

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: P520771

Luminaire Tested: **8WSLA-75-L830-UNV-U**

Issue Date: 5/3/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P520771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-75-L830-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

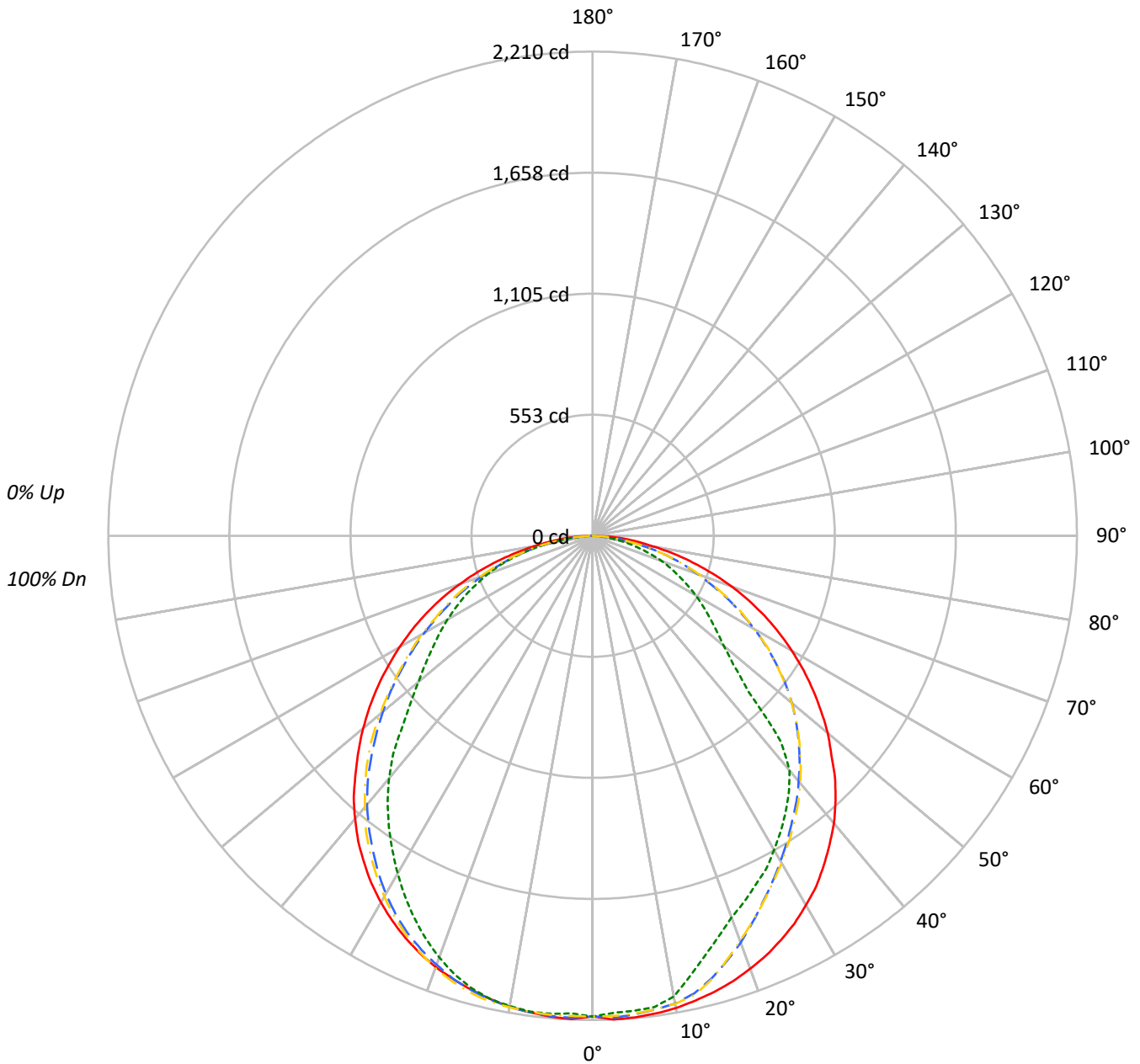
Lumens per Lamp: N/A
Luminaire Lumens: 5885.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 46.6
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				
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	111	111	111	106	106	106	102	102	102	100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5903	5903	5903	5903
5°	5961	5878	5951	5916
10°	5981	5834	5965	5956
15°	6000	5525	5974	5954
20°	6023	5308	5999	5864
25°	6042	5221	6010	5717
30°	6049	5145	6005	5529
35°	6039	5045	5977	5324
40°	6020	4912	5924	5077
45°	5952	3816	5818	4658
50°	5863	3267	5720	4346
55°	5759	3059	5610	4180
60°	5650	2920	5479	4111
65°	5515	2765	5328	4062
70°	5297	2629	5074	4000
75°	4931	2312	4698	3805
80°	4378	1934	4104	3228
85°	4143	1380	3634	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.4	3.5
10°-20°	594.5	10.1
20°-30°	888.4	15.1
30°-40°	1057.5	18.0
40°-50°	1057.0	18.0
50°-60°	909.5	15.5
60°-70°	684.6	11.6
70°-80°	390.1	6.6
80°-90°	95.0	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	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°	1691.3	28.7
0°-40°	2748.8	46.7
0°-60°	4715.4	80.1
0°-90°	5885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5885.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2194	2194	2194	2194	2194	
5°	2207	2176	2203	2190	2207	210
15°	2154	1983	2144	2137	2154	608
25°	2035	1758	2024	1925	2035	938
35°	1838	1536	1820	1621	1838	1150
45°	1564	1003	1529	1224	1564	1205
55°	1228	652	1196	891	1228	1097
65°	866	434	837	638	866	855
75°	474	222	452	366	474	502
85°	134	45	118	60	134	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7
2.5°	2210.2	2190.2	2202.0	2198.4	2179.6	2186.7	2193.7	2186.7	2207.9	2189.0	2202.0
5°	2206.7	2185.5	2192.6	2185.5	2176.1	2178.4	2189.0	2182.0	2203.1	2183.1	2199.6
