

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: P520731

Luminaire Tested: **8WSLA-200-L840-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-200-L840-UPL8-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

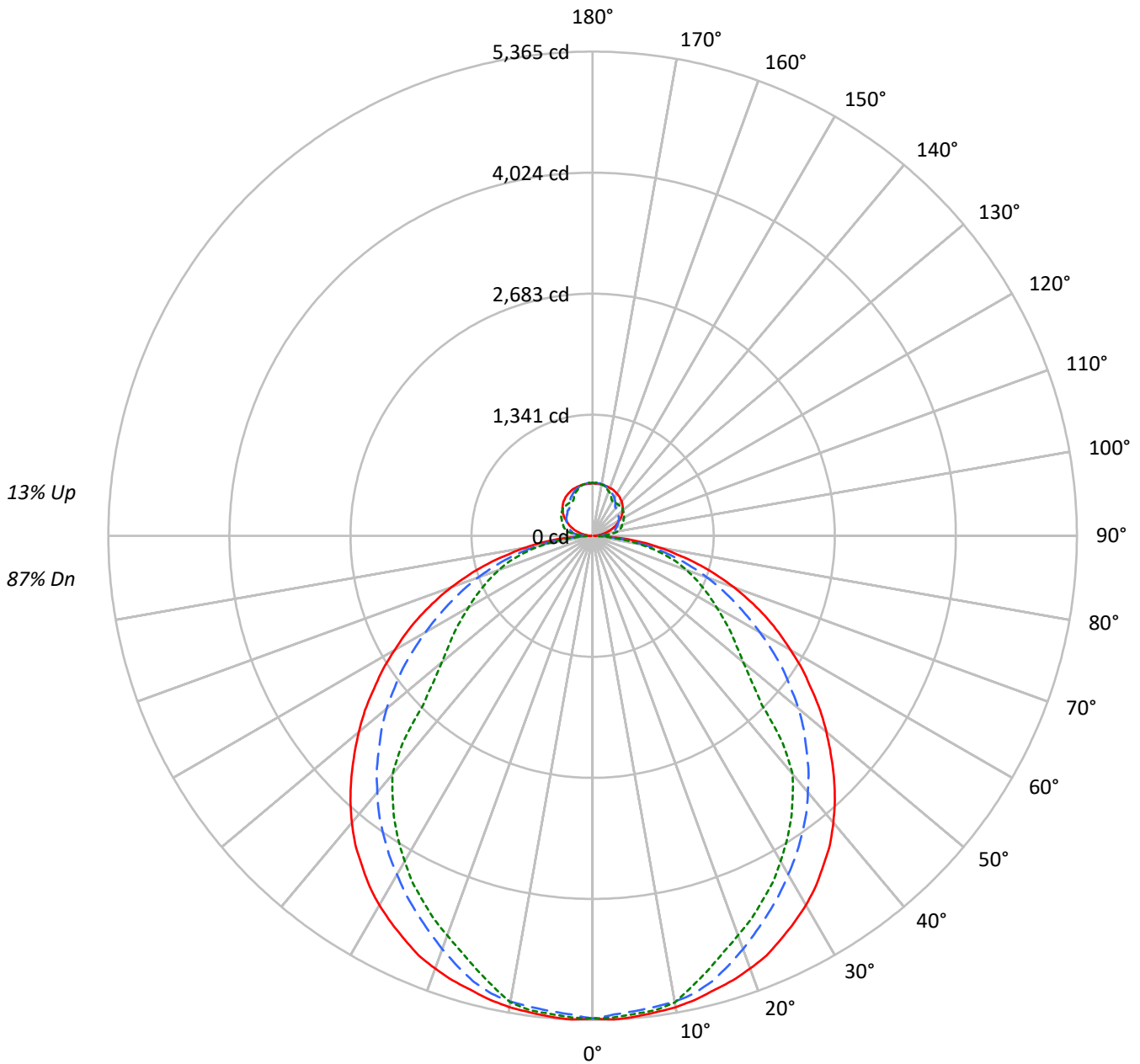
Lumens per Lamp: N/A
Luminaire Lumens: 16649.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14396	14396	14396
5°	14451	14285	14368
10°	14492	14324	14344
15°	14518	14239	13853
20°	14615	13953	13490
25°	14650	13690	13233
30°	14686	13466	12940
35°	14641	13276	12593
40°	14574	13033	12114
45°	14383	12743	10106
50°	14147	12471	9120
55°	13867	12062	8776
60°	13630	11517	8534
65°	13429	11028	8528
70°	13081	10599	8660
75°	12485	10084	8723
80°	11689	9066	8111
85°	10695	6416	5465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.4	3.0
10°-20°	1439.9	8.6
20°-30°	2151.4	12.9
30°-40°	2568.2	15.4
40°-50°	2568.4	15.4
50°-60°	2222.8	13.4
60°-70°	1706.2	10.2
70°-80°	1045.4	6.3
80°-90°	294.3	1.8
90°-100°	166.3	1.0
100°-110°	264.0	1.6
110°-120°	308.7	1.9
120°-130°	333.3	2.0
130°-140°	328.4	2.0
140°-150°	290.5	1.7
150°-160°	239.1	1.4
160°-170°	160.0	1.0
170°-180°	55.7	0.3
0°-30°	4097.7	24.6
0°-40°	6665.9	40.0
0°-60°	11457.2	68.8
0°-90°	14503.1	87.1
90°-120°	739.0	4.4
90°-150°	1691.2	10.2
90°-180°	2146.0	12.9
0°-180°	16649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5350	5350	5350	5350	5350	
5°	5350	5334	5288	5327	5319	509
15°	5211	5204	5111	5019	4972	1474
25°	4934	4872	4611	4488	4457	2276
35°	4457	4341	4041	3895	3833	2791
45°	3779	3672	3348	3048	2656	2914
55°	2956	2886	2571	2055	1870	2650
65°	2109	2032	1732	1393	1339	2083
75°	1201	1139	970	839	839	1267
85°	346	285	208	177	177	362
90°	15	54	85	108	116	24
95°	62	131	177	185	185	61
105°	177	185	262	308	323	186
115°	292	246	308	354	377	286
125°	393	316	354	408	423	350
135°	470	423	393	431	454	362
145°	523	500	439	431	446	326
155°	554	546	516	493	485	256
165°	570	577	562	562	562	162
175°	577	585	585	593	593	55
180°	585	585	585	585	585	



