

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: P580562

Luminaire Tested: **HVSL4-3-LD4-2STD-50-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580562
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: HVSL4-3-LD4-2STD-50-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 5000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

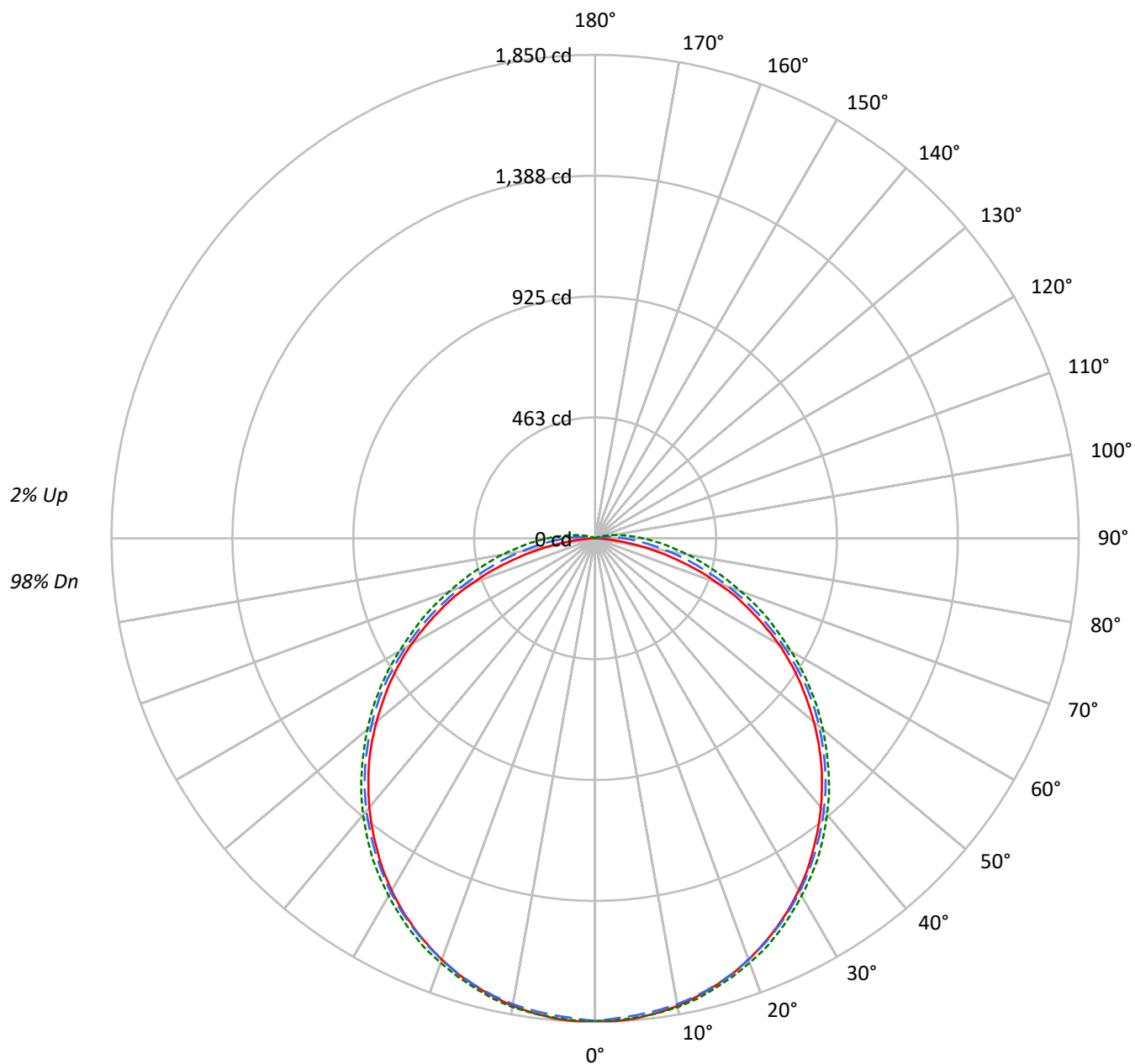
Lumens per Lamp: N/A
Luminaire Lumens: 5586.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

