

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: P520660

Luminaire Tested: **8WSLA-125-L850-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520660  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 8WSLA-125-L850-UNV-U  
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

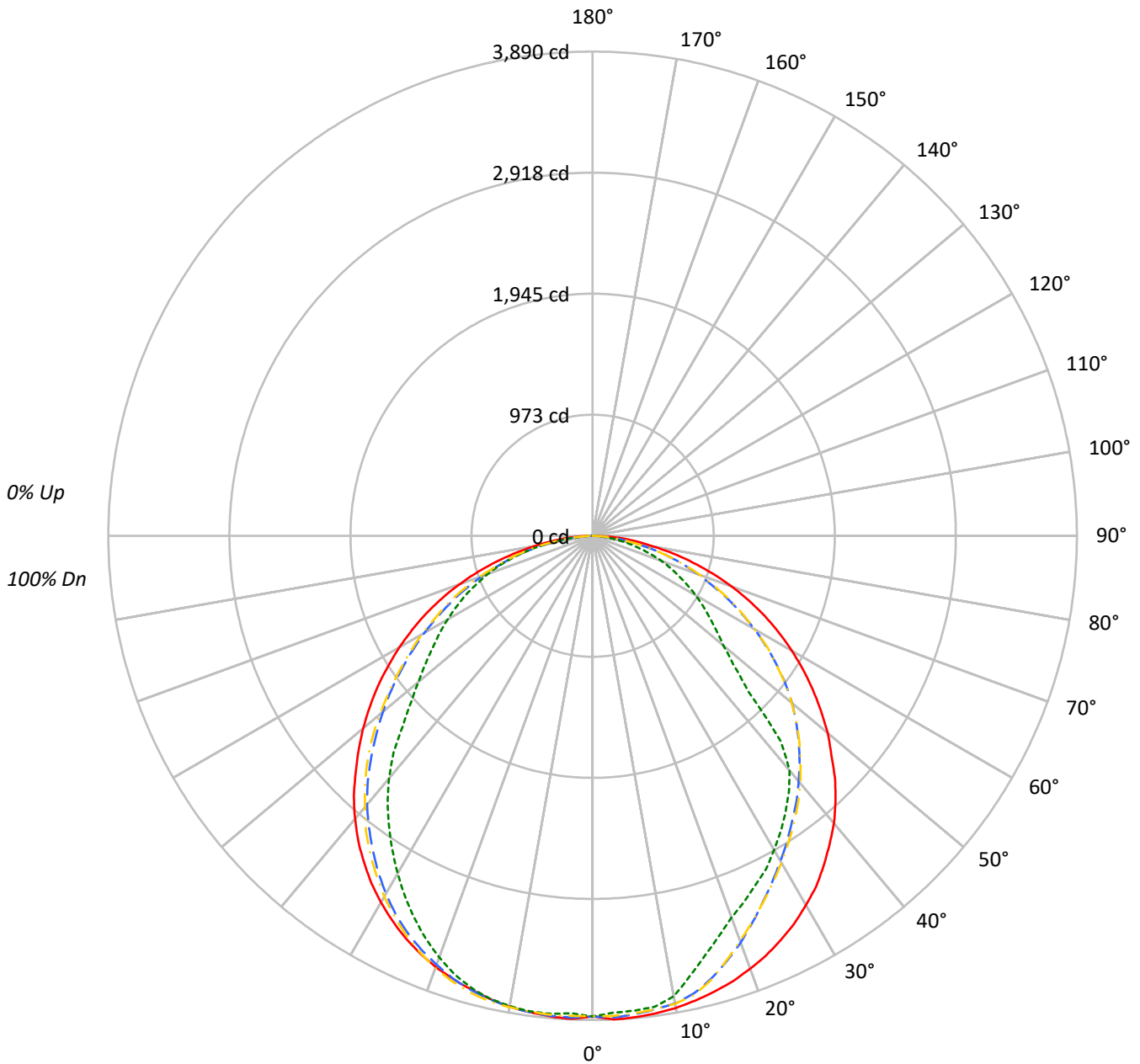
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10357.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 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: Direct  
  
Input Watts (W): 78.2  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

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

	0°	90°	180°	270°
0°	10389	10389	10389	10389
5°	10490	10345	10474	10412
10°	10527	10267	10499	10482
15°	10559	9723	10513	10479
20°	10599	9342	10558	10320
25°	10633	9188	10578	10061
30°	10645	9055	10568	9731
35°	10628	8879	10519	9369
40°	10594	8644	10426	8935
45°	10475	6716	10239	8198
50°	10318	5749	10067	7648
55°	10135	5384	9873	7356
60°	9943	5139	9642	7234
65°	9706	4867	9377	7148
70°	9321	4628	8930	7040
75°	8678	4070	8269	6697
80°	7703	3402	7221	5681
85°	7290	2430	6394	3260