7.5°	2199.6	2173.7	2180.8	2177.3	2169.0	2170.2	2180.8	2174.9	2193.7	2174.9	2193.7
10°	2189.0	2162.0	2167.8	2152.5	2134.9	2147.8	2169.0	2163.1	2183.1	2162.0	2183.1
12.5°	2172.5	2145.5	2139.6	2089.0	2057.2	2081.9	2146.7	2146.7	2165.5	2145.5	2167.8
15°	2153.7	2124.3	2092.5	2016.0	1983.1	2007.8	2097.2	2127.8	2144.3	2124.3	2146.7
17.5°	2131.4	2097.2	2036.0	1946.6	1916.0	1940.7	2032.5	2099.6	2120.8	2099.6	2119.6
20°	2103.1	2063.1	1976.0	1873.6	1853.6	1876.0	1967.8	2065.5	2094.9	2069.0	2083.1
22.5°	2072.5	2024.3	1908.9	1817.1	1807.7	1821.8	1905.4	2023.1	2061.9	2034.9	2044.3
25°	2034.9	1978.4	1841.8	1765.3	1758.3	1766.5	1844.2	1973.7	2024.3	1996.0	1999.5
27.5°	1994.8	1933.6	1778.3	1721.8	1714.7	1718.3	1783.0	1918.3	1980.7	1952.5	1946.6
30°	1946.6	1880.7	1714.7	1663.0	1655.9	1668.8	1724.2	1861.8	1932.5	1904.2	1886.6
32.5°	1898.3	1823.0	1652.4	1612.3	1598.2	1610.0	1663.0	1803.0	1879.5	1850.1	1820.7
35°	1838.3	1761.8	1587.6	1547.6	1535.8	1548.8	1601.8	1741.8	1819.5	1790.1	1750.0
37.5°	1775.9	1697.1	1528.8	1492.3	1471.1	1486.4	1539.4	1678.3	1757.1	1726.5	1677.1
40°	1713.6	1628.8	1462.9	1425.2	1398.2	1420.5	1474.7	1611.2	1686.5	1658.2	1601.8
42.5°	1640.6	1560.6	1398.2	1345.2	1268.7	1340.5	1405.2	1544.1	1613.5	1586.5	1518.2
45°	1564.1	1487.6	1329.9	1201.6	1002.7	1213.4	1334.6	1473.5	1528.8	1502.9	1428.8
47.5°	1477.0	1412.3	1260.5	1065.1	872.1	1076.9	1262.8	1406.4	1448.8	1420.5	1338.1
50°	1400.5	1337.0	1187.5	949.8	780.3	962.7	1186.3	1331.1	1366.4	1340.5	1248.7
52.5°	1313.4	1258.1	1108.6	847.4	712.0	860.3	1106.3	1253.4	1281.6	1251.0	1159.2
55°	1227.5	1178.1	1025.1	756.7	652.0	768.5	1022.7	1173.4	1195.7	1160.4	1065.1
57.5°	1140.4	1095.7	939.2	675.5	596.7	688.5	945.0	1091.0	1106.3	1061.6	974.5
60°	1049.8	1012.1	852.1	603.7	542.5	614.3	849.7	1008.6	1018.0	969.8	886.2
62.5°	959.2	925.0	765.0	537.8	487.2	544.9	770.9	921.5	927.4	881.5	795.6
65°	866.2	834.4	680.2	468.4	434.3	480.2	686.1	830.9	836.8	785.0	707.3
67.5°	769.7	743.8	589.6	415.4	383.7	419.0	601.4	739.1	742.6	692.0	621.4
70°	673.2	650.8	509.6	357.8	334.2	359.0	517.8	637.9	644.9	590.8	534.3
72.5°	574.3	556.7	431.9	297.8	276.6	297.8	436.6	544.9	549.6	504.9	449.6
