

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: P520702

Luminaire Tested: **8WSLA-175-L835-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520702  
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-175-L835-UNV-U  
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

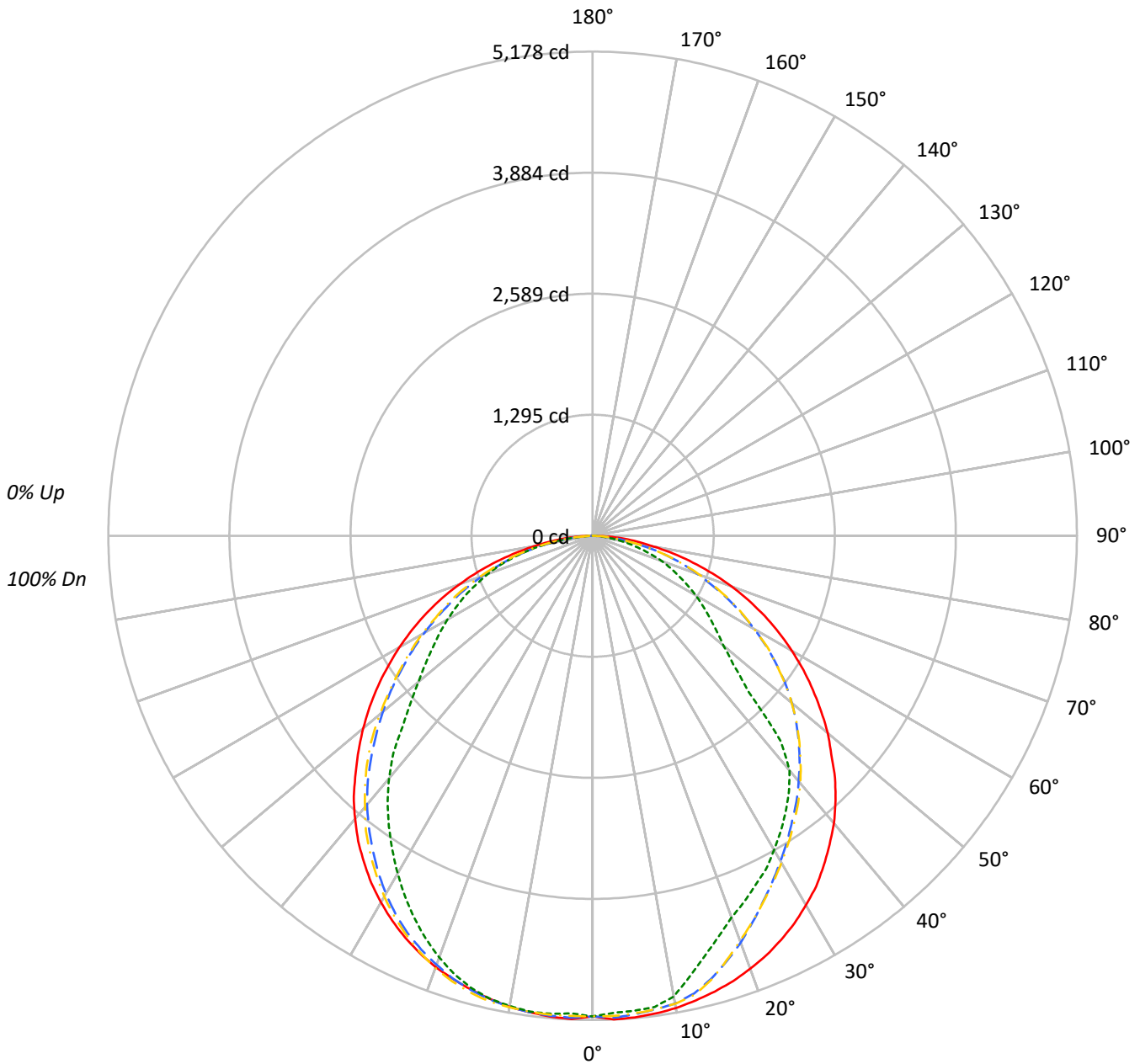
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13788.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 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): 119  
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°	13831	13831	13831	13831
5°	13966	13772	13943	13861
10°	14014	13667	13976	13954
15°	14058	12944	13996	13950
20°	14110	12436	14055	13739
25°	14156	12231	14082	13394
30°	14171	12055	14068	12955
35°	14149	11821	14004	12473
40°	14103	11507	13880	11894
45°	13946	8941	13631	10913
50°	13737	7653	13402	10181
55°	13493	7167	13143	9793
60°	13237	6841	12837	9631
65°	12922	6479	12483	9516
70°	12409	6161	11888	9372
75°	11553	5418	11008	8916
80°	10256	4530	9614	7564
85°	9704	3236	8512	4341



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.4	3.5
10°-20°	1392.9	10.1
20°-30°	2081.4	15.1
30°-40°	2477.6	18.0
40°-50°	2476.5	18.0
50°-60°	2131.0	15.5
60°-70°	1603.9	11.6
70°-80°	914.0	6.6
80°-90°	222.5	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°	3962.6	28.7
0°-40°	6440.2	46.7
0°-60°	11047.7	80.1
0°-90°	13788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13788.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5140	5140	5140	5140	5140	
5°	5170	5098	5162	5131	5170	492
15°	5046	4646	5024	5007	5046	1426
25°	4768	4120	4743	4511	4768	2198
35°	4307	3598	4263	3797	4307	2695
45°	3664	2349	3582	2868	3664	2822
55°	2876	1528	2802	2087	2876	2571
65°	2029	1018	1960	1494	2029	2004
75°	1111	521	1059	858	1111	1176
85°	314	105	276	141	314	342
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°	5139.7	5139.7	5139.7	5139.7	5139.7	5139.7	5139.7	5139.7	5139.7	5139.7	5139.7
2.5°	5178.3	5131.4	5159.0	5150.7	5106.6	5123.2	5139.7	5123.2	5172.8	5128.7	5159.0
5°	5170.0	5120.4	5137.0	5120.4	5098.4	5103.9	5128.7	5112.1	5161.8	5114.9	5153.5
7.5°	5153.5	5092.8	5109.4	5101.1	5081.8	5084.6	5109.4	5095.6	5139.7	5095.6	5139.7