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.8	3.5
10°-20°	1046.3	10.1
20°-30°	1563.4	15.1
30°-40°	1861.1	18.0
40°-50°	1860.2	18.0
50°-60°	1600.7	15.5
60°-70°	1204.8	11.6
70°-80°	686.5	6.6
80°-90°	167.1	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2976.6	28.7
0°-40°	4837.6	46.7
0°-60°	8298.6	80.1
0°-90°	10357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10357.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3861	3861	3861	3861	3861	
5°	3884	3830	3877	3854	3884	370
15°	3790	3490	3774	3761	3790	1071
25°	3581	3094	3562	3388	3581	1651
35°	3235	2703	3202	2852	3235	2024
45°	2753	1765	2690	2154	2753	2120
55°	2160	1148	2104	1568	2160	1931
65°	1524	764	1473	1123	1524	1505
75°	835	392	795	644	835	884
85°	236	79	207	106	236	257
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3860.7	3860.7	3860.7	3860.7	3860.7	3860.7	3860.7	3860.7	3860.7	3860.7	3860.7
2.5°	3889.7	3854.5	3875.2	3869.0	3835.9	3848.3	3860.7	3848.3	3885.6	3852.5	3875.2
5°	3883.5	3846.2	3858.7	3846.2	3829.7	3833.8	3852.5	3840.0	3877.3	3842.1	3871.1
7.5°	3871.1	3825.5	3838.0	3831.8	3817.3	3819.3	3838.0	3827.6	3860.7	3827.6	3860.7
10°	3852.5	3804.8	3815.2	3788.3	3757.2	3780.0	3817.3	3806.9	3842.1	3804.8	3842.1
12.5°	3823.5	3775.8	3765.5	3676.4	3620.5	3664.0	3777.9	3777.9	3811.0	3775.8	3815.2
15°	3790.3	3738.5	3682.6	3548.0	3490.0	3533.5	3690.9	3744.8	3773.8	3738.5	3777.9
17.5°	3751.0	3690.9	3583.2	3425.8	3371.9	3415.4	3577.0	3695.1	3732.3	3695.1	3730.3
20°	3701.3	3630.8	3477.6	3297.4	3262.2	3301.5	3463.1	3635.0	3686.8	3641.2	3666.1
22.5°	3647.4	3562.5	3359.5	3198.0	3181.4	3206.2	3353.3	3560.4	3628.8	3581.1	3597.7
25°	3581.1	3481.7	3241.5	3106.8	3094.4	3108.9	3245.6	3473.4	3562.5	3512.8	3519.0
27.5°	3510.7	3403.0	3129.6	3030.2	3017.8	3024.0	3137.9	3376.1	3485.9	3436.1	3425.8
30°	3425.8	3309.8	3017.8	2926.6	2914.2	2937.0	3034.3	3276.7	3400.9	3351.2	3320.2
32.5°	3340.9	3208.3	2908.0	2837.6	2812.7	2833.4	2926.6	3173.1	3307.7	3256.0	3204.2
35°	3235.2	3100.6	2794.1	2723.6	2702.9	2725.7	2818.9	3065.4	3202.1	3150.3	3079.9
37.5°	3125.5	2986.7	2690.5	2626.3	2589.0	2615.9	2709.2	2953.6	3092.3	3038.5	2951.5
40°	3015.7	2866.6	2574.5	2508.2	2460.6	2500.0	2595.2	2835.5	2968.1	2918.3	2818.9
42.5°	2887.3	2746.4	2460.6	2367.4	2232.8	2359.1	2473.0	2717.4	2839.6	2792.0	2671.9
45°	2752.6	2618.0	2340.5	2114.7	1764.7	2135.4	2348.8	2593.2	2690.5	2644.9	2514.5
47.5°	2599.4	2485.5	2218.3	1874.5	1534.8	1895.2	2222.4	2475.1	2549.7	2500.0	2355.0
50°	2464.7	2352.9	2089.9	1671.5	1373.2	1694.3	2087.8	2342.5	2404.7	2359.1	2197.6
52.5°	2311.5	2214.1	1951.1	1491.3	1253.1	1514.1	1946.9	2205.8	2255.6	2201.7	2040.1
55°	2160.3	2073.3	1804.0	1331.8	1147.5	1352.5	1799.9	2065.0	2104.4	2042.2	1874.5
