

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: P580830

Luminaire Tested: **HVSL8-8-LD4-2HI-35-UNV-O-EDD**

Issue Date: 12/16/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P580830  
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-LD4-2HI-35-UNV-O-EDD  
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3500K, 80 CRI LEDS  
Light Source: -  
Ballast/Driver: -

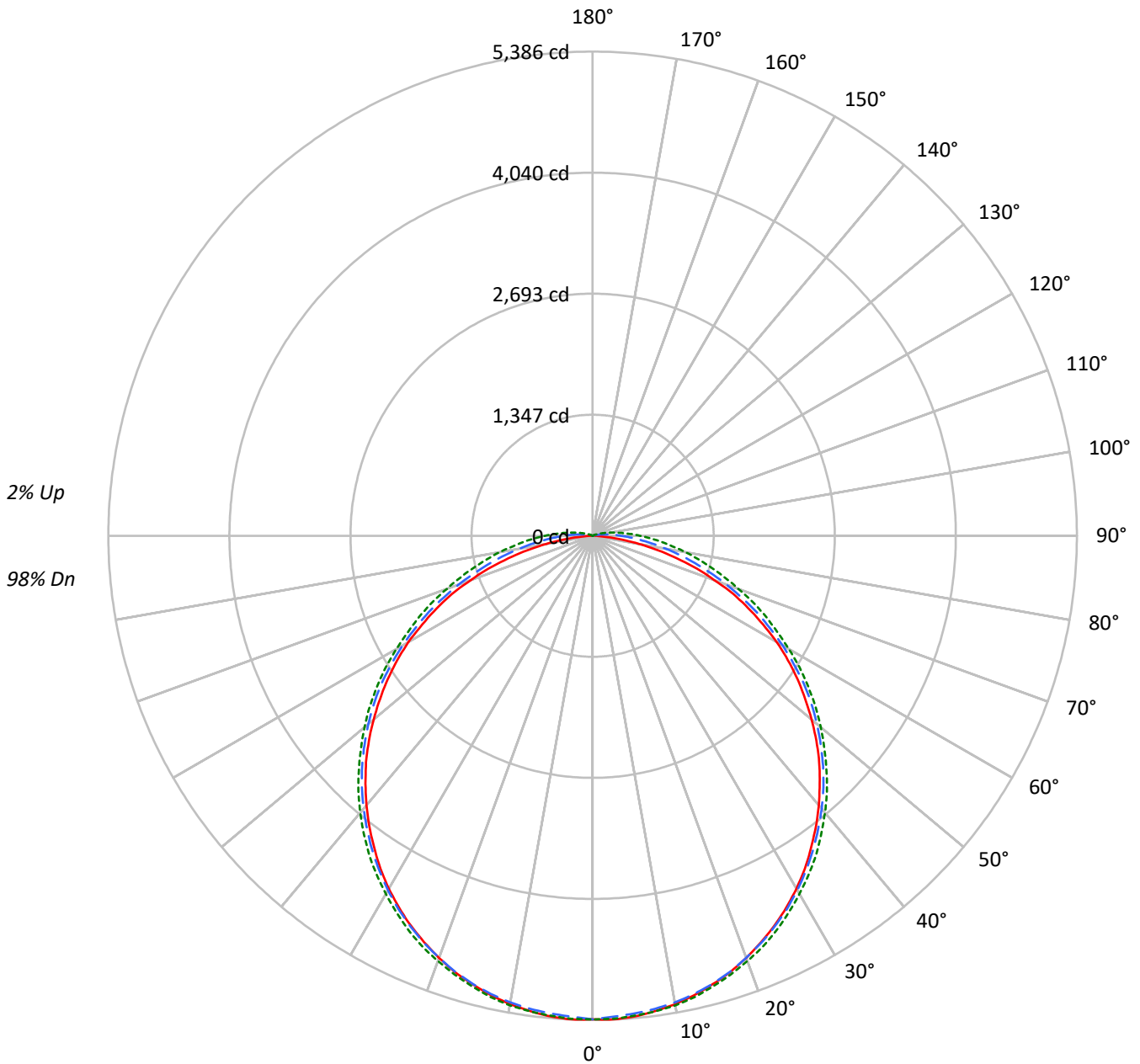
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16266.0 lumens  
Efficiency: N/A  
Efficacy: 91.6 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): 177.6  
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				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°	10858	10858	10858
5°	10856	10629	10626
10°	10804	10451	10413
15°	10730	10253	10157
20°	10651	10030	9909
25°	10553	9800	9657
30°	10437	9554	9370
35°	10286	9282	9086
40°	10131	8996	8755
45°	9964	8682	8398
50°	9741	8319	8013
55°	9503	7919	7589
60°	9220	7396	7094
65°	8737	6809	6604
70°	8027	6114	6033
75°	7002	5352	5514
80°	5431	4607	5041
85°	3131	3858	4590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.1	3.1
10°-20°	1460.3	9.0
20°-30°	2215.8	13.6
30°-40°	2679.3	16.5
40°-50°	2795.6	17.2
50°-60°	2556.0	15.7
60°-70°	1992.5	12.2
70°-80°	1246.4	7.7
80°-90°	566.1	3.5
90°-100°	189.7	1.2
100°-110°	47.6	0.3
110°-120°	7.5	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°	4185.2	25.7
0°-40°	6864.4	42.2
0°-60°	12216.1	75.1
0°-90°	16021.2	98.5
90°-120°	244.9	1.5
90°-150°	244.9	1.5
90°-180°	245.0	1.5
0°-180°	16266.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5380	5380	5380	5380	5380	
5°	5368	5358	5334	5360	5360	510
15°	5164	5173	5159	5188	5187	1458
25°	4785	4789	4794	4834	4842	2205
35°	4236	4255	4273	4316	4334	2651
45°	3564	3595	3625	3660	3678	2746
55°	2781	2814	2866	2908	2927	2485
65°	1911	1944	2011	2091	2124	1891
75°	968	1027	1177	1318	1367	1032
85°	167	309	531	703	765	212
90°	1	115	313	470	528	7
95°	1	30	162	294	340	1
105°	2	4	27	79	105	3
115°	4	4	5	14	20	2
