

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: P580272

Luminaire Tested: **HVSL12-8-LD4-1STD-40-UNV-O-EDD**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580272
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: HVSL12-8-LD4-1STD-40-UNV-O-EDD
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

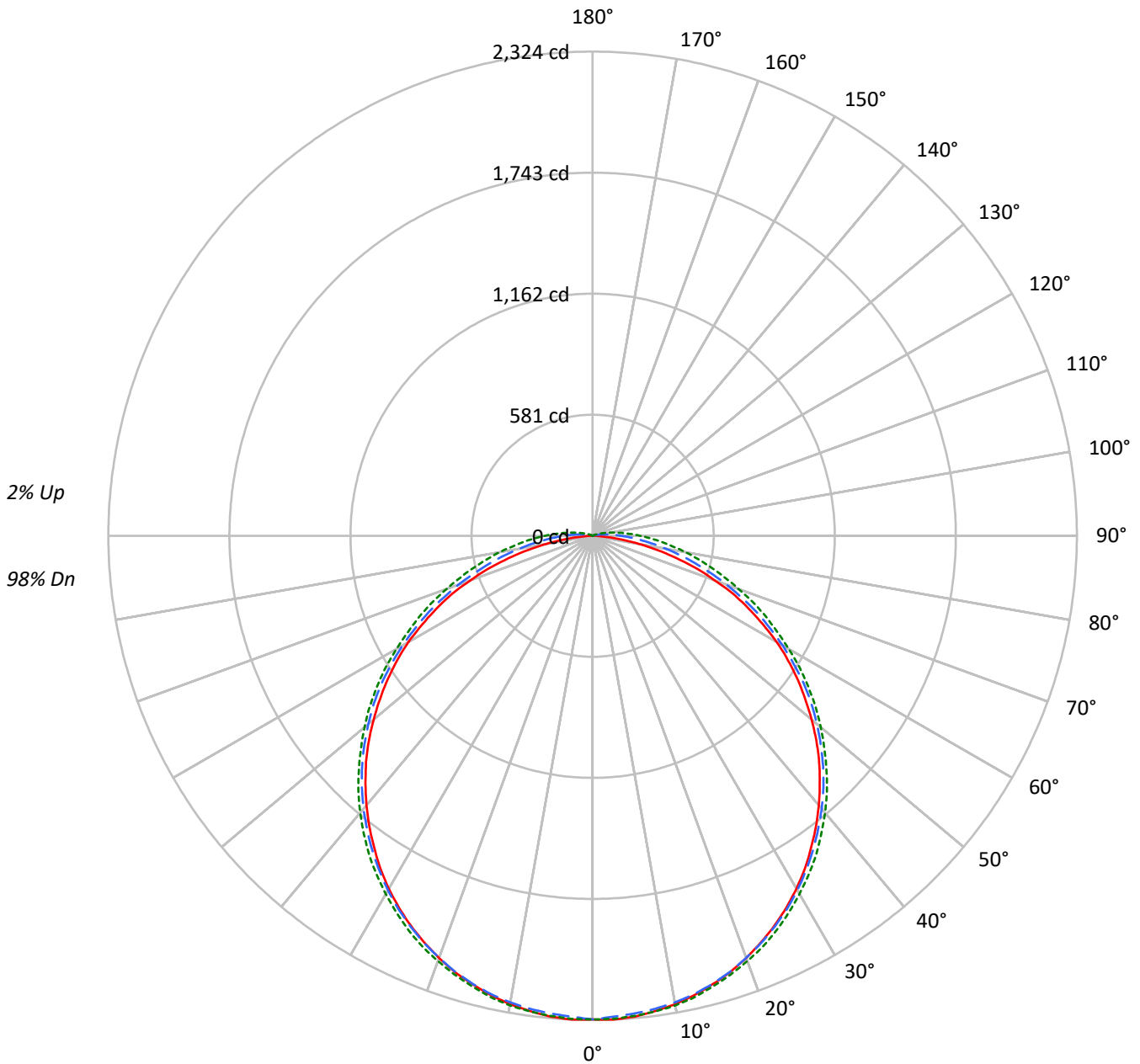
Lumens per Lamp: N/A
Luminaire Lumens: 7019.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 69.1
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									
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°	3124	3124	3124
5°	3123	3073	3079
10°	3108	3037	3038
15°	3087	2995	2985
20°	3064	2944	2932
25°	3036	2892	2878
30°	3003	2835	2814
35°	2959	2771	2750
40°	2914	2703	2673
45°	2866	2628	2588
50°	2802	2538	2496
55°	2734	2439	2393
60°	2652	2304	2270
65°	2513	2151	2150
70°	2309	1968	2008
75°	2014	1766	1890
80°	1563	1578	1803
85°	900	1407	1753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	3.1
10°-20°	630.1	9.0
20°-30°	956.1	13.6
30°-40°	1156.1	16.5
40°-50°	1206.3	17.2
50°-60°	1103.0	15.7
60°-70°	859.8	12.2
70°-80°	537.9	7.7
80°-90°	244.3	3.5
90°-100°	81.9	1.2
100°-110°	20.5	0.3
110°-120°	3.2	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°	1806.0	25.7
0°-40°	2962.1	42.2
0°-60°	5271.4	75.1
0°-90°	6913.4	98.5
90°-120°	105.6	1.5
90°-150°	105.6	1.5
90°-180°	106.0	1.5
0°-180°	7019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2322	2322	2322	2322	2322	
5°	2316	2312	2302	2313	2313	220
15°	2228	2232	2226	2239	2238	629
25°	2065	2066	2069	2086	2089	951
35°	1828	1836	1844	1862	1870	1144
45°	1538	1552	1564	1579	1587	1185
55°	1200	1214	1237	1255	1263	1072
65°	825	839	868	902	917	816
75°	418	443	508	569	590	445
85°	72	134	229	303	330	91
90°	0	50	135	203	228	3
95°	0	13	70	127	147	0
105°	1	2	12	34	45	1
115°	2	2	2	6	9	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°	2321.5	2321.5	2321.5	2321.5	2321.5
