

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: P580639

Luminaire Tested: **HVSL4-8-LD4-2HI-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580639
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-LD4-2HI-40-UNV-O-EDD-90
Description: 8 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

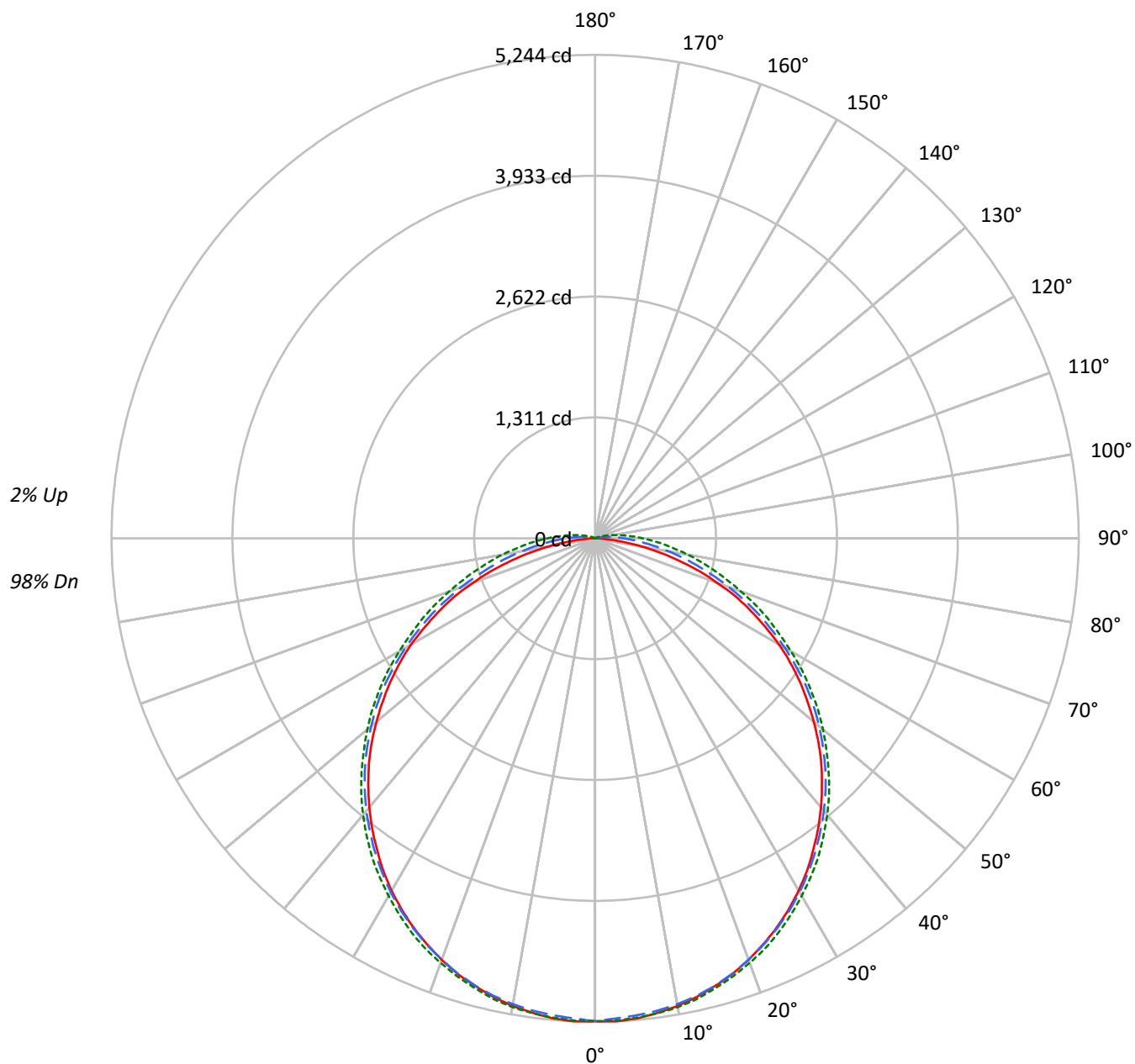
Lumens per Lamp: N/A
Luminaire Lumens: 15838.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 172.4
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

