

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: P580175

Luminaire Tested: **HVSL12-2-LD4-3STD-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580175
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-LD4-3STD-40-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

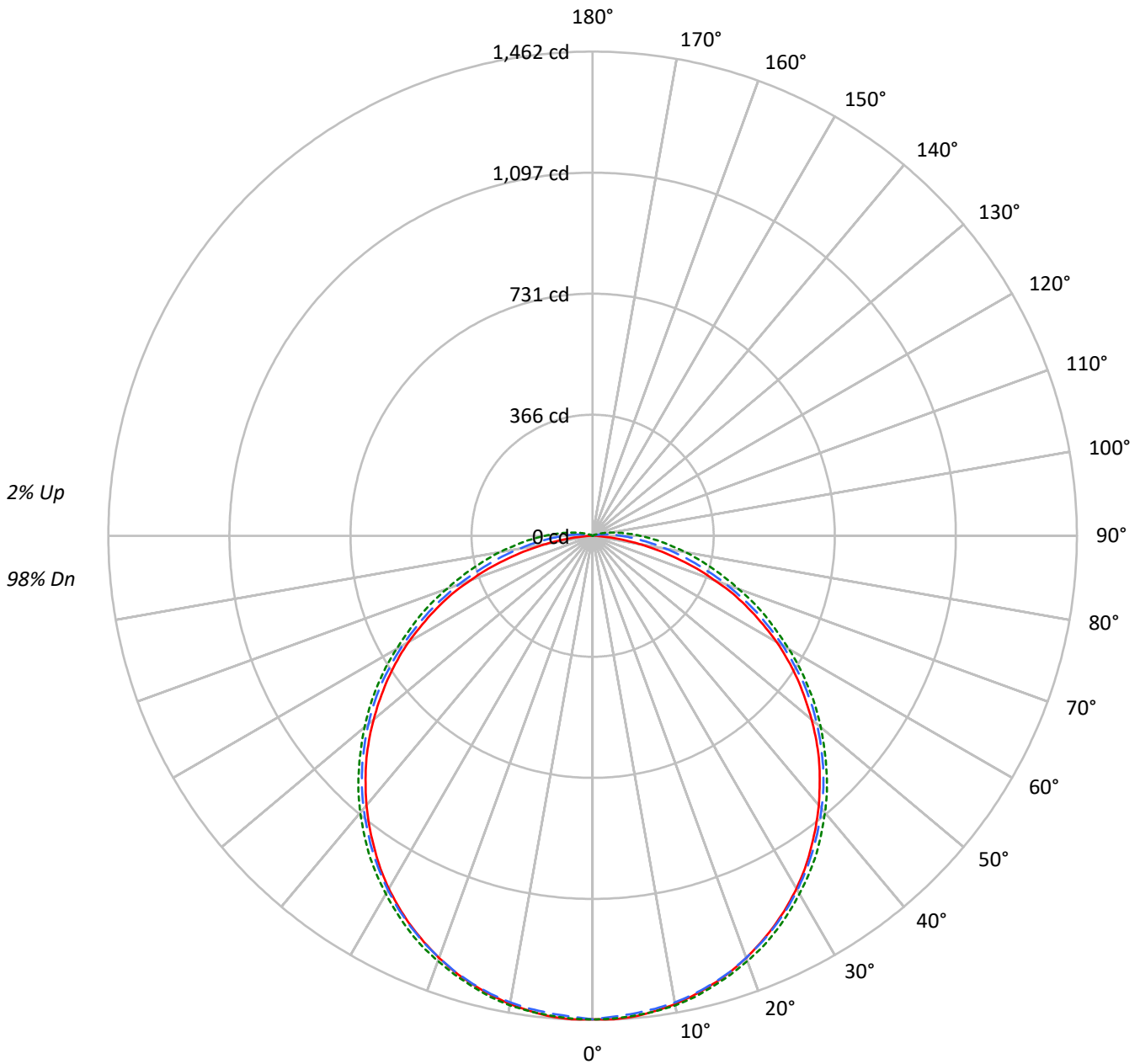
Lumens per Lamp: N/A
Luminaire Lumens: 4415.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 50.6
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°	7859	7859	7859
5°	7815	7703	7746
10°	7735	7584	7644
15°	7639	7449	7509
20°	7539	7296	7377
25°	7424	7138	7242
30°	7295	6969	7080
35°	7137	6780	6920
40°	6973	6581	6726
45°	6796	6363	6513
50°	6573	6109	6280
55°	6330	5828	6021
60°	6041	5458	5710
65°	5605	5041	5409
70°	4999	4547	5053
75°	4165	4001	4757
80°	2984	3473	4536
85°	1436	2948	4412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	3.1
10°-20°	396.4	9.0
20°-30°	601.4	13.6
30°-40°	727.2	16.5
40°-50°	758.8	17.2
50°-60°	693.8	15.7
60°-70°	540.8	12.2
70°-80°	338.3	7.7
80°-90°	153.6	3.5
90°-100°	51.5	1.2
100°-110°	12.9	0.3
110°-120°	2.0	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°	1136.0	25.7
0°-40°	1863.2	42.2
0°-60°	3315.7	75.1
0°-90°	4348.5	98.5
90°-120°	66.4	1.5
90°-150°	66.4	1.5
90°-180°	66.0	1.5
0°-180°	4415.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1457	1454	1448	1455	1455	138
15°	1402	1404	1400	1408	1408	396
25°	1299	1300	1301	1312	1314	598
35°	1150	1155	1160	1171	1176	720
45°	967	976	984	993	998	745
55°	755	764	778	789	794	674
65°	519	528	546	568	577	513
75°	263	279	319	358	371	280
85°	45	84	144	191	208	57
90°	0	31	85	128	143	2
95°	0	8	44	80	92	0
105°	1	1	7	21	29	1
115°	1	1	1	4	6	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°	1460.2	1460.2	1460.2	1460.2	1460.2
2.5°	1461.9	1459.9	1453.3	1459.9	1459.5
