

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: P520699

Luminaire Tested: **8WSLA-175-L830-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520699
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-L830-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

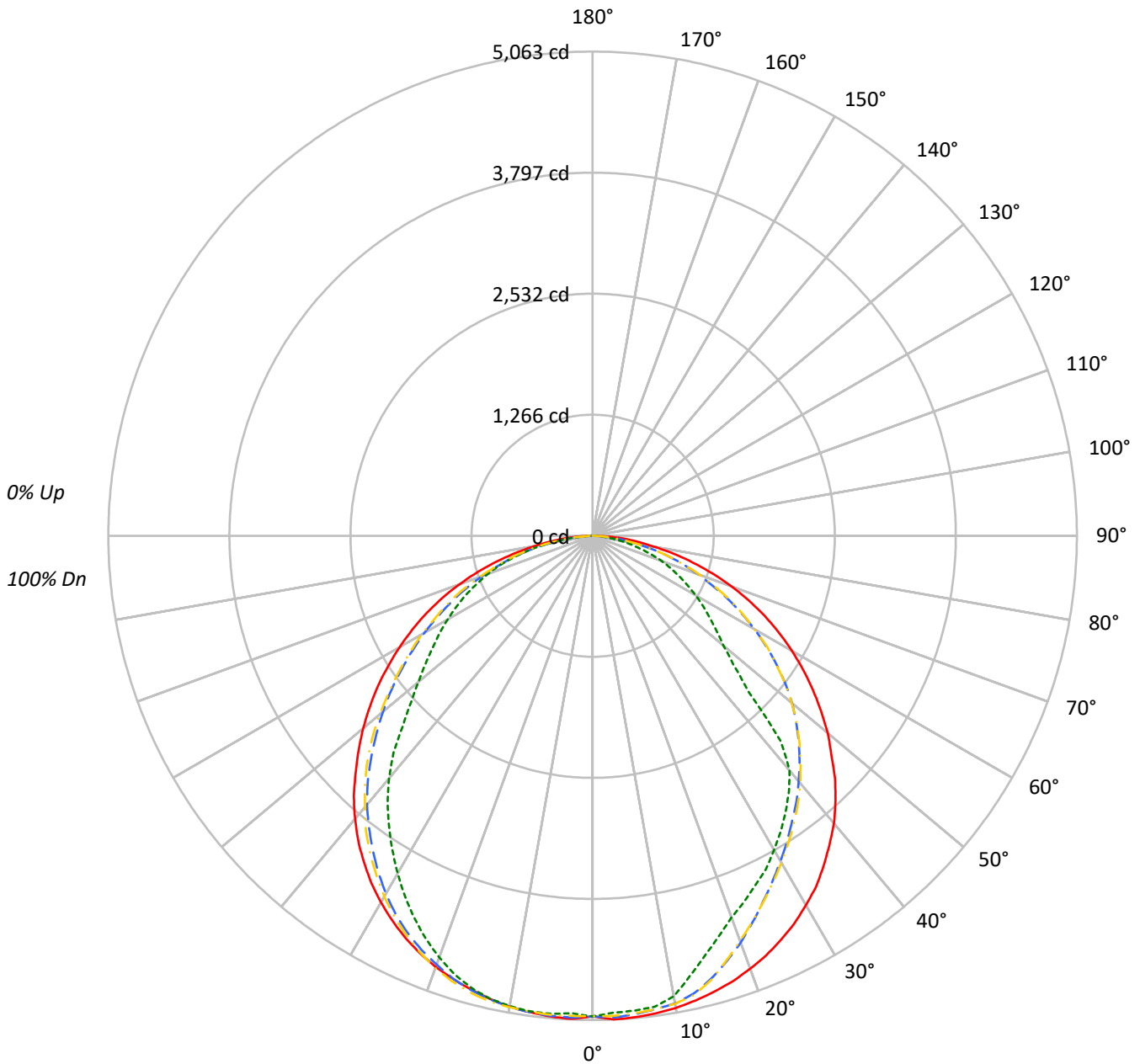
Lumens per Lamp: N/A
Luminaire Lumens: 13480.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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				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°	13522	13522	13522	13522
5°	13654	13464	13632	13552
10°	13701	13362	13664	13642
15°	13743	12655	13684	13638
20°	13795	12159	13741	13432
25°	13839	11958	13767	13095
30°	13855	11786	13754	12665
35°	13833	11557	13691	12195
40°	13788	11250	13570	11629
45°	13634	8741	13327	10669
50°	13430	7482	13103	9954
55°	13191	7007	12850	9574
60°	12941	6688	12550	9416
65°	12634	6334	12204	9303
70°	12132	6024	11623	9163
75°	11295	5297	10763	8717
80°	10026	4429	9399	7393
85°	9488	3162	8324	4245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.5	3.5
10°-20°	1361.8	10.1
20°-30°	2034.9	15.1
30°-40°	2422.2	18.0
40°-50°	2421.2	18.0
50°-60°	2083.4	15.5
60°-70°	1568.1	11.6
70°-80°	893.5	6.6
80°-90°	217.5	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°	3874.1	28.7
0°-40°	6296.3	46.7
0°-60°	10800.9	80.1
0°-90°	13480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13480.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5025	5025	5025	5025	5025	
5°	5055	4984	5046	5017	5055	481
15°	4933	4542	4912	4896	4933	1394
25°	4661	4028	4637	4410	4661	2149
35°	4211	3518	4168	3712	4211	2635
45°	3583	2297	3502	2804	3583	2759
55°	2812	1494	2739	2041	2812	2514
65°	1984	995	1917	1461	1984	1959
75°	1086	510	1035	838	1086	1150
85°	307	102	270	138	307	334
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°	5024.9	5024.9	5024.9	5024.9	5024.9	5024.9	5024.9	5024.9	5024.9	5024.9	5024.9
2.5°	5062.6	5016.8	5043.8	5035.7	4992.5	5008.7	5024.9	5008.7	5057.2	5014.1	5043.8
5°	5054.6	5006.0	5022.2	5006.0	4984.5	4989.9	5014.1	4997.9	5046.5	5000.6	5038.4
7.5°	5038.4	4979.1	4995.2	4987.2	4968.3	4971.0	4995.2	4981.8	5024.9	4981.8	5024.9
