

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: P580415

Luminaire Tested: **HVSL2-8-LD4-STD-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580415
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: HVSL2-8-LD4-STD-40-UNV-O-EDD-90
Description: 8 FOOT, 2INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

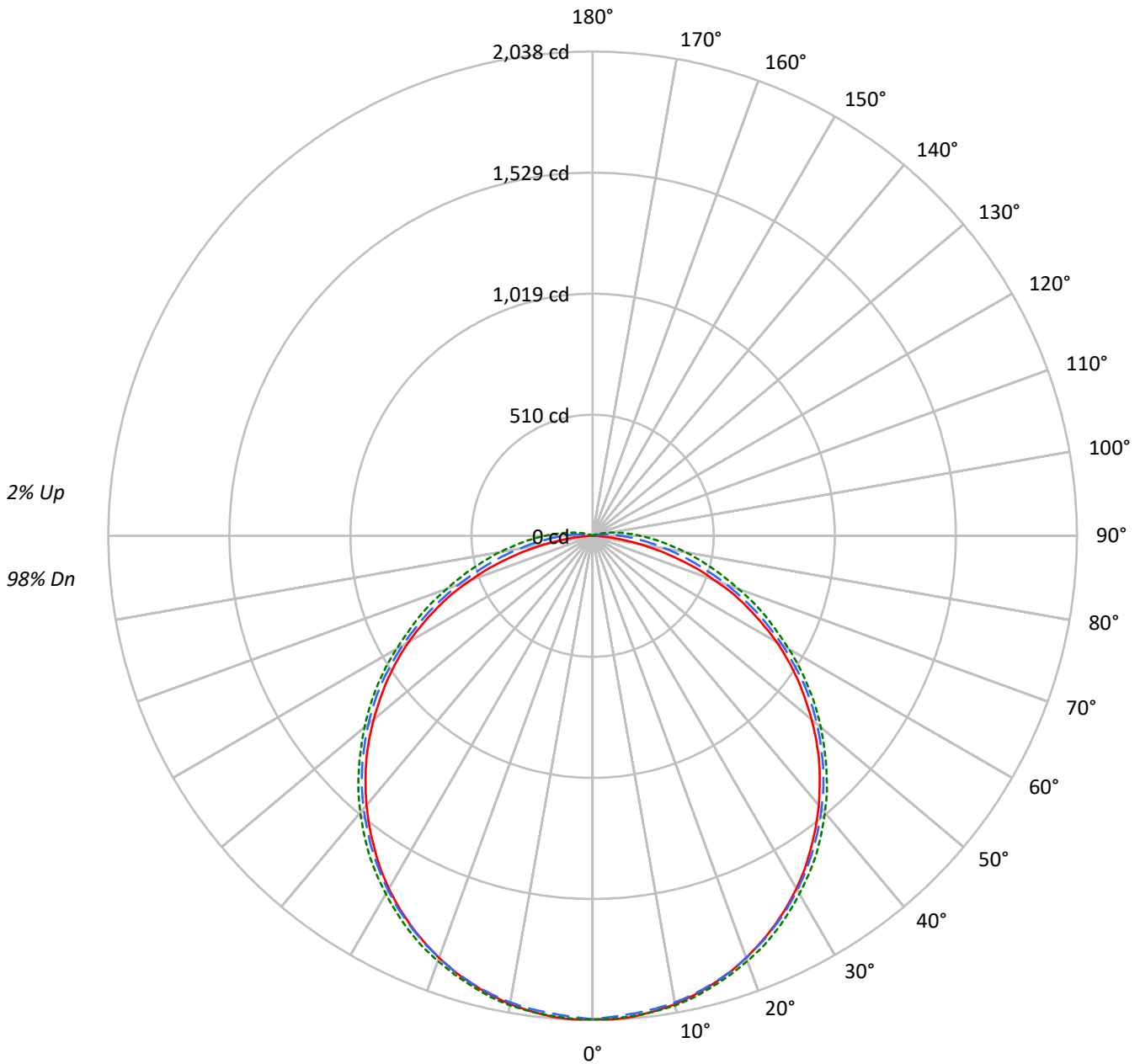
Lumens per Lamp: N/A
Luminaire Lumens: 6154.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 65.4
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				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°	16432	16432	16432
5°	16430	15383	15110
10°	16350	14504	13986
15°	16239	13669	12935
20°	16119	12858	11994
25°	15970	12086	11128
30°	15796	11333	10287
35°	15567	10582	9503
40°	15331	9840	8715
45°	15079	9092	7942
50°	14741	8312	7181
55°	14381	7514	6418
60°	13952	6623	5631
65°	13222	5705	4882
70°	12147	4733	4109
75°	10595	3760	3409
80°	8220	2854	2765
85°	4735	2012	2155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	3.1
10°-20°	552.5	9.0
20°-30°	838.3	13.6
30°-40°	1013.7	16.5
40°-50°	1057.7	17.2
50°-60°	967.0	15.7
60°-70°	753.8	12.2
70°-80°	471.6	7.7
80°-90°	214.2	3.5
90°-100°	71.8	1.2
100°-110°	18.0	0.3
110°-120°	2.8	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°	1583.4	25.7
0°-40°	2597.1	42.2
0°-60°	4621.8	75.1
0°-90°	6061.3	98.5
90°-120°	92.6	1.5
90°-150°	92.6	1.5
90°-180°	93.0	1.5
0°-180°	6154.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2035	2035	2035	2035	2035	
5°	2031	2027	2018	2028	2028	193
15°	1954	1957	1952	1963	1962	552
25°	1810	1812	1814	1829	1832	834
35°	1603	1610	1616	1633	1640	1003
45°	1348	1360	1371	1385	1392	1039
55°	1052	1065	1084	1100	1107	940
65°	723	736	761	791	804	715
75°	366	389	445	498	517	390
85°	63	117	201	266	289	80
90°	0	44	118	178	200	3
95°	0	12	61	111	129	0
105°	1	1	10	30	40	1
115°	1	1	2	5	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°	2035.4	2035.4	2035.4	2035.4	2035.4
