

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: P580343

Luminaire Tested: **HVSL2-2-LD4-STD-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580343
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: HVSL2-2-LD4-STD-40-UNV-O-EDD-90
Description: 2 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

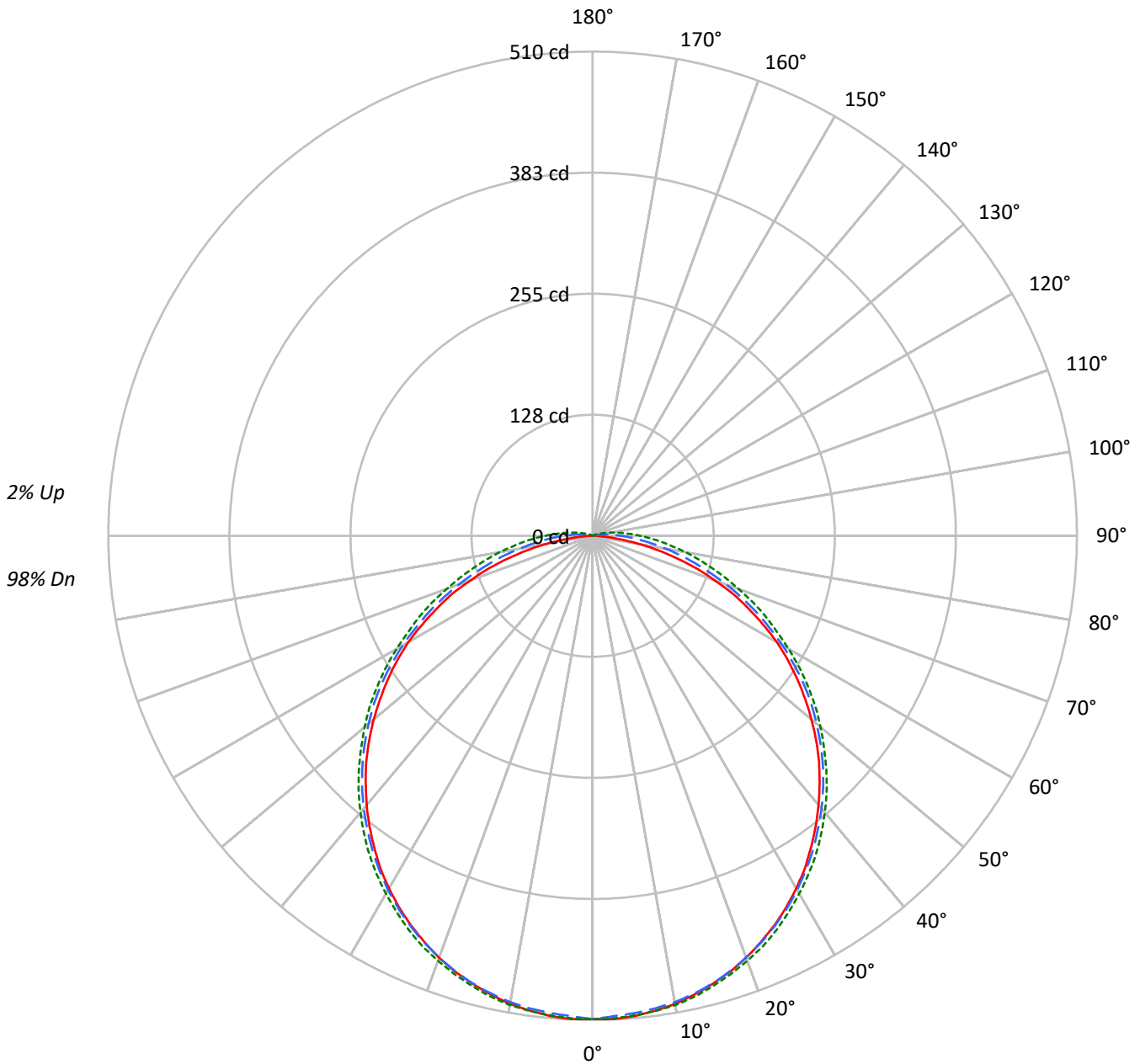
Lumens per Lamp: N/A
Luminaire Lumens: 1539.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.4
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

