

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: P580124

Luminaire Tested: **HVSL12-2-LD4-1STD-30-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580124
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-30-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

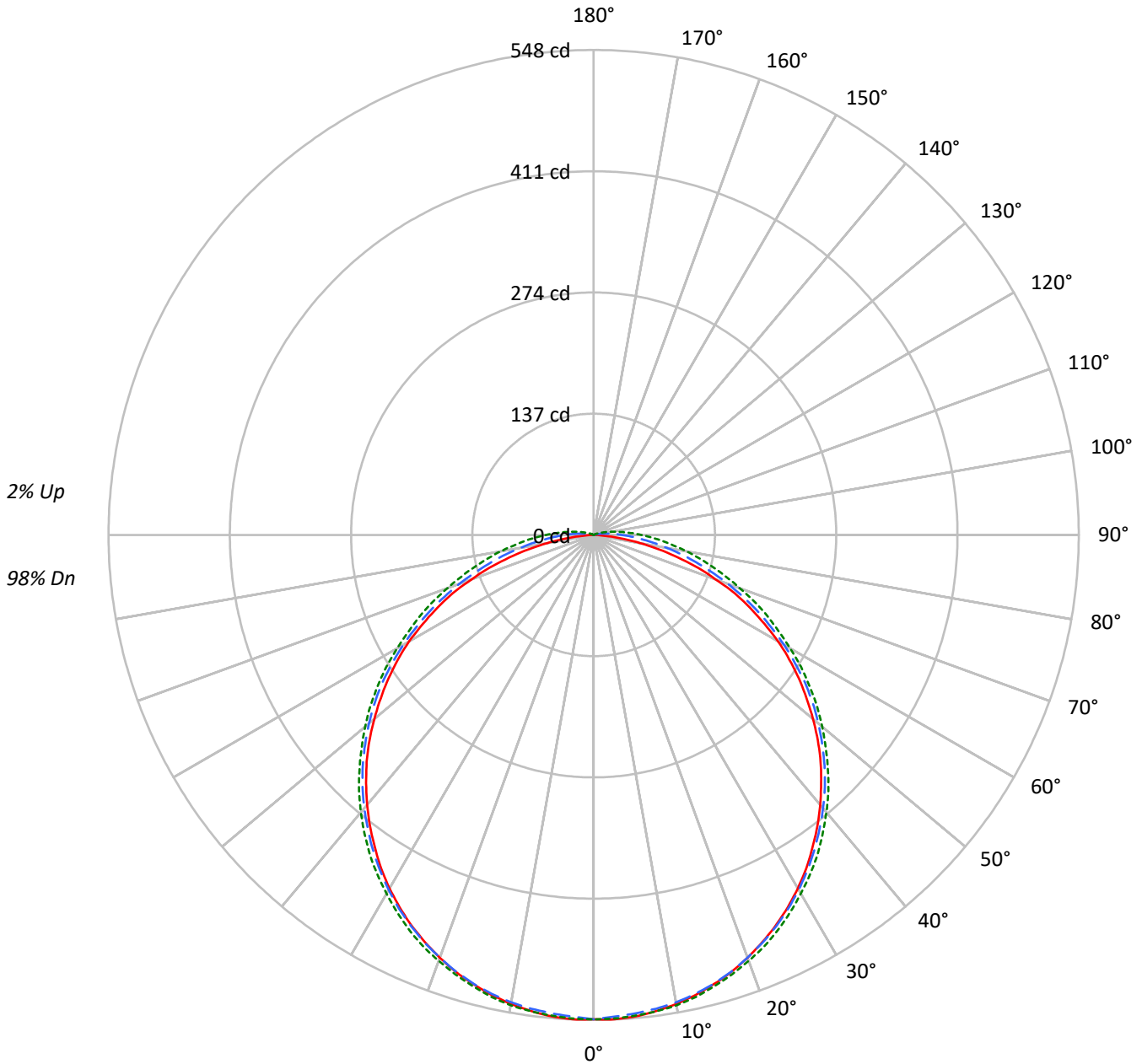
Lumens per Lamp: N/A
Luminaire Lumens: 1655.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

