

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: P580271

Luminaire Tested: **HVSL12-8-LD4-1STD-40-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580271
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-90
Description: 8 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 4000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

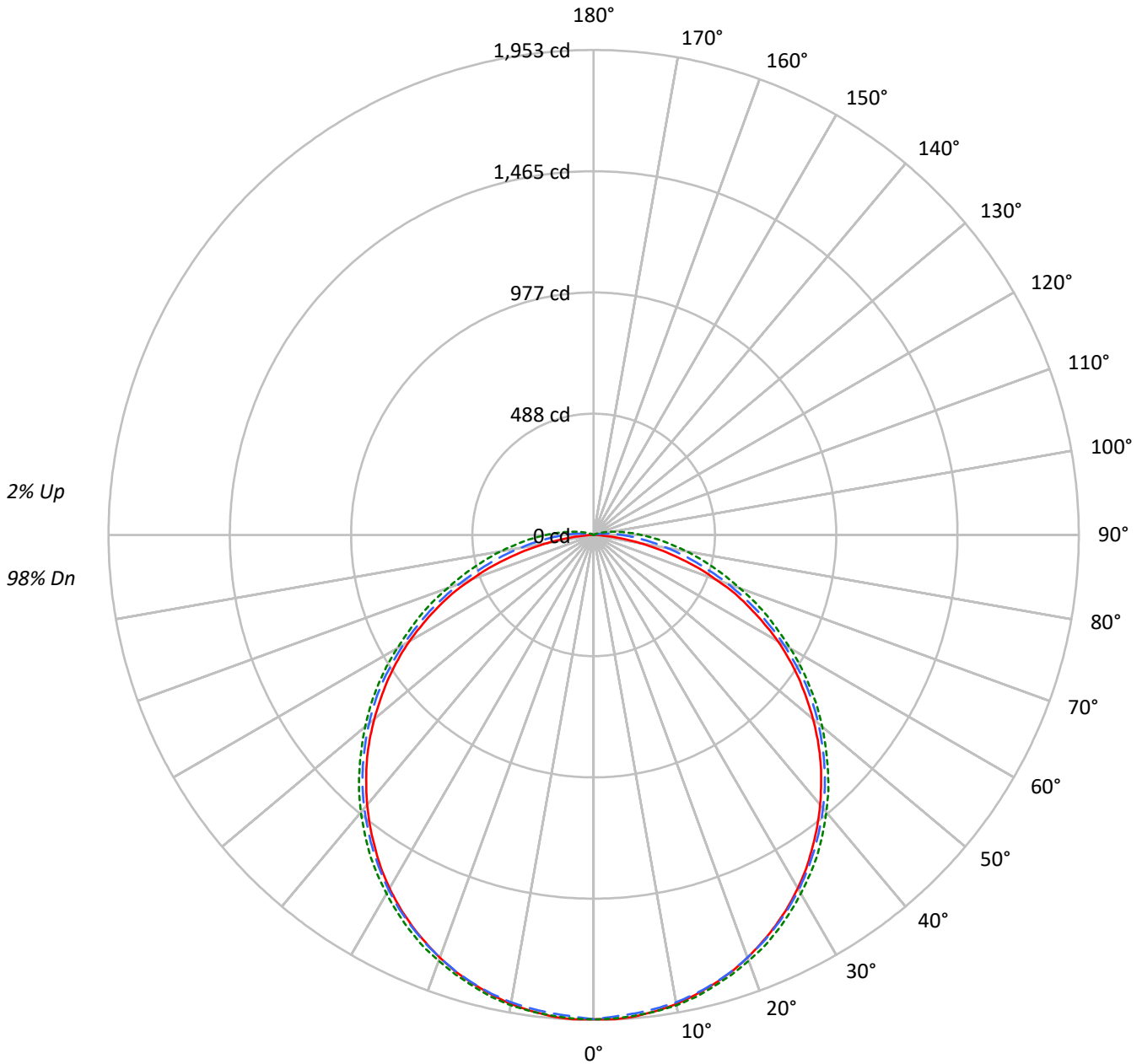
Lumens per Lamp: N/A
Luminaire Lumens: 5897.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 69.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	2624	2624	2624
5°	2624	2582	2587
10°	2611	2552	2553
15°	2593	2516	2507
20°	2574	2474	2463
25°	2551	2430	2418
30°	2523	2382	2364
35°	2486	2328	2311
40°	2448	2271	2246
45°	2408	2208	2175
50°	2354	2133	2097
55°	2297	2049	2011
60°	2228	1936	1907
65°	2112	1808	1806
70°	1940	1653	1687
75°	1692	1484	1588
80°	1312	1326	1514
85°	757	1182	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	3.1
10°-20°	529.4	9.0
20°-30°	803.3	13.6
30°-40°	971.3	16.5
40°-50°	1013.5	17.2
50°-60°	926.6	15.7
60°-70°	722.4	12.2
70°-80°	451.9	7.7
80°-90°	205.2	3.5
90°-100°	68.8	1.2
100°-110°	17.3	0.3
110°-120°	2.7	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°	1517.3	25.7
0°-40°	2488.6	42.2
0°-60°	4428.7	75.1
0°-90°	5808.2	98.5
90°-120°	88.8	1.5
90°-150°	88.8	1.5
90°-180°	89.0	1.5
0°-180°	5897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1946	1943	1934	1943	1943	185
15°	1872	1875	1870	1881	1880	528
25°	1735	1736	1738	1753	1755	799
35°	1536	1542	1549	1565	1571	961
45°	1292	1304	1314	1327	1333	996
55°	1008	1020	1039	1054	1061	901
65°	693	705	729	758	770	686
75°	351	372	427	478	496	374
85°	61	112	193	255	277	77
90°	0	42	114	171	191	2
95°	0	11	59	107	123	0
105°	1	1	10	28	38	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.4	1950.4	1950.4	1950.4	1950.4
