

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: P580696

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580696
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: HVSL8-2-LD4-2LO-40-UNV-O-EDD
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

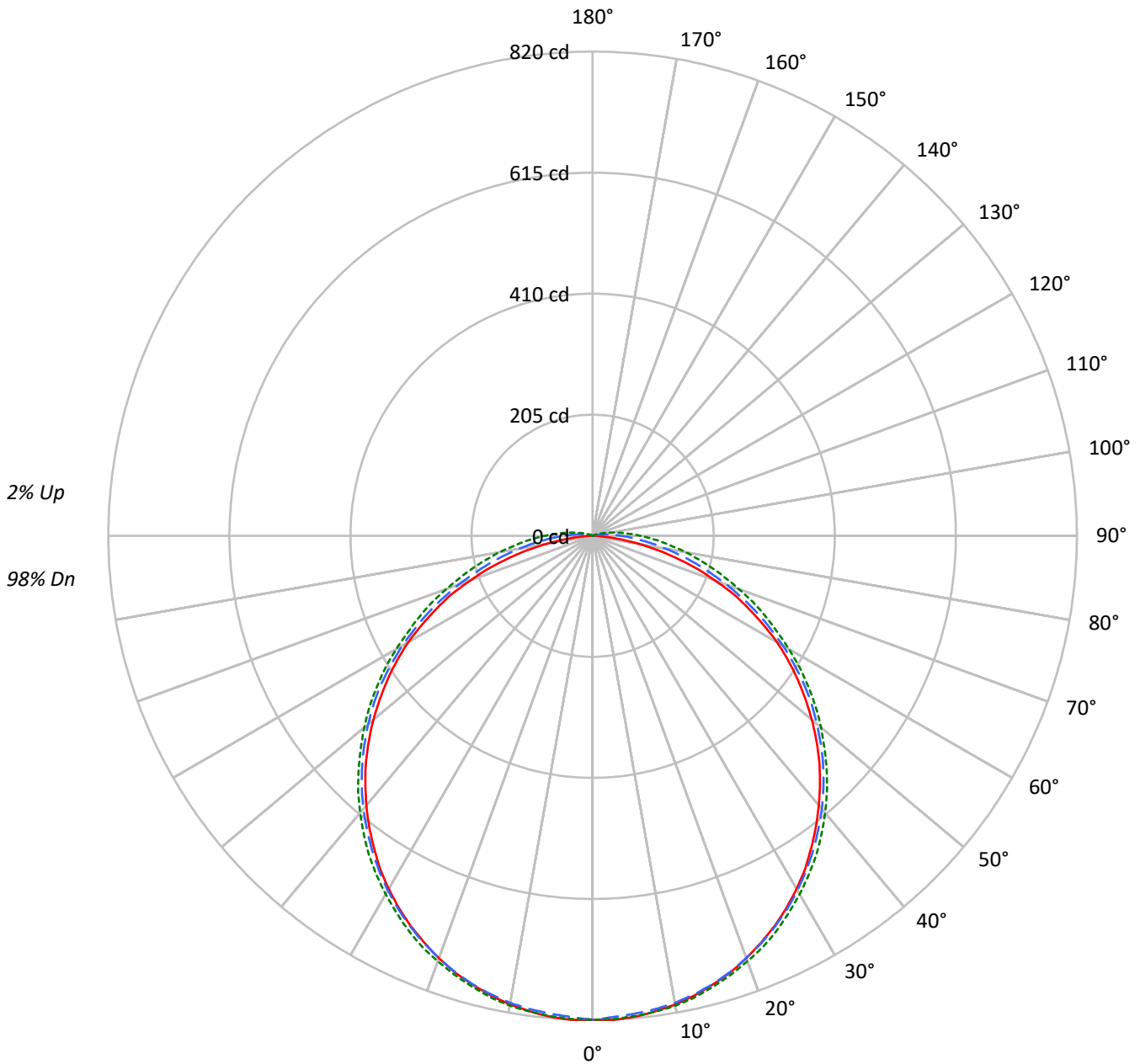
Lumens per Lamp: N/A
Luminaire Lumens: 2478.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 23.8
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°	6617	6617	6617
5°	6579	6452	6475
10°	6511	6321	6345
15°	6431	6179	6190
20°	6347	6021	6038
25°	6251	5861	5885
30°	6141	5691	5709
35°	6009	5506	5537
40°	5870	5312	5335
45°	5721	5102	5117
50°	5534	4861	4882
55°	5329	4597	4624
60°	5086	4261	4323
65°	4719	3888	4024
70°	4208	3451	3677
75°	3507	2975	3361
80°	2513	2507	3072
85°	1210	2031	2797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.1
10°-20°	222.5	9.0
20°-30°	337.6	13.6
30°-40°	408.2	16.5
40°-50°	425.9	17.2
50°-60°	389.4	15.7
60°-70°	303.6	12.2
70°-80°	189.9	7.7
80°-90°	86.2	3.5
90°-100°	28.9	1.2
100°-110°	7.3	0.3
110°-120°	1.2	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°	637.6	25.7
0°-40°	1045.7	42.2
0°-60°	1861.0	75.1
0°-90°	2440.7	98.5
90°-120°	37.3	1.5
90°-150°	37.3	1.5
90°-180°	37.0	1.5
0°-180°	2478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	818	816	813	816	816	78
15°	787	788	786	790	790	222
25°	729	730	730	736	738	336
35°	645	648	651	658	660	404
45°	543	548	552	558	560	418
55°	424	429	437	443	446	379
65°	291	296	306	319	324	288
75°	147	156	179	201	208	157
85°	26	47	81	107	116	32
90°	0	18	48	72	80	1
95°	0	5	25	45	52	0
105°	0	1	4	12	16	0
115°	1	1	1	2	3	0
