

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: P580840

Luminaire Tested: **HVSL8-8-LD4-2LO-40-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580840  
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: HVSL8-8-LD4-2LO-40-UNV-O-EDD  
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

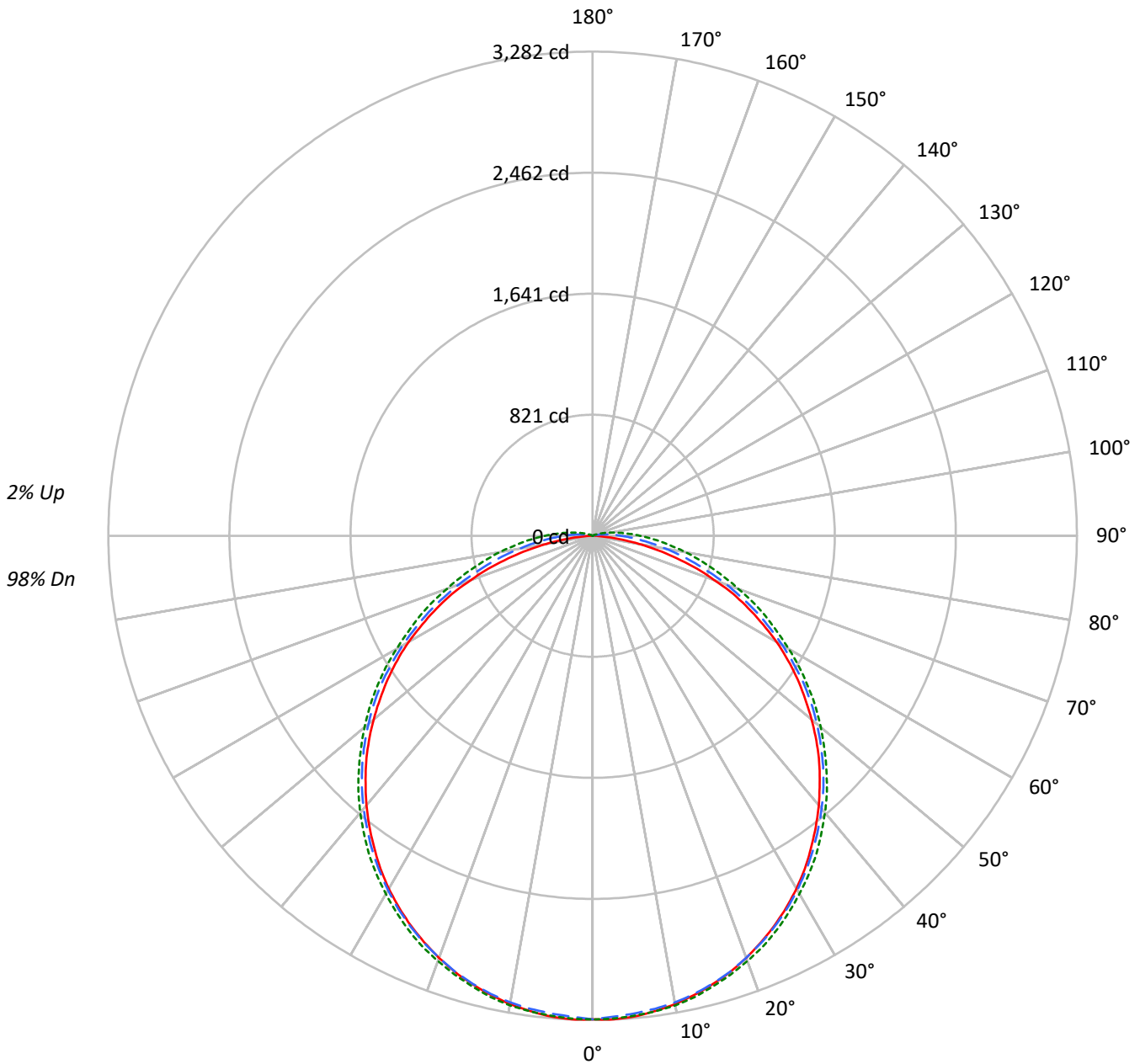
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9911.0 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 95.1  
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°	6616	6616	6616
5°	6615	6476	6474
10°	6583	6368	6345
15°	6538	6247	6189
20°	6490	6111	6038
25°	6430	5971	5884
30°	6360	5821	5709
35°	6267	5656	5536
40°	6173	5481	5334
45°	6071	5290	5117
50°	5935	5069	4882
55°	5790	4825	4624
60°	5617	4506	4323
65°	5323	4149	4023
70°	4891	3726	3676
75°	4266	3261	3360
80°	3310	2807	3072
85°	1908	2351	2797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.2	3.1
10°-20°	889.8	9.0
20°-30°	1350.1	13.6
30°-40°	1632.5	16.5
40°-50°	1703.4	17.2
50°-60°	1557.4	15.7
60°-70°	1214.1	12.2
70°-80°	759.5	7.7
80°-90°	344.9	3.5
90°-100°	115.6	1.2
100°-110°	29.0	0.3
110°-120°	4.6	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°	2550.1	25.7
0°-40°	4182.6	42.2
0°-60°	7443.3	75.1
0°-90°	9761.8	98.5
90°-120°	149.2	1.5
90°-150°	149.2	1.5
90°-180°	149.0	1.5
0°-180°	9911.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3278	3278	3278	3278	3278	
5°	3271	3265	3250	3266	3266	311
15°	3147	3152	3144	3161	3160	888
25°	2916	2918	2921	2946	2950	1343
35°	2581	2592	2603	2630	2640	1615
45°	2171	2191	2208	2230	2241	1673
55°	1695	1715	1746	1772	1784	1514
65°	1164	1185	1226	1274	1294	1152
75°	590	626	717	803	833	629
85°	102	188	324	428	466	129
90°	1	70	191	287	322	4
95°	1	18	99	179	207	1
105°	2	2	16	48	64	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	0



