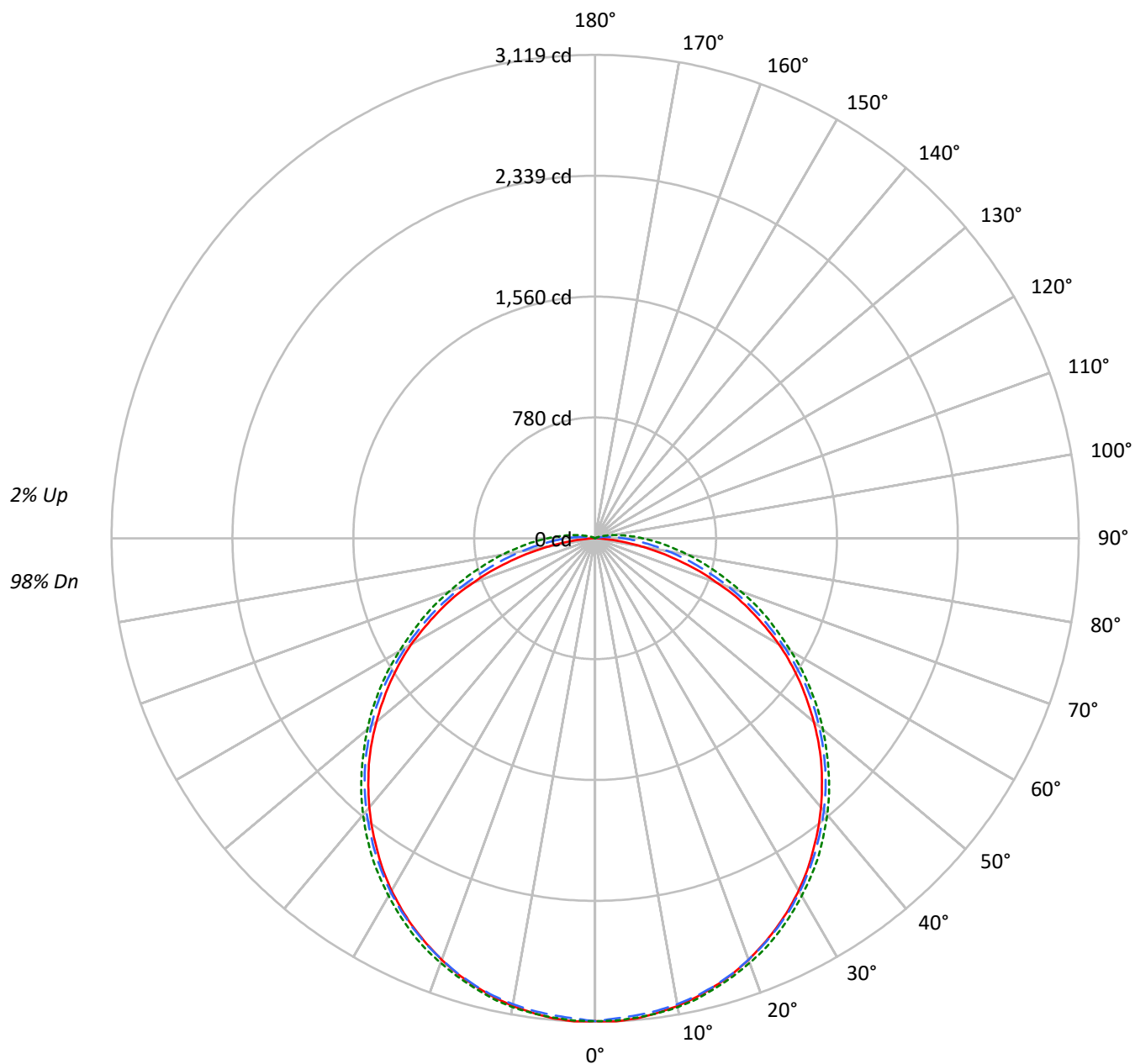
Lumens per Lamp: N/A
Luminaire Lumens: 9420.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 92.4
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12576	12576	12576
5°	12574	12126	12049
10°	12513	11751	11572
15°	12428	11364	11070
20°	12337	10958	10594
25°	12223	10552	10127
30°	12089	10134	9637
35°	11914	9693	9159
40°	11734	9238	8642
45°	11541	8757	8105
50°	11283	8224	7548
55°	11008	7655	6959
60°	10679	6964	6310
65°	10119	6215	5669
70°	9297	5372	4966
75°	8109	4476	4308
80°	6291	3604	3680
85°	3624	2735	3054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	3.1
10°-20°	845.7	9.0
20°-30°	1283.2	13.6
30°-40°	1551.6	16.5
40°-50°	1619.0	17.2
50°-60°	1480.2	15.7
60°-70°	1153.9	12.2
70°-80°	721.8	7.7
80°-90°	327.8	3.5
90°-100°	109.9	1.2
100°-110°	27.6	0.3
110°-120°	4.3	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°	2423.7	25.7
0°-40°	3975.3	42.2
0°-60°	7074.6	75.1
0°-90°	9278.2	98.5
90°-120°	141.8	1.5
90°-150°	141.8	1.5
90°-180°	142.0	1.5
0°-180°	9420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3116	3116	3116	3116	3116	
5°	3109	3103	3089	3104	3104	295
15°	2991	2996	2988	3005	3004	844
25°	2771	2773	2776	2800	2804	1277
35°	2453	2464	2474	2499	2510	1535
45°	2064	2082	2099	2120	2130	1590
55°	1611	1630	1660	1684	1695	1439
65°	1107	1126	1165	1211	1230	1095
75°	560	595	682	763	792	597
85°	97	179	308	407	443	123
90°	1	67	181	272	306	4
95°	1	18	94	170	197	1
105°	2	2	15	46	61	2
115°	2	2	3	8	12	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3115.6	3115.6	3115.6	3115.6	3115.6
2.5°	3119.2	3114.8	3100.9	3114.8	3114.1
5°	3109.0	3103.1	3089.1	3103.8	3103.8
7.5°	3088.4	3086.2	3073.7	3090.6	3090.6
