

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: P580146

Luminaire Tested: **HVSL12-2-LD4-2LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580146
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-LD4-2LO-50-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

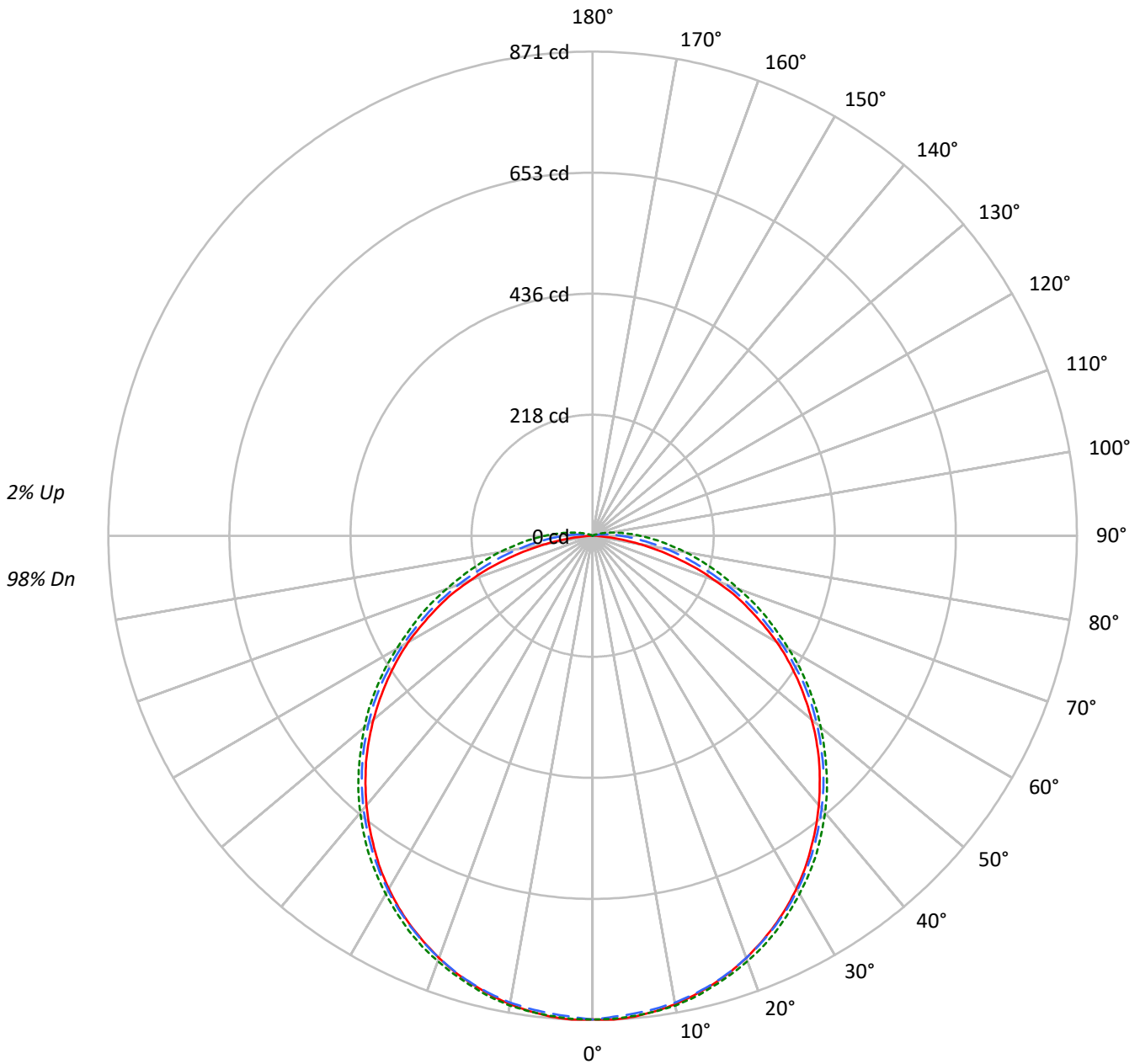
Lumens per Lamp: N/A
Luminaire Lumens: 2631.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 24.4
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									
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°	4683	4683	4683
5°	4657	4590	4616
10°	4609	4519	4556
15°	4552	4439	4475
20°	4493	4348	4396
25°	4424	4254	4315
30°	4347	4152	4219
35°	4253	4040	4124
40°	4155	3922	4008
45°	4050	3792	3881
50°	3917	3640	3743
55°	3772	3473	3588
60°	3601	3252	3403
65°	3339	3004	3223
70°	2978	2709	3011
75°	2482	2385	2834
80°	1778	2069	2702
85°	857	1758	2629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	3.1
10°-20°	236.2	9.0
20°-30°	358.4	13.6
30°-40°	433.4	16.5
40°-50°	452.2	17.2
50°-60°	413.4	15.7
60°-70°	322.3	12.3
70°-80°	201.6	7.7
80°-90°	91.6	3.5
90°-100°	30.7	1.2
100°-110°	7.7	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°	676.9	25.7
0°-40°	1110.3	42.2
0°-60°	1975.9	75.1
0°-90°	2591.4	98.5
90°-120°	39.6	1.5
90°-150°	39.6	1.5
90°-180°	40.0	1.5
0°-180°	2631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	868	867	863	867	867	82
15°	835	837	834	839	839	236
25°	774	775	775	782	783	357
35°	685	688	691	698	701	429
45°	576	582	586	592	595	444
55°	450	455	464	470	473	402
65°	309	314	325	338	344	306
75°	156	166	190	213	221	167
85°	27	50	86	114	124	34
90°	0	19	51	76	85	1
95°	0	5	26	48	55	0