10°	5014.1	4952.1	4965.6	4930.5	4890.1	4919.8	4968.3	4954.8	5000.6	4952.1	5000.6
12.5°	4976.4	4914.4	4900.9	4785.0	4712.2	4768.8	4917.1	4917.1	4960.2	4914.4	4965.6
15°	4933.2	4865.8	4793.1	4617.8	4542.4	4599.0	4803.8	4873.9	4911.7	4865.8	4917.1
17.5°	4882.0	4803.8	4663.7	4458.8	4388.7	4445.3	4655.6	4809.2	4857.8	4809.2	4855.1
20°	4817.3	4725.7	4526.2	4291.7	4245.8	4297.0	4507.3	4731.1	4798.5	4739.1	4771.5
22.5°	4747.2	4636.7	4372.5	4162.3	4140.7	4173.0	4364.4	4634.0	4723.0	4661.0	4682.5
25°	4661.0	4531.6	4218.9	4043.6	4027.5	4046.3	4224.3	4520.8	4636.7	4572.0	4580.1
27.5°	4569.3	4429.1	4073.3	3943.9	3927.7	3935.8	4084.1	4394.1	4537.0	4472.3	4458.8
30°	4458.8	4307.8	3927.7	3809.1	3792.9	3822.6	3949.3	4264.7	4426.4	4361.7	4321.3
32.5°	4348.3	4175.7	3784.8	3693.2	3660.8	3687.8	3809.1	4129.9	4305.1	4237.7	4170.3
35°	4210.8	4035.6	3636.6	3544.9	3518.0	3547.6	3668.9	3989.7	4167.6	4100.3	4008.6
37.5°	4067.9	3887.3	3501.8	3418.2	3369.7	3404.7	3526.1	3844.2	4024.8	3954.7	3841.5
40°	3925.0	3730.9	3350.8	3264.6	3202.6	3253.8	3377.8	3690.5	3863.0	3798.3	3668.9
42.5°	3757.9	3574.6	3202.6	3081.3	2906.0	3070.5	3218.7	3536.8	3695.9	3633.9	3477.5
45°	3582.7	3407.4	3046.2	2752.4	2296.8	2779.3	3057.0	3375.1	3501.8	3442.5	3272.7
47.5°	3383.2	3234.9	2887.2	2439.7	1997.6	2466.6	2892.6	3221.4	3318.5	3253.8	3065.1
50°	3208.0	3062.4	2720.0	2175.5	1787.3	2205.1	2717.3	3048.9	3129.8	3070.5	2860.2
52.5°	3008.5	2881.8	2539.4	1940.9	1630.9	1970.6	2534.0	2871.0	2935.7	2865.6	2655.3
55°	2811.7	2698.5	2348.0	1733.4	1493.5	1760.3	2342.6	2687.7	2738.9	2658.0	2439.7
57.5°	2612.2	2509.8	2151.2	1547.4	1366.8	1577.0	2164.7	2499.0	2534.0	2431.6	2232.1
60°	2404.6	2318.4	1951.7	1382.9	1242.7	1407.2	1946.3	2310.3	2331.8	2221.3	2029.9
62.5°	2197.0	2118.9	1752.2	1232.0	1116.0	1248.1	1765.7	2110.8	2124.3	2019.1	1822.3
65°	1984.1	1911.3	1558.1	1072.9	994.7	1099.9	1571.6	1903.2	1916.7	1798.1	1620.2
67.5°	1763.0	1703.7	1350.6	951.6	878.8	959.7	1377.5	1692.9	1701.0	1585.1	1423.4
70°	1542.0	1490.8	1167.3	819.5	765.6	822.2	1186.1	1461.1	1477.3	1353.3	1223.9
72.5°	1315.5	1275.1	989.3	682.0	633.5	682.0	1000.1	1248.1	1258.9	1156.5	1029.8