10°	3064.2	3063.4	3053.1	3071.5	3072.2
12.5°	3030.4	3033.3	3023.8	3041.4	3043.6
15°	2990.7	2995.9	2987.8	3004.7	3003.9
17.5°	2947.4	2950.3	2944.4	2963.5	2962.8
20°	2893.8	2897.4	2893.0	2912.9	2915.1
22.5°	2834.3	2839.4	2838.7	2859.2	2865.1
25°	2771.1	2773.3	2776.2	2799.8	2804.2
27.5°	2701.3	2705.0	2710.1	2731.4	2735.9
30°	2624.9	2630.8	2636.7	2658.7	2664.6
32.5°	2544.2	2550.0	2557.4	2586.0	2589.0
35°	2453.1	2464.1	2474.4	2499.4	2509.6
37.5°	2362.0	2376.0	2385.5	2412.0	2420.0
40°	2265.8	2279.8	2295.2	2323.1	2328.2
42.5°	2165.2	2181.3	2199.7	2224.7	2233.5
45°	2063.8	2082.2	2099.1	2119.6	2129.9
47.5°	1954.4	1972.8	1993.3	2016.8	2023.4
50°	1841.3	1862.6	1884.6	1906.7	1918.4
52.5°	1725.2	1750.9	1775.9	1799.4	1810.4
55°	1610.7	1629.8	1659.9	1684.1	1695.1
57.5°	1491.7	1507.8	1535.0	1574.7	1580.6
60°	1370.5	1385.2	1413.1	1445.4	1458.6
62.5°	1236.8	1256.7	1286.0	1327.2	1338.9
65°	1106.8	1125.9	1164.8	1211.1	1230.2
67.5°	981.2	987.8	1037.8	1086.3	1117.1
70°	832.9	857.8	915.9	975.4	998.9
72.5°	705.1	730.1	793.9	863.7	893.1
75°	560.4	594.9	681.6	763.1	791.7
77.5°	433.3	471.5	578.8	661.0	694.1
80°	302.6	362.1	478.9	571.4	607.4
82.5°	190.2	263.7	388.5	485.5	517.1
85°	96.9	179.2	307.7	406.9	442.9
87.5°	25.7	116.0	239.4	334.2	370.9
90°	0.7	66.8	181.4	272.5	305.5
92.5°	0.7	37.5	135.1	216.7	250.4
95°	0.7	17.6	94.0	170.4	196.8
97.5°	0.7	7.3	64.6	128.5	155.0
100°	0.7	3.7	41.1	93.3	116.0
102.5°	1.5	2.2	25.7	66.8	85.2
105°	1.5	2.2	15.4	45.5	61.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	2.9	12.5	18.4
115°	2.2	2.2	2.9	8.1	11.8
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°	1.5	2.2	8.8	30.8	41.9
110°	2.2	2.2	5.1	19.1	27.9



(END OF REPORT)