

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: P520775

Luminaire Tested: **8WSLA-75-L835-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: P520775
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-L835-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

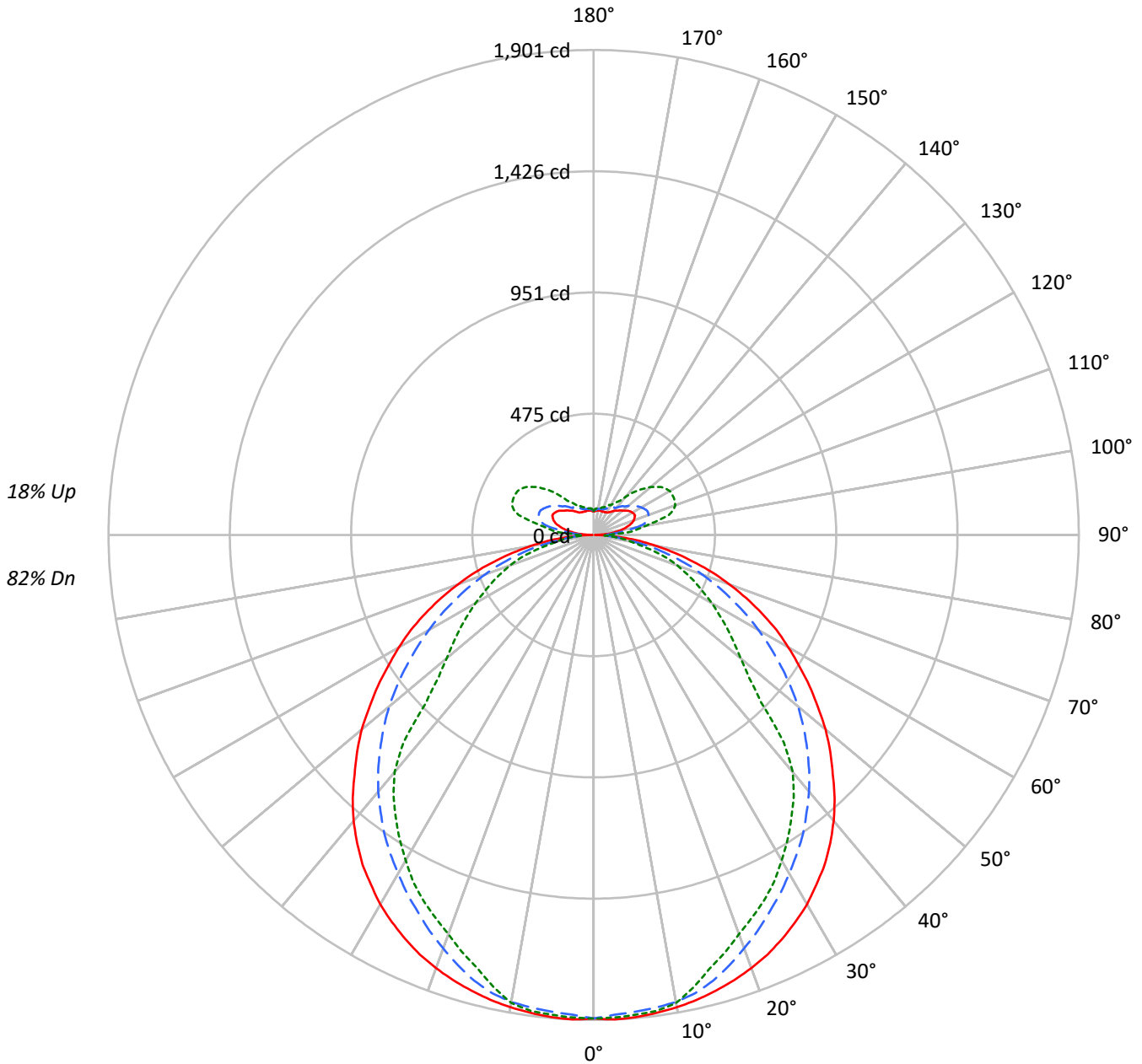
Lumens per Lamp: N/A
Luminaire Lumens: 6139.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
Input Voltage (V): NR
Input Current (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	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°	5101	5101	5101
5°	5126	5068	5100
10°	5138	5080	5090
15°	5152	5040	4901
20°	5175	4938	4768
25°	5189	4841	4692
30°	5197	4761	4576
35°	5185	4699	4440
40°	5139	4612	4261
45°	5041	4499	3534
50°	4966	4378	3147
55°	4844	4203	2995
60°	4739	4014	2876
65°	4627	3795	2791
70°	4447	3555	2738
75°	4197	3258	2518
80°	3843	2741	2235
85°	3443	2374	2257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	2.9
10°-20°	510.3	8.3
20°-30°	761.6	12.4
30°-40°	907.5	14.8
40°-50°	902.6	14.7
50°-60°	773.6	12.6
60°-70°	582.6	9.5
70°-80°	337.4	5.5
80°-90°	101.4	1.7
90°-100°	108.9	1.8
100°-110°	223.6	3.6
110°-120°	236.4	3.9
120°-130°	197.2	3.2
130°-140°	137.8	2.2
140°-150°	85.7	1.4
150°-160°	53.2	0.9
160°-170°	29.9	0.5
170°-180°	9.7	0.2
0°-30°	1451.6	23.6
0°-40°	2359.0	38.4
0°-60°	4035.3	65.7
0°-90°	5056.7	82.4
90°-120°	568.9	9.3
90°-150°	989.6	16.1
90°-180°	1082.0	17.6
0°-180°	6139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1898	1892	1876	1890	1888	181
15°	1849	1848	1809	1778	1759	523
25°	1748	1722	1630	1590	1580	806
35°	1578	1536	1430	1375	1352	986
45°	1325	1292	1182	1065	929	1024
55°	1032	1017	896	711	638	923
65°	727	709	596	463	438	718
75°	404	390	313	250	242	428
85°	112	98	77	73	73	119
90°	6	27	46	58	62	11
95°	62	83	94	138	150	59
105°	144	150	215	288	306	150
115°	179	152	229	315	346	174
125°	165	146	198	290	327	147
135°	135	146	160	215	248	105
145°	110	127	138	148	158	70
155°	100	106	113	123	125	46
165°	98	102	106	110	110	28
175°	96	98	100	102	104	9
180°	94	94	94	94	94	



