

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: P580819

Luminaire Tested: **HVSL8-8-LD4-1STD-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580819
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: HVSL8-8-LD4-1STD-30-UNV-O-EDD-90
Description: 8 FOOT, 8INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

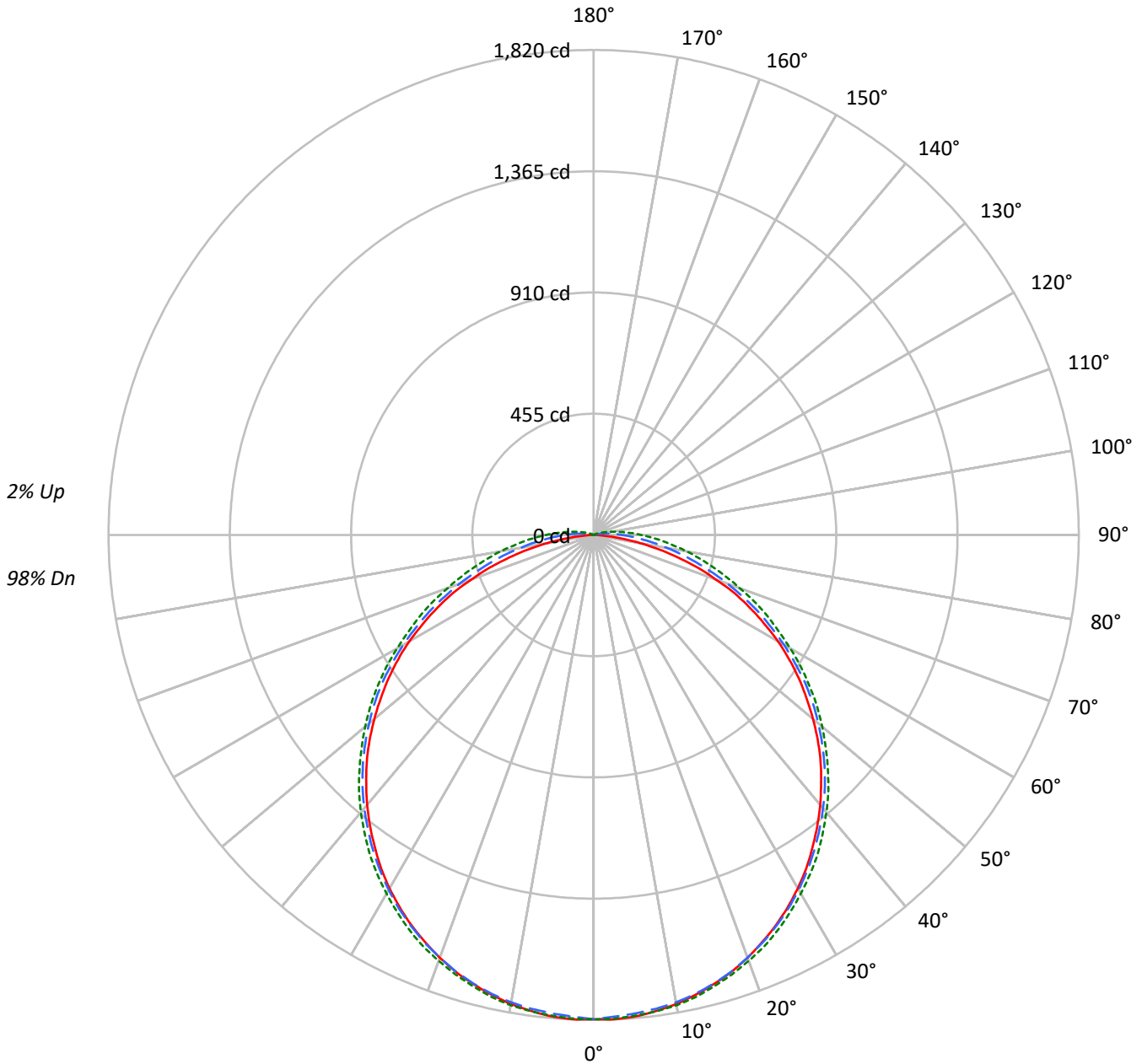
Lumens per Lamp: N/A
Luminaire Lumens: 5496.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 67.2
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

TEST NUMBER: P580819

CATALOG NUMBER: HVSL8-8-LD4-1STD-30-UNV-O-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P580819

