

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: P520729

Luminaire Tested: **8WSLA-200-L840-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520729
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-200-L840-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

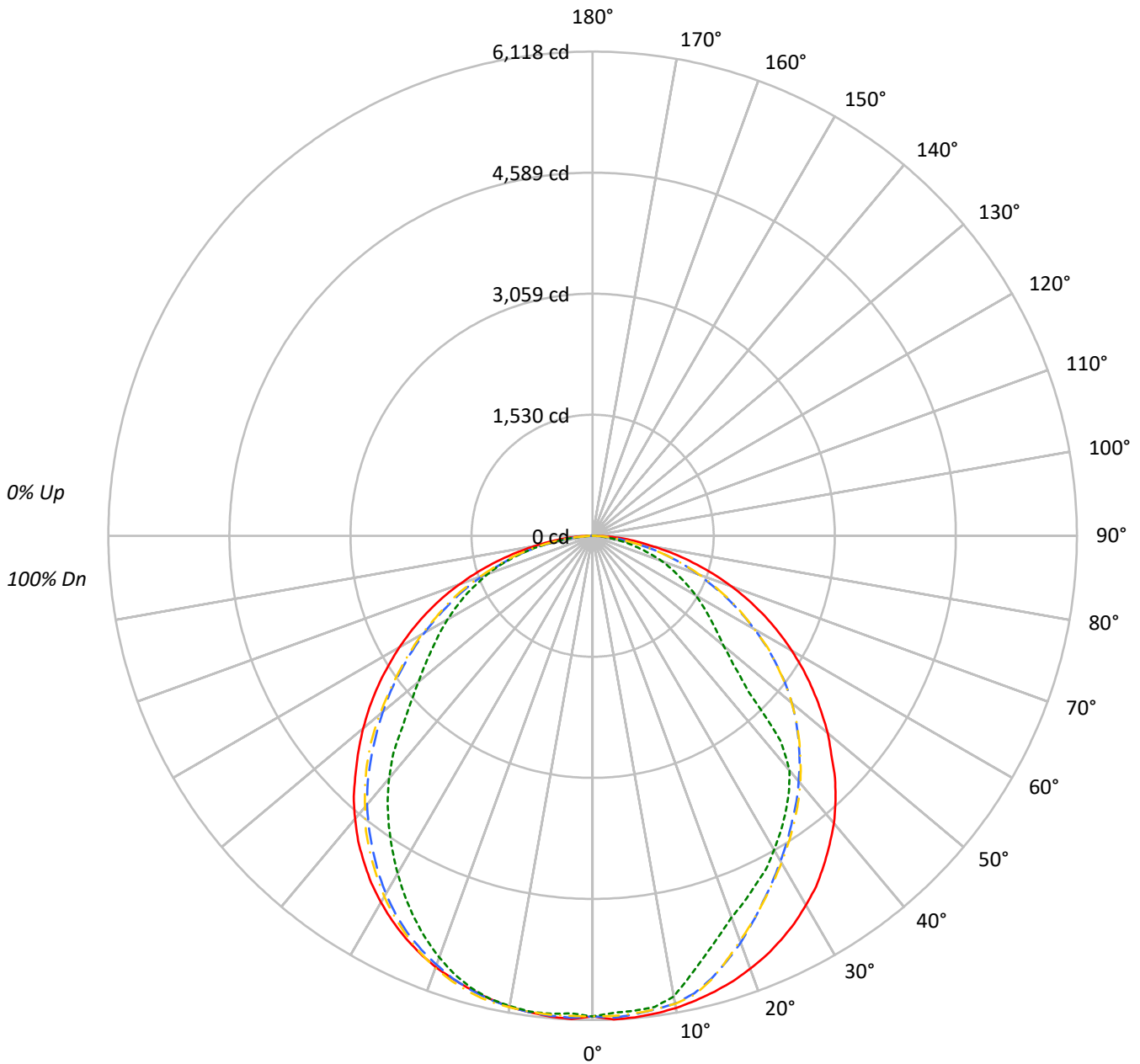
Lumens per Lamp: N/A
Luminaire Lumens: 16291.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 152.3
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°	16342	16342	16342	16342
5°	16501	16272	16474	16378
10°	16558	16149	16514	16487
15°	16610	15294	16537	16483
20°	16672	14694	16607	16234
25°	16725	14452	16638	15825
30°	16744	14243	16622	15306
35°	16717	13967	16546	14737
40°	16663	13596	16400	14054
45°	16478	10563	16105	12894
50°	16230	9043	15835	12030
55°	15942	8468	15529	11570
60°	15641	8083	15167	11380
65°	15268	7655	14749	11244
70°	14662	7279	14047	11073
75°	13650	6402	13007	10534
80°	12117	5351	11359	8937
85°	11467	3822	10059	5132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.0	3.5
10°-20°	1645.8	10.1
20°-30°	2459.2	15.1
30°-40°	2927.3	18.0
40°-50°	2926.1	18.0
50°-60°	2517.8	15.5
60°-70°	1895.0	11.6
70°-80°	1079.9	6.6
80°-90°	262.9	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°	4682.0	28.7
0°-40°	7609.3	46.7
0°-60°	13053.2	80.1
0°-90°	16291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16291.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6073	6073	6073	6073	6073	
5°	6109	6024	6099	6063	6109	581
15°	5962	5490	5936	5916	5962	1684
25°	5633	4867	5604	5330	5633	2597
35°	5089	4252	5037	4486	5089	3184
45°	4330	2776	4232	3388	4330	3334
55°	3398	1805	3310	2466	3398	3038
65°	2398	1202	2316	1766	2398	2368
75°	1313	616	1251	1013	1313	1390
85°	371	124	326	166	371	404
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°	6072.7	6072.7	6072.7	6072.7	6072.7	6072.7	6072.7	6072.7	6072.7	6072.7	6072.7
2.5°	6118.4	6063.0	6095.6	6085.8	6033.7	6053.2	6072.7	6053.2	6111.8	6059.7	6095.6
5°	6108.6	6049.9	6069.5	6049.9	6023.9	6030.4	6059.7	6040.2	6098.8	6043.4	6089.0
7.5°	6089.0	6017.4	6036.9	6027.1	6004.3	6007.6	6036.9	6020.6	6072.7	6020.6	6072.7
