

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: P520773

Luminaire Tested: **8WSLA-75-L830-UPL8-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: P520773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 8WSLA-75-L830-UPL8-UNV-U  
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

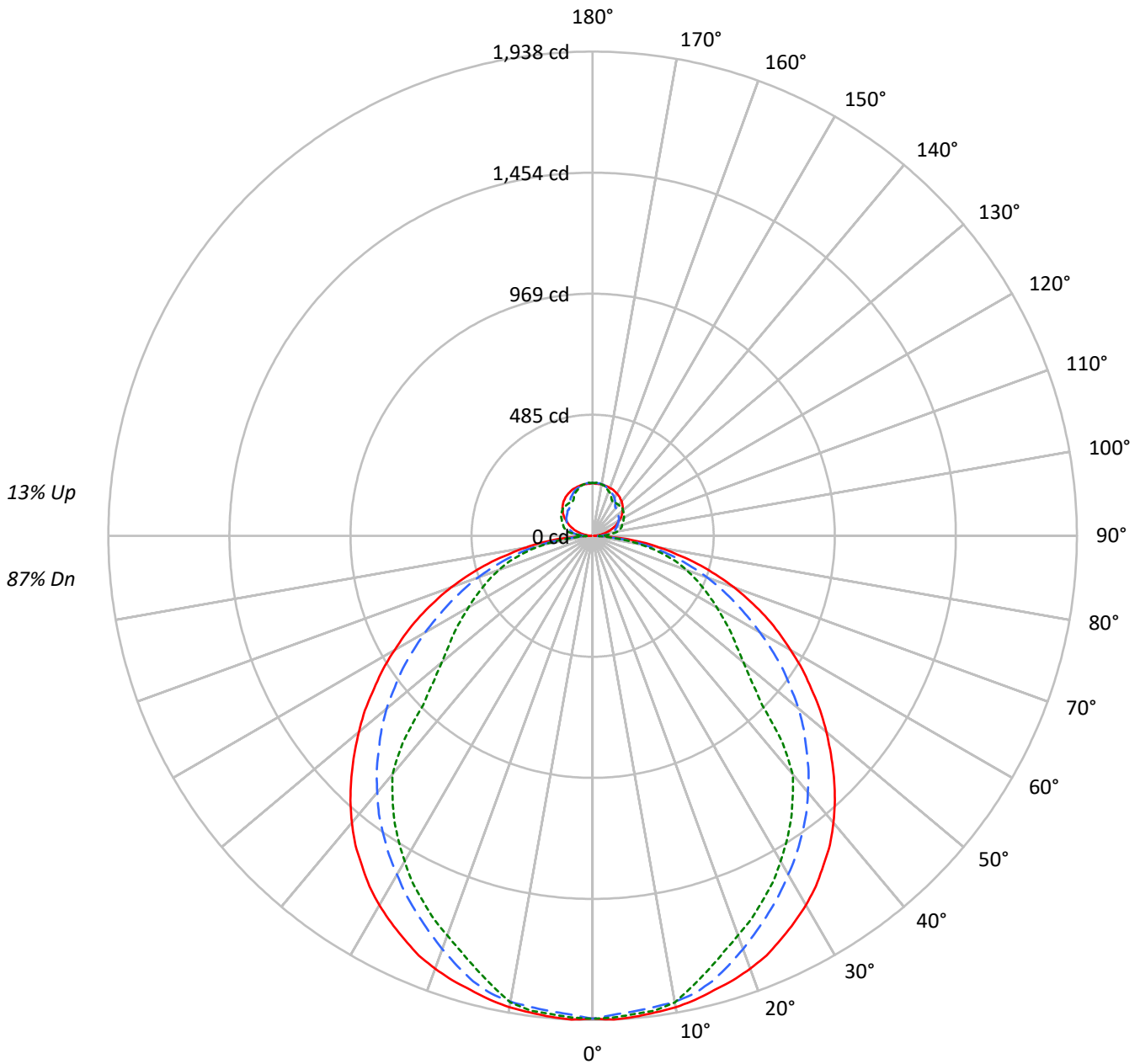
Lumens per Lamp: N/A  
Luminaire Lumens: 6015.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5201	5201	5201
5°	5221	5161	5191
10°	5236	5175	5182
15°	5245	5144	5005
20°	5280	5041	4874
25°	5293	4946	4781
30°	5306	4865	4675
35°	5290	4796	4550
40°	5265	4709	4377
45°	5196	4604	3651
50°	5111	4505	3295
55°	5010	4358	3171
60°	4924	4161	3083
65°	4852	3984	3081
70°	4726	3829	3129
75°	4510	3643	3151
80°	4223	3276	2930
85°	3863	2319	1976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.0	3.0
10°-20°	520.2	8.6
20°-30°	777.3	12.9
30°-40°	927.8	15.4
40°-50°	927.9	15.4
50°-60°	803.1	13.4
60°-70°	616.4	10.2
70°-80°	377.7	6.3
80°-90°	106.3	1.8
90°-100°	60.1	1.0
100°-110°	95.4	1.6
110°-120°	111.5	1.9
120°-130°	120.4	2.0
130°-140°	118.6	2.0
140°-150°	104.9	1.7
150°-160°	86.4	1.4
160°-170°	57.8	1.0
170°-180°	20.1	0.3
0°-30°	1480.4	24.6
0°-40°	2408.3	40.0
0°-60°	4139.3	68.8
0°-90°	5239.7	87.1
90°-120°	267.0	4.4
90°-150°	611.0	10.2
90°-180°	775.0	12.9
0°-180°	6015.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1933	1933	1933	1933	1933	
5°	1933	1927	1910	1924	1922	184
15°	1883	1880	1847	1813	1796	533
25°	1783	1760	1666	1621	1610	822
35°	1610	1568	1460	1407	1385	1008
45°	1365	1326	1210	1101	959	1053
55°	1068	1043	929	742	676	957
65°	762	734	626	503	484	753
75°	434	412	350	303	303	458
85°	125	103	75	64	64	131
90°	6	20	31	39	42	9
95°	22	47	64	67	67	22
105°	64	67	95	111	117	67
115°	106	89	111	128	136	103
125°	142	114	128	147	153	126
135°	170	153	142	156	164	131
145°	189	181	158	156	161	118
155°	200	197	186	178	175	92
165°	206	209	203	203	203	58
175°	209	211	211	214	214	20
180°	211	211	211	211	211	



