

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: P520772

Luminaire Tested: **8WSLA-75-L830-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: P520772  
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-L830-UPL15-UNV-U  
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

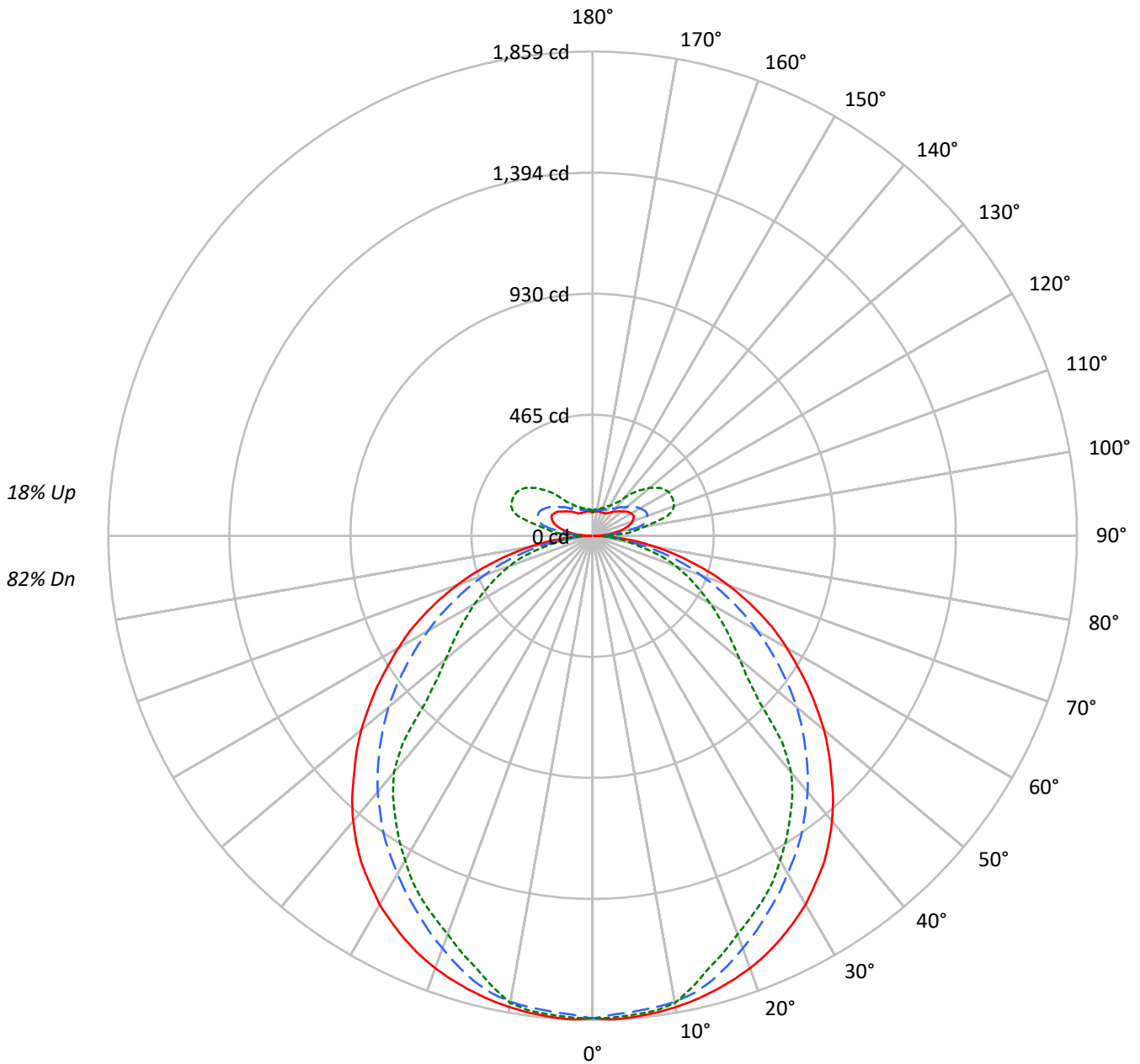
Lumens per Lamp: N/A  
Luminaire Lumens: 6000.9 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 46.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P520772

CATALOG NUMBER: 8WSLA-75-L830-UPL15-UNV-U

### 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°	4986	4986	4986
5°	5010	4954	4985
10°	5022	4965	4976
15°	5036	4927	4790
20°	5059	4827	4660
25°	5072	4732	4586
30°	5080	4654	4473
35°	5069	4593	4340
40°	5024	4509	4166
45°	4928	4398	3454
50°	4854	4280	3076
55°	4735	4108	2927
60°	4632	3924	2812
65°	4523	3710	2728
70°	4347	3474	2676
75°	4103	3185	2462
80°	3756	2679	2183
85°	3365	2322	2205



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.6	2.9
10°-20°	498.8	8.3
20°-30°	744.5	12.4
30°-40°	887.1	14.8
40°-50°	882.3	14.7
50°-60°	756.2	12.6
60°-70°	569.5	9.5
70°-80°	329.8	5.5
80°-90°	99.1	1.7
90°-100°	106.4	1.8
100°-110°	218.5	3.6
110°-120°	231.1	3.9
120°-130°	192.8	3.2
130°-140°	134.7	2.2
140°-150°	83.8	1.4
150°-160°	52.0	0.9
160°-170°	29.3	0.5
170°-180°	9.4	0.2
0°-30°	1418.9	23.6
0°-40°	2306.0	38.4
0°-60°	3944.5	65.7
0°-90°	4943.0	82.4
90°-120°	556.0	9.3
90°-150°	967.3	16.1
90°-180°	1058.0	17.6
0°-180°	6000.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1853	1853	1853	1853	1853	
5°	1855	1849	1834	1847	1845	176
15°	1808	1806	1768	1738	1720	511
25°	1708	1684	1594	1554	1545	788
35°	1543	1502	1398	1344	1321	964
45°	1295	1263	1156	1041	908	1001
55°	1009	994	876	695	624	902
65°	710	693	583	453	428	702
75°	395	382	306	244	237	418
85°	109	96	75	71	71	116
90°	6	26	45	56	60	11
95°	60	81	92	135	147	57
105°	141	147	210	282	299	146
115°	175	148	224	308	338	170
125°	162	143	194	284	320	144
135°	132	143	156	210	242	103
145°	107	124	135	145	154	68
155°	98	103	111	120	122	45
165°	96	100	103	107	107	27
175°	94	96	98	100	102	9
180°	92	92	92	92	92	



