

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: P580186

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580186
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-LD4-1HI-50-UNV-O-EDD
Description: 4 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

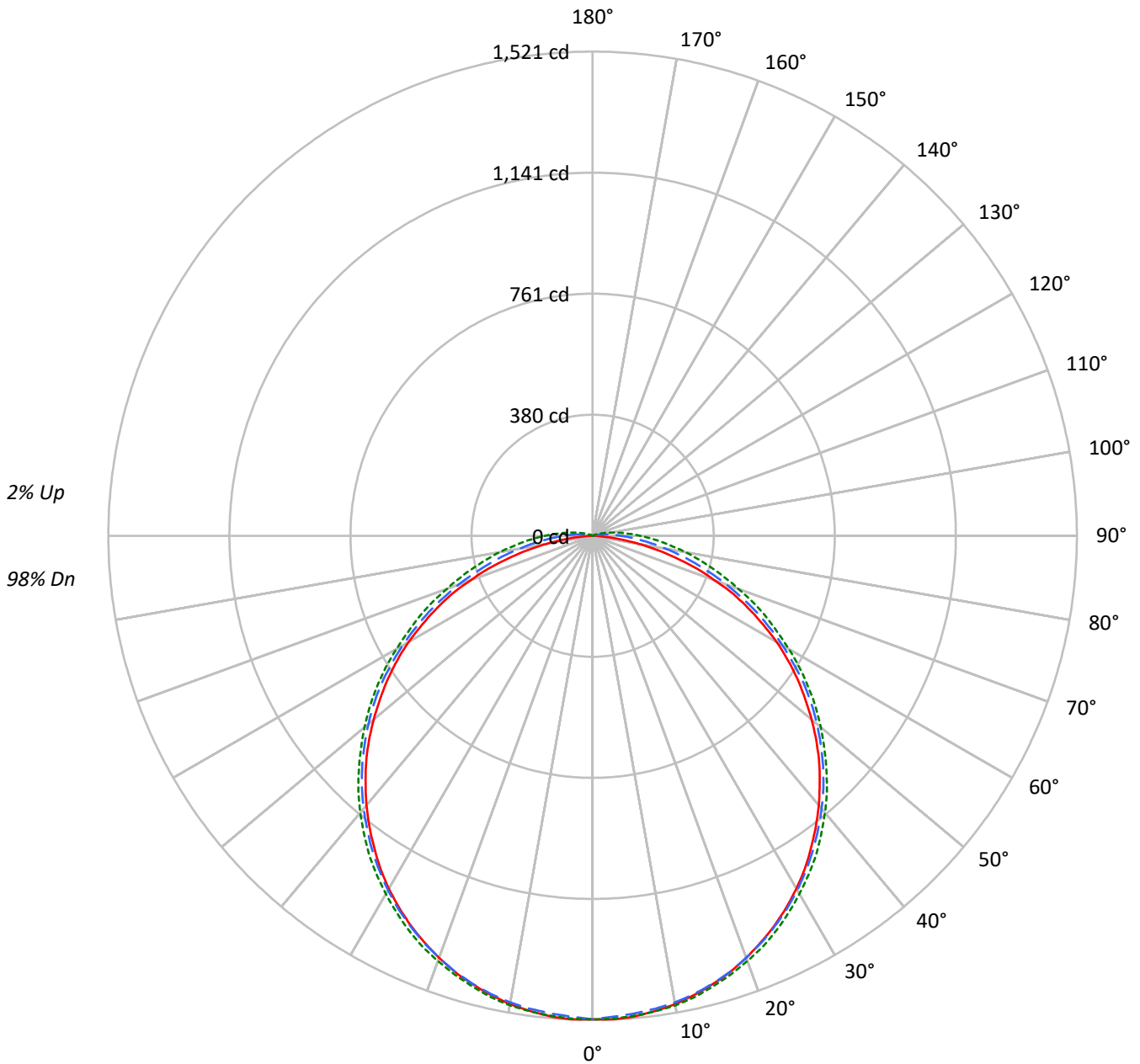
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4593.0 lumens
Efficiency: N/A
Efficacy: 100.9 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): 45.5
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					20	
RC	80					70					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°	4088	4088	4088
5°	4080	4017	4029
10°	4053	3965	3976
15°	4018	3904	3906
20°	3980	3834	3837
25°	3935	3761	3767
30°	3884	3682	3683
35°	3818	3593	3599
40°	3750	3499	3498
45°	3676	3395	3387
50°	3581	3272	3267
55°	3477	3137	3132
60°	3354	2954	2970
65°	3155	2748	2813
70°	2867	2501	2628
75°	2458	2229	2474
80°	1849	1971	2359
85°	989	1725	2294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	3.1
10°-20°	412.3	9.0
20°-30°	625.7	13.6
30°-40°	756.5	16.5
40°-50°	789.4	17.2
50°-60°	721.7	15.7
60°-70°	562.6	12.2
70°-80°	352.0	7.7
80°-90°	159.8	3.5
90°-100°	53.6	1.2
100°-110°	13.4	0.3
110°-120°	2.1	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°	1181.8	25.7
0°-40°	1938.3	42.2
0°-60°	3449.4	75.1
0°-90°	4523.8	98.5
90°-120°	69.2	1.5
90°-150°	69.2	1.5
90°-180°	69.0	1.5
0°-180°	4593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1516	1513	1506	1513	1513	144
15°	1458	1461	1457	1465	1465	412
25°	1351	1352	1354	1365	1367	623
35°	1196	1201	1206	1219	1224	749
45°	1006	1015	1024	1034	1038	775
55°	785	795	809	821	826	702
65°	540	549	568	590	600	534
75°	273	290	332	372	386	291
85°	47	87	150	198	216	60
90°	0	33	88	133	149	2
95°	0	9	46	83	96	0