75°	474.3	461.3	353.1	238.9	222.4	237.7	355.4	451.9	451.9	409.6	366.0
77.5°	377.8	368.4	270.7	183.6	171.8	181.2	271.9	357.8	355.4	322.5	288.3
80°	282.5	275.4	194.2	133.0	124.8	129.5	194.2	264.8	264.8	241.3	200.1
82.5°	202.4	194.2	128.3	87.1	82.4	84.7	125.9	184.8	188.3	170.6	135.3
85°	134.2	115.3	69.4	48.3	44.7	45.9	65.9	107.1	117.7	98.9	70.6
87.5°	58.8	38.8	17.7	7.1	3.5	4.7	14.1	34.1	44.7	29.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7
2.5°	2200.8	2182.0	2189.0	2193.7	2189.0	2210.2
5°	2198.4	2190.2	2189.0	2194.9	2185.5	2206.7
7.5°	2194.9	2190.2	2189.0	2191.4	2179.6	2199.6
10°	2186.7	2179.6	2182.0	2185.5	2170.2	2189.0
12.5°	2171.4	2164.3	2165.5	2177.3	2156.1	2172.5
15°	2145.5	2137.2	2145.5	2158.4	2139.6	2153.7
17.5°	2111.4	2098.4	2112.5	2132.5	2118.4	2131.4
20°	2067.8	2047.8	2063.1	2099.6	2086.6	2103.1
22.5°	2014.8	1990.1	2005.4	2058.4	2054.9	2072.5
25°	1954.8	1925.4	1946.6	2011.3	2018.4	2034.9
27.5°	1887.7	1854.8	1883.0	1959.5	1976.0	1994.8
30°	1814.8	1779.5	1812.4	1901.9	1926.6	1946.6
32.5°	1739.5	1700.6	1738.3	1837.1	1872.4	1898.3
35°	1660.6	1620.6	1663.0	1770.1	1812.4	1838.3
37.5°	1575.9	1537.0	1582.9	1699.4	1750.0	1775.9
40°	1488.8	1445.2	1497.0	1615.9	1683.0	1713.6
42.5°	1399.3	1345.2	1408.7	1537.0	1610.0	1640.6
45°	1299.3	1224.0	1309.9	1453.5	1530.0	1564.1
47.5°	1199.3	1123.9	1211.0	1364.0	1446.4	1477.0
50°	1102.8	1038.0	1107.5	1266.3	1361.7	1400.5
52.5°	1014.5	961.5	1020.4	1171.0	1274.6	1313.4
55°	932.1	890.9	939.2	1076.9	1182.8	1227.5
57.5°	854.4	828.5	861.5	987.4	1098.0	1140.4
60°	781.5	763.8	787.3	899.1	998.0	1049.8
62.5°	709.7	700.3	717.9	806.2	905.0	959.2
65°	640.2	637.9	647.3	725.0	807.4	866.2
67.5°	570.8	569.6	575.5	639.1	712.0	769.7
70°	501.4	508.4	504.9	546.1	616.7	673.2
72.5°	430.7	441.3	435.5	461.3	529.6	574.3
75°	351.9	366.0	354.2	383.7	426.0	474.3
77.5°	270.7	286.0	271.9	297.8	343.7	377.8
80°	194.2	208.3	196.5	216.5	256.6	282.5
82.5°	122.4	133.0	123.6	143.6	183.6	202.4
85°	54.1	60.0	62.4	77.7	113.0	134.2
87.5°	2.4	1.2	2.4	15.3	40.0	58.8
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)