CATALOG NUMBER: HVSL8-8-LD4-1STD-30-UNV-O-EDD-90

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°	3669	3669	3669
5°	3668	3591	3590
10°	3650	3531	3518
15°	3626	3464	3432
20°	3599	3389	3348
25°	3566	3311	3263
30°	3527	3228	3166
35°	3475	3136	3070
40°	3423	3039	2958
45°	3367	2934	2837
50°	3291	2811	2708
55°	3211	2676	2564
60°	3115	2499	2397
65°	2952	2300	2231
70°	2712	2066	2039
75°	2366	1808	1863
80°	1835	1556	1703
85°	1059	1303	1551



TEST NUMBER: P580819

CATALOG NUMBER: HVSL8-8-LD4-1STD-30-UNV-O-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.1
10°-20°	493.4	9.0
20°-30°	748.7	13.6
30°-40°	905.3	16.5
40°-50°	944.6	17.2
50°-60°	863.6	15.7
60°-70°	673.2	12.2
70°-80°	421.2	7.7
80°-90°	191.3	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°	1414.1	25.7
0°-40°	2319.4	42.2
0°-60°	4127.6	75.1
0°-90°	5413.3	98.5
90°-120°	82.7	1.5
90°-150°	82.7	1.5
90°-180°	83.0	1.5
0°-180°	5496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1814	1810	1802	1811	1811	172
15°	1745	1748	1743	1753	1753	493
25°	1617	1618	1620	1634	1636	745
35°	1431	1438	1444	1458	1464	896
45°	1204	1215	1225	1237	1243	928
55°	940	951	968	983	989	840
65°	646	657	680	707	718	639
75°	327	347	398	445	462	349
85°	57	105	180	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	0



TEST NUMBER: P580819

CATALOG NUMBER: HVSL8-8-LD4-1STD-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1817.7	1817.7	1817.7	1817.7	1817.7
2.5°	1819.9	1817.3	1809.2	1817.3	1816.9
5°	1813.9	1810.5	1802.3	1810.9	1810.9
7.5°	1801.9	1800.6	1793.3	1803.2	1803.2
10°	1787.7	1787.3	1781.3	1792.0	1792.5
12.5°	1768.0	1769.8	1764.2	1774.5	1775.8
15°	1744.9	1747.9	1743.2	1753.0	1752.6
17.5°	1719.6	1721.3	1717.9	1729.0	1728.6
20°	1688.3	1690.5	1687.9	1699.5	1700.8
22.5°	1653.6	1656.6	1656.2	1668.2	1671.6
25°	1616.8	1618.1	1619.8	1633.5	1636.1
27.5°	1576.1	1578.2	1581.2	1593.6	1596.2
30°	1531.5	1534.9	1538.4	1551.2	1554.6
32.5°	1484.4	1487.8	1492.1	1508.8	1510.5
35°	1431.2	1437.7	1443.7	1458.2	1464.2
37.5°	1378.1	1386.2	1391.8	1407.2	1411.9
40°	1322.0	1330.1	1339.1	1355.4	1358.4
42.5°	1263.3	1272.7	1283.4	1298.0	1303.1
45°	1204.1	1214.8	1224.7	1236.7	1242.7
47.5°	1140.3	1151.0	1163.0	1176.7	1180.5
50°	1074.3	1086.7	1099.6	1112.4	1119.3
52.5°	1006.6	1021.6	1036.1	1049.9	1056.3
55°	939.7	950.9	968.4	982.6	989.0
57.5°	870.3	879.7	895.6	918.7	922.2
60°	799.6	808.2	824.5	843.3	851.0
62.5°	721.6	733.2	750.3	774.3	781.2
65°	645.8	656.9	679.6	706.6	717.8
67.5°	572.5	576.3	605.5	633.8	651.8
70°	485.9	500.5	534.4	569.1	582.8
72.5°	411.4	425.9	463.2	503.9	521.1
75°	327.0	347.1	397.7	445.2	461.9
77.5°	252.8	275.1	337.7	385.7	404.9
80°	176.5	211.3	279.4	333.4	354.4
82.5°	111.0	153.8	226.7	283.2	301.7
85°	56.6	104.6	179.5	237.4	258.4
87.5°	15.0	67.7	139.7	195.0	216.4
90°	0.4	39.0	105.8	159.0	178.3
92.5°	0.4	21.9	78.8	126.4	146.1
95°	0.4	10.3	54.8	99.4	114.8
97.5°	0.4	4.3	37.7	75.0	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	35.6



TEST NUMBER: P580819

CATALOG NUMBER: HVSL8-8-LD4-1STD-30-UNV-O-EDD-90

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)