

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: P520708

Luminaire Tested: **8WSLA-175-L850-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520708
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-L850-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

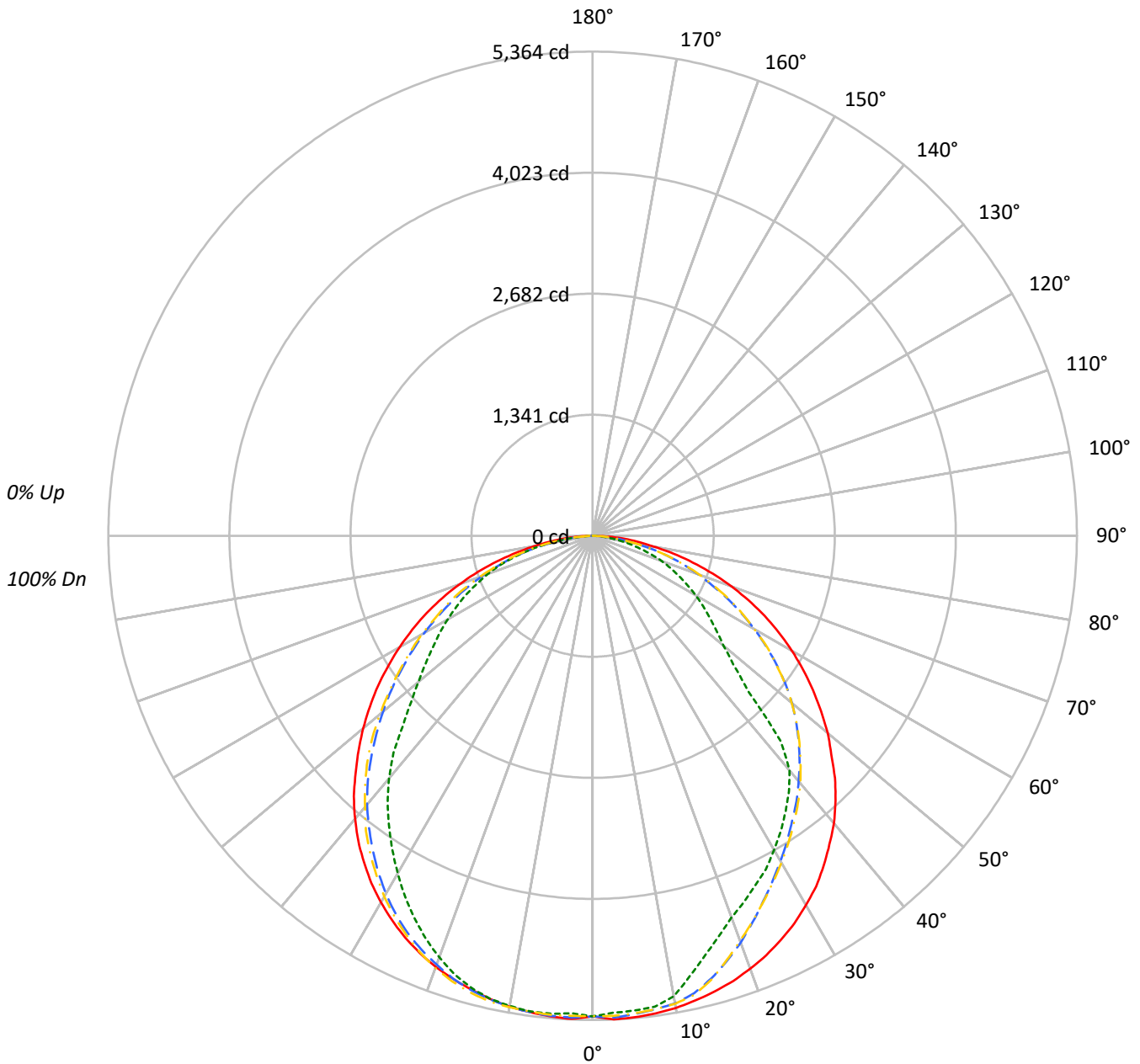
Lumens per Lamp: N/A
Luminaire Lumens: 14281.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 119
Input Voltage (V): NR
Input Current (A_{in}): 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°	14325	14325	14325	14325
5°	14465	14264	14442	14357
10°	14515	14156	14476	14453
15°	14560	13407	14496	14449
20°	14615	12881	14558	14230
25°	14661	12669	14585	13873
30°	14678	12486	14572	13418
35°	14655	12243	14505	12919
40°	14607	11919	14377	12320
45°	14445	9260	14118	11303
50°	14228	7927	13881	10545
55°	13975	7423	13613	10143
60°	13711	7086	13296	9975
65°	13384	6710	12930	9856
70°	12853	6382	12314	9707
75°	11966	5612	11403	9235
80°	10621	4691	9958	7834
85°	10053	3350	8818	4499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.8	3.5
10°-20°	1442.7	10.1
20°-30°	2155.8	15.1
30°-40°	2566.2	18.0
40°-50°	2565.0	18.0
50°-60°	2207.2	15.5
60°-70°	1661.2	11.6
70°-80°	946.7	6.6
80°-90°	230.4	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°	4104.3	28.7
0°-40°	6670.5	46.7
0°-60°	11442.7	80.1
0°-90°	14281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14281.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5324	5324	5324	5324	5324	
5°	5355	5281	5346	5315	5355	510
15°	5226	4812	5204	5186	5226	1477
25°	4938	4267	4912	4672	4938	2277
35°	4461	3727	4415	3933	4461	2791
45°	3796	2433	3710	2970	3796	2923
55°	2979	1582	2902	2162	2979	2663
65°	2102	1054	2031	1548	2102	2076
75°	1151	540	1097	888	1151	1218
85°	326	108	286	146	326	354
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°	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5
2.5°	5363.5	5314.9	5343.5	5334.9	5289.2	5306.3	5323.5	5306.3	5357.8	5312.1	5343.5
5°	5354.9	5303.5	5320.6	5303.5	5280.6	5286.4	5312.1	5294.9	5346.3	5297.8	5337.8
7.5°	5337.8	5274.9	5292.1	5283.5	5263.5	5266.4	5292.1	5277.8	5323.5	5277.8	5323.5