105°	1	1	8	22	30	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519.1	1519.1	1519.1	1519.1	1519.1
2.5°	1520.9	1518.7	1511.9	1518.7	1518.4
5°	1515.9	1513.0	1506.2	1513.4	1513.4
7.5°	1505.8	1504.8	1498.7	1506.9	1506.9
10°	1494.0	1493.7	1488.6	1497.6	1498.0
12.5°	1477.5	1479.0	1474.3	1482.9	1484.0
15°	1458.2	1460.7	1456.8	1465.0	1464.7
17.5°	1437.1	1438.5	1435.6	1445.0	1444.6
20°	1410.9	1412.7	1410.6	1420.2	1421.3
22.5°	1381.9	1384.4	1384.1	1394.1	1397.0
25°	1351.1	1352.2	1353.6	1365.1	1367.2
27.5°	1317.1	1318.9	1321.4	1331.8	1333.9
30°	1279.9	1282.7	1285.6	1296.3	1299.2
32.5°	1240.5	1243.3	1246.9	1260.9	1262.3
35°	1196.1	1201.4	1206.5	1218.6	1223.6
37.5°	1151.7	1158.5	1163.1	1176.0	1180.0
40°	1104.8	1111.6	1119.1	1132.7	1135.2
42.5°	1055.7	1063.6	1072.5	1084.7	1089.0
45°	1006.3	1015.2	1023.5	1033.5	1038.5
47.5°	952.9	961.9	971.9	983.4	986.6
50°	897.8	908.2	918.9	929.6	935.4
52.5°	841.2	853.7	865.9	877.4	882.7
55°	785.3	794.6	809.3	821.1	826.5
57.5°	727.3	735.2	748.4	767.8	770.6
60°	668.2	675.4	689.0	704.8	711.2
62.5°	603.1	612.7	627.0	647.1	652.8
65°	539.7	549.0	568.0	590.5	599.8
67.5°	478.4	481.7	506.0	529.6	544.7
70°	406.1	418.3	446.6	475.6	487.0
72.5°	343.8	356.0	387.1	421.1	435.5
75°	273.2	290.1	332.3	372.1	386.0
77.5°	211.3	229.9	282.2	322.3	338.4
80°	147.5	176.5	233.5	278.6	296.2
82.5°	92.7	128.6	189.4	236.7	252.1
85°	47.3	87.4	150.0	198.4	215.9
87.5°	12.5	56.6	116.7	162.9	180.8
90°	0.4	32.6	88.5	132.9	149.0
92.5°	0.4	18.3	65.9	105.6	122.1
95°	0.4	8.6	45.8	83.1	96.0
97.5°	0.4	3.6	31.5	62.7	75.6
100°	0.4	1.8	20.1	45.5	56.6
102.5°	0.7	1.1	12.5	32.6	41.5
105°	0.7	1.1	7.5	22.2	29.7



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	1.1	1.4	6.1	9.0
115°	1.1	1.1	1.4	3.9	5.7
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	1.1	4.3	15.0	20.4
110°	1.1	1.1	2.5	9.3	13.6



(END OF REPORT)