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	819.6	819.6	819.6	819.6	819.6
2.5°	820.5	819.4	815.7	819.4	819.2
5°	817.8	816.3	812.6	816.5	816.5
7.5°	812.4	811.8	808.6	813.0	813.0
10°	806.0	805.9	803.2	808.0	808.2
12.5°	797.2	797.9	795.4	800.1	800.6
15°	786.7	788.1	786.0	790.4	790.2
17.5°	775.3	776.1	774.6	779.6	779.4
20°	761.2	762.2	761.0	766.2	766.8
22.5°	745.6	746.9	746.7	752.1	753.7
25°	729.0	729.5	730.3	736.5	737.7
27.5°	710.6	711.6	712.9	718.5	719.7
30°	690.5	692.1	693.6	699.4	700.9
32.5°	669.3	670.8	672.7	680.3	681.0
35°	645.3	648.2	650.9	657.5	660.2
37.5°	621.3	625.0	627.5	634.5	636.6
40°	596.0	599.7	603.8	611.1	612.5
42.5°	569.6	573.8	578.6	585.2	587.5
45°	542.9	547.7	552.2	557.6	560.3
47.5°	514.1	518.9	524.4	530.5	532.3
50°	484.4	490.0	495.8	501.6	504.6
52.5°	453.8	460.6	467.2	473.4	476.2
55°	423.7	428.7	436.6	443.0	445.9
57.5°	392.4	396.6	403.8	414.2	415.8
60°	360.5	364.4	371.7	380.2	383.7
62.5°	325.4	330.6	338.3	349.1	352.2
65°	291.2	296.2	306.4	318.6	323.6
67.5°	258.1	259.9	273.0	285.7	293.9
70°	219.1	225.7	240.9	256.6	262.8
72.5°	185.5	192.0	208.9	227.2	234.9
75°	147.4	156.5	179.3	200.7	208.3
77.5°	114.0	124.0	152.2	173.9	182.6
80°	79.6	95.2	126.0	150.3	159.8
82.5°	50.0	69.4	102.2	127.7	136.0
85°	25.5	47.1	81.0	107.0	116.5
87.5°	6.8	30.5	63.0	87.9	97.6
90°	0.2	17.6	47.7	71.7	80.4
92.5°	0.2	9.9	35.5	57.0	65.9
95°	0.2	4.6	24.7	44.8	51.8
97.5°	0.2	1.9	17.0	33.8	40.8
100°	0.2	1.0	10.8	24.5	30.5
102.5°	0.4	0.6	6.8	17.6	22.4
105°	0.4	0.6	4.1	12.0	16.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.3	4.8
115°	0.6	0.6	0.8	2.1	3.1
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°	0.4	0.6	2.3	8.1	11.0
110°	0.6	0.6	1.4	5.0	7.3



(END OF REPORT)