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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CATALOG NUMBER: HVSL8-8-LD4-2HI-35-UNV-O-EDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5379.8	5379.8	5379.8	5379.8	5379.8
2.5°	5386.2	5378.5	5354.4	5378.5	5377.3
5°	5368.4	5358.3	5334.2	5359.5	5359.5
7.5°	5332.9	5329.1	5307.5	5336.7	5336.7
10°	5291.0	5289.8	5272.0	5303.7	5305.0
12.5°	5232.7	5237.8	5221.3	5251.7	5255.5
15°	5164.2	5173.1	5159.1	5188.3	5187.0
17.5°	5089.4	5094.5	5084.3	5117.3	5116.0
20°	4996.8	5003.1	4995.5	5029.8	5033.6
22.5°	4894.1	4903.0	4901.7	4937.2	4947.3
25°	4785.0	4788.8	4793.9	4834.5	4842.1
27.5°	4664.5	4670.9	4679.8	4716.5	4724.1
30°	4532.6	4542.8	4552.9	4591.0	4601.1
32.5°	4393.1	4403.3	4416.0	4465.4	4470.5
35°	4235.9	4254.9	4272.6	4315.8	4333.5
37.5°	4078.6	4102.7	4119.2	4164.9	4178.8
40°	3912.5	3936.6	3963.2	4011.4	4020.3
42.5°	3738.7	3766.6	3798.3	3841.5	3856.7
45°	3563.7	3595.4	3624.6	3660.1	3677.9
47.5°	3374.7	3406.5	3442.0	3482.5	3494.0
50°	3179.4	3216.2	3254.3	3292.3	3312.6
52.5°	2979.1	3023.4	3066.6	3107.2	3126.2
55°	2781.2	2814.2	2866.2	2908.0	2927.1
57.5°	2575.8	2603.7	2650.6	2719.1	2729.2
60°	2366.5	2391.9	2440.1	2495.9	2518.7
62.5°	2135.7	2169.9	2220.7	2291.7	2312.0
65°	1911.2	1944.2	2011.4	2091.3	2124.3
67.5°	1694.3	1705.8	1792.0	1875.7	1929.0
70°	1438.2	1481.3	1581.5	1684.2	1724.8
72.5°	1217.5	1260.6	1371.0	1491.4	1542.2
75°	967.7	1027.3	1176.9	1317.7	1367.1
77.5°	748.3	814.2	999.4	1141.4	1198.5
80°	522.5	625.2	826.9	986.7	1048.8
82.5°	328.5	455.3	670.9	838.3	892.8
85°	167.4	309.4	531.4	702.6	764.7
87.5°	44.4	200.4	413.4	577.0	640.5
90°	1.3	115.4	313.3	470.5	527.6
92.5°	1.3	64.7	233.4	374.1	432.5
95°	1.3	30.4	162.3	294.2	339.9
97.5°	1.3	12.7	111.6	221.9	267.6
100°	1.3	6.3	71.0	161.1	200.4
102.5°	2.5	3.8	44.4	115.4	147.1
105°	2.5	3.8	26.6	78.6	105.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3.8	3.8	5.1	21.6	31.7
115°	3.8	3.8	5.1	14.0	20.3
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°	2.5	3.8	15.2	53.3	72.3
110°	3.8	3.8	8.9	33.0	48.2



(END OF REPORT)