TEST NUMBER: P520775

CATALOG NUMBER: 8WSLA-75-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1895.6	1895.6	1895.6	1895.6	1895.6
2.5°	1901.3	1897.5	1882.1	1897.5	1893.6
5°	1897.5	1891.7	1876.3	1889.8	1887.9
7.5°	1889.8	1885.9	1868.6	1884.0	1882.1
10°	1880.2	1874.4	1859.0	1870.6	1862.9
12.5°	1866.7	1862.9	1839.8	1830.2	1814.8
15°	1849.4	1847.5	1809.0	1778.3	1759.1
17.5°	1830.2	1822.5	1768.7	1732.1	1714.8
20°	1807.1	1795.6	1724.5	1682.2	1664.9
22.5°	1780.2	1762.9	1680.2	1639.9	1622.6
25°	1747.5	1722.5	1630.3	1589.9	1580.3
27.5°	1711.0	1682.2	1584.1	1543.7	1532.2
30°	1672.5	1636.0	1532.2	1493.8	1472.6
32.5°	1624.5	1589.9	1482.2	1438.0	1414.9
35°	1578.3	1536.1	1430.3	1374.6	1351.5
37.5°	1522.6	1480.3	1370.7	1315.0	1288.1
40°	1463.0	1420.7	1313.0	1247.7	1213.1
42.5°	1397.6	1359.2	1249.6	1170.8	1103.5
45°	1324.6	1291.9	1182.3	1065.0	928.6
47.5°	1257.3	1226.5	1115.0	963.2	822.8
50°	1186.2	1157.3	1045.8	867.0	751.7
52.5°	1107.3	1086.2	970.8	784.4	692.1
55°	1032.4	1017.0	895.9	711.3	638.3
57.5°	953.5	938.2	820.9	642.1	584.4
60°	880.5	865.1	745.9	580.6	534.4
62.5°	807.4	786.3	672.9	521.0	482.5
65°	726.7	709.4	596.0	463.3	438.3
67.5°	645.9	630.6	524.8	409.5	392.2
70°	565.2	551.7	451.8	357.6	348.0
72.5°	486.4	469.1	386.4	305.7	301.8
75°	403.7	390.3	313.4	249.9	242.2
77.5°	324.9	313.4	246.1	190.3	184.6
80°	248.0	236.5	176.9	138.4	144.2
82.5°	182.6	167.3	119.2	107.7	113.4
85°	111.5	98.0	76.9	73.1	73.1
87.5°	38.4	36.5	34.6	40.4	42.3
90°	5.8	26.9	46.1	57.7	61.5
92.5°	32.7	48.1	63.4	75.0	78.8
95°	61.5	82.7	94.2	138.4	150.0
97.5°	84.6	109.6	123.0	163.4	174.9
100°	107.7	130.7	173.0	194.2	207.6
102.5°	126.9	144.2	203.8	246.1	253.8
105°	144.2	150.0	215.3	288.4	305.7



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CATALOG NUMBER: 8WSLA-75-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.0	153.8	230.7	313.4	344.1
115°	178.8	151.9	228.8	315.3	346.0
117.5°	178.8	151.9	223.0	315.3	346.0
120°	174.9	153.8	215.3	311.4	344.1
122.5°	171.1	150.0	207.6	303.7	336.4
125°	165.3	146.1	198.0	290.3	326.8
127.5°	155.7	150.0	188.4	273.0	309.5
130°	148.0	151.9	176.9	255.7	292.2
132.5°	142.3	148.0	165.3	236.5	269.1
135°	134.6	146.1	159.6	215.3	248.0
137.5°	128.8	140.3	150.0	196.1	223.0
140°	123.0	136.5	140.3	171.1	194.2
142.5°	115.3	130.7	132.7	159.6	169.2
145°	109.6	126.9	138.4	148.0	157.6
147.5°	103.8	119.2	134.6	136.5	146.1
150°	101.9	111.5	128.8	130.7	134.6
152.5°	100.0	107.7	119.2	130.7	132.7
155°	100.0	105.7	113.4	123.0	125.0
157.5°	98.0	105.7	109.6	117.3	119.2
160°	98.0	103.8	107.7	113.4	115.3
162.5°	98.0	103.8	105.7	111.5	113.4
165°	98.0	101.9	105.7	109.6	109.6
167.5°	98.0	101.9	103.8	107.7	107.7
170°	98.0	100.0	103.8	105.7	105.7
172.5°	96.1	100.0	101.9	105.7	105.7
175°	96.1	98.0	100.0	101.9	103.8
177.5°	92.3	98.0	100.0	101.9	100.0
180°	94.2	94.2	94.2	94.2	94.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	157.6	151.9	223.0	303.7	328.7
110°	167.3	153.8	228.8	309.5	340.3



(END OF REPORT)