

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: P520705

Luminaire Tested: **8WSLA-175-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520705
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-L840-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

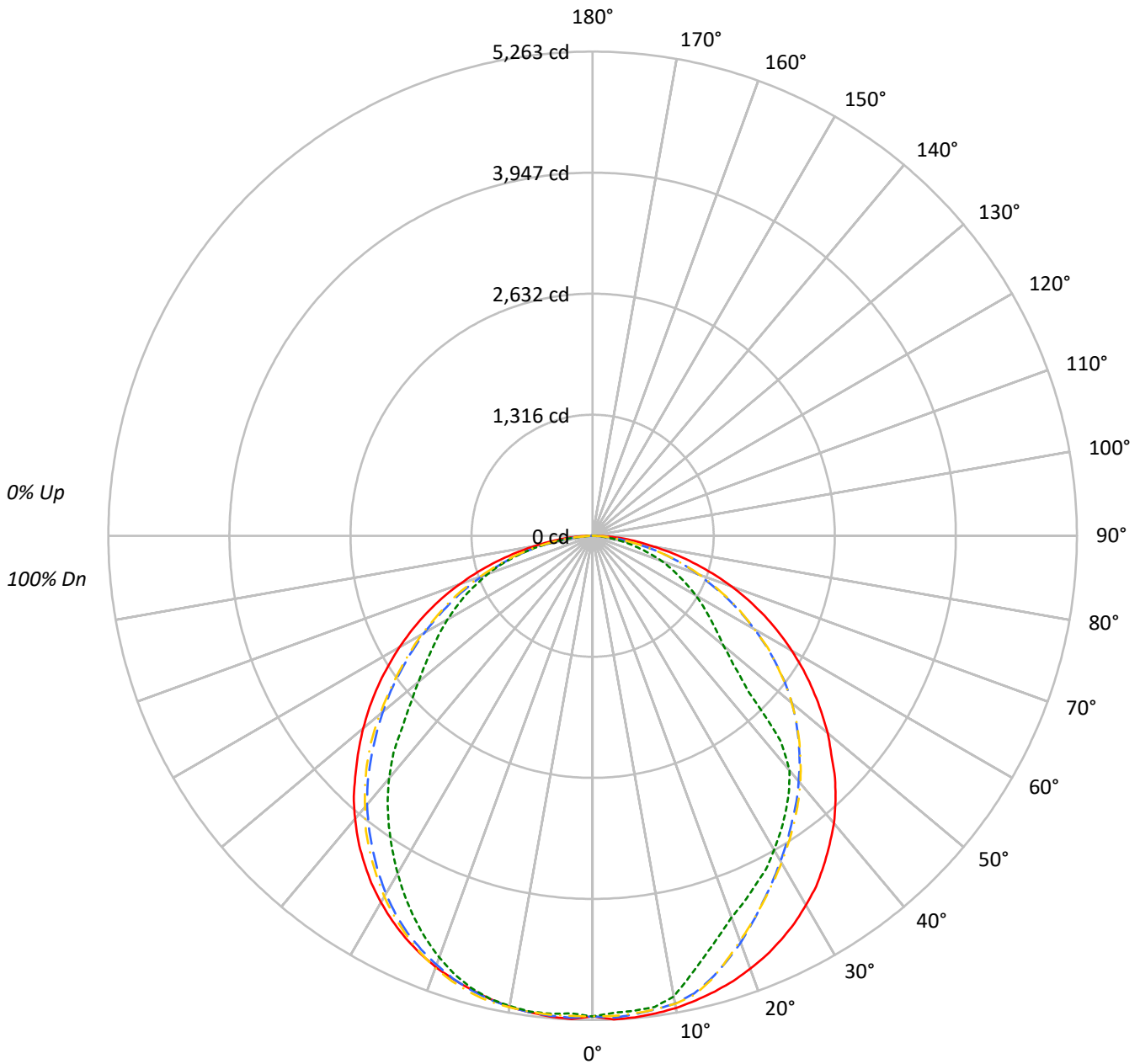
Lumens per Lamp: N/A
Luminaire Lumens: 14014.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	14058	14058	14058	14058
5°	14195	13998	14172	14088
10°	14244	13891	14205	14182
15°	14288	13156	14225	14179
20°	14342	12640	14285	13964
25°	14387	12432	14313	13614
30°	14403	12253	14299	13167
35°	14381	12015	14233	12677
40°	14334	11696	14108	12089
45°	14174	9087	13854	11092
50°	13962	7779	13622	10348
55°	13714	7284	13359	9953
60°	13454	6953	13047	9789
65°	13134	6585	12688	9672
70°	12613	6262	12084	9526
75°	11743	5507	11189	9062
80°	10423	4604	9772	7688
85°	9865	3288	8654	4412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.4	3.5
10°-20°	1415.7	10.1
20°-30°	2115.5	15.1
30°-40°	2518.2	18.0
40°-50°	2517.1	18.0
50°-60°	2165.9	15.5
60°-70°	1630.2	11.6
70°-80°	928.9	6.6
80°-90°	226.1	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°	4027.6	28.7
0°-40°	6545.8	46.7
0°-60°	11228.8	80.1
0°-90°	14014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14014.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5224	5224	5224	5224	5224	
5°	5255	5182	5246	5216	5255	500
15°	5129	4722	5106	5089	5129	1449
25°	4846	4187	4820	4585	4846	2234
35°	4378	3657	4333	3859	4378	2739
45°	3725	2388	3640	2915	3725	2868
55°	2923	1553	2847	2122	2923	2613
65°	2063	1034	1993	1519	2063	2037
75°	1129	530	1076	872	1129	1196
85°	320	106	280	143	320	348
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°	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0
2.5°	5263.2	5215.5	5243.6	5235.2	5190.3	5207.1	5224.0	5207.1	5257.6	5212.7	5243.6
5°	5254.8	5204.3	5221.2	5204.3	5181.9	5187.5	5212.7	5195.9	5246.4	5198.7	5238.0
7.5°	5238.0	5176.3	5193.1	5184.7	5165.1	5167.9	5193.1	5179.1	5224.0	5179.1	5224.0
10°	5212.7	5148.3	5162.3	5125.9	5083.8	5114.7	5165.1	5151.1	5198.7	5148.3	5198.7