10°	5128.7	5065.3	5079.0	5043.2	5001.8	5032.2	5081.8	5068.0	5114.9	5065.3	5114.9
12.5°	5090.1	5026.7	5012.9	4894.3	4819.9	4877.8	5029.4	5029.4	5073.5	5026.7	5079.0
15°	5046.0	4977.0	4902.6	4723.4	4646.1	4704.0	4913.6	4985.3	5023.9	4977.0	5029.4
17.5°	4993.6	4913.6	4770.2	4560.7	4489.0	4546.9	4762.0	4919.1	4968.8	4919.1	4966.0
20°	4927.4	4833.6	4629.6	4389.7	4342.8	4395.2	4610.3	4839.2	4908.1	4847.4	4880.5
22.5°	4855.7	4742.7	4472.4	4257.4	4235.3	4268.4	4464.2	4739.9	4830.9	4767.5	4789.5
25°	4767.5	4635.1	4315.3	4136.0	4119.5	4138.8	4320.8	4624.1	4742.7	4676.5	4684.7
27.5°	4673.7	4530.3	4166.4	4034.0	4017.5	4025.7	4177.4	4494.5	4640.6	4574.5	4560.7
30°	4560.7	4406.3	4017.5	3896.1	3879.6	3909.9	4039.5	4362.1	4527.6	4461.4	4420.0
32.5°	4447.6	4271.1	3871.3	3777.6	3744.5	3772.1	3896.1	4224.3	4403.5	4334.6	4265.6
35°	4307.0	4127.8	3719.7	3625.9	3598.3	3628.7	3752.8	4080.9	4262.9	4193.9	4100.2
37.5°	4160.8	3976.1	3581.8	3496.3	3446.7	3482.5	3606.6	3932.0	4116.7	4045.0	3929.2
40°	4014.7	3816.2	3427.4	3339.2	3275.7	3328.1	3455.0	3774.8	3951.3	3885.1	3752.8
42.5°	3843.8	3656.3	3275.7	3151.7	2972.4	3140.6	3292.3	3617.7	3780.3	3716.9	3557.0
45°	3664.5	3485.3	3115.8	2815.3	2349.3	2842.8	3126.8	3452.2	3581.8	3521.1	3347.4
47.5°	3460.5	3308.8	2953.1	2495.4	2043.2	2523.0	2958.6	3295.0	3394.3	3328.1	3135.1
50°	3281.3	3132.4	2782.2	2225.2	1828.1	2255.5	2779.4	3118.6	3201.3	3140.6	2925.6
52.5°	3077.2	2947.6	2597.4	1985.3	1668.2	2015.6	2591.9	2936.6	3002.8	2931.1	2716.0
55°	2875.9	2760.1	2401.7	1773.0	1527.6	1800.6	2396.1	2749.1	2801.5	2718.8	2495.4
57.5°	2671.9	2567.1	2200.4	1582.7	1398.0	1613.1	2214.2	2556.1	2591.9	2487.1	2283.1
60°	2459.6	2371.3	1996.3	1414.5	1271.1	1439.3	1990.8	2363.1	2385.1	2272.1	2076.3
62.5°	2247.2	2167.3	1792.3	1260.1	1141.5	1276.7	1806.1	2159.0	2172.8	2065.3	1864.0
65°	2029.4	1955.0	1593.8	1097.4	1017.5	1125.0	1607.5	1946.7	1960.5	1839.2	1657.2
67.5°	1803.3	1742.6	1381.4	973.3	898.9	981.6	1409.0	1731.6	1739.9	1621.3	1455.9
70°	1577.2	1524.8	1193.9	838.2	783.1	841.0	1213.2	1494.5	1511.0	1384.2	1251.8
72.5°	1345.6	1304.2	1011.9	697.6	648.0	697.6	1023.0	1276.7	1287.7	1182.9	1053.3
