

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: P580202

Luminaire Tested: **HVSL12-4-LD4-1STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580202
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: HVSL12-4-LD4-1STD-50-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

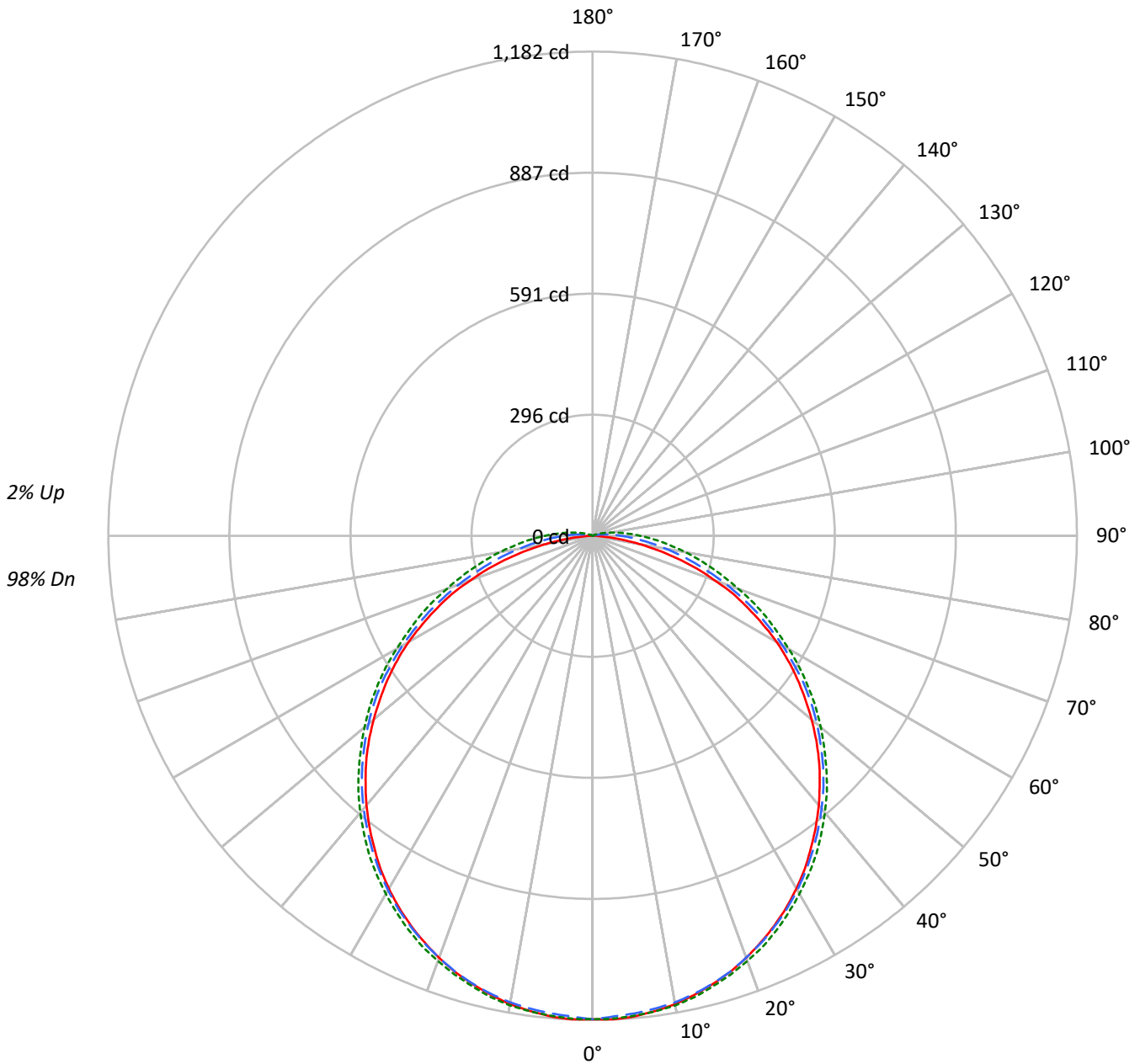
Lumens per Lamp: N/A
Luminaire Lumens: 3569.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 34.5
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°	3176	3176	3176
5°	3170	3121	3131
10°	3149	3081	3090
15°	3122	3034	3035
20°	3093	2979	2982
25°	3058	2922	2927
30°	3018	2861	2862
35°	2967	2792	2797
40°	2914	2719	2718
45°	2857	2638	2632
50°	2782	2543	2538
55°	2702	2438	2434
60°	2606	2296	2308
65°	2451	2135	2186
70°	2228	1943	2042
75°	1910	1732	1923
80°	1436	1531	1833
85°	768	1341	1783



