

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: P580682

Luminaire Tested: **HVSL8-2-LD4-1STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580682
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-LD4-1STD-50-UNV-O-EDD
Description: 2 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

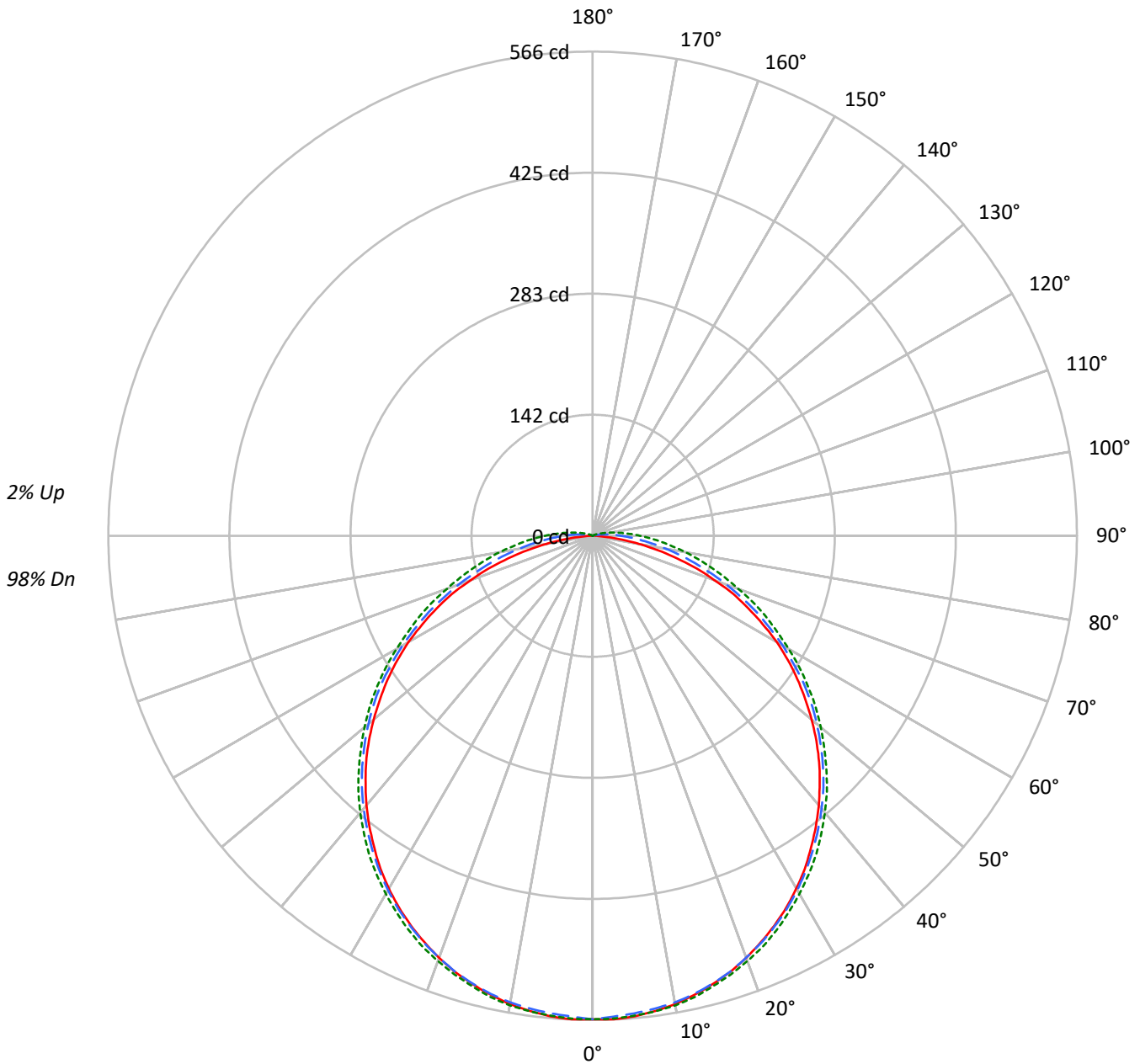
Lumens per Lamp: N/A
Luminaire Lumens: 1709.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 16.8
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°	4563	4563	4563
5°	4537	4450	4466
10°	4491	4359	4376
15°	4436	4261	4269
20°	4377	4153	4165
25°	4310	4042	4058
30°	4235	3925	3938
35°	4144	3797	3819
40°	4049	3664	3679
45°	3946	3518	3529
50°	3817	3352	3367
55°	3675	3170	3189
60°	3507	2940	2981
65°	3254	2681	2775
70°	2902	2381	2535
75°	2420	2053	2317
80°	1733	1729	2119
85°	835	1399	1928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	3.1
10°-20°	153.4	9.0
20°-30°	232.8	13.6
30°-40°	281.5	16.5
40°-50°	293.7	17.2
50°-60°	268.6	15.7
60°-70°	209.4	12.2
70°-80°	130.9	7.7
80°-90°	59.5	3.5
90°-100°	19.9	1.2
100°-110°	5.0	0.3
110°-120°	0.8	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°	439.7	25.7
0°-40°	721.2	42.2
0°-60°	1283.5	75.1
0°-90°	1683.3	98.5
90°-120°	25.7	1.5
90°-150°	25.7	1.5
90°-180°	26.0	1.5
0°-180°	1709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	565	565	565	565	565	
5°	564	563	560	563	563	54
15°	543	544	542	545	545	153
25°	503	503	504	508	509	232
35°	445	447	449	453	455	279
45°	374	378	381	385	386	289
55°	292	296	301	306	308	261
65°	201	204	211	220	223	199
75°	102	108	124	138	144	108
85°	18	32	56	74	80	22
90°	0	12	33	49	55	1
95°	0	3	17	31	36	0
105°	0	0	3	8	11	0