75°	1111.2	1080.9	827.2	559.7	521.1	557.0	832.7	1058.8	1058.8	959.6	857.5
77.5°	885.1	863.1	634.2	430.1	402.6	424.6	636.9	838.2	832.7	755.5	675.6
80°	661.8	645.2	455.0	311.6	292.3	303.3	455.0	620.4	620.4	565.3	468.8
82.5°	474.3	455.0	300.6	204.0	193.0	198.5	295.0	432.9	441.2	399.8	317.1
85°	314.3	270.2	162.7	113.1	104.8	107.5	154.4	250.9	275.7	231.6	165.4
87.5°	137.9	91.0	41.4	16.5	8.3	11.0	33.1	80.0	104.8	68.9	22.1
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°	5139.7	5139.7	5139.7	5139.7	5139.7	5139.7
2.5°	5156.3	5112.1	5128.7	5139.7	5128.7	5178.3
5°	5150.7	5131.4	5128.7	5142.5	5120.4	5170.0
7.5°	5142.5	5131.4	5128.7	5134.2	5106.6	5153.5
10°	5123.2	5106.6	5112.1	5120.4	5084.6	5128.7
12.5°	5087.3	5070.8	5073.5	5101.1	5051.5	5090.1
15°	5026.7	5007.4	5026.7	5057.0	5012.9	5046.0
17.5°	4946.7	4916.4	4949.5	4996.3	4963.2	4993.6
20°	4844.7	4797.8	4833.6	4919.1	4888.8	4927.4
22.5°	4720.6	4662.7	4698.5	4822.6	4814.3	4855.7
25°	4580.0	4511.0	4560.7	4712.3	4728.9	4767.5
27.5°	4422.8	4345.6	4411.8	4591.0	4629.6	4673.7
30°	4251.8	4169.1	4246.3	4455.9	4513.8	4560.7
32.5°	4075.4	3984.4	4072.6	4304.2	4387.0	4447.6
35°	3890.6	3796.9	3896.1	4147.1	4246.3	4307.0
37.5°	3692.1	3601.1	3708.6	3981.6	4100.2	4160.8
40°	3488.1	3386.0	3507.4	3785.8	3943.0	4014.7
42.5°	3278.5	3151.7	3300.6	3601.1	3772.1	3843.8
45°	3044.1	2867.6	3068.9	3405.3	3584.6	3664.5
47.5°	2809.7	2633.3	2837.3	3195.8	3388.8	3460.5
50°	2583.6	2432.0	2594.7	2966.9	3190.3	3281.3
52.5°	2376.8	2252.8	2390.6	2743.6	2986.2	3077.2
55°	2183.8	2087.3	2200.4	2523.0	2771.1	2875.9
57.5°	2001.8	1941.2	2018.4	2313.4	2572.6	2671.9
60°	1830.9	1789.5	1844.7	2106.6	2338.2	2459.6
62.5°	1662.7	1640.6	1682.0	1888.8	2120.4	2247.2
65°	1500.0	1494.5	1516.5	1698.5	1891.5	2029.4
67.5°	1337.3	1334.6	1348.3	1497.2	1668.2	1803.3
70°	1174.6	1191.2	1182.9	1279.4	1444.9	1577.2
72.5°	1009.2	1034.0	1020.2	1080.9	1240.8	1345.6
75°	824.4	857.5	830.0	898.9	998.2	1111.2
77.5°	634.2	670.0	636.9	697.6	805.1	885.1
80°	455.0	488.1	460.5	507.4	601.1	661.8
82.5°	286.8	311.6	289.5	336.4	430.1	474.3
85°	126.8	140.6	146.1	182.0	264.7	314.3
87.5°	5.5	2.8	5.5	35.8	93.8	137.9
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)