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°	2946	2946	2946
5°	2929	2887	2904
10°	2899	2843	2866
15°	2863	2792	2815
20°	2826	2735	2765
25°	2783	2676	2715
30°	2735	2612	2654
35°	2676	2541	2594
40°	2614	2467	2521
45°	2548	2385	2441
50°	2464	2290	2354
55°	2373	2185	2257
60°	2265	2046	2141
65°	2101	1890	2027
70°	1873	1704	1894
75°	1562	1500	1783
80°	1120	1301	1700
85°	538	1106	1654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	3.1
10°-20°	148.6	9.0
20°-30°	225.4	13.6
30°-40°	272.6	16.5
40°-50°	284.4	17.2
50°-60°	260.1	15.7
60°-70°	202.7	12.3
70°-80°	126.8	7.7
80°-90°	57.6	3.5
90°-100°	19.3	1.2
100°-110°	4.8	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°	425.8	25.7
0°-40°	698.4	42.2
0°-60°	1242.9	75.1
0°-90°	1630.1	98.5
90°-120°	24.9	1.5
90°-150°	24.9	1.5
90°-180°	25.0	1.5
0°-180°	1655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	543	545	545	52
15°	525	526	525	528	528	148
25°	487	487	488	492	493	224
35°	431	433	435	439	441	270
45°	363	366	369	372	374	279
55°	283	286	292	296	298	253
65°	194	198	205	213	216	192
75°	98	104	120	134	139	105
85°	17	32	54	72	78	22
90°	0	12	32	48	54	1
95°	0	3	16	30	35	0
105°	0	0	3	8	11	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	547.4	547.4	547.4	547.4	547.4
2.5°	548.0	547.2	544.8	547.2	547.1
5°	546.2	545.2	542.7	545.3	545.3
7.5°	542.6	542.2	540.0	543.0	543.0
10°	538.3	538.2	536.4	539.6	539.8
12.5°	532.4	532.9	531.2	534.3	534.7
15°	525.4	526.3	524.9	527.9	527.8
17.5°	517.8	518.3	517.3	520.7	520.5
20°	508.4	509.1	508.3	511.8	512.1
22.5°	498.0	498.9	498.7	502.3	503.4
25°	486.9	487.2	487.8	491.9	492.7
27.5°	474.6	475.2	476.1	479.9	480.7
30°	461.2	462.2	463.2	467.1	468.1
32.5°	447.0	448.0	449.3	454.3	454.9
35°	431.0	432.9	434.7	439.1	440.9
37.5°	415.0	417.4	419.1	423.8	425.2
40°	398.1	400.5	403.2	408.1	409.0
42.5°	380.4	383.2	386.5	390.9	392.4
45°	362.6	365.8	368.8	372.4	374.2
47.5°	343.4	346.6	350.2	354.3	355.5
50°	323.5	327.2	331.1	335.0	337.0
52.5°	303.1	307.6	312.0	316.1	318.1
55°	283.0	286.3	291.6	295.9	297.8
57.5°	262.1	264.9	269.7	276.7	277.7
60°	240.8	243.4	248.3	253.9	256.3
62.5°	217.3	220.8	225.9	233.2	235.2
65°	194.5	197.8	204.7	212.8	216.1
67.5°	172.4	173.6	182.3	190.8	196.3
70°	146.3	150.7	160.9	171.4	175.5
72.5°	123.9	128.3	139.5	151.7	156.9
75°	98.5	104.5	119.7	134.1	139.1
77.5°	76.1	82.8	101.7	116.1	121.9
80°	53.2	63.6	84.1	100.4	106.7
82.5°	33.4	46.3	68.3	85.3	90.8
85°	17.0	31.5	54.1	71.5	77.8
87.5°	4.5	20.4	42.1	58.7	65.2
90°	0.1	11.7	31.9	47.9	53.7
92.5°	0.1	6.6	23.7	38.1	44.0
95°	0.1	3.1	16.5	29.9	34.6
97.5°	0.1	1.3	11.4	22.6	27.2
100°	0.1	0.6	7.2	16.4	20.4
102.5°	0.3	0.4	4.5	11.7	15.0
105°	0.3	0.4	2.7	8.0	10.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	0.4	0.5	2.2	3.2
115°	0.4	0.4	0.5	1.4	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	1.5	5.4	7.4
110°	0.4	0.4	0.9	3.4	4.9



(END OF REPORT)