2.5°	2037.8	2034.9	2025.8	2034.9	2034.4
5°	2031.1	2027.2	2018.1	2027.7	2027.7
7.5°	2017.6	2016.2	2008.0	2019.1	2019.1
10°	2001.8	2001.3	1994.6	2006.6	2007.1
12.5°	1979.7	1981.6	1975.4	1986.9	1988.3
15°	1953.8	1957.2	1951.9	1962.9	1962.4
17.5°	1925.5	1927.4	1923.6	1936.0	1935.6
20°	1890.5	1892.9	1890.0	1902.9	1904.4
22.5°	1851.6	1855.0	1854.5	1867.9	1871.8
25°	1810.3	1811.8	1813.7	1829.1	1831.9
27.5°	1764.8	1767.2	1770.5	1784.4	1787.3
30°	1714.9	1718.7	1722.5	1736.9	1740.8
32.5°	1662.1	1665.9	1670.7	1689.4	1691.3
35°	1602.6	1609.8	1616.5	1632.8	1639.5
37.5°	1543.1	1552.2	1558.4	1575.7	1581.0
40°	1480.2	1489.3	1499.4	1517.7	1521.0
42.5°	1414.5	1425.0	1437.0	1453.4	1459.1
45°	1348.3	1360.3	1371.3	1384.7	1391.5
47.5°	1276.8	1288.8	1302.2	1317.6	1321.9
50°	1202.9	1216.8	1231.2	1245.6	1253.3
52.5°	1127.1	1143.9	1160.2	1175.5	1182.7
55°	1052.2	1064.7	1084.4	1100.2	1107.4
57.5°	974.5	985.1	1002.8	1028.7	1032.6
60°	895.3	904.9	923.2	944.3	952.9
62.5°	808.0	821.0	840.2	867.0	874.7
65°	723.1	735.6	761.0	791.2	803.7
67.5°	641.0	645.3	678.0	709.6	729.8
70°	544.1	560.4	598.3	637.2	652.5
72.5°	460.6	476.9	518.7	564.3	583.5
75°	366.1	388.6	445.3	498.5	517.2
77.5°	283.1	308.0	378.1	431.8	453.4
80°	197.7	236.5	312.8	373.3	396.8
82.5°	124.3	172.3	253.8	317.2	337.8
85°	63.3	117.1	201.0	265.8	289.3
87.5°	16.8	75.8	156.4	218.3	242.3
90°	0.5	43.7	118.5	178.0	199.6
92.5°	0.5	24.5	88.3	141.5	163.6
95°	0.5	11.5	61.4	111.3	128.6
97.5°	0.5	4.8	42.2	84.0	101.2
100°	0.5	2.4	26.9	60.9	75.8
102.5°	1.0	1.4	16.8	43.7	55.7
105°	1.0	1.4	10.1	29.7	39.8



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CATALOG NUMBER: HVSL2-8-LD4-STD-40-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	1.9	8.2	12.0
115°	1.4	1.4	1.9	5.3	7.7
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°	1.0	1.4	5.8	20.2	27.3
110°	1.4	1.4	3.4	12.5	18.2



(END OF REPORT)