Input Watts (W): 49.1
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	19886	19886	19886
5°	19824	19135	19053
10°	19667	18507	18299
15°	19473	17863	17505
20°	19267	17192	16751
25°	19023	16525	16014
30°	18746	15840	15239
35°	18399	15121	14484
40°	18038	14382	13665
45°	17649	13603	12816
50°	17149	12746	11936
55°	16606	11832	11004
60°	15960	10735	9978
65°	14936	9547	8965
70°	13485	8219	7852
75°	11446	6816	6812
80°	8456	5453	5820
85°	4343	4105	4829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	3.1
10°-20°	501.5	9.0
20°-30°	760.9	13.6
30°-40°	920.1	16.5
40°-50°	960.0	17.2
50°-60°	877.8	15.7
60°-70°	684.3	12.2
70°-80°	428.0	7.7
80°-90°	194.4	3.5
90°-100°	65.2	1.2
100°-110°	16.3	0.3
110°-120°	2.6	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°	1437.3	25.7
0°-40°	2357.4	42.2
0°-60°	4195.2	75.1
0°-90°	5501.9	98.5
90°-120°	84.1	1.5
90°-150°	84.1	1.5
90°-180°	84.0	1.5
0°-180°	5586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1844	1840	1832	1840	1840	175
15°	1774	1776	1772	1782	1781	501
25°	1643	1645	1646	1660	1663	757
35°	1455	1461	1467	1482	1488	910
45°	1224	1235	1245	1257	1263	943
55°	955	966	984	999	1005	853
65°	656	668	691	718	730	649
75°	332	353	404	452	470	354
85°	58	106	182	241	263	73
90°	0	40	108	162	181	2
95°	0	10	56	101	117	0
105°	1	1	9	27	36	1
115°	1	1	2	5	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1847.5	1847.5	1847.5	1847.5	1847.5
2.5°	1849.7	1847.1	1838.8	1847.1	1846.6
5°	1843.6	1840.1	1831.8	1840.5	1840.5
7.5°	1831.4	1830.1	1822.7	1832.7	1832.7
10°	1817.0	1816.6	1810.5	1821.4	1821.8
12.5°	1797.0	1798.7	1793.1	1803.5	1804.8
15°	1773.5	1776.5	1771.7	1781.7	1781.3
17.5°	1747.8	1749.5	1746.0	1757.4	1756.9
20°	1716.0	1718.2	1715.5	1727.3	1728.6
22.5°	1680.7	1683.8	1683.3	1695.5	1699.0
25°	1643.2	1644.6	1646.3	1660.2	1662.8
27.5°	1601.9	1604.1	1607.1	1619.7	1622.3
30°	1556.6	1560.1	1563.5	1576.6	1580.1
32.5°	1508.7	1512.2	1516.5	1533.5	1535.2
35°	1454.7	1461.2	1467.3	1482.1	1488.2
37.5°	1400.7	1408.9	1414.6	1430.3	1435.1
40°	1343.6	1351.9	1361.0	1377.6	1380.6
42.5°	1283.9	1293.5	1304.4	1319.2	1324.4
45°	1223.8	1234.7	1244.7	1256.9	1263.0
47.5°	1158.9	1169.8	1182.0	1196.0	1199.9
50°	1091.9	1104.5	1117.6	1130.6	1137.6
52.5°	1023.1	1038.3	1053.1	1067.0	1073.6
55°	955.1	966.4	984.3	998.7	1005.2
57.5°	884.6	894.1	910.3	933.8	937.3
60°	812.7	821.4	838.0	857.1	865.0
62.5°	733.4	745.2	762.6	787.0	794.0
65°	656.3	667.7	690.7	718.2	729.5
67.5°	581.9	585.8	615.4	644.1	662.4
70°	493.9	508.7	543.1	578.4	592.3
72.5°	418.1	432.9	470.8	512.2	529.6
75°	332.3	352.8	404.2	452.5	469.5
77.5°	257.0	279.6	343.2	392.0	411.6
80°	179.4	214.7	284.0	338.8	360.2
82.5°	112.8	156.4	230.4	287.9	306.6
85°	57.5	106.3	182.5	241.3	262.6
87.5°	15.2	68.8	142.0	198.2	219.9
90°	0.4	39.6	107.6	161.6	181.2
92.5°	0.4	22.2	80.1	128.5	148.5
95°	0.4	10.5	55.7	101.0	116.7
97.5°	0.4	4.4	38.3	76.2	91.9
100°	0.4	2.2	24.4	55.3	68.8
102.5°	0.9	1.3	15.2	39.6	50.5
105°	0.9	1.3	9.1	27.0	36.1



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CATALOG NUMBER: HVSL4-3-LD4-2STD-50-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.7	7.4	10.9
115°	1.3	1.3	1.7	4.8	7.0
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°	0.9	1.3	5.2	18.3	24.8
110°	1.3	1.3	3.0	11.3	16.6



(END OF REPORT)