

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: CORELITE

Report Number: P520773

Luminaire Tested: **8WSLA-75-L830-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

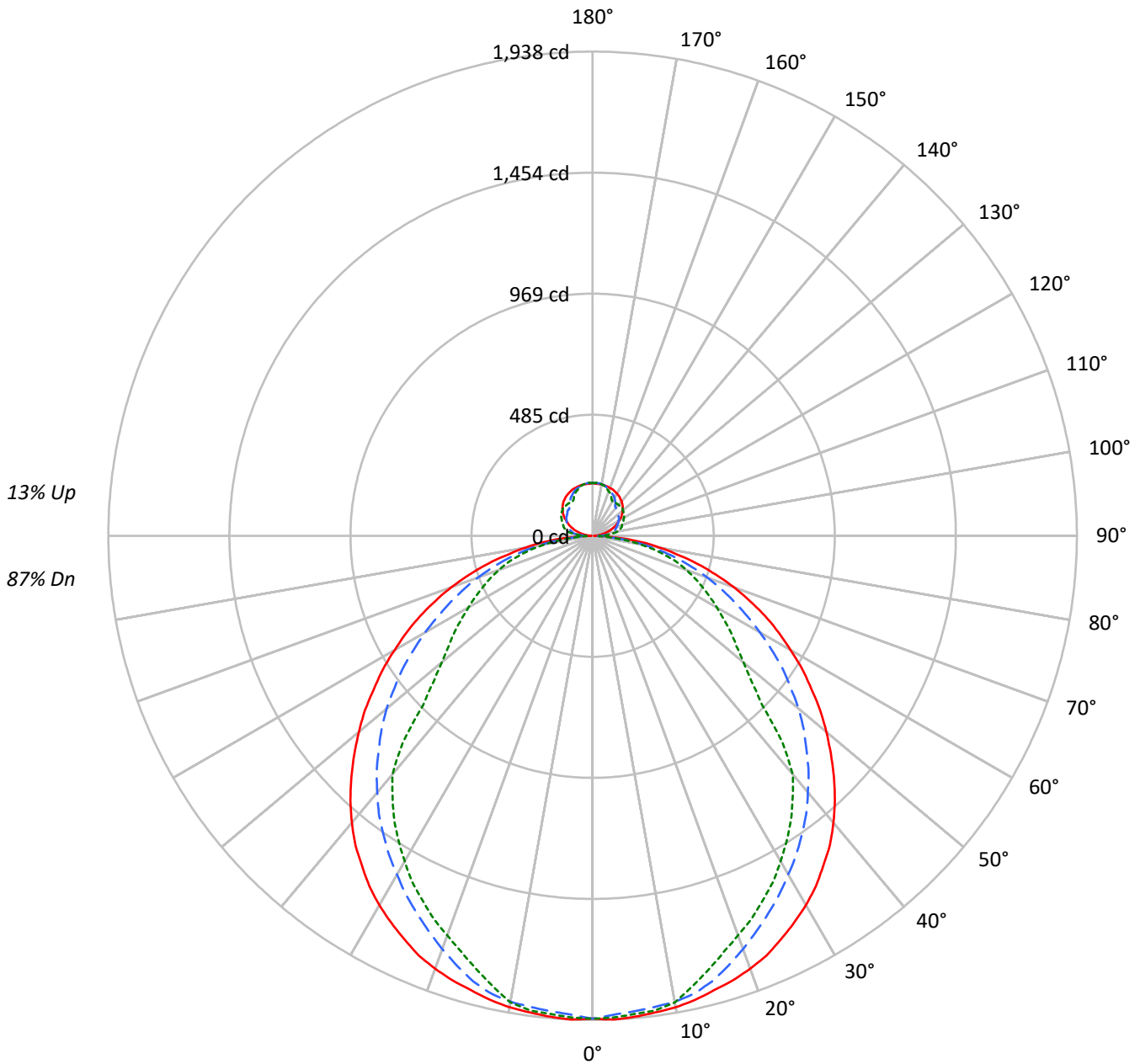
Test Method: LM-79-08  
Report Number: P520773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 8WSLA-75-L830-UPL8-UNV-U  
Description: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

**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



TEST NUMBER: P520773

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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)