57.5°	2007.0	1928.3	1652.8	1188.9	1050.1	1211.7	1663.2	1920.0	1946.9	1868.2	1715.0
60°	1847.5	1781.2	1499.6	1062.5	954.8	1081.2	1495.4	1775.0	1791.6	1706.7	1559.6
62.5°	1688.0	1628.0	1346.3	946.5	857.5	959.0	1356.6	1621.8	1632.1	1551.3	1400.1
65°	1524.4	1468.5	1197.2	824.3	764.3	845.1	1207.5	1462.3	1472.6	1381.5	1244.8
67.5°	1354.6	1309.0	1037.7	731.1	675.2	737.4	1058.4	1300.7	1306.9	1217.9	1093.6
70°	1184.7	1145.4	896.8	629.6	588.2	631.7	911.3	1122.6	1135.0	1039.8	940.3
72.5°	1010.8	979.7	760.1	524.0	486.7	524.0	768.4	959.0	967.3	888.6	791.2
75°	834.7	811.9	621.4	420.5	391.5	418.4	625.5	795.3	795.3	720.8	644.1
77.5°	664.9	648.3	476.4	323.1	302.4	319.0	478.5	629.6	625.5	567.5	507.4
80°	497.1	484.7	341.8	234.0	219.5	227.8	341.8	466.0	466.0	424.6	352.1
82.5°	356.2	341.8	225.8	153.3	145.0	149.1	221.6	325.2	331.4	300.3	238.2
85°	236.1	203.0	122.2	84.9	78.7	80.8	116.0	188.5	207.1	174.0	124.3
87.5°	103.6	68.4	31.1	12.4	6.2	8.3	24.9	60.1	78.7	51.8	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3860.7	3860.7	3860.7	3860.7	3860.7	3860.7
2.5°	3873.2	3840.0	3852.5	3860.7	3852.5	3889.7
5°	3869.0	3854.5	3852.5	3862.8	3846.2	3883.5
7.5°	3862.8	3854.5	3852.5	3856.6	3835.9	3871.1
10°	3848.3	3835.9	3840.0	3846.2	3819.3	3852.5
12.5°	3821.4	3809.0	3811.0	3831.8	3794.5	3823.5
15°	3775.8	3761.3	3775.8	3798.6	3765.5	3790.3
17.5°	3715.8	3693.0	3717.8	3753.0	3728.2	3751.0
20°	3639.1	3603.9	3630.8	3695.1	3672.3	3701.3
22.5°	3545.9	3502.4	3529.4	3622.6	3616.3	3647.4
25°	3440.3	3388.5	3425.8	3539.7	3552.1	3581.1
27.5°	3322.2	3264.2	3313.9	3448.6	3477.6	3510.7
30°	3193.8	3131.7	3189.7	3347.1	3390.6	3425.8
32.5°	3061.3	2992.9	3059.2	3233.2	3295.3	3340.9
35°	2922.5	2852.1	2926.6	3115.1	3189.7	3235.2
37.5°	2773.4	2705.0	2785.8	2990.8	3079.9	3125.5
40°	2620.1	2543.5	2634.6	2843.8	2961.8	3015.7
42.5°	2462.7	2367.4	2479.2	2705.0	2833.4	2887.3
45°	2286.6	2154.1	2305.3	2558.0	2692.6	2752.6
47.5°	2110.6	1978.0	2131.3	2400.5	2545.5	2599.4
50°	1940.7	1826.8	1949.0	2228.6	2396.4	2464.7
52.5°	1785.4	1692.2	1795.7	2060.9	2243.1	2311.5
55°	1640.4	1567.9	1652.8	1895.2	2081.6	2160.3
57.5°	1503.7	1458.1	1516.1	1737.8	1932.4	2007.0
60°	1375.3	1344.2	1385.6	1582.4	1756.4	1847.5
62.5°	1248.9	1232.4	1263.4	1418.8	1592.8	1688.0
65°	1126.7	1122.6	1139.2	1275.9	1420.9	1524.4
67.5°	1004.5	1002.5	1012.8	1124.7	1253.1	1354.6
70°	882.3	894.8	888.6	961.0	1085.3	1184.7
72.5°	758.1	776.7	766.4	811.9	932.0	1010.8
75°	619.3	644.1	623.4	675.2	749.8	834.7
77.5°	476.4	503.3	478.5	524.0	604.8	664.9
80°	341.8	366.6	345.9	381.1	451.5	497.1
82.5°	215.4	234.0	217.5	252.7	323.1	356.2
85°	95.3	105.6	109.8	136.7	198.8	236.1
87.5°	4.1	2.1	4.1	26.9	70.4	103.6
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°    - · - · 135°-315°









(END OF REPORT)