12.5°	5173.5	5109.1	5095.0	4974.5	4898.9	4957.7	5111.9	5111.9	5156.7	5109.1	5162.3
15°	5128.7	5058.6	4982.9	4800.8	4722.3	4781.2	4994.1	5067.0	5106.2	5058.6	5111.9
17.5°	5075.4	4994.1	4848.4	4635.4	4562.6	4621.4	4840.0	4999.8	5050.2	4999.8	5047.4
20°	5008.2	4912.9	4705.5	4461.7	4414.0	4467.3	4685.9	4918.5	4988.5	4926.9	4960.5
22.5°	4935.3	4820.4	4545.7	4327.1	4304.7	4338.3	4537.3	4817.6	4910.1	4845.6	4868.0
25°	4845.6	4711.1	4386.0	4203.8	4187.0	4206.6	4391.6	4699.9	4820.4	4753.1	4761.5
27.5°	4750.3	4604.6	4234.7	4100.1	4083.3	4091.7	4245.9	4568.2	4716.7	4649.4	4635.4
30°	4635.4	4478.5	4083.3	3960.0	3943.2	3974.0	4105.7	4433.6	4601.8	4534.5	4492.5
32.5°	4520.5	4341.2	3934.8	3839.5	3805.9	3833.9	3960.0	4293.5	4475.7	4405.6	4335.5
35°	4377.6	4195.4	3780.6	3685.4	3657.3	3688.2	3814.3	4147.8	4332.7	4262.7	4167.4
37.5°	4229.1	4041.3	3640.5	3553.6	3503.2	3539.6	3665.7	3996.4	4184.2	4111.3	3993.6
40°	4080.5	3878.7	3483.6	3393.9	3329.4	3382.7	3511.6	3836.7	4016.1	3948.8	3814.3
42.5°	3906.8	3716.2	3329.4	3203.3	3021.2	3192.1	3346.2	3676.9	3842.3	3777.8	3615.3
45°	3724.6	3542.4	3166.9	2861.4	2387.8	2889.4	3178.1	3508.8	3640.5	3578.9	3402.3
47.5°	3517.2	3363.1	3001.5	2536.3	2076.7	2564.3	3007.1	3349.0	3449.9	3382.7	3186.5
50°	3335.0	3183.7	2827.8	2261.7	1858.1	2292.5	2825.0	3169.7	3253.8	3192.1	2973.5
52.5°	3127.6	2995.9	2640.0	2017.8	1695.5	2048.7	2634.4	2984.7	3052.0	2979.1	2760.5
55°	2923.1	2805.4	2441.0	1802.0	1552.6	1830.1	2435.4	2794.1	2847.4	2763.3	2536.3
57.5°	2715.7	2609.2	2236.4	1608.7	1420.9	1639.5	2250.4	2598.0	2634.4	2527.9	2320.5
60°	2499.9	2410.2	2029.0	1437.7	1292.0	1462.9	2023.4	2401.8	2424.2	2309.3	2110.3
62.5°	2284.1	2202.8	1821.7	1280.8	1160.3	1297.6	1835.7	2194.4	2208.4	2099.1	1894.5
65°	2062.7	1987.0	1619.9	1115.4	1034.1	1143.4	1633.9	1978.6	1992.6	1869.3	1684.3
67.5°	1832.9	1771.2	1404.1	989.3	913.6	997.7	1432.1	1760.0	1768.4	1647.9	1479.7
70°	1603.1	1549.8	1213.5	852.0	795.9	854.8	1233.1	1519.0	1535.8	1406.9	1272.4
72.5°	1367.6	1325.6	1028.5	709.0	658.6	709.0	1039.7	1297.6	1308.8	1202.3	1070.6
75°	1129.4	1098.6	840.8	568.9	529.7	566.1	846.4	1076.2	1076.2	975.3	871.6
