

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: P520732

Luminaire Tested: **8WSLA-200-L850-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520732
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-L850-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

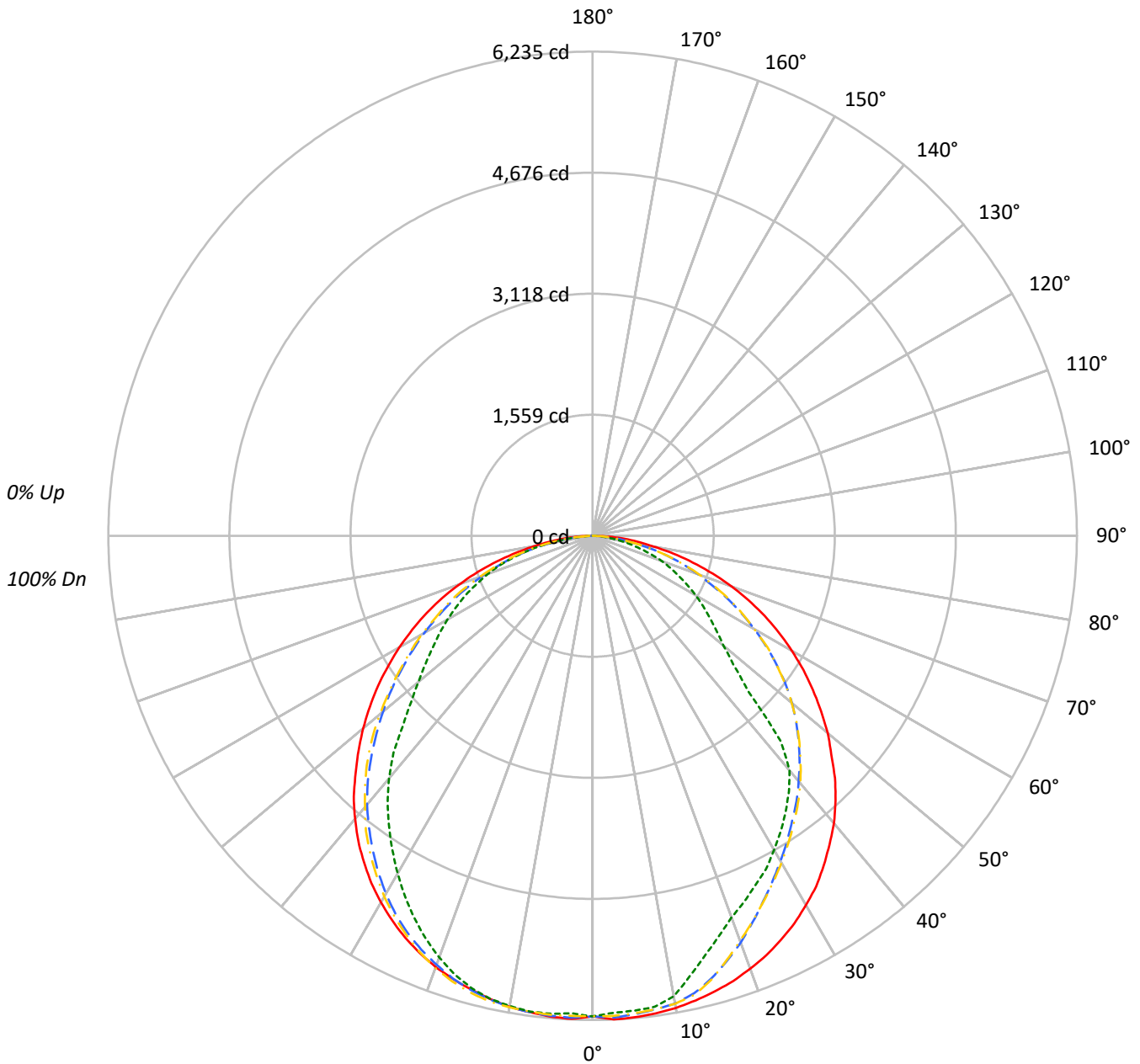
Lumens per Lamp: N/A
Luminaire Lumens: 16601.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	16653	16653	16653	16653
5°	16815	16582	16788	16689
10°	16873	16456	16828	16801
15°	16925	15584	16852	16796
20°	16989	14974	16923	16542
25°	17043	14727	16955	16127
30°	17062	14514	16939	15598
35°	17035	14233	16861	15018
40°	16980	13855	16712	14321
45°	16791	10765	16412	13140
50°	16539	9215	16136	12259
55°	16246	8629	15825	11791
60°	15938	8237	15455	11596
65°	15559	7800	15030	11457
70°	14941	7419	14314	11284
75°	13910	6524	13254	10735
80°	12348	5453	11576	9106
85°	11686	3896	10251	5227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.0	3.5
10°-20°	1677.1	10.1
20°-30°	2506.0	15.1
30°-40°	2983.0	18.0
40°-50°	2981.7	18.0
50°-60°	2565.7	15.5
60°-70°	1931.1	11.6
70°-80°	1100.4	6.6
80°-90°	267.9	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°	4771.1	28.7
0°-40°	7754.1	46.7
0°-60°	13301.6	80.1
0°-90°	16601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16601.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6188	6188	6188	6188	6188	
5°	6225	6138	6215	6178	6225	592
15°	6075	5594	6049	6029	6075	1716
25°	5740	4960	5710	5431	5740	2647
35°	5186	4332	5133	4572	5186	3245
45°	4412	2829	4313	3453	4412	3398
55°	3463	1839	3373	2513	3463	3096
65°	2444	1225	2360	1799	2444	2413
75°	1338	628	1275	1032	1338	1416
85°	378	126	332	169	378	412
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°	6188.3	6188.3	6188.3	6188.3	6188.3	6188.3	6188.3	6188.3	6188.3	6188.3	6188.3
2.5°	6234.8	6178.3	6211.5	6201.6	6148.5	6168.4	6188.3	6168.4	6228.1	6175.0	6211.5
5°	6224.8	6165.1	6185.0	6165.1	6138.5	6145.1	6175.0	6155.1	6214.9	6158.4	6204.9
7.5°	6204.9	6131.9	6151.8	6141.8	6118.6	6121.9	6151.8	6135.2	6188.3	6135.2	6188.3
10°	6175.0	6098.7	6115.3	6072.1	6022.3	6058.8	6118.6	6102.0	6158.4	6098.7	6158.4