2.5°	1952.7	1949.9	1941.2	1949.9	1949.5
5°	1946.2	1942.6	1933.8	1943.0	1943.0
7.5°	1933.4	1932.0	1924.2	1934.7	1934.7
10°	1918.2	1917.7	1911.3	1922.8	1923.2
12.5°	1897.0	1898.9	1892.9	1903.9	1905.3
15°	1872.2	1875.4	1870.4	1880.9	1880.5
17.5°	1845.1	1846.9	1843.2	1855.2	1854.7
20°	1811.5	1813.8	1811.1	1823.5	1824.9
22.5°	1774.3	1777.5	1777.0	1789.9	1793.6
25°	1734.7	1736.1	1738.0	1752.7	1755.4
27.5°	1691.1	1693.4	1696.6	1709.9	1712.7
30°	1643.2	1646.9	1650.6	1664.4	1668.1
32.5°	1592.7	1596.3	1600.9	1618.9	1620.7
35°	1535.7	1542.5	1549.0	1564.6	1571.1
37.5°	1478.6	1487.4	1493.4	1509.9	1515.0
40°	1418.4	1427.1	1436.8	1454.3	1457.5
42.5°	1355.4	1365.5	1377.0	1392.7	1398.2
45°	1292.0	1303.5	1314.0	1326.9	1333.4
47.5°	1223.5	1235.0	1247.8	1262.5	1266.7
50°	1152.7	1166.0	1179.8	1193.6	1200.9
52.5°	1080.0	1096.1	1111.7	1126.5	1133.3
55°	1008.3	1020.2	1039.1	1054.3	1061.2
57.5°	933.8	943.9	960.9	985.8	989.4
60°	857.9	867.1	884.6	904.8	913.1
62.5°	774.3	786.7	805.1	830.8	838.2
65°	692.9	704.8	729.2	758.2	770.1
67.5°	614.3	618.4	649.7	680.0	699.3
70°	521.4	537.0	573.3	610.6	625.3
72.5°	441.4	457.0	497.0	540.7	559.1
75°	350.8	372.4	426.7	477.7	495.6
77.5°	271.3	295.2	362.3	413.8	434.5
80°	189.4	226.7	299.8	357.7	380.2
82.5°	119.1	165.1	243.2	303.9	323.7
85°	60.7	112.2	192.6	254.7	277.2
87.5°	16.1	72.6	149.9	209.2	232.2
90°	0.5	41.8	113.6	170.6	191.3
92.5°	0.5	23.4	84.6	135.6	156.8
95°	0.5	11.0	58.9	106.7	123.2
97.5°	0.5	4.6	40.5	80.5	97.0
100°	0.5	2.3	25.7	58.4	72.6
102.5°	0.9	1.4	16.1	41.8	53.3
105°	0.9	1.4	9.7	28.5	38.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	1.8	7.8	11.5
115°	1.4	1.4	1.8	5.1	7.4
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	1.4	5.5	19.3	26.2
110°	1.4	1.4	3.2	12.0	17.5



(END OF REPORT)