

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: P580129

Luminaire Tested: **HVSL12-2-LD4-1STD-50-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580129
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: HVSL12-2-LD4-1STD-50-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

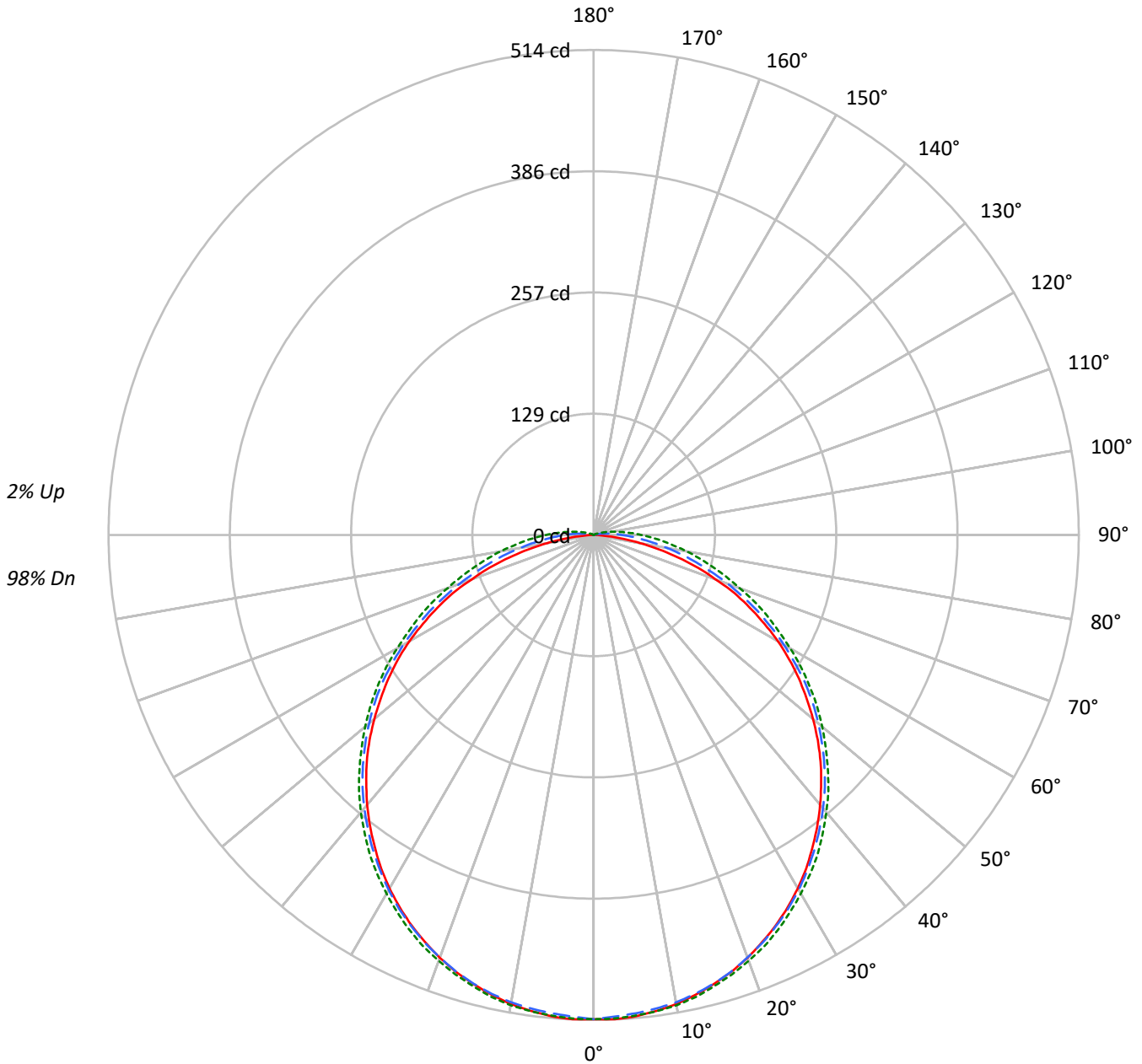
Lumens per Lamp: N/A
Luminaire Lumens: 1552.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 17.3
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°	2763	2763	2763
5°	2747	2708	2723
10°	2719	2666	2687
15°	2685	2619	2640
20°	2650	2565	2593
25°	2610	2509	2546
30°	2564	2450	2489
35°	2509	2384	2433
40°	2451	2313	2364
45°	2389	2237	2289
50°	2311	2147	2208
55°	2225	2049	2117
60°	2124	1918	2007
65°	1971	1772	1902
70°	1757	1598	1776
75°	1464	1407	1672
80°	1050	1221	1595
85°	506	1036	1552