TEST NUMBER: P520773

CATALOG NUMBER: 8WSLA-75-L830-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1932.8	1932.8	1932.8	1932.8	1932.8
2.5°	1938.3	1932.8	1918.9	1932.8	1930.0
5°	1932.8	1927.2	1910.5	1924.4	1921.6
7.5°	1924.4	1918.9	1902.2	1918.9	1916.1
10°	1916.1	1910.5	1893.8	1905.0	1896.6
12.5°	1902.2	1896.6	1877.1	1863.2	1846.6
15°	1882.7	1879.9	1846.6	1813.2	1796.5
17.5°	1866.0	1857.7	1804.8	1765.9	1746.4
20°	1843.8	1829.9	1760.3	1715.8	1701.9
22.5°	1818.7	1796.5	1713.1	1671.4	1660.2
25°	1782.6	1760.3	1665.8	1621.3	1610.2
27.5°	1746.4	1718.6	1618.5	1574.0	1562.9
30°	1707.5	1668.6	1565.7	1524.0	1504.5
32.5°	1663.0	1624.1	1515.6	1468.3	1446.1
35°	1610.2	1568.5	1460.0	1407.2	1384.9
37.5°	1560.1	1515.6	1404.4	1346.0	1315.4
40°	1498.9	1454.4	1340.4	1276.5	1245.9
42.5°	1435.0	1393.3	1279.2	1201.4	1126.3
45°	1365.4	1326.5	1209.7	1101.3	959.4
47.5°	1293.1	1259.8	1145.8	998.4	862.1
50°	1220.8	1187.5	1076.2	901.0	787.0
52.5°	1148.5	1120.7	998.4	820.4	725.8
55°	1067.9	1042.9	928.8	742.5	675.8
57.5°	995.6	970.6	848.2	678.6	622.9
60°	914.9	892.7	773.1	614.6	572.9
62.5°	839.8	814.8	698.0	559.0	528.4
65°	762.0	734.2	625.7	503.4	483.9
67.5°	681.3	653.5	556.2	453.3	442.2
70°	600.7	578.4	486.7	403.2	397.7
72.5°	517.3	492.2	417.1	356.0	356.0
75°	433.8	411.6	350.4	303.1	303.1
77.5°	347.6	336.5	280.9	247.5	250.3
80°	272.5	258.6	211.4	189.1	189.1
82.5°	200.2	183.5	141.8	125.1	130.7
85°	125.1	102.9	75.1	64.0	64.0
87.5°	38.9	30.6	22.2	25.0	25.0
90°	5.6	19.5	30.6	38.9	41.7
92.5°	13.9	36.2	44.5	52.8	55.6
95°	22.2	47.3	64.0	66.7	66.7
97.5°	30.6	52.8	77.9	89.0	89.0
100°	41.7	55.6	83.4	100.1	102.9
102.5°	52.8	61.2	89.0	105.7	111.2
105°	64.0	66.7	94.6	111.2	116.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	94.6	83.4	105.7	125.1	130.7
115°	105.7	89.0	111.2	127.9	136.3
117.5°	114.0	97.3	116.8	133.5	139.0
120°	122.4	102.9	119.6	139.0	144.6
122.5°	133.5	108.5	125.1	141.8	150.2
125°	141.8	114.0	127.9	147.4	153.0
127.5°	150.2	125.1	130.7	150.2	155.7
130°	155.7	136.3	133.5	153.0	158.5
132.5°	164.1	144.6	136.3	155.7	161.3
135°	169.6	153.0	141.8	155.7	164.1
137.5°	175.2	161.3	141.8	155.7	161.3
140°	180.8	169.6	144.6	155.7	161.3
142.5°	183.5	175.2	147.4	155.7	161.3
145°	189.1	180.8	158.5	155.7	161.3
147.5°	191.9	186.3	166.9	155.7	161.3
150°	194.7	191.9	175.2	158.5	158.5
152.5°	197.4	194.7	180.8	169.6	164.1
155°	200.2	197.4	186.3	178.0	175.2
157.5°	203.0	203.0	191.9	186.3	183.5
160°	203.0	205.8	197.4	191.9	189.1
162.5°	205.8	208.6	200.2	197.4	194.7
165°	205.8	208.6	203.0	203.0	203.0
167.5°	208.6	211.4	208.6	205.8	205.8
170°	208.6	211.4	208.6	208.6	208.6
172.5°	208.6	211.4	211.4	211.4	211.4
175°	208.6	211.4	211.4	214.1	214.1
177.5°	208.6	211.4	211.4	211.4	211.4
180°	211.4	211.4	211.4	211.4	211.4



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	75.1	72.3	97.3	116.8	122.4
110°	83.4	77.9	102.9	119.6	125.1



(END OF REPORT)