

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: P520726

Luminaire Tested: **8WSLA-200-L835-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520726
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-L835-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

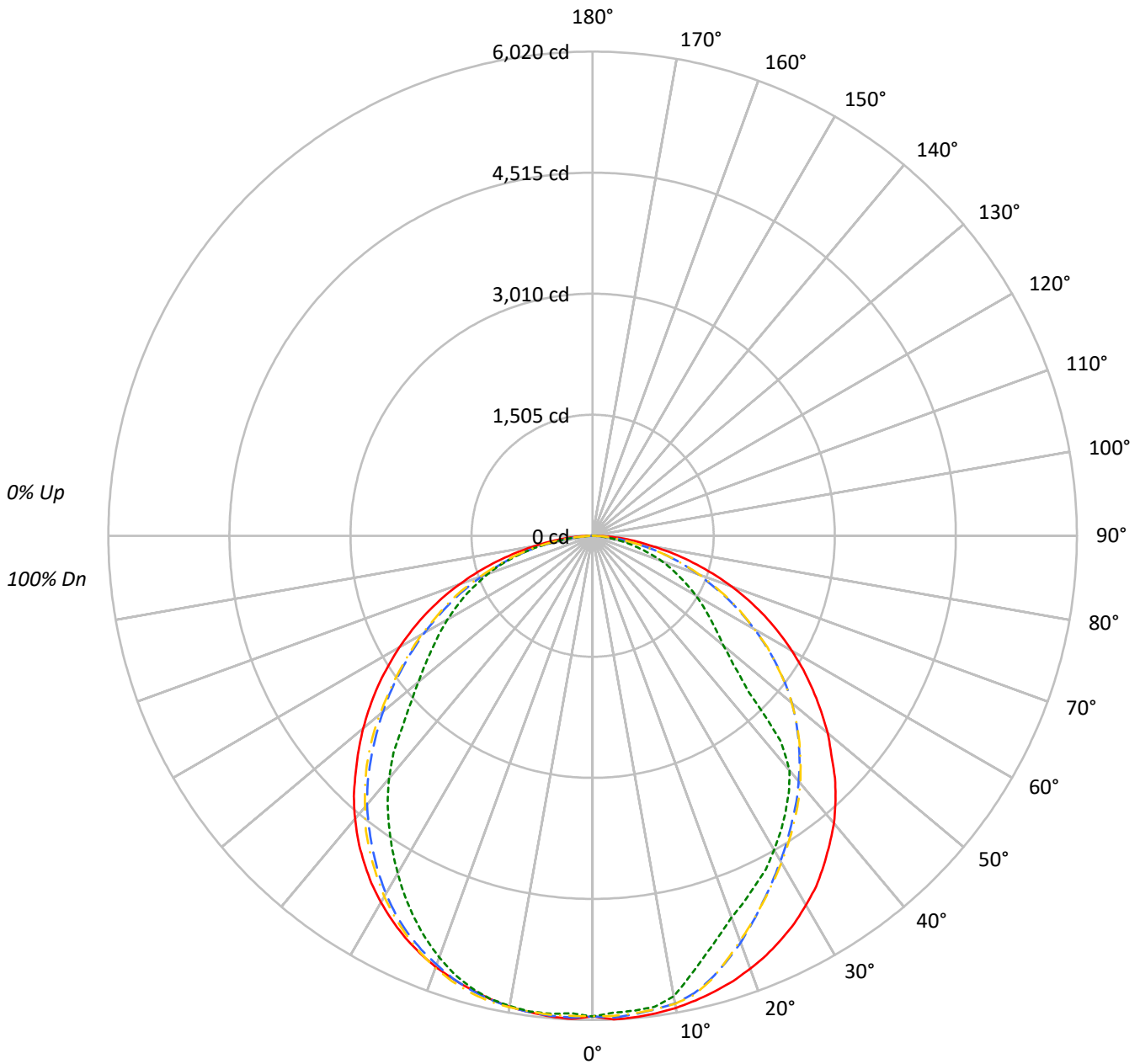
Lumens per Lamp: N/A
Luminaire Lumens: 16028.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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°	16078	16078	16078	16078
5°	16235	16009	16209	16113
10°	16291	15888	16247	16221
15°	16341	15047	16270	16216
20°	16403	14457	16339	15971
25°	16455	14218	16369	15570
30°	16474	14013	16354	15059
35°	16447	13741	16279	14499
40°	16394	13376	16135	13827
45°	16212	10393	15845	12686
50°	15968	8897	15579	11835
55°	15684	8331	15279	11384
60°	15388	7953	14922	11196
65°	15021	7531	14511	11062
70°	14425	7162	13820	10895
75°	13430	6299	12797	10365
80°	11922	5266	11176	8791
85°	11282	3761	9896	5048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.7	3.5
10°-20°	1619.2	10.1
20°-30°	2419.5	15.1
30°-40°	2880.1	18.0
40°-50°	2878.8	18.0
50°-60°	2477.2	15.5
60°-70°	1864.5	11.6
70°-80°	1062.5	6.6
80°-90°	258.6	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°	4606.4	28.7
0°-40°	7486.5	46.7
0°-60°	12842.5	80.1
0°-90°	16028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16028.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5975	5975	5975	5975	5975	
5°	6010	5927	6000	5965	6010	572
15°	5866	5401	5840	5821	5866	1657
25°	5542	4789	5513	5244	5542	2556
35°	5007	4183	4955	4414	5007	3133
45°	4260	2731	4164	3334	4260	3281
55°	3343	1776	3257	2426	3343	2989
65°	2359	1183	2279	1737	2359	2330
75°	1292	606	1231	997	1292	1367
85°	365	122	320	164	365	398
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°	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7
2.5°	6019.6	5965.1	5997.1	5987.5	5936.2	5955.5	5974.7	5955.5	6013.2	5961.9	5997.1
5°	6010.0	5952.3	5971.5	5952.3	5926.6	5933.0	5961.9	5942.7	6000.4	5945.9	5990.7
7.5°	5990.7	5920.2	5939.5	5929.8	5907.4	5910.6	5939.5	5923.4	5974.7	5923.4	5974.7
10°	5961.9	5888.2	5904.2	5862.5	5814.4	5849.7	5907.4	5891.4	5945.9	5888.2	5945.9