TEST NUMBER: P580639

CATALOG NUMBER: HVSL4-8-LD4-2HI-40-UNV-O-EDD-90

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	50	30	10
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°	21144	21144	21144
5°	21141	20388	20258
10°	21039	19757	19456
15°	20896	19106	18612
20°	20742	18424	17811
25°	20551	17742	17027
30°	20326	17039	16203
35°	20031	16297	15400
40°	19728	15533	14529
45°	19403	14723	13627
50°	18969	13827	12691
55°	18506	12870	11700
60°	17954	11710	10609
65°	17013	10450	9532
70°	15631	9032	8349
75°	13634	7526	7243
80°	10577	6058	6188
85°	6097	4599	5135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.7	3.1
10°-20°	1421.9	9.0
20°-30°	2157.5	13.6
30°-40°	2608.8	16.5
40°-50°	2722.0	17.2
50°-60°	2488.7	15.7
60°-70°	1940.1	12.2
70°-80°	1213.6	7.7
80°-90°	551.2	3.5
90°-100°	184.7	1.2
100°-110°	46.4	0.3
110°-120°	7.3	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°	4075.1	25.7
0°-40°	6683.8	42.2
0°-60°	11894.6	75.1
0°-90°	15599.5	98.5
90°-120°	238.4	1.5
90°-150°	238.4	1.5
90°-180°	238.0	1.5
0°-180°	15838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5238	5238	5238	5238	5238	
5°	5227	5217	5194	5218	5218	496
15°	5028	5037	5023	5052	5051	1419
25°	4659	4663	4668	4707	4715	2147
35°	4124	4143	4160	4202	4220	2581
45°	3470	3501	3529	3564	3581	2674
55°	2708	2740	2791	2832	2850	2419
65°	1861	1893	1958	2036	2068	1841
75°	942	1000	1146	1283	1331	1004
85°	163	301	517	684	745	206
90°	1	112	305	458	514	6
95°	1	30	158	286	331	1
105°	2	4	26	77	102	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	



TEST NUMBER: P580639

CATALOG NUMBER: HVSL4-8-LD4-2HI-40-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5238.3	5238.3	5238.3	5238.3	5238.3
2.5°	5244.4	5237.0	5213.6	5237.0	5235.8
5°	5227.1	5217.3	5193.8	5218.5	5218.5
7.5°	5192.6	5188.9	5167.9	5196.3	5196.3
10°	5151.8	5150.6	5133.3	5164.2	5165.4
12.5°	5095.0	5099.9	5083.9	5113.5	5117.2
15°	5028.3	5037.0	5023.4	5051.8	5050.6
17.5°	4955.5	4960.4	4950.5	4982.6	4981.4
20°	4865.3	4871.5	4864.1	4897.4	4901.1
22.5°	4765.3	4773.9	4772.7	4807.3	4817.2
25°	4659.1	4662.8	4667.8	4707.3	4714.7
27.5°	4541.8	4548.0	4556.6	4592.4	4599.8
30°	4413.4	4423.2	4433.1	4470.2	4480.1
32.5°	4277.5	4287.4	4299.8	4347.9	4352.9
35°	4124.4	4142.9	4160.2	4202.2	4219.5
37.5°	3971.3	3994.8	4010.8	4055.3	4068.8
40°	3809.5	3833.0	3858.9	3905.8	3914.5
42.5°	3640.4	3667.5	3698.4	3740.4	3755.2
45°	3469.9	3500.8	3529.2	3563.8	3581.1
47.5°	3285.9	3316.8	3351.4	3390.9	3402.0
50°	3095.8	3131.6	3168.6	3205.7	3225.4
52.5°	2900.7	2943.9	2985.9	3025.4	3043.9
55°	2708.0	2740.1	2790.8	2831.5	2850.0
57.5°	2508.0	2535.2	2580.8	2647.5	2657.4
60°	2304.2	2328.9	2375.9	2430.2	2452.4
62.5°	2079.5	2112.8	2162.2	2231.4	2251.1
65°	1860.9	1893.0	1958.5	2036.3	2068.4
67.5°	1649.8	1660.9	1744.8	1826.4	1878.2
70°	1400.3	1442.3	1539.9	1639.9	1679.4
72.5°	1185.5	1227.4	1334.9	1452.2	1501.6
75°	942.2	1000.2	1145.9	1283.0	1331.2
77.5°	728.6	792.8	973.1	1111.4	1166.9
80°	508.8	608.8	805.1	960.7	1021.2
82.5°	319.8	443.3	653.2	816.2	869.3
85°	163.0	301.3	517.4	684.1	744.6
87.5°	43.2	195.1	402.6	561.9	623.6
90°	1.2	112.4	305.0	458.1	513.7
92.5°	1.2	63.0	227.2	364.3	421.1
95°	1.2	29.6	158.1	286.5	330.9
97.5°	1.2	12.3	108.7	216.1	260.6
100°	1.2	6.2	69.2	156.8	195.1
102.5°	2.5	3.7	43.2	112.4	143.2
105°	2.5	3.7	25.9	76.6	102.5



TEST NUMBER: P580639

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	3.7	4.9	21.0	30.9
115°	3.7	3.7	4.9	13.6	19.8
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°	2.5	3.7	14.8	51.9	70.4
110°	3.7	3.7	8.6	32.1	46.9



(END OF REPORT)