

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: P580176

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

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580176
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
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

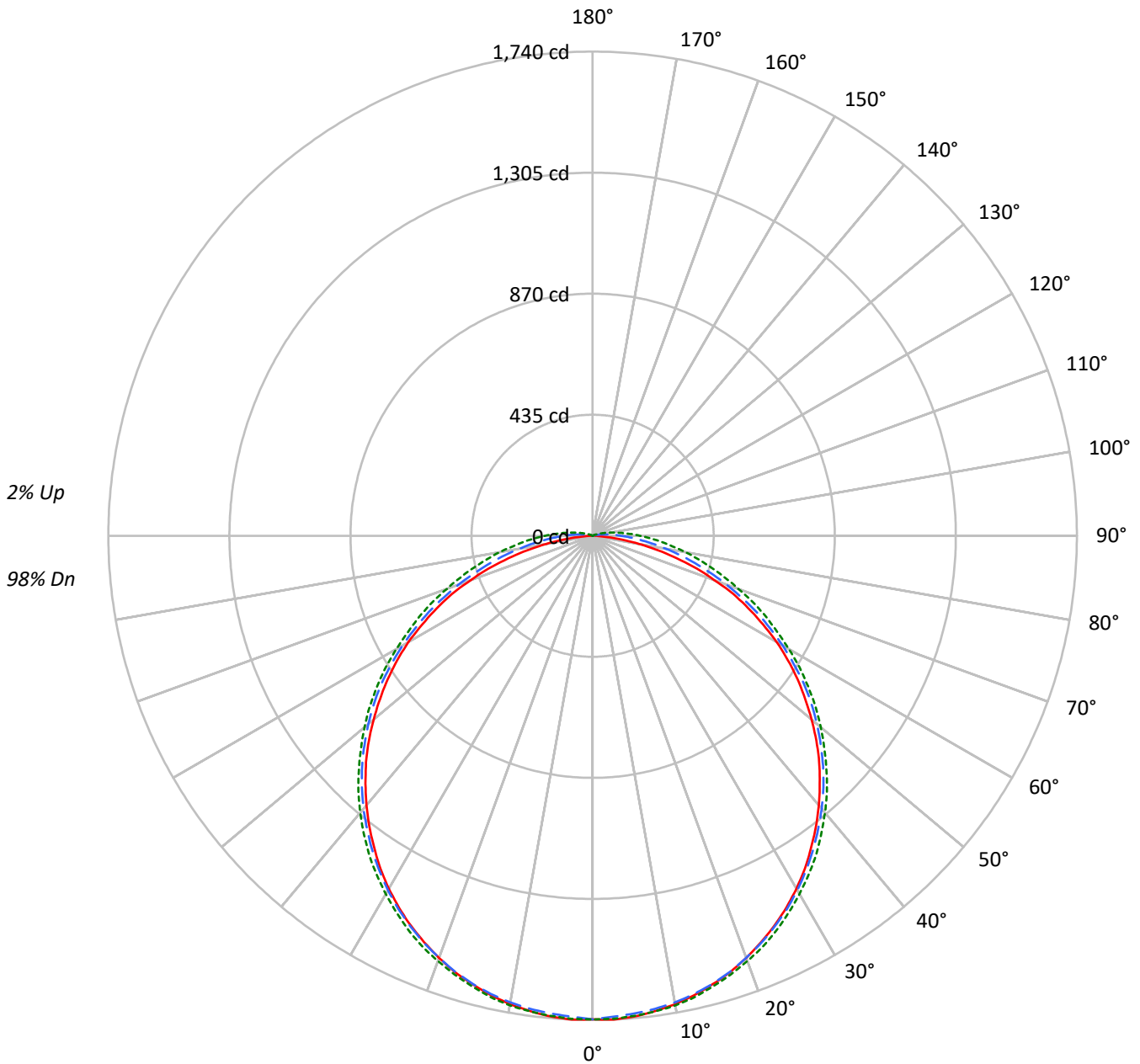
Lumens per Lamp: N/A
Luminaire Lumens: 5255.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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					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°	9354	9354	9354
5°	9302	9168	9220
10°	9207	9027	9099
15°	9093	8866	8938
20°	8973	8685	8781
25°	8837	8496	8619
30°	8682	8294	8427
35°	8495	8070	8237
40°	8300	7833	8005
45°	8089	7574	7751
50°	7823	7270	7475
55°	7534	6937	7167
60°	7191	6496	6796
65°	6670	6000	6438
70°	5949	5411	6014
75°	4958	4763	5662
80°	3552	4133	5398
85°	1711	3510	5252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	3.1
10°-20°	471.8	9.0
20°-30°	715.8	13.6
30°-40°	865.6	16.5
40°-50°	903.2	17.2
50°-60°	825.8	15.7
60°-70°	643.7	12.2
70°-80°	402.7	7.7
80°-90°	182.9	3.5
90°-100°	61.3	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°	1352.1	25.7
0°-40°	2217.7	42.2
0°-60°	3946.6	75.1
0°-90°	5175.9	98.5
90°-120°	79.1	1.5
90°-150°	79.1	1.5
90°-180°	79.0	1.5
0°-180°	5255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1734	1731	1723	1732	1732	165
15°	1668	1671	1667	1676	1676	471
25°	1546	1547	1549	1562	1564	712
35°	1368	1375	1380	1394	1400	857
45°	1151	1162	1171	1182	1188	887
55°	898	909	926	940	946	803
65°	617	628	650	676	686	611
75°	313	332	380	426	442	333
85°	54	100	172	227	247	68
90°	0	37	101	152	170	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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CATALOG NUMBER: HVSL12-2-LD4-3STD-40-UNV-O-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.0	1738.0	1738.0	1738.0	1738.0