12.5°	5917.0	5843.3	5827.3	5689.4	5602.9	5670.2	5846.5	5846.5	5897.8	5843.3	5904.2
15°	5865.7	5785.6	5699.1	5490.7	5401.0	5468.3	5711.9	5795.2	5840.1	5785.6	5846.5
17.5°	5804.8	5711.9	5545.2	5301.6	5218.3	5285.6	5535.6	5718.3	5776.0	5718.3	5772.8
20°	5727.9	5618.9	5381.7	5102.9	5048.4	5109.3	5359.3	5625.3	5705.5	5634.9	5673.4
22.5°	5644.6	5513.1	5199.0	4949.0	4923.4	4961.8	5189.4	5509.9	5615.7	5542.0	5567.6
25°	5542.0	5388.1	5016.3	4808.0	4788.7	4811.2	5022.7	5375.3	5513.1	5436.2	5445.8
27.5°	5433.0	5266.3	4843.2	4689.4	4670.1	4679.8	4856.1	5224.7	5394.5	5317.6	5301.6
30°	5301.6	5122.1	4670.1	4529.1	4509.9	4545.1	4695.8	5070.8	5263.1	5186.2	5138.1
32.5°	5170.2	4965.0	4500.3	4391.3	4352.8	4384.9	4529.1	4910.5	5118.9	5038.8	4958.6
35°	5006.7	4798.4	4324.0	4215.0	4182.9	4218.2	4362.4	4743.9	4955.4	4875.3	4766.3
37.5°	4836.8	4622.1	4163.7	4064.3	4006.6	4048.3	4192.6	4570.8	4785.5	4702.2	4567.6
40°	4666.9	4436.2	3984.2	3881.6	3807.9	3868.8	4016.3	4388.1	4593.2	4516.3	4362.4
42.5°	4468.2	4250.2	3807.9	3663.7	3455.3	3650.9	3827.1	4205.4	4394.5	4320.8	4134.9
45°	4259.9	4051.5	3622.0	3272.6	2730.9	3304.7	3634.8	4013.1	4163.7	4093.2	3891.3
47.5°	4022.7	3846.4	3432.9	2900.8	2375.1	2932.9	3439.3	3830.4	3945.7	3868.8	3644.4
50°	3814.3	3641.2	3234.2	2586.7	2125.1	2621.9	3231.0	3625.2	3721.4	3650.9	3400.8
52.5°	3577.1	3426.5	3019.4	2307.8	1939.2	2343.1	3013.0	3413.7	3490.6	3407.3	3157.2
55°	3343.1	3208.5	2791.8	2061.0	1775.7	2093.1	2785.4	3195.7	3256.6	3160.4	2900.8
57.5°	3106.0	2984.1	2557.8	1839.9	1625.1	1875.1	2573.9	2971.3	3013.0	2891.2	2654.0
60°	2859.1	2756.6	2320.6	1644.3	1477.7	1673.2	2314.2	2747.0	2772.6	2641.2	2413.6
62.5°	2612.3	2519.4	2083.5	1464.8	1327.0	1484.1	2099.5	2509.8	2525.8	2400.8	2166.8
65°	2359.1	2272.6	1852.7	1275.7	1182.8	1307.8	1868.7	2263.0	2279.0	2137.9	1926.4
67.5°	2096.3	2025.8	1605.9	1131.5	1044.9	1141.1	1637.9	2012.9	2022.6	1884.7	1692.4
70°	1833.4	1772.5	1387.9	974.4	910.3	977.6	1410.3	1737.3	1756.5	1609.1	1455.2
72.5°	1564.2	1516.1	1176.4	810.9	753.2	810.9	1189.2	1484.1	1496.9	1375.1	1224.4
75°	1291.7	1256.5	961.6	650.7	605.8	647.5	968.0	1230.8	1230.8	1115.4	996.9
