

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: P520781

Luminaire Tested: **8WSLA-75-L850-UPL15-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: P520781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 8WSLA-75-L850-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

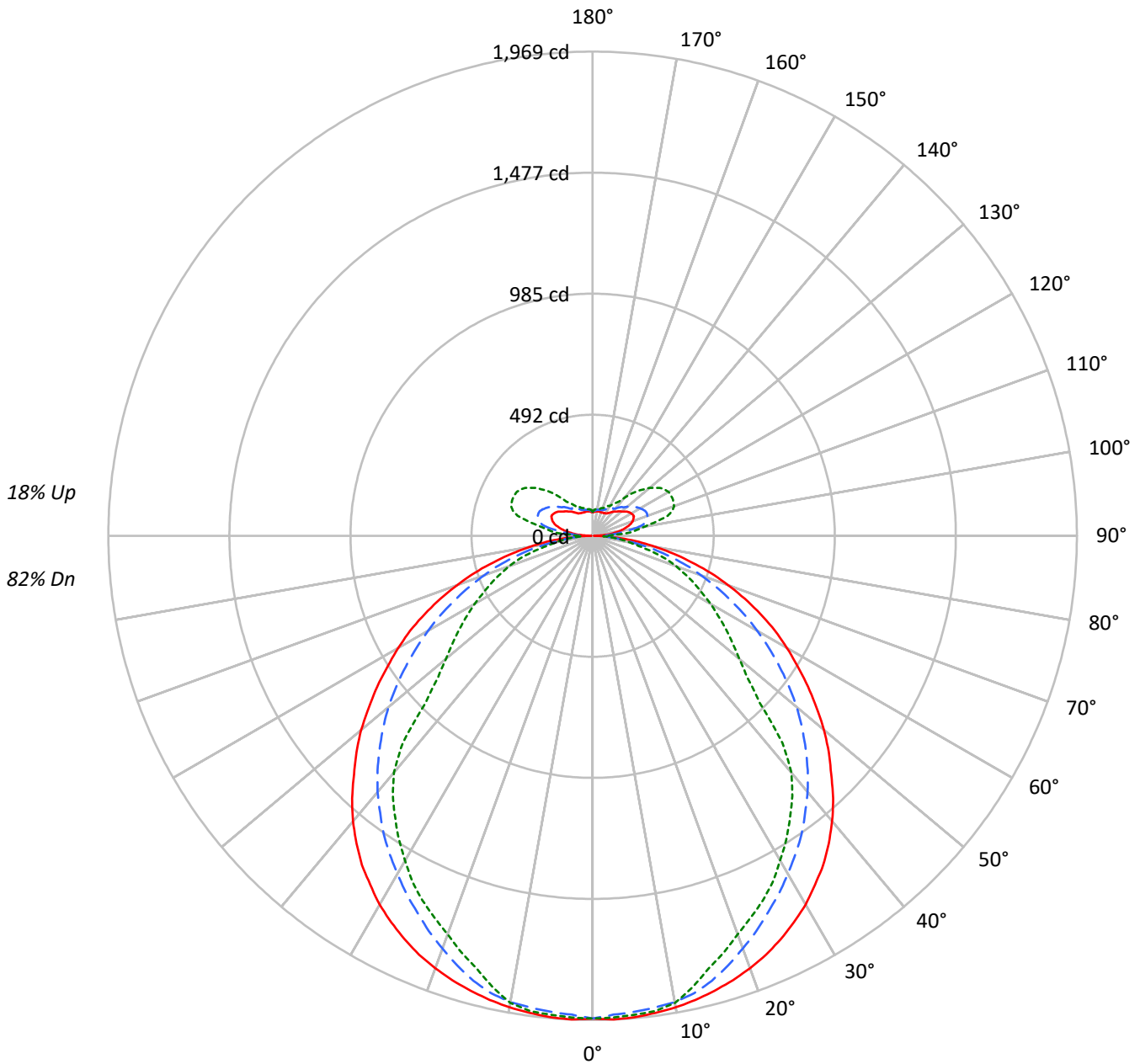
Lumens per Lamp: N/A
Luminaire Lumens: 6358.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5283	5283	5283
5°	5309	5249	5281
10°	5321	5261	5272
15°	5336	5220	5075
20°	5360	5115	4938
25°	5374	5013	4859
30°	5382	4931	4739
35°	5370	4866	4598
40°	5323	4777	4414
45°	5221	4660	3660
50°	5143	4534	3259
55°	5016	4353	3101
60°	4908	4158	2979
65°	4792	3930	2891
70°	4606	3681	2836
75°	4347	3374	2609
80°	3980	2839	2314
85°	3566	2458	2337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	2.9
10°-20°	528.5	8.3
20°-30°	788.8	12.4
30°-40°	939.8	14.8
40°-50°	934.8	14.7
50°-60°	801.2	12.6
60°-70°	603.4	9.5
70°-80°	349.5	5.5
80°-90°	105.0	1.7
90°-100°	112.8	1.8
100°-110°	231.6	3.6
110°-120°	244.8	3.9
120°-130°	204.2	3.2
130°-140°	142.7	2.2
140°-150°	88.8	1.4
150°-160°	55.0	0.9
160°-170°	31.0	0.5
170°-180°	10.0	0.2
0°-30°	1503.4	23.6
0°-40°	2443.2	38.4
0°-60°	4179.2	65.7
0°-90°	5237.1	82.4
90°-120°	589.1	9.3
90°-150°	1024.9	16.1
90°-180°	1121.0	17.6
0°-180°	6358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1963	1963	1963	1963	1963	
5°	1965	1959	1943	1957	1955	187
15°	1915	1913	1874	1842	1822	541
25°	1810	1784	1688	1647	1637	834
35°	1635	1591	1481	1424	1400	1021
45°	1372	1338	1224	1103	962	1061
55°	1069	1053	928	737	661	956
65°	753	735	617	480	454	744
75°	418	404	324	259	251	443
85°	116	102	80	76	76	123
90°	6	28	48	60	64	12
95°	64	86	98	143	155	61
105°	149	155	223	299	317	155
115°	185	157	237	326	358	180
125°	171	151	205	301	338	152
135°	139	151	165	223	257	109
145°	114	131	143	153	163	72
155°	104	110	118	127	129	48
165°	102	106	110	114	114	29
175°	100	102	104	106	108	9
180°	98	98	98	98	98	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1963.2	1963.2	1963.2	1963.2	1963.2
2.5°	1969.1	1965.2	1949.2	1965.2	1961.2
5°	1965.2	1959.2	1943.3	1957.2	1955.2
7.5°	1957.2	1953.2	1935.3	1951.2	1949.2
10°	1947.2	1941.3	1925.3	1937.3	1929.3
12.5°	1933.3	1929.3	1905.4	1895.5	1879.5
15°	1915.4	1913.4	1873.6	1841.7	1821.8
17.5°	1895.5	1887.5	1831.8	1793.9	1776.0
20°	1871.6	1859.6	1786.0	1742.2	1724.2
22.5°	1843.7	1825.8	1740.2	1698.4	1680.4
25°	1809.9	1784.0	1688.4	1646.6	1636.6
27.5°	1772.0	1742.2	1640.6	1598.8	1586.9
30°	1732.2	1694.4	1586.9	1547.0	1525.1
32.5°	1682.4	1646.6	1535.1	1489.3	1465.4
35°	1634.7	1590.8	1481.3	1423.6	1399.7
37.5°	1576.9	1533.1	1419.6	1361.9	1334.0
40°	1515.2	1471.4	1359.9	1292.2	1256.4
42.5°	1447.5	1407.7	1294.2	1212.5	1142.9
45°	1371.8	1338.0	1224.5	1103.0	961.7
47.5°	1302.1	1270.3	1154.8	997.5	852.2
50°	1228.5	1198.6	1083.1	898.0	778.5
52.5°	1146.8	1124.9	1005.5	812.3	716.8
55°	1069.2	1053.3	927.8	736.7	661.0
57.5°	987.6	971.6	850.2	665.0	605.3
60°	911.9	896.0	772.5	601.3	553.5
62.5°	836.2	814.3	696.9	539.6	499.8
65°	752.6	734.7	617.2	479.8	454.0
67.5°	669.0	653.1	543.6	424.1	406.2
70°	585.4	571.4	467.9	370.3	360.4
72.5°	503.7	485.8	400.2	316.6	312.6
75°	418.1	404.2	324.5	258.8	250.9
77.5°	336.5	324.5	254.9	197.1	191.1
80°	256.8	244.9	183.2	143.4	149.3
82.5°	189.1	173.2	123.4	111.5	117.5
85°	115.5	101.5	79.6	75.7	75.7
87.5°	39.8	37.8	35.8	41.8	43.8
90°	6.0	27.9	47.8	59.7	63.7
92.5°	33.8	49.8	65.7	77.7	81.6
95°	63.7	85.6	97.6	143.4	155.3
97.5°	87.6	113.5	127.4	169.2	181.2
100°	111.5	135.4	179.2	201.1	215.0
102.5°	131.4	149.3	211.1	254.9	262.8
105°	149.3	155.3	223.0	298.7	316.6