75°	1086.4	1056.7	808.7	547.2	509.5	544.5	814.1	1035.2	1035.2	938.1	838.4
77.5°	865.3	843.8	620.0	420.5	393.6	415.1	622.7	819.5	814.1	738.6	660.5
80°	647.0	630.8	444.8	304.6	285.8	296.5	444.8	606.5	606.5	552.6	458.3
82.5°	463.7	444.8	293.8	199.5	188.7	194.1	288.4	423.2	431.3	390.9	310.0
85°	307.3	264.2	159.0	110.5	102.4	105.1	151.0	245.3	269.6	226.4	161.7
87.5°	134.8	89.0	40.4	16.2	8.1	10.8	32.3	78.2	102.4	67.4	21.6
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°	5024.9	5024.9	5024.9	5024.9	5024.9	5024.9
2.5°	5041.1	4997.9	5014.1	5024.9	5014.1	5062.6
5°	5035.7	5016.8	5014.1	5027.6	5006.0	5054.6
7.5°	5027.6	5016.8	5014.1	5019.5	4992.5	5038.4
10°	5008.7	4992.5	4997.9	5006.0	4971.0	5014.1
12.5°	4973.7	4957.5	4960.2	4987.2	4938.6	4976.4
15°	4914.4	4895.5	4914.4	4944.0	4900.9	4933.2
17.5°	4836.2	4806.5	4838.9	4884.7	4852.4	4882.0
20°	4736.5	4690.6	4725.7	4809.2	4779.6	4817.3
22.5°	4615.1	4558.5	4593.6	4714.9	4706.8	4747.2
25°	4477.7	4410.3	4458.8	4607.1	4623.2	4661.0
27.5°	4324.0	4248.5	4313.2	4488.4	4526.2	4569.3
30°	4156.9	4076.0	4151.5	4356.3	4413.0	4458.8
32.5°	3984.3	3895.4	3981.6	4208.1	4289.0	4348.3
35°	3803.7	3712.1	3809.1	4054.4	4151.5	4210.8
37.5°	3609.6	3520.7	3625.8	3892.7	4008.6	4067.9
40°	3410.1	3310.4	3429.0	3701.3	3854.9	3925.0
42.5°	3205.3	3081.3	3226.8	3520.7	3687.8	3757.9
45°	2976.1	2803.6	3000.4	3329.3	3504.5	3582.7
47.5°	2747.0	2574.5	2773.9	3124.4	3313.1	3383.2
50°	2525.9	2377.7	2536.7	2900.6	3119.0	3208.0
52.5°	2323.7	2202.4	2337.2	2682.3	2919.5	3008.5
55°	2135.0	2040.7	2151.2	2466.6	2709.2	2811.7
57.5°	1957.1	1897.8	1973.3	2261.7	2515.1	2612.2
60°	1790.0	1749.5	1803.5	2059.6	2286.0	2404.6
62.5°	1625.5	1604.0	1644.4	1846.6	2073.0	2197.0
65°	1466.5	1461.1	1482.7	1660.6	1849.3	1984.1
67.5°	1307.4	1304.7	1318.2	1463.8	1630.9	1763.0
70°	1148.4	1164.6	1156.5	1250.8	1412.6	1542.0
72.5°	986.6	1010.9	997.4	1056.7	1213.1	1315.5
75°	806.0	838.4	811.4	878.8	975.9	1086.4
77.5°	620.0	655.1	622.7	682.0	787.2	865.3
80°	444.8	477.1	450.2	496.0	587.7	647.0
82.5°	280.4	304.6	283.1	328.9	420.5	463.7
85°	124.0	137.5	142.9	177.9	258.8	307.3
87.5°	5.4	2.7	5.4	35.0	91.7	134.8
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)