

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: P520781

Luminaire Tested: **8WSLA-75-L850-UPL15-UNV-U**

Issue Date: 5/3/2021



**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: CORELITE  
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: -

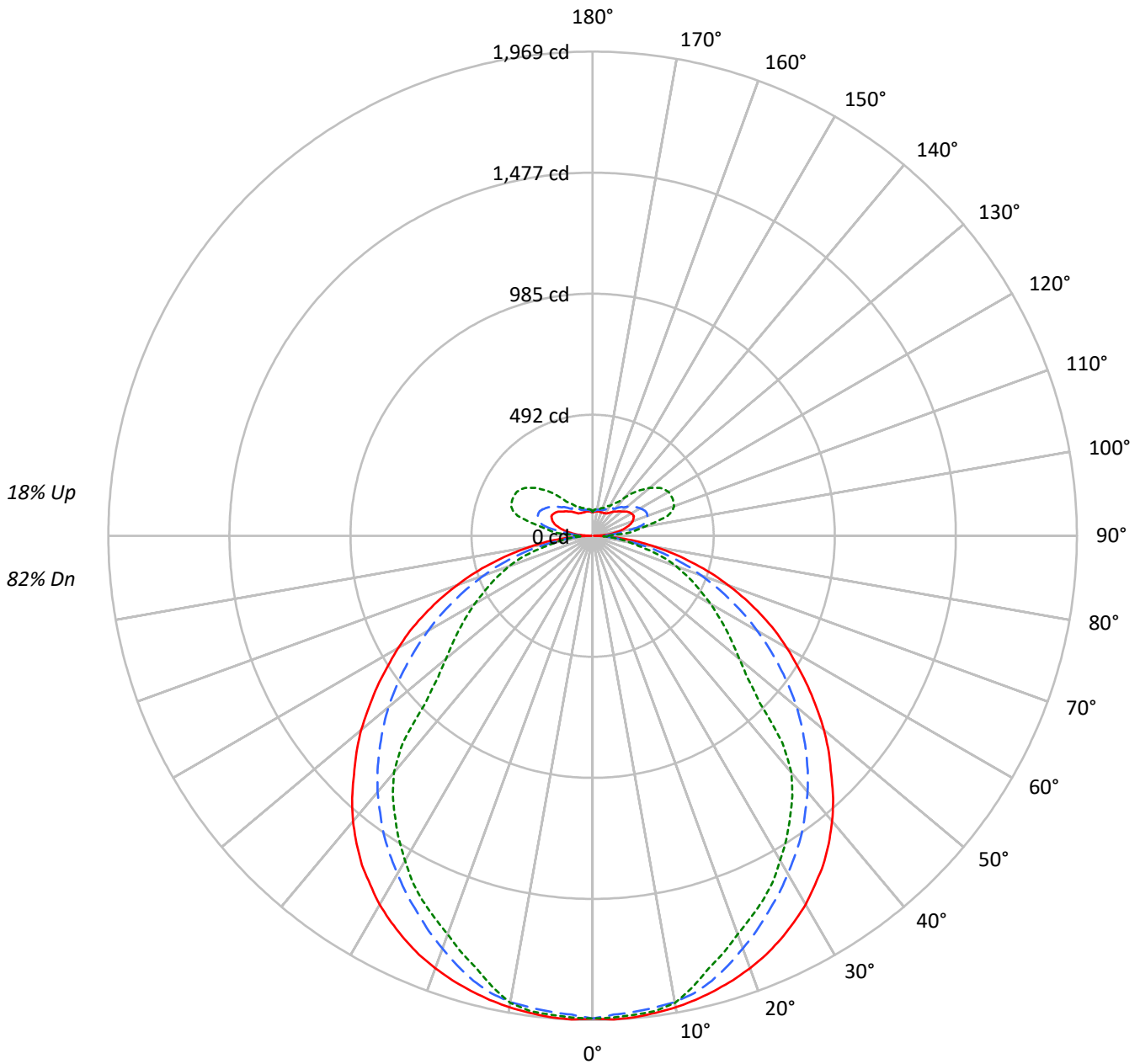
**Summary**

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<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	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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**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)