10°	6059.7	5984.8	6001.1	5958.7	5909.9	5945.7	6004.3	5988.0	6043.4	5984.8	6043.4
12.5°	6014.1	5939.2	5922.9	5782.8	5694.8	5763.2	5942.4	5942.4	5994.6	5939.2	6001.1
15°	5962.0	5880.5	5792.6	5580.8	5489.6	5558.0	5805.6	5890.3	5935.9	5880.5	5942.4
17.5°	5900.1	5805.6	5636.2	5388.6	5303.9	5372.3	5626.4	5812.1	5870.8	5812.1	5867.5
20°	5821.9	5711.1	5470.0	5186.6	5131.2	5193.1	5447.2	5717.6	5799.1	5727.4	5766.5
22.5°	5737.2	5603.6	5284.3	5030.2	5004.2	5043.2	5274.6	5600.3	5707.9	5632.9	5659.0
25°	5632.9	5476.5	5098.6	4886.9	4867.3	4890.1	5105.1	5463.5	5603.6	5525.4	5535.2
27.5°	5522.2	5352.7	4922.7	4766.3	4746.8	4756.6	4935.7	5310.4	5483.1	5404.9	5388.6
30°	5388.6	5206.1	4746.8	4603.4	4583.9	4619.7	4772.8	5154.0	5349.5	5271.3	5222.4
32.5°	5255.0	5046.5	4574.1	4463.3	4424.2	4456.8	4603.4	4991.1	5202.9	5121.4	5040.0
35°	5088.9	4877.1	4394.9	4284.2	4251.6	4287.4	4434.0	4821.7	5036.7	4955.3	4844.5
37.5°	4916.2	4697.9	4232.0	4131.0	4072.4	4114.7	4261.3	4645.8	4864.1	4779.4	4642.5
40°	4743.5	4508.9	4049.6	3945.3	3870.4	3932.3	4082.2	4460.1	4668.6	4590.4	4434.0
42.5°	4541.5	4320.0	3870.4	3723.8	3512.0	3710.8	3889.9	4274.4	4466.6	4391.7	4202.7
45°	4329.8	4118.0	3681.4	3326.3	2775.7	3358.9	3694.5	4078.9	4232.0	4160.4	3955.1
47.5°	4088.7	3909.5	3489.2	2948.4	2414.1	2981.0	3495.7	3893.2	4010.5	3932.3	3704.2
50°	3876.9	3701.0	3287.2	2629.1	2160.0	2665.0	3284.0	3684.7	3782.4	3710.8	3456.6
52.5°	3635.8	3482.7	3069.0	2345.7	1971.0	2381.5	3062.4	3469.7	3547.9	3463.2	3209.0
55°	3398.0	3261.2	2837.6	2094.8	1804.9	2127.4	2831.1	3248.1	3310.0	3212.3	2948.4
57.5°	3156.9	3033.1	2599.8	1870.0	1651.8	1905.9	2616.1	3020.1	3062.4	2938.6	2697.6
60°	2906.1	2801.8	2358.7	1671.3	1501.9	1700.6	2352.2	2792.0	2818.1	2684.5	2453.2
62.5°	2655.2	2560.7	2117.6	1488.9	1348.8	1508.4	2133.9	2550.9	2567.2	2440.2	2202.3
65°	2397.8	2309.9	1883.1	1296.6	1202.2	1329.2	1899.4	2300.1	2316.4	2173.0	1958.0
67.5°	2130.7	2059.0	1632.2	1150.0	1062.1	1159.8	1664.8	2046.0	2055.7	1915.7	1720.2
70°	1863.5	1801.6	1410.7	990.4	925.2	993.7	1433.5	1765.8	1785.3	1635.5	1479.1
72.5°	1589.9	1541.0	1195.7	824.3	765.6	824.3	1208.7	1508.4	1521.4	1397.6	1244.5
75°	1312.9	1277.1	977.4	661.4	615.7	658.1	983.9	1251.0	1251.0	1133.8	1013.2
