

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: P580560

Luminaire Tested: **HVSL4-3-LD4-2STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580560
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-40-UNV-O-EDD
Description: 3 FOOT, 4INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

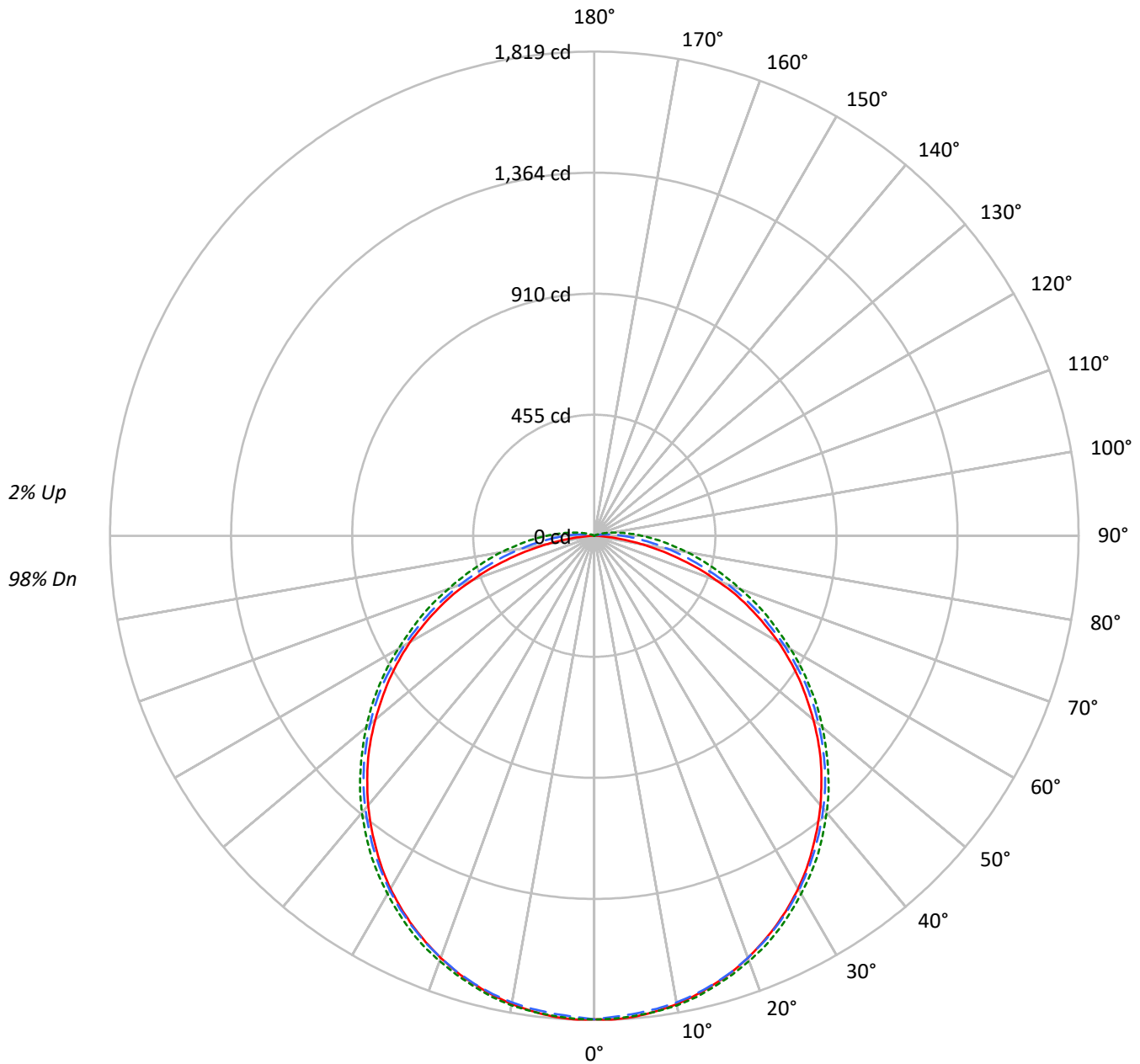
Lumens per Lamp: N/A
Luminaire Lumens: 5493.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3' x H: 0.17')
CIE Type: Direct