TEST NUMBER: P580840

CATALOG NUMBER: HVSL8-8-LD4-2LO-40-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3278.0	3278.0	3278.0	3278.0	3278.0
2.5°	3281.8	3277.2	3262.5	3277.2	3276.4
5°	3271.0	3264.8	3250.1	3265.6	3265.6
7.5°	3249.4	3247.1	3233.9	3251.7	3251.7
10°	3223.9	3223.1	3212.3	3231.6	3232.4
12.5°	3188.3	3191.4	3181.4	3199.9	3202.2
15°	3146.6	3152.0	3143.5	3161.3	3160.5
17.5°	3101.0	3104.1	3097.9	3118.0	3117.2
20°	3044.6	3048.5	3043.8	3064.7	3067.0
22.5°	2982.0	2987.4	2986.6	3008.3	3014.5
25°	2915.5	2917.9	2921.0	2945.7	2950.3
27.5°	2842.1	2846.0	2851.4	2873.8	2878.5
30°	2761.8	2768.0	2774.1	2797.3	2803.5
32.5°	2676.8	2683.0	2690.7	2720.8	2723.9
35°	2580.9	2592.5	2603.4	2629.6	2640.5
37.5°	2485.1	2499.8	2509.9	2537.7	2546.2
40°	2383.9	2398.6	2414.8	2444.2	2449.6
42.5°	2278.0	2295.0	2314.4	2340.6	2349.9
45°	2171.4	2190.7	2208.5	2230.1	2240.9
47.5°	2056.3	2075.6	2097.2	2121.9	2128.9
50°	1937.3	1959.7	1982.8	2006.0	2018.4
52.5°	1815.2	1842.2	1868.5	1893.2	1904.8
55°	1694.6	1714.7	1746.4	1771.9	1783.5
57.5°	1569.4	1586.4	1615.0	1656.8	1662.9
60°	1441.9	1457.4	1486.8	1520.8	1534.7
62.5°	1301.3	1322.2	1353.1	1396.3	1408.7
65°	1164.5	1184.6	1225.6	1274.2	1294.3
67.5°	1032.4	1039.3	1091.9	1142.9	1175.3
70°	876.3	902.6	963.6	1026.2	1050.9
72.5°	741.8	768.1	835.3	908.7	939.7
75°	589.6	625.9	717.1	802.9	833.0
77.5°	455.9	496.1	608.9	695.5	730.2
80°	318.4	381.0	503.8	601.2	639.1
82.5°	200.1	277.4	408.8	510.8	544.0
85°	102.0	188.5	323.8	428.1	466.0
87.5°	27.0	122.1	251.9	351.6	390.2
90°	0.8	70.3	190.9	286.7	321.5
92.5°	0.8	39.4	142.2	228.0	263.5
95°	0.8	18.5	98.9	179.3	207.1
97.5°	0.8	7.7	68.0	135.2	163.0
100°	0.8	3.9	43.3	98.1	122.1
102.5°	1.5	2.3	27.0	70.3	89.6
105°	1.5	2.3	16.2	47.9	64.1



TEST NUMBER: P580840

CATALOG NUMBER: HVSL8-8-LD4-2LO-40-UNV-O-EDD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	2.3	3.1	13.1	19.3
115°	2.3	2.3	3.1	8.5	12.4
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	2.3	9.3	32.5	44.0
110°	2.3	2.3	5.4	20.1	29.4



(END OF REPORT)