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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°	16436	16436	16436
5°	16344	15332	15115
10°	16177	14409	13990
15°	15977	13538	12940
20°	15769	12702	11999
25°	15526	11907	11131
30°	15258	11137	10289
35°	14929	10373	9505
40°	14585	9622	8718
45°	14214	8866	7945
50°	13746	8085	7183
55°	13237	7291	6419
60°	12636	6408	5633
65°	11720	5501	4883
70°	10456	4549	4111
75°	8717	3601	3411
80°	6238	2721	2765
85°	2998	1910	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	3.1
10°-20°	138.2	9.0
20°-30°	209.6	13.6
30°-40°	253.5	16.5
40°-50°	264.5	17.2
50°-60°	241.8	15.7
60°-70°	188.5	12.2
70°-80°	117.9	7.7
80°-90°	53.6	3.5
90°-100°	18.0	1.2
100°-110°	4.5	0.3
110°-120°	0.7	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°	396.0	25.7
0°-40°	649.5	42.2
0°-60°	1155.8	75.1
0°-90°	1515.9	98.5
90°-120°	23.2	1.5
90°-150°	23.2	1.5
90°-180°	23.0	1.5
0°-180°	1539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	508	507	505	507	507	48
15°	489	489	488	491	491	138
25°	453	453	454	457	458	209
35°	401	403	404	408	410	251
45°	337	340	343	346	348	260
55°	263	266	271	275	277	235
65°	181	184	190	198	201	179
75°	92	97	111	125	129	98
85°	16	29	50	66	72	20
90°	0	11	30	44	50	1
95°	0	3	15	28	32	0
105°	0	0	2	7	10	0
115°	0	0	0	1	2	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	509.0	509.0	509.0	509.0	509.0
2.5°	509.6	508.9	506.6	508.9	508.8
5°	507.9	507.0	504.7	507.1	507.1
7.5°	504.6	504.2	502.2	504.9	504.9
10°	500.6	500.5	498.8	501.8	501.9
12.5°	495.1	495.6	494.0	496.9	497.2
15°	488.6	489.4	488.1	490.9	490.8
17.5°	481.5	482.0	481.0	484.2	484.0
20°	472.8	473.4	472.7	475.9	476.3
22.5°	463.1	463.9	463.8	467.1	468.1
25°	452.7	453.1	453.6	457.4	458.1
27.5°	441.3	441.9	442.8	446.3	447.0
30°	428.9	429.8	430.8	434.4	435.3
32.5°	415.7	416.6	417.8	422.5	423.0
35°	400.8	402.6	404.3	408.3	410.0
37.5°	385.9	388.2	389.7	394.1	395.4
40°	370.2	372.5	375.0	379.5	380.4
42.5°	353.7	356.4	359.4	363.5	364.9
45°	337.2	340.2	342.9	346.3	348.0
47.5°	319.3	322.3	325.7	329.5	330.6
50°	300.8	304.3	307.9	311.5	313.4
52.5°	281.9	286.1	290.1	294.0	295.8
55°	263.1	266.3	271.2	275.1	276.9
57.5°	243.7	246.3	250.8	257.3	258.2
60°	223.9	226.3	230.9	236.1	238.3
62.5°	202.1	205.3	210.1	216.8	218.7
65°	180.8	183.9	190.3	197.9	201.0
67.5°	160.3	161.4	169.5	177.5	182.5
70°	136.1	140.2	149.6	159.4	163.2
72.5°	115.2	119.3	129.7	141.1	145.9
75°	91.6	97.2	111.4	124.7	129.4
77.5°	70.8	77.0	94.6	108.0	113.4
80°	49.4	59.2	78.2	93.4	99.2
82.5°	31.1	43.1	63.5	79.3	84.5
85°	15.8	29.3	50.3	66.5	72.4
87.5°	4.2	19.0	39.1	54.6	60.6
90°	0.1	10.9	29.6	44.5	49.9
92.5°	0.1	6.1	22.1	35.4	40.9
95°	0.1	2.9	15.4	27.8	32.2
97.5°	0.1	1.2	10.6	21.0	25.3
100°	0.1	0.6	6.7	15.2	19.0
102.5°	0.2	0.4	4.2	10.9	13.9
105°	0.2	0.4	2.5	7.4	10.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.5	2.0	3.0
115°	0.4	0.4	0.5	1.3	1.9
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°	0.2	0.4	1.4	5.0	6.8
110°	0.4	0.4	0.8	3.1	4.6



(END OF REPORT)