

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: P520657

Luminaire Tested: **8WSLA-125-L840-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520657  
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-L840-UNV-U  
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

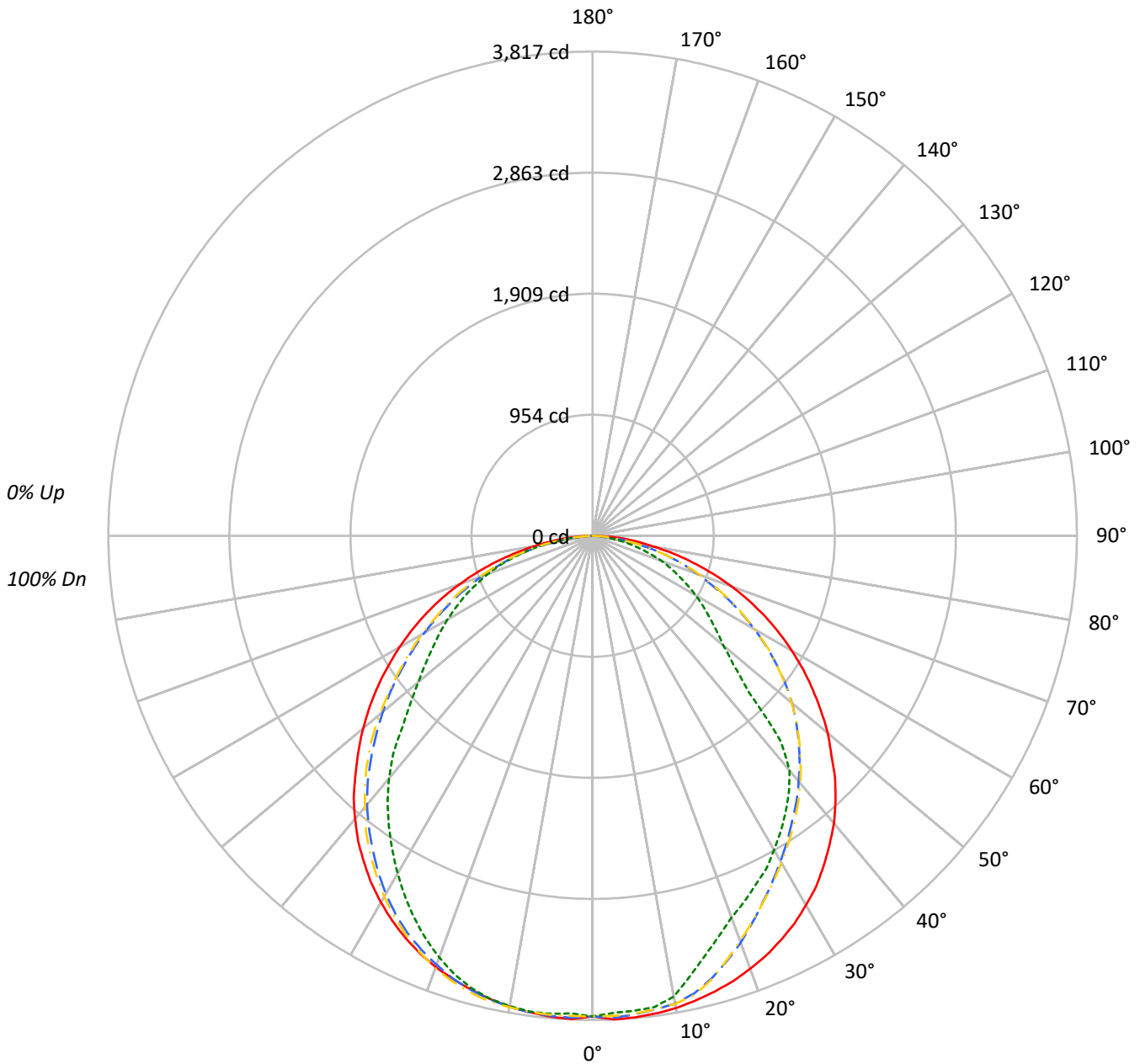
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10164.0 lumens  
Efficiency: N/A  
Efficacy: 130.0 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				20				
RC	80				70				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°	10196	10196	10196	10196
5°	10295	10152	10279	10218
10°	10331	10075	10303	10286
15°	10363	9542	10317	10283
20°	10402	9168	10361	10128
25°	10435	9016	10381	9874
30°	10447	8886	10371	9550
35°	10430	8714	10323	9195
40°	10396	8483	10232	8768
45°	10280	6591	10048	8045
50°	10126	5642	9880	7505
55°	9946	5283	9689	7219
60°	9758	5043	9463	7100
65°	9526	4776	9202	7015
70°	9148	4542	8764	6909
75°	8516	3995	8115	6572
80°	7559	3340	7087	5576
85°	7154	2384	6277	3202



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.0	3.5
10°-20°	1026.8	10.1
20°-30°	1534.3	15.1
30°-40°	1826.4	18.0
40°-50°	1825.6	18.0
50°-60°	1570.9	15.5
60°-70°	1182.3	11.6
70°-80°	673.7	6.6
80°-90°	164.0	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°	2921.1	28.7
0°-40°	4747.5	46.7
0°-60°	8143.9	80.1
0°-90°	10164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3789	3789	3789	3789	3789	
5°	3811	3758	3805	3783	3811	363
15°	3720	3425	3703	3691	3720	1051
25°	3514	3037	3496	3325	3514	1621
35°	3175	2653	3142	2799	3175	1987
45°	2701	1732	2640	2114	2701	2080
55°	2120	1126	2065	1539	2120	1895
65°	1496	750	1445	1102	1496	1477
75°	819	384	780	632	819	867
85°	232	77	203	104	232	252
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°	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8
2.5°	3817.3	3782.7	3803.0	3796.9	3764.4	3776.6	3788.8	3776.6	3813.2	3780.7	3803.0
5°	3811.2	3774.6	3786.8	3774.6	3758.3	3762.4	3780.7	3768.5	3805.1	3770.5	3799.0
7.5°	3799.0	3754.2	3766.4	3760.3	3746.1	3748.2	3766.4	3756.3	3788.8	3756.3	3788.8