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CATALOG NUMBER: 8WSLA-75-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	179.2	159.3	238.9	324.5	356.4
115°	185.2	157.3	236.9	326.5	358.4
117.5°	185.2	157.3	231.0	326.5	358.4
120°	181.2	159.3	223.0	322.5	356.4
122.5°	177.2	155.3	215.0	314.6	348.4
125°	171.2	151.3	205.1	300.6	338.5
127.5°	161.3	155.3	195.1	282.7	320.6
130°	153.3	157.3	183.2	264.8	302.6
132.5°	147.3	153.3	171.2	244.9	278.7
135°	139.4	151.3	165.3	223.0	256.8
137.5°	133.4	145.3	155.3	203.1	231.0
140°	127.4	141.4	145.3	177.2	201.1
142.5°	119.5	135.4	137.4	165.3	175.2
145°	113.5	131.4	143.4	153.3	163.3
147.5°	107.5	123.4	139.4	141.4	151.3
150°	105.5	115.5	133.4	135.4	139.4
152.5°	103.5	111.5	123.4	135.4	137.4
155°	103.5	109.5	117.5	127.4	129.4
157.5°	101.5	109.5	113.5	121.5	123.4
160°	101.5	107.5	111.5	117.5	119.5
162.5°	101.5	107.5	109.5	115.5	117.5
165°	101.5	105.5	109.5	113.5	113.5
167.5°	101.5	105.5	107.5	111.5	111.5
170°	101.5	103.5	107.5	109.5	109.5
172.5°	99.6	103.5	105.5	109.5	109.5
175°	99.6	101.5	103.5	105.5	107.5
177.5°	95.6	101.5	103.5	105.5	103.5
180°	97.6	97.6	97.6	97.6	97.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	163.3	157.3	231.0	314.6	340.5
110°	173.2	159.3	236.9	320.6	352.4



(END OF REPORT)