

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: P520757

Luminaire Tested: **8WSLA-50-L850-UPL15-UNV-U**

Issue Date: 5/3/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P520757  
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-50-L850-UPL15-UNV-U  
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

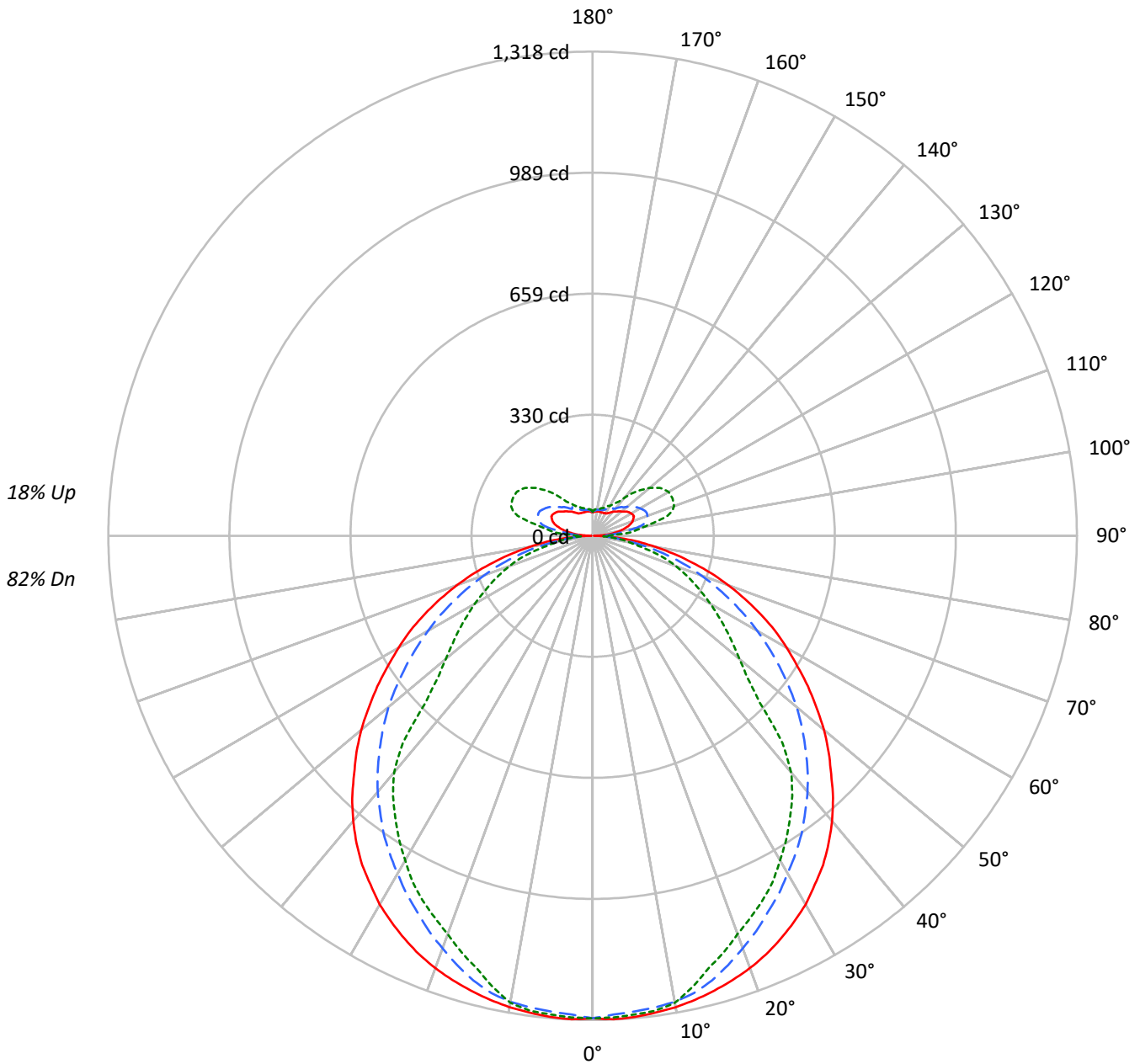
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4254.0 lumens  
Efficiency: N/A  
Efficacy: 139.5 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): 30.5  
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°	3535	3535	3535
5°	3552	3512	3534
10°	3560	3520	3527
15°	3570	3492	3396
20°	3586	3422	3304
25°	3595	3354	3251
30°	3601	3299	3171
35°	3593	3256	3076
40°	3561	3196	2953
45°	3493	3118	2449
50°	3441	3034	2181
55°	3356	2913	2075
60°	3284	2782	1993
65°	3207	2630	1934
70°	3082	2463	1897
75°	2909	2257	1746
80°	2662	1900	1548
85°	2387	1646	1562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.5	2.9
10°-20°	353.6	8.3
20°-30°	527.7	12.4
30°-40°	628.8	14.8
40°-50°	625.5	14.7
50°-60°	536.1	12.6
60°-70°	403.7	9.5
70°-80°	233.8	5.5
80°-90°	70.3	1.7
90°-100°	75.4	1.8
100°-110°	154.9	3.6
110°-120°	163.8	3.9
120°-130°	136.7	3.2
130°-140°	95.5	2.2
140°-150°	59.4	1.4
150°-160°	36.8	0.9
160°-170°	20.7	0.5
170°-180°	6.7	0.2
0°-30°	1005.9	23.6
0°-40°	1634.7	38.4
0°-60°	2796.2	65.7
0°-90°	3504.0	82.4
90°-120°	394.2	9.3
90°-150°	685.7	16.1
90°-180°	750.0	17.6
0°-180°	4254.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1315	1311	1300	1310	1308	125
15°	1282	1280	1254	1232	1219	362
25°	1211	1194	1130	1102	1095	558
35°	1094	1064	991	952	936	683
45°	918	895	819	738	643	710
55°	715	705	621	493	442	640
65°	504	492	413	321	304	498
75°	280	270	217	173	168	296
85°	77	68	53	51	51	82
90°	4	19	32	40	43	8
95°	43	57	65	96	104	41
105°	100	104	149	200	212	104
115°	124	105	158	218	240	121
125°	115	101	137	201	226	102
135°	93	101	111	149	172	73
145°	76	88	96	103	109	48
155°	69	73	79	85	87	32
165°	68	71	73	76	76	19
175°	67	68	69	71	72	6
180°	65	65	65	65	65	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1313.5	1313.5	1313.5	1313.5	1313.5
2.5°	1317.5	1314.8	1304.2	1314.8	1312.2
5°	1314.8	1310.9	1300.2	1309.5	1308.2
7.5°	1309.5	1306.9	1294.9	1305.5	1304.2
10°	1302.9	1298.9	1288.2	1296.2	1290.9
12.5°	1293.5	1290.9	1274.9	1268.2	1257.6
15°	1281.5	1280.2	1253.6	1232.3	1218.9
