

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: P580218

Luminaire Tested: **HVSL12-4-LD4-2LO-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580218
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-LD4-2LO-50-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

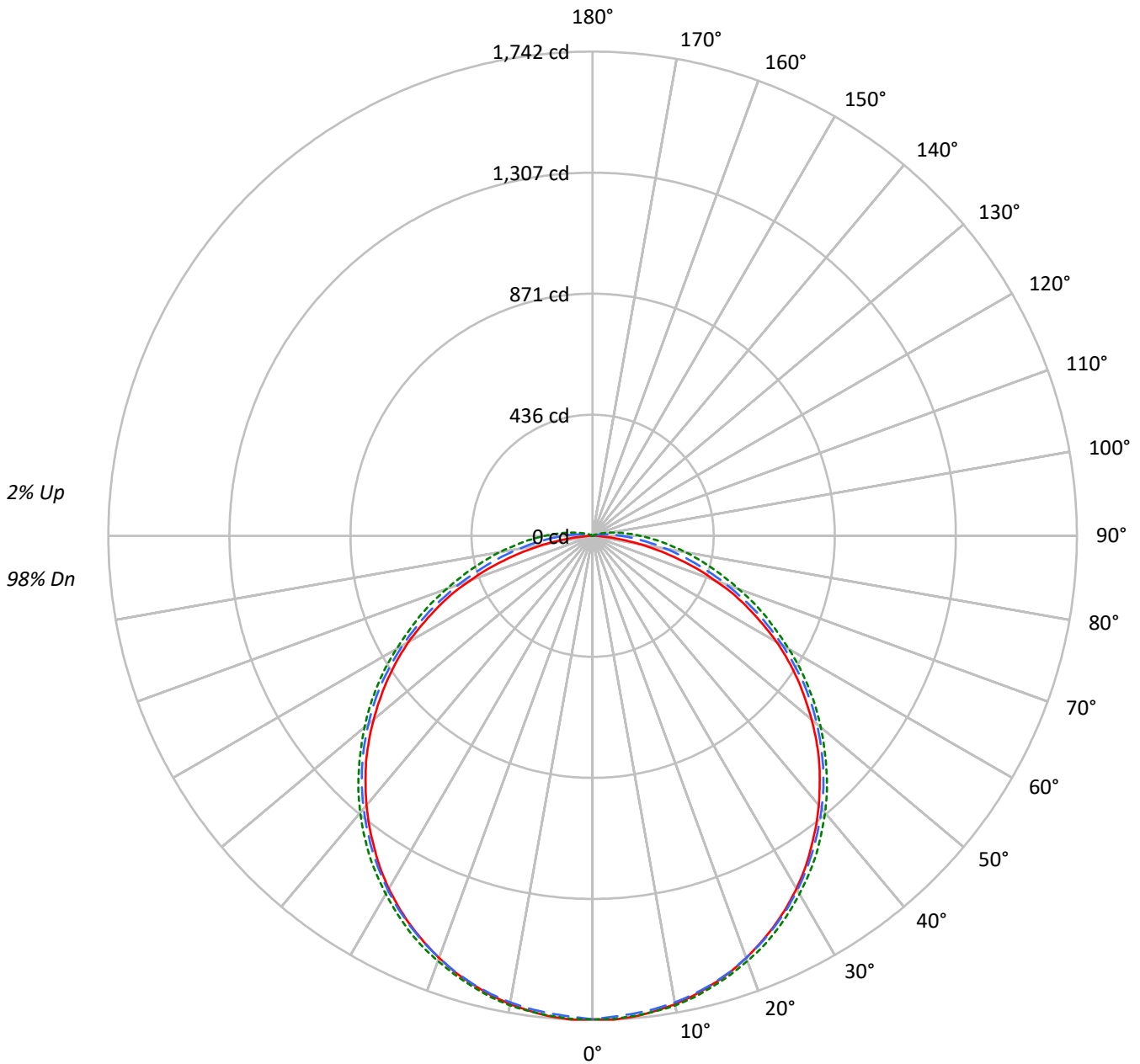
Lumens per Lamp: N/A
Luminaire Lumens: 5261.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 48.8
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°	4682	4682	4682
5°	4673	4601	4615
10°	4642	4541	4555
15°	4602	4472	4474
20°	4559	4391	4395
25°	4507	4308	4315
30°	4448	4217	4218
35°	4373	4115	4123
40°	4295	4007	4007
45°	4211	3888	3880
50°	4101	3748	3742
55°	3983	3593	3587
60°	3842	3384	3402
65°	3613	3148	3223
70°	3284	2865	3011
75°	2816	2554	2834
80°	2118	2257	2702
85°	1131	1977	2628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.7	3.1
10°-20°	472.3	9.0
20°-30°	716.7	13.6
30°-40°	866.6	16.5
40°-50°	904.2	17.2
50°-60°	826.7	15.7
60°-70°	644.5	12.2
70°-80°	403.1	7.7
80°-90°	183.1	3.5
90°-100°	61.4	1.2
100°-110°	15.4	0.3
110°-120°	2.4	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°	1353.6	25.7
0°-40°	2220.2	42.2
0°-60°	3951.1	75.1
0°-90°	5181.8	98.5
90°-120°	79.2	1.5
90°-150°	79.2	1.5
90°-180°	79.0	1.5
0°-180°	5261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1736	1733	1725	1734	1734	165
15°	1670	1673	1669	1678	1678	471
25°	1548	1549	1550	1564	1566	713
35°	1370	1376	1382	1396	1402	858
45°	1153	1163	1172	1184	1190	888
55°	900	910	927	941	947	804
65°	618	629	651	676	687	612
75°	313	332	381	426	442	334
85°	54	100	172	227	247	68
90°	0	37	101	152	171	2
95°	0	10	52	95	110	0
105°	1	1	9	25	34	1
115°	1	1	2	4	7	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°	1740.0	1740.0	1740.0	1740.0	1740.0
2.5°	1742.1	1739.6	1731.8	1739.6	1739.2