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	3.1
10°-20°	139.3	9.0
20°-30°	211.4	13.6
30°-40°	255.6	16.5
40°-50°	266.7	17.2
50°-60°	243.9	15.7
60°-70°	190.1	12.3
70°-80°	118.9	7.7
80°-90°	54.0	3.5
90°-100°	18.1	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°	399.3	25.7
0°-40°	655.0	42.2
0°-60°	1165.6	75.1
0°-90°	1528.6	98.5
90°-120°	23.4	1.5
90°-150°	23.4	1.5
90°-180°	23.0	1.5
0°-180°	1552.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	512	511	509	511	511	49
15°	493	494	492	495	495	139
25°	457	457	457	461	462	210
35°	404	406	408	412	414	253
45°	340	343	346	349	351	262
55°	265	268	274	278	279	237
65°	182	186	192	200	203	180
75°	92	98	112	126	130	98
85°	16	30	51	67	73	20
90°	0	11	30	45	50	1
95°	0	3	16	28	32	0
105°	0	0	2	8	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°	513.3	513.3	513.3	513.3	513.3
2.5°	513.9	513.2	510.9	513.2	513.1
5°	512.2	511.3	509.0	511.4	511.4
7.5°	508.8	508.5	506.4	509.2	509.2
10°	504.8	504.7	503.0	506.0	506.2
12.5°	499.3	499.8	498.2	501.1	501.4
15°	492.7	493.6	492.3	495.0	494.9
17.5°	485.6	486.1	485.1	488.3	488.1
20°	476.8	477.4	476.6	479.9	480.3
22.5°	467.0	467.8	467.7	471.1	472.0
25°	456.6	456.9	457.4	461.3	462.0
27.5°	445.1	445.7	446.5	450.0	450.7
30°	432.5	433.4	434.4	438.0	439.0
32.5°	419.2	420.1	421.3	426.1	426.5
35°	404.2	406.0	407.7	411.8	413.5
37.5°	389.2	391.5	393.0	397.4	398.7
40°	373.3	375.6	378.1	382.7	383.6
42.5°	356.7	359.4	362.4	366.5	368.0
45°	340.0	343.1	345.8	349.2	350.9
47.5°	322.0	325.0	328.4	332.3	333.4
50°	303.4	306.9	310.5	314.1	316.1
52.5°	284.2	288.5	292.6	296.5	298.3
55°	265.4	268.5	273.5	277.5	279.3
57.5°	245.8	248.4	252.9	259.4	260.4
60°	225.8	228.2	232.8	238.1	240.3
62.5°	203.8	207.0	211.9	218.7	220.6
65°	182.4	185.5	191.9	199.5	202.7
67.5°	161.7	162.8	171.0	179.0	184.1
70°	137.2	141.3	150.9	160.7	164.6
72.5°	116.2	120.3	130.8	142.3	147.1
75°	92.3	98.0	112.3	125.7	130.4
77.5°	71.4	77.7	95.4	108.9	114.4
80°	49.9	59.7	78.9	94.1	100.1
82.5°	31.3	43.4	64.0	80.0	85.2
85°	16.0	29.5	50.7	67.0	73.0
87.5°	4.2	19.1	39.4	55.1	61.1
90°	0.1	11.0	29.9	44.9	50.3
92.5°	0.1	6.2	22.3	35.7	41.3
95°	0.1	2.9	15.5	28.1	32.4
97.5°	0.1	1.2	10.6	21.2	25.5
100°	0.1	0.6	6.8	15.4	19.1
102.5°	0.2	0.4	4.2	11.0	14.0
105°	0.2	0.4	2.5	7.5	10.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.5	2.1	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	1.5	5.1	6.9
110°	0.4	0.4	0.8	3.1	4.6



(END OF REPORT)