10°	5312.1	5246.4	5260.7	5223.5	5180.7	5212.1	5263.5	5249.2	5297.8	5246.4	5297.8
12.5°	5272.1	5206.4	5192.1	5069.3	4992.2	5052.2	5209.2	5209.2	5254.9	5206.4	5260.7
15°	5226.4	5155.0	5077.9	4892.2	4812.3	4872.2	5089.3	5163.6	5203.5	5155.0	5209.2
17.5°	5172.1	5089.3	4940.8	4723.7	4649.5	4709.5	4932.2	5095.0	5146.4	5095.0	5143.6
20°	5103.6	5006.5	4795.1	4546.7	4498.1	4552.4	4775.1	5012.2	5083.6	5020.8	5055.0
22.5°	5029.3	4912.2	4632.3	4409.6	4386.7	4421.0	4623.8	4909.4	5003.6	4937.9	4960.8
25°	4937.9	4800.8	4469.6	4283.9	4266.8	4286.8	4475.3	4789.4	4912.2	4843.7	4852.3
27.5°	4840.8	4692.3	4315.3	4178.3	4161.1	4169.7	4326.8	4655.2	4806.6	4738.0	4723.7
30°	4723.7	4563.8	4161.1	4035.5	4018.3	4049.7	4184.0	4518.1	4689.5	4620.9	4578.1
32.5°	4606.6	4423.9	4009.7	3912.6	3878.4	3906.9	4035.5	4375.3	4560.9	4489.5	4418.1
35°	4461.0	4275.4	3852.7	3755.6	3727.0	3758.4	3886.9	4226.8	4415.3	4343.9	4246.8
37.5°	4309.6	4118.3	3709.9	3621.3	3569.9	3607.1	3735.6	4072.6	4263.9	4189.7	4069.7
40°	4158.3	3952.6	3549.9	3458.6	3392.9	3447.1	3578.5	3909.8	4092.6	4024.0	3886.9
42.5°	3981.2	3787.0	3392.9	3264.3	3078.7	3252.9	3410.0	3747.0	3915.5	3849.8	3684.2
45°	3795.6	3609.9	3227.2	2915.9	2433.3	2944.5	3238.6	3575.6	3709.9	3647.0	3467.1
47.5°	3584.2	3427.1	3058.7	2584.6	2116.3	2613.2	3064.4	3412.9	3515.7	3447.1	3247.2
50°	3398.6	3244.4	2881.7	2304.7	1893.5	2336.2	2878.8	3230.1	3315.8	3252.9	3030.2
52.5°	3187.2	3053.0	2690.3	2056.3	1727.8	2087.7	2684.6	3041.6	3110.1	3035.9	2813.1
55°	2978.8	2858.8	2487.5	1836.4	1582.2	1864.9	2481.8	2847.4	2901.6	2816.0	2584.6
57.5°	2767.4	2658.9	2279.0	1639.3	1448.0	1670.7	2293.3	2647.5	2684.6	2576.1	2364.7
60°	2547.5	2456.1	2067.7	1465.1	1316.6	1490.8	2062.0	2447.5	2470.4	2353.3	2150.5
62.5°	2327.6	2244.8	1856.4	1305.2	1182.4	1322.3	1870.6	2236.2	2250.5	2139.1	1930.6
65°	2102.0	2024.9	1650.7	1136.7	1053.8	1165.2	1665.0	2016.3	2030.6	1904.9	1716.4
67.5°	1867.8	1805.0	1430.8	1008.1	931.0	1016.7	1459.4	1793.5	1802.1	1679.3	1507.9
70°	1633.6	1579.3	1236.6	868.2	811.1	871.1	1256.6	1547.9	1565.1	1433.7	1296.6
72.5°	1393.7	1350.9	1048.1	722.6	671.1	722.6	1059.6	1322.3	1333.7	1225.2	1091.0