105°	0	1	4	13	17	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°	870.2	870.2	870.2	870.2	870.2
2.5°	871.2	870.0	866.1	870.0	869.8
5°	868.3	866.7	862.8	866.9	866.9
7.5°	862.6	862.0	858.5	863.2	863.2
10°	855.8	855.6	852.7	857.9	858.1
12.5°	846.4	847.2	844.5	849.5	850.1
15°	835.3	836.7	834.5	839.2	839.0
17.5°	823.2	824.0	822.4	827.7	827.5
20°	808.2	809.3	808.0	813.6	814.2
22.5°	791.6	793.0	792.8	798.6	800.2
25°	774.0	774.6	775.4	782.0	783.2
27.5°	754.5	755.5	756.9	762.9	764.1
30°	733.1	734.8	736.4	742.6	744.2
32.5°	710.6	712.2	714.3	722.3	723.1
35°	685.1	688.2	691.1	698.1	700.9
37.5°	659.7	663.6	666.3	673.7	675.9
40°	632.8	636.7	641.0	648.8	650.3
42.5°	604.7	609.2	614.4	621.3	623.8
45°	576.4	581.6	586.3	592.0	594.9
47.5°	545.9	551.0	556.7	563.3	565.1
50°	514.3	520.2	526.4	532.5	535.8
52.5°	481.9	489.0	496.0	502.6	505.7
55°	449.9	455.2	463.6	470.4	473.4
57.5°	416.6	421.1	428.7	439.8	441.4
60°	382.8	386.9	394.7	403.7	407.4
62.5°	345.4	351.0	359.2	370.7	374.0
65°	309.1	314.5	325.3	338.3	343.6
67.5°	274.1	275.9	289.9	303.4	312.0
70°	232.6	239.6	255.8	272.4	279.0
72.5°	196.9	203.9	221.7	241.2	249.4
75°	156.5	166.2	190.4	213.1	221.1
77.5°	121.0	131.7	161.6	184.6	193.9
80°	84.5	101.1	133.7	159.6	169.6
82.5°	53.1	73.6	108.5	135.6	144.4
85°	27.1	50.1	86.0	113.6	123.7
87.5°	7.2	32.4	66.9	93.3	103.6
90°	0.2	18.7	50.7	76.1	85.3
92.5°	0.2	10.5	37.7	60.5	70.0
95°	0.2	4.9	26.3	47.6	55.0
97.5°	0.2	2.1	18.1	35.9	43.3
100°	0.2	1.0	11.5	26.1	32.4
102.5°	0.4	0.6	7.2	18.7	23.8
105°	0.4	0.6	4.3	12.7	17.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.6	0.8	3.5	5.1
115°	0.6	0.6	0.8	2.3	3.3
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	2.5	8.6	11.7
110°	0.6	0.6	1.4	5.3	7.8



(END OF REPORT)