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.1
10°-20°	320.4	9.0
20°-30°	486.2	13.6
30°-40°	587.9	16.5
40°-50°	613.4	17.2
50°-60°	560.8	15.7
60°-70°	437.2	12.2
70°-80°	273.5	7.7
80°-90°	124.2	3.5
90°-100°	41.6	1.2
100°-110°	10.4	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°	918.3	25.7
0°-40°	1506.2	42.2
0°-60°	2680.4	75.1
0°-90°	3515.3	98.5
90°-120°	53.7	1.5
90°-150°	53.7	1.5
90°-180°	54.0	1.5
0°-180°	3569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1178	1176	1170	1176	1176	112
15°	1133	1135	1132	1138	1138	320
25°	1050	1051	1052	1061	1062	484
35°	929	934	938	947	951	582
45°	782	789	795	803	807	603
55°	610	618	629	638	642	545
65°	419	427	441	459	466	415
75°	212	225	258	289	300	226
85°	37	68	117	154	168	46
90°	0	25	69	103	116	1
95°	0	7	36	65	75	0
105°	1	1	6	17	23	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.4	1180.4	1180.4	1180.4	1180.4
2.5°	1181.8	1180.1	1174.8	1180.1	1179.9
5°	1177.9	1175.7	1170.4	1176.0	1176.0
7.5°	1170.1	1169.3	1164.5	1170.9	1170.9
10°	1160.9	1160.7	1156.8	1163.7	1164.0
12.5°	1148.1	1149.2	1145.6	1152.3	1153.1
15°	1133.1	1135.1	1132.0	1138.4	1138.1
17.5°	1116.7	1117.8	1115.6	1122.8	1122.5
20°	1096.4	1097.8	1096.1	1103.6	1104.4
22.5°	1073.8	1075.8	1075.5	1083.3	1085.5
25°	1049.9	1050.7	1051.9	1060.8	1062.4
27.5°	1023.5	1024.9	1026.8	1034.9	1036.5
30°	994.5	996.8	999.0	1007.3	1009.6
32.5°	963.9	966.1	968.9	979.8	980.9
35°	929.4	933.6	937.5	946.9	950.8
37.5°	894.9	900.2	903.8	913.8	916.9
40°	858.5	863.7	869.6	880.2	882.1
42.5°	820.3	826.5	833.4	842.9	846.2
45°	781.9	788.9	795.3	803.1	807.0
47.5°	740.5	747.4	755.2	764.1	766.6
50°	697.6	705.7	714.0	722.4	726.8
52.5°	653.6	663.4	672.9	681.8	685.9
55°	610.2	617.5	628.9	638.1	642.2
57.5°	565.2	571.3	581.6	596.6	598.8
60°	519.2	524.8	535.4	547.6	552.6
62.5°	468.6	476.1	487.2	502.8	507.3
65°	419.3	426.6	441.3	458.9	466.1
67.5°	371.8	374.3	393.2	411.6	423.2
70°	315.6	325.0	347.0	369.5	378.4
72.5°	267.1	276.6	300.8	327.2	338.4
75°	212.3	225.4	258.2	289.1	300.0
77.5°	164.2	178.6	219.3	250.4	263.0
80°	114.6	137.2	181.4	216.5	230.1
82.5°	72.1	99.9	147.2	183.9	195.9
85°	36.7	67.9	116.6	154.2	167.8
87.5°	9.7	44.0	90.7	126.6	140.5
90°	0.3	25.3	68.7	103.2	115.8
92.5°	0.3	14.2	51.2	82.1	94.9
95°	0.3	6.7	35.6	64.6	74.6
97.5°	0.3	2.8	24.5	48.7	58.7
100°	0.3	1.4	15.6	35.3	44.0
102.5°	0.6	0.8	9.7	25.3	32.3
105°	0.6	0.8	5.8	17.3	23.1



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CATALOG NUMBER: HVSL12-4-LD4-1STD-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.1	4.7	7.0
115°	0.8	0.8	1.1	3.1	4.5
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°	0.6	0.8	3.3	11.7	15.9
110°	0.8	0.8	1.9	7.2	10.6



(END OF REPORT)