

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: P580834

Luminaire Tested: **HVSL8-8-LD4-2HI-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580834
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-50-UNV-O-EDD
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

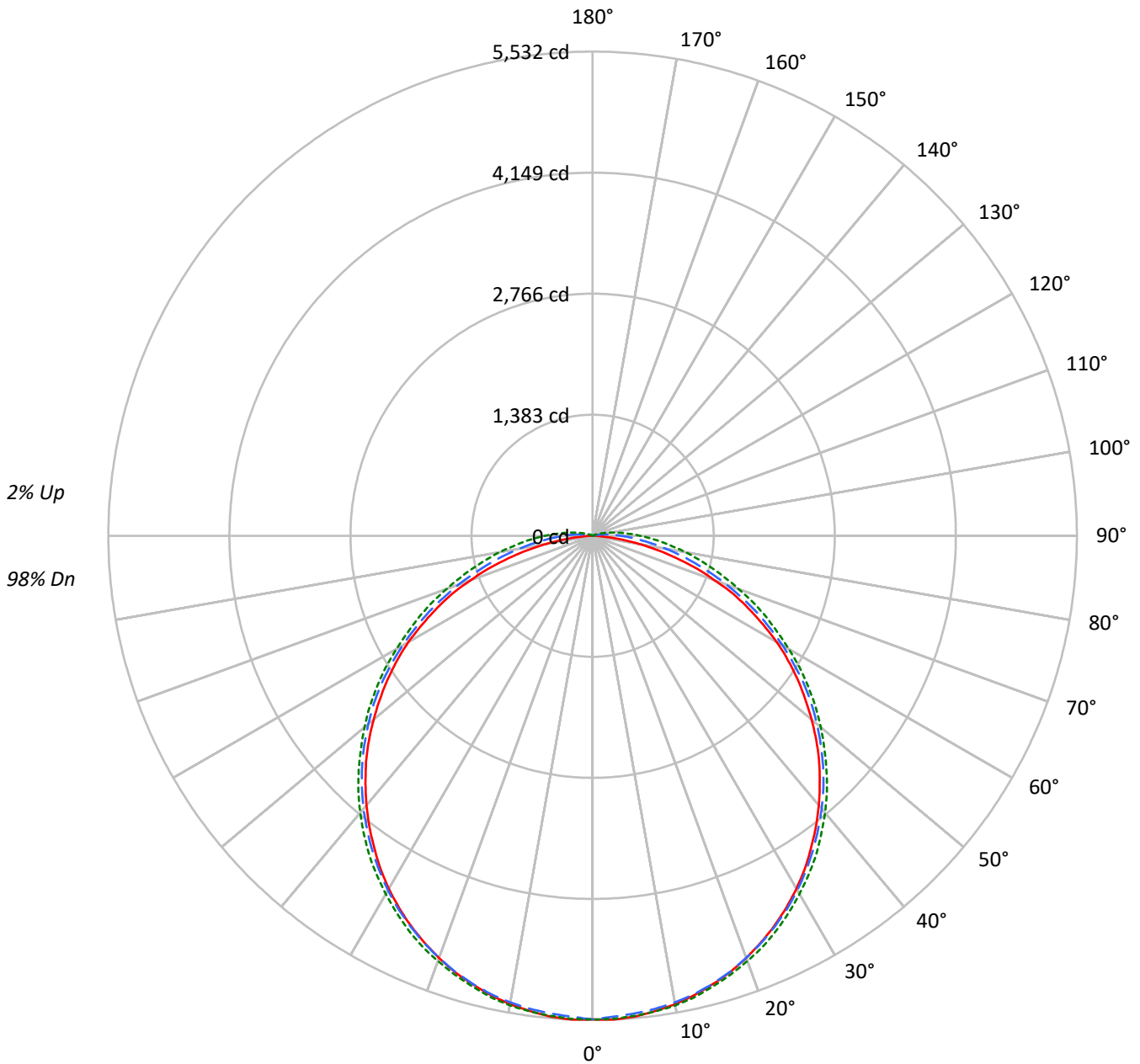
Lumens per Lamp: N/A
Luminaire Lumens: 16708.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P580834

CATALOG NUMBER: HVSL8-8-LD4-2HI-50-UNV-O-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P580834

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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°	11153	11153	11153
5°	11151	10917	10914
10°	11097	10735	10696
15°	11022	10532	10433
20°	10941	10303	10178
25°	10840	10066	9919
30°	10721	9813	9625
35°	10566	9534	9333
40°	10406	9240	8993
45°	10235	8918	8626
50°	10006	8545	8231
55°	9762	8134	7795
60°	9470	7597	7287
65°	8974	6994	6783
70°	8245	6281	6197
75°	7191	5497	5664
80°	5579	4732	5178
85°	3217	3963	4715