77.5°	1028.9	1003.3	737.2	500.0	468.0	493.6	740.4	974.4	968.0	878.3	785.3
80°	769.3	750.0	528.9	362.2	339.8	352.6	528.9	721.2	721.2	657.1	544.9
82.5°	551.3	528.9	349.4	237.2	224.4	230.8	343.0	503.2	512.9	464.8	368.6
85°	365.4	314.1	189.1	131.4	121.8	125.0	179.5	291.7	320.5	269.2	192.3
87.5°	160.3	105.8	48.1	19.2	9.6	12.8	38.5	93.0	121.8	80.1	25.6
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°	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7
2.5°	5993.9	5942.7	5961.9	5974.7	5961.9	6019.6
5°	5987.5	5965.1	5961.9	5977.9	5952.3	6010.0
7.5°	5977.9	5965.1	5961.9	5968.3	5936.2	5990.7
10°	5955.5	5936.2	5942.7	5952.3	5910.6	5961.9
12.5°	5913.8	5894.6	5897.8	5929.8	5872.1	5917.0
15°	5843.3	5820.9	5843.3	5878.5	5827.3	5865.7
17.5°	5750.3	5715.1	5753.5	5808.0	5769.6	5804.8
20°	5631.7	5577.2	5618.9	5718.3	5683.0	5727.9
22.5°	5487.5	5420.2	5461.9	5606.1	5596.5	5644.6
25°	5324.0	5243.9	5301.6	5477.9	5497.1	5542.0
27.5°	5141.3	5051.6	5128.5	5336.9	5381.7	5433.0
30°	4942.6	4846.4	4936.2	5179.8	5247.1	5301.6
32.5°	4737.5	4631.7	4734.3	5003.5	5099.7	5170.2
35°	4522.7	4413.7	4529.1	4820.8	4936.2	5006.7
37.5°	4291.9	4186.1	4311.1	4628.5	4766.3	4836.8
40°	4054.7	3936.1	4077.2	4400.9	4583.6	4666.9
42.5°	3811.1	3663.7	3836.8	4186.1	4384.9	4468.2
45°	3538.7	3333.5	3567.5	3958.6	4166.9	4259.9
47.5°	3266.2	3061.1	3298.3	3715.0	3939.3	4022.7
50°	3003.4	2827.1	3016.2	3448.9	3708.6	3814.3
52.5°	2763.0	2618.7	2779.0	3189.3	3471.4	3577.1
55°	2538.6	2426.4	2557.8	2932.9	3221.3	3343.1
57.5°	2327.1	2256.5	2346.3	2689.3	2990.6	3106.0
60°	2128.3	2080.3	2144.4	2448.9	2718.1	2859.1
62.5°	1932.8	1907.2	1955.2	2195.6	2464.9	2612.3
65°	1743.7	1737.3	1762.9	1974.5	2198.8	2359.1
67.5°	1554.6	1551.4	1567.4	1740.5	1939.2	2096.3
70°	1365.5	1384.7	1375.1	1487.3	1679.6	1833.4
72.5°	1173.1	1202.0	1186.0	1256.5	1442.4	1564.2
75°	958.4	996.9	964.8	1044.9	1160.3	1291.7
77.5°	737.2	778.9	740.4	810.9	936.0	1028.9
80°	528.9	567.3	535.3	589.8	698.8	769.3
82.5°	333.4	362.2	336.6	391.0	500.0	551.3
85°	147.4	163.5	169.9	211.6	307.7	365.4
87.5°	6.4	3.2	6.4	41.7	109.0	160.3
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)