TEST NUMBER: P520772

CATALOG NUMBER: 8WSLA-75-L830-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1852.9	1852.9	1852.9	1852.9	1852.9
2.5°	1858.6	1854.8	1839.8	1854.8	1851.1
5°	1854.8	1849.2	1834.1	1847.3	1845.4
7.5°	1847.3	1843.5	1826.6	1841.7	1839.8
10°	1837.9	1832.3	1817.2	1828.5	1821.0
12.5°	1824.8	1821.0	1798.4	1789.0	1774.0
15°	1807.8	1806.0	1768.4	1738.3	1719.5
17.5°	1789.0	1781.5	1728.9	1693.2	1676.3
20°	1766.5	1755.2	1685.7	1644.3	1627.4
22.5°	1740.2	1723.3	1642.5	1603.0	1586.1
25°	1708.2	1683.8	1593.6	1554.1	1544.7
27.5°	1672.5	1644.3	1548.5	1509.0	1497.8
30°	1634.9	1599.2	1497.8	1460.2	1439.5
32.5°	1588.0	1554.1	1448.9	1405.7	1383.1
35°	1542.9	1501.5	1398.2	1343.7	1321.1
37.5°	1488.4	1447.0	1339.9	1285.4	1259.1
40°	1430.1	1388.8	1283.5	1219.6	1185.8
42.5°	1366.2	1328.6	1221.5	1144.5	1078.7
45°	1294.8	1262.9	1155.7	1041.1	907.7
47.5°	1229.0	1199.0	1090.0	941.5	804.3
50°	1159.5	1131.3	1022.3	847.5	734.8
52.5°	1082.4	1061.8	949.0	766.7	676.5
55°	1009.2	994.1	875.7	695.3	623.9
57.5°	932.1	917.1	802.4	627.7	571.3
60°	860.7	845.7	729.1	567.5	522.4
62.5°	789.3	768.6	657.7	509.3	471.7
65°	710.4	693.4	582.6	452.9	428.5
67.5°	631.4	616.4	513.0	400.3	383.4
70°	552.5	539.3	441.6	349.5	340.1
72.5°	475.5	458.5	377.7	298.8	295.0
75°	394.6	381.5	306.3	244.3	236.8
77.5°	317.6	306.3	240.5	186.0	180.4
80°	242.4	231.1	172.9	135.3	140.9
82.5°	178.5	163.5	116.5	105.2	110.9
85°	109.0	95.8	75.2	71.4	71.4
87.5°	37.6	35.7	33.8	39.5	41.3
90°	5.6	26.3	45.1	56.4	60.1
92.5°	31.9	47.0	62.0	73.3	77.0
95°	60.1	80.8	92.1	135.3	146.6
97.5°	82.7	107.1	120.3	159.7	171.0
100°	105.2	127.8	169.1	189.8	203.0
102.5°	124.0	140.9	199.2	240.5	248.1
105°	140.9	146.6	210.5	281.9	298.8



TEST NUMBER: P520772

CATALOG NUMBER: 8WSLA-75-L830-UPL15-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	169.1	150.3	225.5	306.3	336.4
115°	174.8	148.5	223.6	308.2	338.3
117.5°	174.8	148.5	218.0	308.2	338.3
120°	171.0	150.3	210.5	304.4	336.4
122.5°	167.3	146.6	203.0	296.9	328.9
125°	161.6	142.8	193.6	283.8	319.5
127.5°	152.2	146.6	184.2	266.9	302.6
130°	144.7	148.5	172.9	249.9	285.6
132.5°	139.1	144.7	161.6	231.1	263.1
135°	131.5	142.8	156.0	210.5	242.4
137.5°	125.9	137.2	146.6	191.7	218.0
140°	120.3	133.4	137.2	167.3	189.8
142.5°	112.8	127.8	129.7	156.0	165.4
145°	107.1	124.0	135.3	144.7	154.1
147.5°	101.5	116.5	131.5	133.4	142.8
150°	99.6	109.0	125.9	127.8	131.5
152.5°	97.7	105.2	116.5	127.8	129.7
155°	97.7	103.4	110.9	120.3	122.2
157.5°	95.8	103.4	107.1	114.6	116.5
160°	95.8	101.5	105.2	110.9	112.8
162.5°	95.8	101.5	103.4	109.0	110.9
165°	95.8	99.6	103.4	107.1	107.1
167.5°	95.8	99.6	101.5	105.2	105.2
170°	95.8	97.7	101.5	103.4	103.4
172.5°	94.0	97.7	99.6	103.4	103.4
175°	94.0	95.8	97.7	99.6	101.5
177.5°	90.2	95.8	97.7	99.6	97.7
180°	92.1	92.1	92.1	92.1	92.1



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	154.1	148.5	218.0	296.9	321.4
110°	163.5	150.3	223.6	302.6	332.6



(END OF REPORT)