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°	19556	19556	19556
5°	19494	18816	18736
10°	19340	18198	17994
15°	19148	17565	17214
20°	18946	16906	16472
25°	18707	16250	15748
30°	18434	15576	14986
35°	18092	14869	14242
40°	17738	14143	13437
45°	17356	13376	12603
50°	16863	12534	11738
55°	16329	11635	10822
60°	15695	10555	9812
65°	14688	9388	8816
70°	13261	8083	7722
75°	11257	6701	6699
80°	8319	5361	5723
85°	4267	4035	4750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.1
10°-20°	493.1	9.0
20°-30°	748.3	13.6
30°-40°	904.8	16.5
40°-50°	944.1	17.2
50°-60°	863.2	15.7
60°-70°	672.9	12.2
70°-80°	420.9	7.7
80°-90°	191.2	3.5
90°-100°	64.1	1.2
100°-110°	16.1	0.3
110°-120°	2.5	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°	1413.3	25.7
0°-40°	2318.1	42.2
0°-60°	4125.3	75.1
0°-90°	5410.3	98.5
90°-120°	82.7	1.5
90°-150°	82.7	1.5
90°-180°	83.0	1.5
0°-180°	5493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1817	1817	1817	1817	1817	
5°	1813	1810	1801	1810	1810	172
15°	1744	1747	1742	1752	1752	492
25°	1616	1617	1619	1633	1635	745
35°	1430	1437	1443	1457	1463	895
45°	1204	1214	1224	1236	1242	927
55°	939	950	968	982	988	839
65°	645	656	679	706	717	639
75°	327	347	397	445	462	348
85°	56	104	179	237	258	72
90°	0	39	106	159	178	2
95°	0	10	55	99	115	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°	1816.8	1816.8	1816.8	1816.8	1816.8
2.5°	1818.9	1816.3	1808.2	1816.3	1815.9
5°	1812.9	1809.5	1801.3	1809.9	1809.9
7.5°	1800.9	1799.6	1792.3	1802.2	1802.2
10°	1786.8	1786.3	1780.3	1791.1	1791.5
12.5°	1767.1	1768.8	1763.2	1773.5	1774.8
15°	1743.9	1746.9	1742.2	1752.1	1751.7
17.5°	1718.7	1720.4	1717.0	1728.1	1727.7
20°	1687.4	1689.6	1687.0	1698.5	1699.8
22.5°	1652.7	1655.7	1655.3	1667.3	1670.7
25°	1615.9	1617.2	1618.9	1632.6	1635.2
27.5°	1575.2	1577.3	1580.3	1592.8	1595.3
30°	1530.7	1534.1	1537.5	1550.4	1553.8
32.5°	1483.6	1487.0	1491.3	1508.0	1509.7
35°	1430.4	1436.9	1442.9	1457.4	1463.4
37.5°	1377.3	1385.5	1391.0	1406.5	1411.2
40°	1321.2	1329.4	1338.4	1354.6	1357.6
42.5°	1262.6	1272.0	1282.7	1297.3	1302.4
45°	1203.5	1214.2	1224.0	1236.0	1242.0
47.5°	1139.6	1150.4	1162.3	1176.0	1179.9
50°	1073.7	1086.1	1099.0	1111.8	1118.7
52.5°	1006.0	1021.0	1035.6	1049.3	1055.7
55°	939.2	950.3	967.9	982.0	988.5
57.5°	869.8	879.3	895.1	918.2	921.7
60°	799.2	807.7	824.0	842.8	850.6
62.5°	721.2	732.8	749.9	773.9	780.7
65°	645.4	656.5	679.2	706.2	717.4
67.5°	572.2	576.0	605.2	633.4	651.4
70°	485.7	500.2	534.1	568.8	582.5
72.5°	411.1	425.7	463.0	503.7	520.8
75°	326.8	346.9	397.4	445.0	461.7
77.5°	252.7	275.0	337.5	385.4	404.7
80°	176.5	211.1	279.2	333.2	354.2
82.5°	110.9	153.8	226.6	283.1	301.5
85°	56.5	104.5	179.4	237.3	258.3
87.5°	15.0	67.7	139.6	194.9	216.3
90°	0.4	39.0	105.8	158.9	178.2
92.5°	0.4	21.8	78.8	126.3	146.0
95°	0.4	10.3	54.8	99.4	114.8
97.5°	0.4	4.3	37.7	74.9	90.4
100°	0.4	2.1	24.0	54.4	67.7
102.5°	0.9	1.3	15.0	39.0	49.7
105°	0.9	1.3	9.0	26.6	35.5



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CATALOG NUMBER: HVSL4-3-LD4-2STD-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	1.7	7.3	10.7
115°	1.3	1.3	1.7	4.7	6.9
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	5.1	18.0	24.4
110°	1.3	1.3	3.0	11.1	16.3



(END OF REPORT)