75°	1150.9	1119.5	856.8	579.8	539.8	576.9	862.5	1096.7	1096.7	993.9	888.2
77.5°	916.8	893.9	656.9	445.5	417.0	439.8	659.7	868.2	862.5	782.5	699.7
80°	685.4	668.3	471.2	322.7	302.7	314.2	471.2	642.6	642.6	585.5	485.5
82.5°	491.2	471.2	311.3	211.3	199.9	205.6	305.6	448.4	457.0	414.1	328.4
85°	325.6	279.9	168.5	117.1	108.5	111.4	159.9	259.9	285.6	239.9	171.4
87.5°	142.8	94.2	42.8	17.1	8.6	11.4	34.3	82.8	108.5	71.4	22.8
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°	5323.5	5323.5	5323.5	5323.5	5323.5	5323.5
2.5°	5340.6	5294.9	5312.1	5323.5	5312.1	5363.5
5°	5334.9	5314.9	5312.1	5326.3	5303.5	5354.9
7.5°	5326.3	5314.9	5312.1	5317.8	5289.2	5337.8
10°	5306.3	5289.2	5294.9	5303.5	5266.4	5312.1
12.5°	5269.2	5252.1	5254.9	5283.5	5232.1	5272.1
15°	5206.4	5186.4	5206.4	5237.8	5192.1	5226.4
17.5°	5123.6	5092.2	5126.4	5175.0	5140.7	5172.1
20°	5017.9	4969.3	5006.5	5095.0	5063.6	5103.6
22.5°	4889.4	4829.4	4866.5	4995.1	4986.5	5029.3
25°	4743.7	4672.3	4723.7	4880.8	4897.9	4937.9
27.5°	4580.9	4501.0	4569.5	4755.2	4795.1	4840.8
30°	4403.9	4318.2	4398.2	4615.2	4675.2	4723.7
32.5°	4221.1	4126.8	4218.2	4458.1	4543.8	4606.6
35°	4029.7	3932.6	4035.5	4295.3	4398.2	4461.0
37.5°	3824.1	3729.9	3841.2	4124.0	4246.8	4309.6
40°	3612.8	3507.1	3632.8	3921.2	4084.0	4158.3
42.5°	3395.7	3264.3	3418.6	3729.9	3906.9	3981.2
45°	3153.0	2970.2	3178.7	3527.1	3712.7	3795.6
47.5°	2910.2	2727.4	2938.8	3310.0	3510.0	3584.2
50°	2676.0	2518.9	2687.4	3073.0	3304.3	3398.6
52.5°	2461.8	2333.3	2476.1	2841.7	3093.0	3187.2
55°	2261.9	2162.0	2279.0	2613.2	2870.2	2978.8
57.5°	2073.4	2010.6	2090.6	2396.1	2664.6	2767.4
60°	1896.3	1853.5	1910.6	2181.9	2421.8	2547.5
62.5°	1722.1	1699.3	1742.1	1956.3	2196.2	2327.6
65°	1553.6	1547.9	1570.8	1759.3	1959.2	2102.0
67.5°	1385.1	1382.3	1396.6	1550.8	1727.8	1867.8
70°	1216.6	1233.8	1225.2	1325.2	1496.5	1633.6
72.5°	1045.3	1071.0	1056.7	1119.5	1285.2	1393.7
75°	853.9	888.2	859.6	931.0	1033.9	1150.9
77.5°	656.9	694.0	659.7	722.6	833.9	916.8
80°	471.2	505.5	476.9	525.5	622.6	685.4
82.5°	297.0	322.7	299.9	348.4	445.5	491.2
85°	131.4	145.7	151.4	188.5	274.2	325.6
87.5°	5.7	2.9	5.7	37.1	97.1	142.8
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)