TEST NUMBER: P580834

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.9	3.1
10°-20°	1500.0	9.0
20°-30°	2276.0	13.6
30°-40°	2752.1	16.5
40°-50°	2871.6	17.2
50°-60°	2625.5	15.7
60°-70°	2046.7	12.2
70°-80°	1280.3	7.7
80°-90°	581.5	3.5
90°-100°	194.9	1.2
100°-110°	48.9	0.3
110°-120°	7.7	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°	4298.9	25.7
0°-40°	7051.0	42.2
0°-60°	12548.0	75.1
0°-90°	16456.5	98.5
90°-120°	251.5	1.5
90°-150°	251.5	1.5
90°-180°	252.0	1.5
0°-180°	16708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5526	5526	5526	5526	5526	
5°	5514	5504	5479	5505	5505	524
15°	5304	5314	5299	5329	5328	1497
25°	4915	4919	4924	4966	4974	2265
35°	4351	4370	4389	4433	4451	2723
45°	3660	3693	3723	3760	3778	2821
55°	2857	2891	2944	2987	3007	2552
65°	1963	1997	2066	2148	2182	1942
75°	994	1055	1209	1354	1404	1060
85°	172	318	546	722	786	218
90°	1	118	322	483	542	7
95°	1	31	167	302	349	1
105°	3	4	27	81	108	3
115°	4	4	5	14	21	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



TEST NUMBER: P580834

CATALOG NUMBER: HVSL8-8-LD4-2HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5526.0	5526.0	5526.0	5526.0	5526.0
2.5°	5532.5	5524.7	5499.9	5524.7	5523.4
5°	5514.3	5503.9	5479.1	5505.2	5505.2
7.5°	5477.8	5473.9	5451.7	5481.7	5481.7
10°	5434.8	5433.5	5415.3	5447.8	5449.1
12.5°	5374.9	5380.1	5363.2	5394.4	5398.3
15°	5304.5	5313.7	5299.3	5329.3	5328.0
17.5°	5227.7	5232.9	5222.5	5256.3	5255.0
20°	5132.6	5139.1	5131.3	5166.5	5170.4
22.5°	5027.1	5036.2	5034.9	5071.4	5081.8
25°	4915.0	4918.9	4924.2	4965.8	4973.7
27.5°	4791.3	4797.8	4806.9	4844.7	4852.5
30°	4655.8	4666.2	4676.6	4715.7	4726.1
32.5°	4512.5	4522.9	4536.0	4586.8	4592.0
35°	4351.0	4370.5	4388.8	4433.0	4451.3
37.5°	4189.4	4214.2	4231.1	4278.0	4292.4
40°	4018.8	4043.5	4070.9	4120.4	4129.5
42.5°	3840.3	3869.0	3901.5	3945.8	3961.5
45°	3660.5	3693.1	3723.1	3759.6	3777.8
47.5°	3466.4	3499.0	3535.5	3577.2	3588.9
50°	3265.8	3303.6	3342.7	3381.8	3402.6
52.5°	3060.0	3105.6	3149.9	3191.6	3211.1
55°	2856.8	2890.7	2944.1	2987.1	3006.6
57.5°	2645.8	2674.4	2722.6	2793.0	2803.4
60°	2430.8	2456.9	2506.4	2563.7	2587.1
62.5°	2193.7	2228.9	2281.0	2354.0	2374.8
65°	1963.1	1997.0	2066.1	2148.1	2182.0
67.5°	1740.4	1752.1	1840.7	1926.7	1981.4
70°	1477.2	1521.5	1624.5	1730.0	1771.7
72.5°	1250.6	1294.9	1408.2	1532.0	1584.1
75°	993.9	1055.2	1208.9	1353.5	1404.3
77.5°	768.6	836.3	1026.5	1172.4	1231.0
80°	536.7	642.2	849.4	1013.5	1077.3
82.5°	337.4	467.7	689.1	861.1	917.1
85°	172.0	317.9	545.8	721.7	785.5
87.5°	45.6	205.8	424.7	592.7	657.9
90°	1.3	118.5	321.8	483.3	541.9
92.5°	1.3	66.4	239.7	384.3	444.2
95°	1.3	31.3	166.7	302.2	349.1
97.5°	1.3	13.0	114.6	228.0	274.9
100°	1.3	6.5	73.0	165.4	205.8
102.5°	2.6	3.9	45.6	118.5	151.1
105°	2.6	3.9	27.4	80.8	108.1



TEST NUMBER: P580834

CATALOG NUMBER: HVSL8-8-LD4-2HI-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.9	3.9	5.2	22.1	32.6
115°	3.9	3.9	5.2	14.3	20.8
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°	2.6	3.9	15.6	54.7	74.3
110°	3.9	3.9	9.1	33.9	49.5



(END OF REPORT)