12.5°	6128.5	6052.2	6035.6	5892.8	5803.2	5872.9	6055.5	6055.5	6108.6	6052.2	6115.3
15°	6075.4	5992.4	5902.8	5687.0	5594.0	5663.8	5916.1	6002.4	6048.9	5992.4	6055.5
17.5°	6012.3	5916.1	5743.4	5491.1	5404.8	5474.5	5733.5	5922.7	5982.5	5922.7	5979.2
20°	5932.7	5819.8	5574.1	5285.3	5228.9	5291.9	5550.9	5826.4	5909.4	5836.4	5876.2
22.5°	5846.4	5710.2	5384.9	5125.9	5099.4	5139.2	5374.9	5706.9	5816.5	5740.1	5766.7
25°	5740.1	5580.8	5195.7	4979.9	4959.9	4983.2	5202.3	5567.5	5710.2	5630.6	5640.5
27.5°	5627.2	5454.6	5016.4	4857.0	4837.1	4847.1	5029.7	5411.4	5587.4	5507.7	5491.1
30°	5491.1	5305.2	4837.1	4691.0	4671.1	4707.6	4863.7	5252.1	5451.3	5371.6	5321.8
32.5°	5355.0	5142.5	4661.1	4548.3	4508.4	4541.6	4691.0	5086.1	5301.9	5218.9	5135.9
35°	5185.7	4969.9	4478.6	4365.7	4332.5	4369.0	4518.4	4913.5	5132.6	5049.6	4936.7
37.5°	5009.7	4787.3	4312.6	4209.6	4149.9	4193.0	4342.4	4734.2	4956.6	4870.3	4730.9
40°	4833.8	4594.7	4126.6	4020.4	3944.0	4007.1	4159.8	4545.0	4757.4	4677.7	4518.4
42.5°	4627.9	4402.2	3944.0	3794.7	3578.9	3781.4	3964.0	4355.7	4551.6	4475.2	4282.7
45°	4412.2	4196.4	3751.5	3389.6	2828.6	3422.8	3764.8	4156.5	4312.6	4239.5	4030.4
47.5°	4166.5	3983.9	3555.6	3004.5	2460.1	3037.7	3562.3	3967.3	4086.8	4007.1	3774.7
50°	3950.7	3771.4	3349.8	2679.2	2201.1	2715.7	3346.5	3754.8	3854.4	3781.4	3522.4
52.5°	3705.0	3549.0	3127.4	2390.3	2008.5	2426.9	3120.7	3535.7	3615.4	3529.1	3270.1
55°	3462.7	3323.2	2891.6	2134.7	1839.2	2167.9	2885.0	3309.9	3373.0	3273.4	3004.5
57.5°	3217.0	3090.8	2649.3	1905.6	1683.2	1942.1	2665.9	3077.6	3120.7	2994.6	2748.9
60°	2961.4	2855.1	2403.6	1703.1	1530.5	1733.0	2397.0	2845.2	2871.7	2735.6	2499.9
62.5°	2705.7	2609.4	2157.9	1517.2	1374.4	1537.1	2174.5	2599.5	2616.1	2486.6	2244.3
65°	2443.5	2353.8	1918.9	1321.3	1225.0	1354.5	1935.5	2343.9	2360.5	2214.4	1995.3
67.5°	2171.2	2098.2	1663.3	1171.9	1082.3	1181.9	1696.5	2084.9	2094.9	1952.1	1752.9
70°	1899.0	1835.9	1437.5	1009.3	942.9	1012.6	1460.8	1799.4	1819.3	1666.6	1507.2
72.5°	1620.1	1570.3	1218.4	839.9	780.2	839.9	1231.7	1537.1	1550.4	1424.2	1268.2
75°	1337.9	1301.4	996.0	673.9	627.5	670.6	1002.6	1274.8	1274.8	1155.3	1032.5