2.5°	1740.1	1737.6	1729.8	1737.6	1737.2
5°	1734.3	1731.1	1723.3	1731.5	1731.5
7.5°	1722.9	1721.6	1714.7	1724.1	1724.1
10°	1709.4	1708.9	1703.2	1713.5	1713.9
12.5°	1690.5	1692.1	1686.8	1696.7	1697.9
15°	1668.4	1671.3	1666.7	1676.2	1675.8
17.5°	1644.2	1645.8	1642.6	1653.2	1652.8
20°	1614.3	1616.3	1613.9	1625.0	1626.2
22.5°	1581.1	1584.0	1583.6	1595.0	1598.3
25°	1545.9	1547.1	1548.7	1561.9	1564.3
27.5°	1507.0	1509.0	1511.9	1523.8	1526.2
30°	1464.3	1467.6	1470.9	1483.2	1486.5
32.5°	1419.3	1422.6	1426.6	1442.6	1444.3
35°	1368.5	1374.6	1380.4	1394.3	1400.0
37.5°	1317.7	1325.4	1330.8	1345.5	1350.0
40°	1264.0	1271.8	1280.4	1295.9	1298.8
42.5°	1207.9	1216.9	1227.1	1241.0	1246.0
45°	1151.3	1161.6	1171.0	1182.5	1188.2
47.5°	1090.3	1100.5	1112.0	1125.1	1128.8
50°	1027.2	1039.1	1051.3	1063.6	1070.2
52.5°	962.4	976.8	990.7	1003.8	1010.0
55°	898.5	909.2	926.0	939.5	945.6
57.5°	832.1	841.2	856.3	878.4	881.7
60°	764.5	772.7	788.3	806.3	813.7
62.5°	690.0	701.0	717.4	740.4	746.9
65°	617.4	628.1	649.8	675.6	686.3
67.5°	547.4	551.1	578.9	606.0	623.2
70°	464.6	478.6	510.9	544.1	557.2
72.5°	393.3	407.3	442.9	481.8	498.2
75°	312.6	331.9	380.2	425.7	441.7
77.5°	241.7	263.0	322.9	368.7	387.2
80°	168.8	202.0	267.1	318.8	338.8
82.5°	106.1	147.1	216.7	270.8	288.4
85°	54.1	100.0	171.7	227.0	247.1
87.5°	14.3	64.7	133.6	186.4	206.9
90°	0.4	37.3	101.2	152.0	170.4
92.5°	0.4	20.9	75.4	120.9	139.7
95°	0.4	9.8	52.4	95.1	109.8
97.5°	0.4	4.1	36.1	71.7	86.5
100°	0.4	2.0	22.9	52.0	64.7
102.5°	0.8	1.2	14.3	37.3	47.5
105°	0.8	1.2	8.6	25.4	34.0



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	1.6	7.0	10.2
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)