115°	0	0	0	2	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°	565.2	565.2	565.2	565.2	565.2
2.5°	565.9	565.1	562.6	565.1	565.0
5°	564.0	563.0	560.4	563.1	563.1
7.5°	560.3	559.9	557.6	560.7	560.7
10°	555.9	555.8	553.9	557.2	557.4
12.5°	549.8	550.3	548.6	551.8	552.2
15°	542.6	543.5	542.0	545.1	545.0
17.5°	534.7	535.3	534.2	537.7	537.5
20°	525.0	525.7	524.9	528.5	528.9
22.5°	514.2	515.1	515.0	518.7	519.8
25°	502.7	503.1	503.7	507.9	508.7
27.5°	490.1	490.7	491.7	495.5	496.3
30°	476.2	477.3	478.4	482.4	483.4
32.5°	461.6	462.6	464.0	469.2	469.7
35°	445.0	447.0	448.9	453.4	455.3
37.5°	428.5	431.1	432.8	437.6	439.0
40°	411.1	413.6	416.4	421.5	422.4
42.5°	392.8	395.7	399.1	403.6	405.2
45°	374.4	377.8	380.8	384.6	386.4
47.5°	354.6	357.9	361.6	365.9	367.1
50°	334.1	337.9	341.9	345.9	348.0
52.5°	313.0	317.7	322.2	326.5	328.5
55°	292.2	295.7	301.1	305.5	307.5
57.5°	270.6	273.6	278.5	285.7	286.7
60°	248.6	251.3	256.4	262.2	264.6
62.5°	224.4	228.0	233.3	240.8	242.9
65°	200.8	204.3	211.3	219.7	223.2
67.5°	178.0	179.2	188.3	197.1	202.7
70°	151.1	155.6	166.2	177.0	181.2
72.5°	127.9	132.4	144.0	156.7	162.0
75°	101.7	107.9	123.7	138.4	143.6
77.5°	78.6	85.5	105.0	119.9	125.9
80°	54.9	65.7	86.9	103.7	110.2
82.5°	34.5	47.8	70.5	88.1	93.8
85°	17.6	32.5	55.8	73.8	80.3
87.5°	4.7	21.1	43.4	60.6	67.3
90°	0.1	12.1	32.9	49.4	55.4
92.5°	0.1	6.8	24.5	39.3	45.4
95°	0.1	3.2	17.1	30.9	35.7
97.5°	0.1	1.3	11.7	23.3	28.1
100°	0.1	0.7	7.5	16.9	21.1
102.5°	0.3	0.4	4.7	12.1	15.5
105°	0.3	0.4	2.8	8.3	11.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.5	2.3	3.3
115°	0.4	0.4	0.5	1.5	2.1
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°	0.3	0.4	1.6	5.6	7.6
110°	0.4	0.4	0.9	3.5	5.1



(END OF REPORT)