

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: P580776

Luminaire Tested: **HVSL8-4-LD4-2STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580776
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: HVSL8-4-LD4-2STD-40-UNV-O-EDD
Description: 4 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

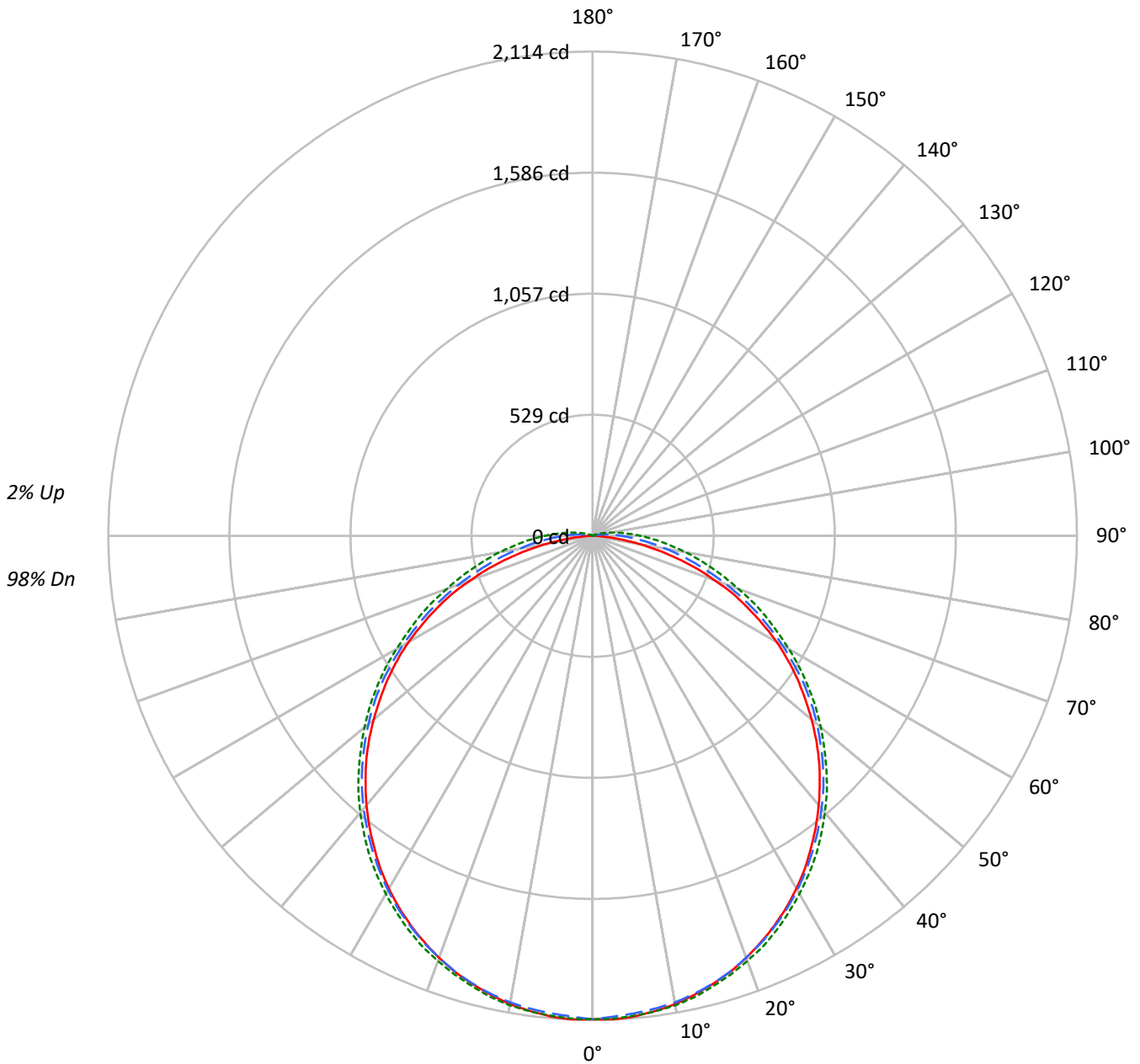
Lumens per Lamp: N/A
Luminaire Lumens: 6383.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 67.4
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°	8521	8521	8521
5°	8505	8331	8339
10°	8448	8182	8172
15°	8375	8017	7972
20°	8297	7832	7777
25°	8203	7643	7579
30°	8096	7441	7354
35°	7958	7219	7131
40°	7817	6986	6871
45°	7663	6731	6590
50°	7464	6437	6289
55°	7249	6114	5956
60°	6992	5695	5568
65°	6576	5227	5183
70°	5977	4675	4735
75°	5125	4069	4328
80°	3854	3476	3957
85°	2061	2876	3602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	3.1
10°-20°	573.0	9.0
20°-30°	869.5	13.6
30°-40°	1051.4	16.5
40°-50°	1097.0	17.2
50°-60°	1003.0	15.7
60°-70°	781.9	12.2
70°-80°	489.1	7.7
80°-90°	222.1	3.5
90°-100°	74.5	1.2
100°-110°	18.7	0.3
110°-120°	3.0	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°	1642.3	25.7
0°-40°	2693.7	42.2
0°-60°	4793.7	75.1
0°-90°	6286.9	98.5
90°-120°	96.1	1.5
90°-150°	96.1	1.5
90°-180°	96.0	1.5
0°-180°	6383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2111	2111	2111	2111	2111	
5°	2107	2103	2093	2103	2103	200
15°	2026	2030	2024	2036	2036	572
25°	1878	1879	1881	1897	1900	865
35°	1662	1670	1677	1694	1700	1040
45°	1398	1411	1422	1436	1443	1078
55°	1091	1104	1125	1141	1149	975
65°	750	763	789	821	834	742
75°	380	403	462	517	536	405
85°	66	121	208	276	300	83
90°	0	45	123	185	207	3
95°	0	12	64	116	133	0
105°	1	2	10	31	41	1
115°	2	2	2	6	8	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°	2111.1	2111.1	2111.1	2111.1	2111.1