2.5°	2324.2	2320.9	2310.5	2320.9	2320.4
5°	2316.5	2312.2	2301.8	2312.7	2312.7
7.5°	2301.2	2299.6	2290.3	2302.9	2302.9
10°	2283.2	2282.6	2274.9	2288.6	2289.2
12.5°	2258.0	2260.2	2253.1	2266.2	2267.8
15°	2228.4	2232.3	2226.2	2238.8	2238.3
17.5°	2196.1	2198.3	2194.0	2208.2	2207.6
20°	2156.2	2158.9	2155.6	2170.4	2172.1
22.5°	2111.9	2115.7	2115.1	2130.5	2134.8
25°	2064.8	2066.4	2068.6	2086.1	2089.4
27.5°	2012.8	2015.5	2019.4	2035.2	2038.5
30°	1955.9	1960.3	1964.7	1981.1	1985.4
32.5°	1895.7	1900.1	1905.5	1926.9	1929.1
35°	1827.8	1836.0	1843.7	1862.3	1870.0
37.5°	1760.0	1770.4	1777.5	1797.2	1803.2
40°	1688.3	1698.7	1710.2	1731.0	1734.8
42.5°	1613.3	1625.4	1639.0	1657.6	1664.2
45°	1537.8	1551.5	1564.1	1579.4	1587.0
47.5°	1456.2	1469.9	1485.3	1502.8	1507.7
50°	1372.0	1387.8	1404.3	1420.7	1429.4
52.5°	1285.5	1304.7	1323.3	1340.8	1349.0
55°	1200.1	1214.4	1236.8	1254.9	1263.1
57.5°	1111.5	1123.5	1143.8	1173.3	1177.7
60°	1021.2	1032.1	1052.9	1077.0	1086.9
62.5°	921.6	936.4	958.2	988.9	997.6
65°	824.7	838.9	867.9	902.4	916.7
67.5°	731.1	736.1	773.3	809.4	832.4
70°	620.6	639.2	682.4	726.8	744.3
72.5°	525.4	544.0	591.6	643.6	665.5
75°	417.6	443.3	507.9	568.6	589.9
77.5°	322.9	351.3	431.2	492.5	517.2
80°	225.5	269.8	356.8	425.8	452.6
82.5°	141.7	196.5	289.5	361.7	385.3
85°	72.2	133.5	229.3	303.2	330.0
87.5°	19.2	86.5	178.4	249.0	276.4
90°	0.5	49.8	135.2	203.0	227.7
92.5°	0.5	27.9	100.7	161.4	186.6
95°	0.5	13.1	70.0	127.0	146.7
97.5°	0.5	5.5	48.2	95.8	115.5
100°	0.5	2.7	30.6	69.5	86.5
102.5°	1.1	1.6	19.2	49.8	63.5
105°	1.1	1.6	11.5	33.9	45.4



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CATALOG NUMBER: HVSL12-8-LD4-1STD-40-UNV-O-EDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	2.2	9.3	13.7
115°	1.6	1.6	2.2	6.0	8.8
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°	1.1	1.6	6.6	23.0	31.2
110°	1.6	1.6	3.8	14.2	20.8



(END OF REPORT)