77.5°	899.6	877.2	644.6	437.2	409.2	431.6	647.4	852.0	846.4	767.9	686.6
80°	672.6	655.8	462.4	316.7	297.1	308.3	462.4	630.6	630.6	574.5	476.4
82.5°	482.0	462.4	305.5	207.4	196.2	201.8	299.9	440.0	448.4	406.4	322.3
85°	319.5	274.7	165.4	114.9	106.5	109.3	156.9	255.0	280.3	235.4	168.2
87.5°	140.1	92.5	42.0	16.8	8.4	11.2	33.6	81.3	106.5	70.1	22.4
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°	5224.0	5224.0	5224.0	5224.0	5224.0	5224.0
2.5°	5240.8	5195.9	5212.7	5224.0	5212.7	5263.2
5°	5235.2	5215.5	5212.7	5226.8	5204.3	5254.8
7.5°	5226.8	5215.5	5212.7	5218.4	5190.3	5238.0
10°	5207.1	5190.3	5195.9	5204.3	5167.9	5212.7
12.5°	5170.7	5153.9	5156.7	5184.7	5134.3	5173.5
15°	5109.1	5089.4	5109.1	5139.9	5095.0	5128.7
17.5°	5027.8	4996.9	5030.6	5078.2	5044.6	5075.4
20°	4924.1	4876.4	4912.9	4999.8	4968.9	5008.2
22.5°	4798.0	4739.1	4775.5	4901.7	4893.3	4935.3
25°	4655.0	4585.0	4635.4	4789.6	4806.4	4845.6
27.5°	4495.3	4416.8	4484.1	4666.2	4705.5	4750.3
30°	4321.5	4237.5	4315.9	4528.9	4587.8	4635.4
32.5°	4142.2	4049.7	4139.4	4374.8	4458.9	4520.5
35°	3954.4	3859.1	3960.0	4215.0	4315.9	4377.6
37.5°	3752.6	3660.1	3769.4	4046.9	4167.4	4229.1
40°	3545.2	3441.5	3564.8	3847.9	4007.6	4080.5
42.5°	3332.2	3203.3	3354.7	3660.1	3833.9	3906.8
45°	3094.0	2914.7	3119.2	3461.2	3643.3	3724.6
47.5°	2855.8	2676.4	2883.8	3248.2	3444.3	3517.2
50°	2626.0	2471.9	2637.2	3015.5	3242.6	3335.0
52.5°	2415.8	2289.7	2429.8	2788.5	3035.2	3127.6
55°	2219.6	2121.5	2236.4	2564.3	2816.6	2923.1
57.5°	2034.7	1973.0	2051.5	2351.3	2614.8	2715.7
60°	1860.9	1818.9	1874.9	2141.1	2376.6	2499.9
62.5°	1689.9	1667.5	1709.6	1919.7	2155.2	2284.1
65°	1524.6	1519.0	1541.4	1726.4	1922.6	2062.7
67.5°	1359.2	1356.4	1370.4	1521.8	1695.5	1832.9
70°	1193.9	1210.7	1202.3	1300.4	1468.5	1603.1
72.5°	1025.7	1051.0	1036.9	1098.6	1261.1	1367.6
75°	838.0	871.6	843.6	913.6	1014.5	1129.4
77.5°	644.6	681.0	647.4	709.0	818.3	899.6
80°	462.4	496.1	468.0	515.7	611.0	672.6
82.5°	291.5	316.7	294.3	341.9	437.2	482.0
85°	128.9	142.9	148.5	185.0	269.0	319.5
87.5°	5.6	2.8	5.6	36.4	95.3	140.1
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)