5°	1736.3	1733.0	1725.3	1733.5	1733.5
7.5°	1724.8	1723.6	1716.6	1726.1	1726.1
10°	1711.3	1710.9	1705.2	1715.4	1715.8
12.5°	1692.4	1694.1	1688.7	1698.6	1699.8
15°	1670.3	1673.2	1668.6	1678.1	1677.7
17.5°	1646.1	1647.7	1644.4	1655.1	1654.7
20°	1616.1	1618.2	1615.7	1626.8	1628.0
22.5°	1582.9	1585.8	1585.4	1596.9	1600.1
25°	1547.6	1548.9	1550.5	1563.6	1566.1
27.5°	1508.7	1510.7	1513.6	1525.5	1528.0
30°	1466.0	1469.3	1472.6	1484.9	1488.2
32.5°	1420.9	1424.2	1428.3	1444.3	1445.9
35°	1370.0	1376.2	1381.9	1395.9	1401.6
37.5°	1319.2	1327.0	1332.3	1347.1	1351.6
40°	1265.4	1273.2	1281.8	1297.4	1300.3
42.5°	1209.2	1218.3	1228.5	1242.5	1247.4
45°	1152.6	1162.9	1172.3	1183.8	1189.5
47.5°	1091.5	1101.8	1113.3	1126.4	1130.1
50°	1028.3	1040.2	1052.5	1064.9	1071.4
52.5°	963.5	977.9	991.8	1005.0	1011.1
55°	899.5	910.2	927.0	940.6	946.7
57.5°	833.1	842.1	857.3	879.4	882.7
60°	765.4	773.6	789.2	807.3	814.6
62.5°	690.8	701.8	718.2	741.2	747.8
65°	618.2	628.8	650.6	676.4	687.1
67.5°	548.0	551.7	579.6	606.7	623.9
70°	465.2	479.1	511.5	544.7	557.9
72.5°	393.8	407.7	443.4	482.4	498.8
75°	313.0	332.3	380.7	426.2	442.2
77.5°	242.0	263.3	323.2	369.2	387.6
80°	169.0	202.2	267.4	319.1	339.2
82.5°	106.2	147.3	217.0	271.1	288.8
85°	54.1	100.1	171.9	227.2	247.3
87.5°	14.4	64.8	133.7	186.6	207.1
90°	0.4	37.3	101.3	152.2	170.6
92.5°	0.4	20.9	75.5	121.0	139.9
95°	0.4	9.8	52.5	95.2	109.9
97.5°	0.4	4.1	36.1	71.8	86.5
100°	0.4	2.1	23.0	52.1	64.8
102.5°	0.8	1.2	14.4	37.3	47.6
105°	0.8	1.2	8.6	25.4	34.0



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CATALOG NUMBER: HVSL12-4-LD4-2LO-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	1.6	7.0	10.3
115°	1.2	1.2	1.6	4.5	6.6
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°	0.8	1.2	4.9	17.2	23.4
110°	1.2	1.2	2.9	10.7	15.6



(END OF REPORT)