77.5°	1045.8	1019.7	749.3	508.2	475.7	501.7	752.6	990.4	983.9	892.7	798.2
80°	781.9	762.4	537.6	368.1	345.3	358.4	537.6	733.0	733.0	667.9	553.8
82.5°	560.4	537.6	355.1	241.1	228.1	234.6	348.6	511.5	521.3	472.4	374.7
85°	371.4	319.3	192.2	133.6	123.8	127.1	182.4	296.5	325.8	273.7	195.5
87.5°	162.9	107.5	48.9	19.5	9.8	13.0	39.1	94.5	123.8	81.4	26.1
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°	6072.7	6072.7	6072.7	6072.7	6072.7	6072.7
2.5°	6092.3	6040.2	6059.7	6072.7	6059.7	6118.4
5°	6085.8	6063.0	6059.7	6076.0	6049.9	6108.6
7.5°	6076.0	6063.0	6059.7	6066.2	6033.7	6089.0
10°	6053.2	6033.7	6040.2	6049.9	6007.6	6059.7
12.5°	6010.8	5991.3	5994.6	6027.1	5968.5	6014.1
15°	5939.2	5916.4	5939.2	5975.0	5922.9	5962.0
17.5°	5844.7	5808.9	5848.0	5903.3	5864.2	5900.1
20°	5724.2	5668.8	5711.1	5812.1	5776.3	5821.9
22.5°	5577.5	5509.1	5551.5	5698.1	5688.3	5737.2
25°	5411.4	5329.9	5388.6	5567.8	5587.3	5632.9
27.5°	5225.7	5134.5	5212.7	5424.4	5470.0	5522.2
30°	5023.7	4926.0	5017.2	5264.8	5333.2	5388.6
32.5°	4815.2	4707.7	4811.9	5085.6	5183.3	5255.0
35°	4596.9	4486.1	4603.4	4899.9	5017.2	5088.9
37.5°	4362.3	4254.8	4381.9	4704.4	4844.5	4916.2
40°	4121.3	4000.7	4144.1	4473.1	4658.8	4743.5
42.5°	3873.7	3723.8	3899.7	4254.8	4456.8	4541.5
45°	3596.7	3388.2	3626.1	4023.5	4235.3	4329.8
47.5°	3319.8	3111.3	3352.4	3775.9	4004.0	4088.7
50°	3052.7	2873.5	3065.7	3505.5	3769.4	3876.9
52.5°	2808.3	2661.7	2824.6	3241.6	3528.3	3635.8
55°	2580.3	2466.2	2599.8	2981.0	3274.2	3398.0
57.5°	2365.2	2293.6	2384.8	2733.4	3039.6	3156.9
60°	2163.3	2114.4	2179.5	2489.0	2762.7	2906.1
62.5°	1964.5	1938.5	1987.3	2231.7	2505.3	2655.2
65°	1772.3	1765.8	1791.9	2006.9	2234.9	2397.8
67.5°	1580.1	1576.8	1593.1	1769.0	1971.0	2130.7
70°	1387.9	1407.4	1397.6	1511.7	1707.1	1863.5
72.5°	1192.4	1221.7	1205.4	1277.1	1466.1	1589.9
75°	974.1	1013.2	980.6	1062.1	1179.4	1312.9
77.5°	749.3	791.7	752.6	824.3	951.3	1045.8
80°	537.6	576.7	544.1	599.5	710.2	781.9
82.5°	338.8	368.1	342.1	397.5	508.2	560.4
85°	149.9	166.2	172.7	215.0	312.8	371.4
87.5°	6.5	3.3	6.5	42.4	110.8	162.9
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)