10°	3780.7	3733.9	3744.1	3717.7	3687.2	3709.5	3746.1	3736.0	3770.5	3733.9	3770.5
12.5°	3752.2	3705.5	3695.3	3607.9	3553.0	3595.7	3707.5	3707.5	3740.0	3705.5	3744.1
15°	3719.7	3668.9	3614.0	3481.9	3425.0	3467.6	3622.1	3675.0	3703.4	3668.9	3707.5
17.5°	3681.1	3622.1	3516.4	3362.0	3309.1	3351.8	3510.3	3626.2	3662.8	3626.2	3660.7
20°	3632.3	3563.2	3412.8	3235.9	3201.4	3240.0	3398.5	3567.2	3618.1	3573.3	3597.7
22.5°	3579.4	3496.1	3296.9	3138.4	3122.1	3146.5	3290.8	3494.1	3561.1	3514.4	3530.7
25°	3514.4	3416.8	3181.1	3048.9	3036.7	3051.0	3185.1	3408.7	3496.1	3447.3	3453.4
27.5°	3445.3	3339.6	3071.3	2973.7	2961.5	2967.6	3079.4	3313.2	3420.9	3372.1	3362.0
30°	3362.0	3248.1	2961.5	2872.1	2859.9	2882.3	2977.8	3215.6	3337.6	3288.8	3258.3
32.5°	3278.6	3148.5	2853.8	2784.7	2760.3	2780.6	2872.1	3114.0	3246.1	3195.3	3144.5
35°	3175.0	3042.8	2742.0	2672.9	2652.6	2674.9	2766.4	3008.3	3142.4	3091.6	3022.5
37.5°	3067.2	2931.0	2640.4	2577.4	2540.8	2567.2	2658.7	2898.5	3034.7	2981.9	2896.5
40°	2959.5	2813.1	2526.5	2461.5	2414.8	2453.4	2546.9	2782.7	2912.7	2864.0	2766.4
42.5°	2833.5	2695.3	2414.8	2323.3	2191.2	2315.2	2426.9	2666.8	2786.7	2740.0	2622.1
45°	2701.4	2569.2	2296.9	2075.3	1731.8	2095.6	2305.0	2544.8	2640.4	2595.7	2467.6
47.5°	2550.9	2439.1	2176.9	1839.5	1506.2	1859.8	2181.0	2429.0	2502.2	2453.4	2311.1
50°	2418.8	2309.1	2050.9	1640.3	1347.6	1662.7	2048.9	2298.9	2359.9	2315.2	2156.6
52.5°	2268.4	2172.9	1914.7	1463.5	1229.7	1485.8	1910.7	2164.7	2213.5	2160.7	2002.1
55°	2120.0	2034.7	1770.4	1307.0	1126.1	1327.3	1766.3	2026.5	2065.1	2004.2	1839.5
57.5°	1969.6	1892.4	1622.0	1166.7	1030.5	1189.1	1632.2	1884.2	1910.7	1833.4	1683.0
60°	1813.1	1748.1	1471.6	1042.7	937.0	1061.0	1467.6	1742.0	1758.2	1674.9	1530.6
62.5°	1656.6	1597.6	1321.2	928.9	841.5	941.1	1331.4	1591.5	1601.7	1522.4	1374.1
65°	1496.0	1441.1	1174.9	809.0	750.0	829.3	1185.0	1435.0	1445.2	1355.8	1221.6
67.5°	1329.3	1284.6	1018.3	717.5	662.6	723.6	1038.7	1276.5	1282.6	1195.2	1073.2
70°	1162.7	1124.0	880.1	617.9	577.3	619.9	894.4	1101.7	1113.9	1020.4	922.8
72.5°	991.9	961.4	746.0	514.3	477.7	514.3	754.1	941.1	949.2	872.0	776.5
75°	819.1	796.8	609.8	412.6	384.2	410.6	613.9	780.5	780.5	707.4	632.1