17.5°	1268.2	1262.9	1225.6	1200.3	1188.3
20°	1252.2	1244.2	1195.0	1165.6	1153.7
22.5°	1233.6	1221.6	1164.3	1136.3	1124.3
25°	1210.9	1193.6	1129.7	1101.7	1095.0
27.5°	1185.6	1165.6	1097.7	1069.7	1061.7
30°	1159.0	1133.7	1061.7	1035.1	1020.4
32.5°	1125.7	1101.7	1027.1	996.5	980.5
35°	1093.7	1064.4	991.1	952.5	936.5
37.5°	1055.1	1025.8	949.8	911.2	892.6
40°	1013.8	984.5	909.9	864.6	840.6
42.5°	968.5	941.8	865.9	811.3	764.7
45°	917.9	895.2	819.3	738.0	643.4
47.5°	871.2	849.9	772.7	667.4	570.2
50°	821.9	802.0	724.7	600.8	520.9
52.5°	767.3	752.7	672.7	543.5	479.6
55°	715.4	704.7	620.8	492.9	442.3
57.5°	660.8	650.1	568.8	444.9	405.0
60°	610.1	599.5	516.9	402.3	370.3
62.5°	559.5	544.9	466.3	361.0	334.4
65°	503.6	491.6	413.0	321.1	303.7
67.5°	447.6	437.0	363.7	283.8	271.8
70°	391.7	382.3	313.1	247.8	241.1
72.5°	337.0	325.0	267.8	211.8	209.2
75°	279.8	270.4	217.1	173.2	167.9
77.5°	225.1	217.1	170.5	131.9	127.9
80°	171.8	163.9	122.6	95.9	99.9
82.5°	126.6	115.9	82.6	74.6	78.6
85°	77.3	67.9	53.3	50.6	50.6
87.5°	26.6	25.3	24.0	28.0	29.3
90°	4.0	18.7	32.0	40.0	42.6
92.5°	22.6	33.3	44.0	52.0	54.6
95°	42.6	57.3	65.3	95.9	103.9
97.5°	58.6	75.9	85.3	113.2	121.2
100°	74.6	90.6	119.9	134.5	143.9
102.5°	87.9	99.9	141.2	170.5	175.8
105°	99.9	103.9	149.2	199.8	211.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	119.9	106.6	159.9	217.1	238.5
115°	123.9	105.2	158.5	218.5	239.8
117.5°	123.9	105.2	154.5	218.5	239.8
120°	121.2	106.6	149.2	215.8	238.5
122.5°	118.6	103.9	143.9	210.5	233.1
125°	114.6	101.2	137.2	201.2	226.5
127.5°	107.9	103.9	130.6	189.2	214.5
130°	102.6	105.2	122.6	177.2	202.5
132.5°	98.6	102.6	114.6	163.9	186.5
135°	93.3	101.2	110.6	149.2	171.8
137.5°	89.3	97.2	103.9	135.9	154.5
140°	85.3	94.6	97.2	118.6	134.5
142.5°	79.9	90.6	91.9	110.6	117.2
145°	75.9	87.9	95.9	102.6	109.2
147.5°	71.9	82.6	93.3	94.6	101.2
150°	70.6	77.3	89.3	90.6	93.3
152.5°	69.3	74.6	82.6	90.6	91.9
155°	69.3	73.3	78.6	85.3	86.6
157.5°	67.9	73.3	75.9	81.3	82.6
160°	67.9	71.9	74.6	78.6	79.9
162.5°	67.9	71.9	73.3	77.3	78.6
165°	67.9	70.6	73.3	75.9	75.9
167.5°	67.9	70.6	71.9	74.6	74.6
170°	67.9	69.3	71.9	73.3	73.3
172.5°	66.6	69.3	70.6	73.3	73.3
175°	66.6	67.9	69.3	70.6	71.9
177.5°	63.9	67.9	69.3	70.6	69.3
180°	65.3	65.3	65.3	65.3	65.3



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	109.2	105.2	154.5	210.5	227.8
110°	115.9	106.6	158.5	214.5	235.8



(END OF REPORT)