77.5°	1065.7	1039.1	763.6	517.9	484.7	511.3	766.9	1009.3	1002.6	909.7	813.4
80°	796.8	776.9	547.8	375.1	351.9	365.2	547.8	747.0	747.0	680.6	564.4
82.5°	571.0	547.8	361.9	245.7	232.4	239.0	355.2	521.2	531.2	481.4	381.8
85°	378.5	325.4	195.9	136.1	126.2	129.5	185.9	302.1	332.0	278.9	199.2
87.5°	166.0	109.6	49.8	19.9	10.0	13.3	39.8	96.3	126.2	83.0	26.6
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°	6188.3	6188.3	6188.3	6188.3	6188.3	6188.3
2.5°	6208.2	6155.1	6175.0	6188.3	6175.0	6234.8
5°	6201.6	6178.3	6175.0	6191.6	6165.1	6224.8
7.5°	6191.6	6178.3	6175.0	6181.7	6148.5	6204.9
10°	6168.4	6148.5	6155.1	6165.1	6121.9	6175.0
12.5°	6125.2	6105.3	6108.6	6141.8	6082.1	6128.5
15°	6052.2	6028.9	6052.2	6088.7	6035.6	6075.4
17.5°	5955.9	5919.4	5959.2	6015.7	5975.8	6012.3
20°	5833.1	5776.6	5819.8	5922.7	5886.2	5932.7
22.5°	5683.7	5614.0	5657.1	5806.5	5796.6	5846.4
25°	5514.4	5431.4	5491.1	5673.7	5693.6	5740.1
27.5°	5325.1	5232.2	5311.8	5527.6	5574.1	5627.2
30°	5119.3	5019.7	5112.7	5365.0	5434.7	5491.1
32.5°	4906.8	4797.3	4903.5	5182.4	5282.0	5355.0
35°	4684.4	4571.5	4691.0	4993.1	5112.7	5185.7
37.5°	4445.4	4335.8	4465.3	4793.9	4936.7	5009.7
40°	4199.7	4076.8	4222.9	4558.2	4747.5	4833.8
42.5°	3947.4	3794.7	3973.9	4335.8	4541.6	4627.9
45°	3665.2	3452.7	3695.1	4100.1	4315.9	4412.2
47.5°	3383.0	3170.5	3416.2	3847.8	4080.2	4166.5
50°	3110.8	2928.2	3124.0	3572.2	3841.1	3950.7
52.5°	2861.8	2712.4	2878.4	3303.3	3595.5	3705.0
55°	2629.4	2513.2	2649.3	3037.7	3336.5	3462.7
57.5°	2410.3	2337.2	2430.2	2785.4	3097.5	3217.0
60°	2204.4	2154.6	2221.0	2536.4	2815.3	2961.4
62.5°	2001.9	1975.3	2025.1	2274.1	2553.0	2705.7
65°	1806.0	1799.4	1825.9	2045.1	2277.5	2443.5
67.5°	1610.2	1606.8	1623.4	1802.7	2008.5	2171.2
70°	1414.3	1434.2	1424.2	1540.4	1739.6	1899.0
72.5°	1215.1	1245.0	1228.4	1301.4	1494.0	1620.1
75°	992.7	1032.5	999.3	1082.3	1201.8	1337.9
77.5°	763.6	806.7	766.9	839.9	969.4	1065.7
80°	547.8	587.6	554.4	610.9	723.7	796.8
82.5°	345.3	375.1	348.6	405.0	517.9	571.0
85°	152.7	169.3	176.0	219.1	318.7	378.5
87.5°	6.6	3.3	6.6	43.2	112.9	166.0
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)