

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: P580154

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580154
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-LD4-2STD-50-UNV-O-EDD
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

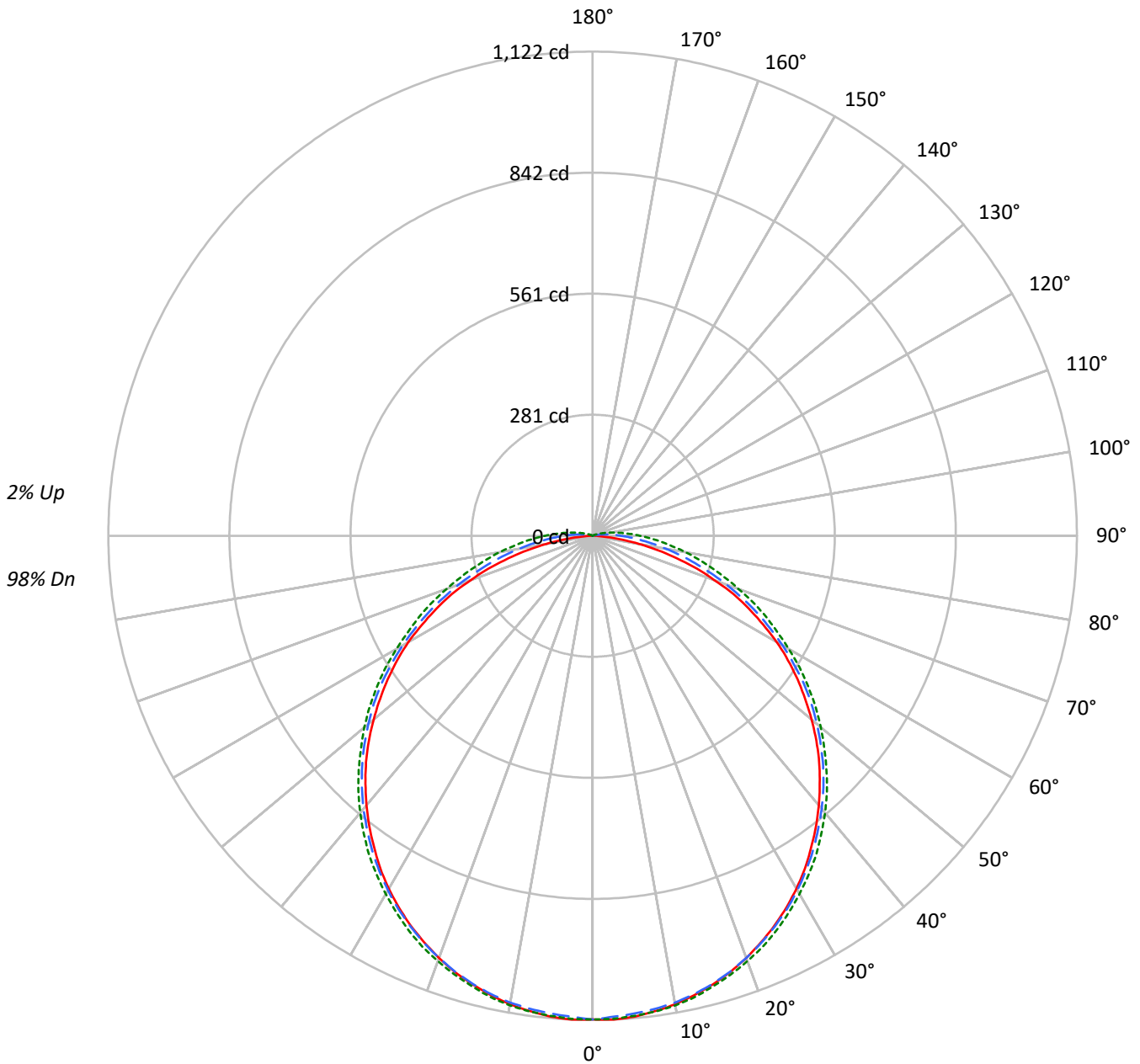
Lumens per Lamp: N/A
Luminaire Lumens: 3389.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.6
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°	6033	6033	6033
5°	5999	5913	5946
10°	5937	5821	5868
15°	5864	5718	5764
20°	5787	5601	5663
25°	5699	5479	5559
30°	5600	5349	5434
35°	5478	5204	5312
40°	5353	5052	5163
45°	5217	4884	4999
50°	5045	4689	4821
55°	4859	4474	4622
60°	4638	4189	4383
65°	4302	3870	4152
70°	3836	3490	3879
75°	3197	3072	3651
80°	2292	2666	3481
85°	1104	2263	3386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.1
10°-20°	304.3	9.0
20°-30°	461.7	13.6
30°-40°	558.2	16.5
40°-50°	582.5	17.2
50°-60°	532.5	15.7
60°-70°	415.2	12.3
70°-80°	259.7	7.7
80°-90°	117.9	3.5
90°-100°	39.5	1.2
100°-110°	9.9	0.3
110°-120°	1.6	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°	872.0	25.7
0°-40°	1430.2	42.2
0°-60°	2545.2	75.1
0°-90°	3338.0	98.5
90°-120°	51.0	1.5
90°-150°	51.0	1.5
90°-180°	51.0	1.5
0°-180°	3389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1118	1116	1111	1117	1117	106
15°	1076	1078	1075	1081	1081	304
25°	997	998	999	1007	1009	459
35°	882	886	890	899	903	552
45°	742	749	755	763	766	572
55°	580	586	597	606	610	518
65°	398	405	419	436	443	394
75°	202	214	245	274	285	215
85°	35	64	111	146	159	44
90°	0	24	65	98	110	1
95°	0	6	34	61	71	0
105°	0	1	6	16	22	1
115°	1	1	1	3	4	1
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°	1120.9	1120.9	1120.9	1120.9	1120.9
2.5°	1122.2	1120.6	1115.6	1120.6	1120.3