77.5°	652.5	636.2	467.5	317.1	296.8	313.0	469.5	617.9	613.9	556.9	498.0
80°	487.8	475.6	335.4	229.7	215.5	223.6	335.4	457.3	457.3	416.7	345.5
82.5°	349.6	335.4	221.6	150.4	142.3	146.3	217.5	319.1	325.2	294.7	233.8
85°	231.7	199.2	119.9	83.3	77.2	79.3	113.8	185.0	203.3	170.7	122.0
87.5°	101.6	67.1	30.5	12.2	6.1	8.1	24.4	58.9	77.2	50.8	16.3
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°	3788.8	3788.8	3788.8	3788.8	3788.8	3788.8
2.5°	3801.0	3768.5	3780.7	3788.8	3780.7	3817.3
5°	3796.9	3782.7	3780.7	3790.8	3774.6	3811.2
7.5°	3790.8	3782.7	3780.7	3784.7	3764.4	3799.0
10°	3776.6	3764.4	3768.5	3774.6	3748.2	3780.7
12.5°	3750.2	3738.0	3740.0	3760.3	3723.8	3752.2
15°	3705.5	3691.2	3705.5	3727.8	3695.3	3719.7
17.5°	3646.5	3624.2	3648.6	3683.1	3658.7	3681.1
20°	3571.3	3536.8	3563.2	3626.2	3603.8	3632.3
22.5°	3479.8	3437.2	3463.6	3555.1	3549.0	3579.4
25°	3376.2	3325.4	3362.0	3473.7	3485.9	3514.4
27.5°	3260.3	3203.4	3252.2	3384.3	3412.8	3445.3
30°	3134.3	3073.3	3130.2	3284.7	3327.4	3362.0
32.5°	3004.2	2937.1	3002.2	3172.9	3233.9	3278.6
35°	2868.0	2798.9	2872.1	3057.1	3130.2	3175.0
37.5°	2721.7	2654.6	2733.9	2935.1	3022.5	3067.2
40°	2571.3	2496.1	2585.5	2790.8	2906.6	2959.5
42.5°	2416.8	2323.3	2433.0	2654.6	2780.6	2833.5
45°	2244.0	2113.9	2262.3	2510.3	2642.4	2701.4
47.5°	2071.2	1941.2	2091.6	2355.8	2498.1	2550.9
50°	1904.6	1792.8	1912.7	2187.1	2351.7	2418.8
52.5°	1752.1	1660.7	1762.3	2022.5	2201.3	2268.4
55°	1609.8	1538.7	1622.0	1859.8	2042.8	2120.0
57.5°	1475.7	1431.0	1487.9	1705.4	1896.4	1969.6
60°	1349.7	1319.2	1359.8	1552.9	1723.7	1813.1
62.5°	1225.7	1209.4	1239.9	1392.3	1563.1	1656.6
65°	1105.7	1101.7	1117.9	1252.1	1394.4	1496.0
67.5°	985.8	983.8	994.0	1103.7	1229.7	1329.3
70°	865.9	878.1	872.0	943.1	1065.1	1162.7
72.5°	743.9	762.2	752.1	796.8	914.7	991.9
75°	607.8	632.1	611.8	662.6	735.8	819.1
77.5°	467.5	493.9	469.5	514.3	593.5	652.5
80°	335.4	359.8	339.4	374.0	443.1	487.8
82.5°	211.4	229.7	213.4	248.0	317.1	349.6
85°	93.5	103.7	107.7	134.2	195.1	231.7
87.5°	4.1	2.0	4.1	26.4	69.1	101.6
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)