2.5°	2113.6	2110.6	2101.2	2110.6	2110.1
5°	2106.6	2102.7	2093.2	2103.1	2103.1
7.5°	2092.7	2091.2	2082.7	2094.2	2094.2
10°	2076.3	2075.8	2068.8	2081.3	2081.7
12.5°	2053.4	2055.4	2048.9	2060.8	2062.3
15°	2026.5	2030.0	2024.5	2036.0	2035.5
17.5°	1997.1	1999.1	1995.2	2008.1	2007.6
20°	1960.8	1963.3	1960.3	1973.8	1975.2
22.5°	1920.5	1924.0	1923.5	1937.4	1941.4
25°	1877.7	1879.2	1881.2	1897.1	1900.1
27.5°	1830.4	1832.9	1836.4	1850.8	1853.8
30°	1778.7	1782.6	1786.6	1801.6	1805.5
32.5°	1723.9	1727.9	1732.9	1752.3	1754.3
35°	1662.2	1669.7	1676.6	1693.6	1700.5
37.5°	1600.5	1610.0	1616.4	1634.3	1639.8
40°	1535.3	1544.8	1555.2	1574.1	1577.6
42.5°	1467.1	1478.1	1490.5	1507.4	1513.4
45°	1398.4	1410.9	1422.3	1436.3	1443.2
47.5°	1324.3	1336.7	1350.7	1366.6	1371.1
50°	1247.7	1262.1	1277.0	1291.9	1299.9
52.5°	1169.0	1186.4	1203.4	1219.3	1226.8
55°	1091.4	1104.3	1124.7	1141.2	1148.6
57.5°	1010.8	1021.7	1040.1	1067.0	1071.0
60°	928.6	938.6	957.5	979.4	988.4
62.5°	838.1	851.5	871.4	899.3	907.3
65°	750.0	762.9	789.3	820.7	833.6
67.5°	664.9	669.4	703.2	736.1	757.0
70°	564.4	581.3	620.6	660.9	676.8
72.5°	477.8	494.7	538.0	585.3	605.2
75°	379.7	403.1	461.8	517.1	536.5
77.5°	293.6	319.5	392.2	447.9	470.3
80°	205.0	245.4	324.5	387.2	411.6
82.5°	128.9	178.7	263.3	329.0	350.4
85°	65.7	121.4	208.5	275.7	300.1
87.5°	17.4	78.6	162.2	226.4	251.3
90°	0.5	45.3	122.9	184.6	207.0
92.5°	0.5	25.4	91.6	146.8	169.7
95°	0.5	11.9	63.7	115.5	133.4
97.5°	0.5	5.0	43.8	87.1	105.0
100°	0.5	2.5	27.9	63.2	78.6
102.5°	1.0	1.5	17.4	45.3	57.7
105°	1.0	1.5	10.5	30.9	41.3



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CATALOG NUMBER: HVSL8-4-LD4-2STD-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	2.0	8.5	12.4
115°	1.5	1.5	2.0	5.5	8.0
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°	1.0	1.5	6.0	20.9	28.4
110°	1.5	1.5	3.5	12.9	18.9



(END OF REPORT)