5°	1118.5	1116.4	1111.4	1116.6	1116.6
7.5°	1111.1	1110.3	1105.8	1111.9	1111.9
10°	1102.4	1102.1	1098.4	1105.0	1105.3
12.5°	1090.2	1091.3	1087.8	1094.2	1095.0
15°	1076.0	1077.8	1074.9	1081.0	1080.7
17.5°	1060.4	1061.4	1059.3	1066.2	1065.9
20°	1041.1	1042.4	1040.8	1047.9	1048.7
22.5°	1019.7	1021.5	1021.3	1028.7	1030.8
25°	997.0	997.7	998.8	1007.3	1008.8
27.5°	971.8	973.2	975.0	982.7	984.3
30°	944.4	946.5	948.6	956.5	958.6
32.5°	915.3	917.4	920.1	930.4	931.4
35°	882.5	886.5	890.2	899.2	902.9
37.5°	849.8	854.8	858.2	867.7	870.6
40°	815.2	820.2	825.7	835.8	837.6
42.5°	779.0	784.8	791.4	800.4	803.5
45°	742.5	749.1	755.2	762.6	766.3
47.5°	703.1	709.7	717.1	725.6	728.0
50°	662.4	670.1	678.0	685.9	690.2
52.5°	620.7	629.9	638.9	647.4	651.3
55°	579.5	586.3	597.2	605.9	609.8
57.5°	536.7	542.5	552.2	566.5	568.6
60°	493.1	498.3	508.4	520.0	524.8
62.5°	445.0	452.1	462.7	477.5	481.7
65°	398.2	405.1	419.1	435.7	442.6
67.5°	353.0	355.4	373.4	390.8	401.9
70°	299.6	308.6	329.5	350.9	359.4
72.5°	253.7	262.6	285.6	310.7	321.3
75°	201.6	214.0	245.2	274.5	284.8
77.5°	155.9	169.6	208.2	237.8	249.7
80°	108.9	130.3	172.3	205.6	218.5
82.5°	68.4	94.9	139.8	174.7	186.0
85°	34.9	64.5	110.7	146.4	159.3
87.5°	9.2	41.7	86.1	120.2	133.4
90°	0.3	24.0	65.3	98.0	109.9
92.5°	0.3	13.5	48.6	77.9	90.1
95°	0.3	6.3	33.8	61.3	70.8
97.5°	0.3	2.6	23.3	46.2	55.8
100°	0.3	1.3	14.8	33.6	41.7
102.5°	0.5	0.8	9.2	24.0	30.7
105°	0.5	0.8	5.5	16.4	21.9



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CATALOG NUMBER: HVSL12-2-LD4-2STD-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.5	6.6
115°	0.8	0.8	1.1	2.9	4.2
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°	0.5	0.8	3.2	11.1	15.1
110°	0.8	0.8	1.8	6.9	10.0



(END OF REPORT)