5°	1457.1	1454.4	1447.8	1454.7	1454.7
7.5°	1447.5	1446.4	1440.6	1448.5	1448.5
10°	1436.1	1435.8	1431.0	1439.6	1439.9
12.5°	1420.3	1421.7	1417.2	1425.4	1426.5
15°	1401.7	1404.1	1400.3	1408.2	1407.9
17.5°	1381.4	1382.8	1380.0	1389.0	1388.6
20°	1356.3	1358.0	1355.9	1365.2	1366.2
22.5°	1328.4	1330.8	1330.4	1340.1	1342.8
25°	1298.8	1299.8	1301.2	1312.2	1314.3
27.5°	1266.1	1267.8	1270.2	1280.2	1282.2
30°	1230.3	1233.0	1235.8	1246.1	1248.9
32.5°	1192.4	1195.2	1198.6	1212.0	1213.4
35°	1149.7	1154.9	1159.7	1171.4	1176.2
37.5°	1107.0	1113.6	1118.1	1130.4	1134.2
40°	1061.9	1068.5	1075.7	1088.8	1091.2
42.5°	1014.8	1022.4	1031.0	1042.7	1046.8
45°	967.3	975.9	983.8	993.4	998.3
47.5°	916.0	924.6	934.2	945.3	948.3
50°	863.0	873.0	883.3	893.6	899.1
52.5°	808.6	820.6	832.3	843.4	848.5
55°	754.9	763.8	778.0	789.3	794.5
57.5°	699.1	706.7	719.4	738.0	740.8
60°	642.3	649.2	662.3	677.4	683.6
62.5°	579.7	589.0	602.7	622.0	627.5
65°	518.8	527.7	545.9	567.6	576.6
67.5°	459.9	463.0	486.4	509.1	523.6
70°	390.4	402.1	429.3	457.1	468.2
72.5°	330.5	342.2	372.1	404.8	418.6
75°	262.6	278.8	319.4	357.7	371.1
77.5°	203.1	221.0	271.3	309.8	325.3
80°	141.8	169.7	224.4	267.8	284.7
82.5°	89.2	123.6	182.1	227.5	242.3
85°	45.4	84.0	144.2	190.7	207.6
87.5°	12.0	54.4	112.2	156.6	173.8
90°	0.3	31.3	85.0	127.7	143.2
92.5°	0.3	17.6	63.3	101.5	117.4
95°	0.3	8.3	44.1	79.9	92.3
97.5°	0.3	3.4	30.3	60.2	72.6
100°	0.3	1.7	19.3	43.7	54.4
102.5°	0.7	1.0	12.0	31.3	39.9
105°	0.7	1.0	7.2	21.3	28.6



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CATALOG NUMBER: HVSL12-2-LD4-3STD-40-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	1.0	1.4	5.9	8.6
115°	1.0	1.0	1.4	3.8	5.5
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°	0.7	1.0	4.1	14.5	19.6
110°	1.0	1.0	2.4	8.9	13.1



(END OF REPORT)