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CATALOG NUMBER: 8WSLA-200-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5349.7	5349.7	5349.7	5349.7	5349.7
2.5°	5365.1	5349.7	5311.2	5349.7	5342.0
5°	5349.7	5334.3	5288.1	5326.6	5318.9
7.5°	5326.6	5311.2	5265.0	5311.2	5303.5
10°	5303.5	5288.1	5242.0	5272.7	5249.6
12.5°	5265.0	5249.6	5195.8	5157.3	5111.1
15°	5211.2	5203.5	5111.1	5018.7	4972.5
17.5°	5165.0	5141.9	4995.6	4887.9	4834.0
20°	5103.4	5064.9	4872.5	4749.3	4710.8
22.5°	5034.1	4972.5	4741.6	4626.2	4595.4
25°	4934.1	4872.5	4610.8	4487.6	4456.8
27.5°	4834.0	4757.0	4479.9	4356.7	4326.0
30°	4726.2	4618.5	4333.7	4218.2	4164.3
32.5°	4603.1	4495.3	4195.1	4064.2	4002.7
35°	4456.8	4341.4	4041.2	3894.9	3833.3
37.5°	4318.3	4195.1	3887.2	3725.6	3640.9
40°	4148.9	4025.8	3710.2	3533.1	3448.4
42.5°	3971.9	3856.4	3540.8	3325.3	3117.5
45°	3779.4	3671.7	3348.4	3048.2	2655.6
47.5°	3579.3	3486.9	3171.3	2763.4	2386.2
50°	3379.2	3286.8	2978.9	2494.0	2178.4
52.5°	3179.0	3102.1	2763.4	2270.7	2009.0
55°	2955.8	2886.5	2570.9	2055.2	1870.5
57.5°	2755.7	2686.4	2347.7	1878.2	1724.2
60°	2532.5	2470.9	2139.9	1701.1	1585.7
62.5°	2324.6	2255.3	1932.1	1547.2	1462.5
65°	2109.1	2032.1	1731.9	1393.2	1339.4
67.5°	1885.9	1808.9	1539.5	1254.7	1223.9
70°	1662.6	1601.1	1347.1	1116.1	1100.7
72.5°	1431.7	1362.4	1154.6	985.3	985.3
75°	1200.8	1139.2	969.9	839.0	839.0
77.5°	962.2	931.4	777.4	685.1	692.8
80°	754.3	715.9	585.0	523.4	523.4
82.5°	554.2	508.0	392.6	346.4	361.8
85°	346.4	284.8	207.8	177.0	177.0
87.5°	107.8	84.7	61.6	69.3	69.3
90°	15.4	53.9	84.7	107.8	115.5
92.5°	38.5	100.1	123.2	146.3	153.9
95°	61.6	130.9	177.0	184.7	184.7
97.5°	84.7	146.3	215.5	246.3	246.3
100°	115.5	153.9	230.9	277.1	284.8
102.5°	146.3	169.3	246.3	292.5	307.9
105°	177.0	184.7	261.7	307.9	323.3



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CATALOG NUMBER: 8WSLA-200-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	261.7	230.9	292.5	346.4	361.8
115°	292.5	246.3	307.9	354.1	377.2
117.5°	315.6	269.4	323.3	369.5	384.9
120°	338.7	284.8	331.0	384.9	400.3
122.5°	369.5	300.2	346.4	392.6	415.7
125°	392.6	315.6	354.1	408.0	423.4
127.5°	415.7	346.4	361.8	415.7	431.1
130°	431.1	377.2	369.5	423.4	438.8
132.5°	454.1	400.3	377.2	431.1	446.5
135°	469.5	423.4	392.6	431.1	454.1
137.5°	484.9	446.5	392.6	431.1	446.5
140°	500.3	469.5	400.3	431.1	446.5
142.5°	508.0	484.9	408.0	431.1	446.5
145°	523.4	500.3	438.8	431.1	446.5
147.5°	531.1	515.7	461.8	431.1	446.5
150°	538.8	531.1	484.9	438.8	438.8
152.5°	546.5	538.8	500.3	469.5	454.1
155°	554.2	546.5	515.7	492.6	484.9
157.5°	561.9	561.9	531.1	515.7	508.0
160°	561.9	569.6	546.5	531.1	523.4
162.5°	569.6	577.3	554.2	546.5	538.8
165°	569.6	577.3	561.9	561.9	561.9
167.5°	577.3	585.0	577.3	569.6	569.6
170°	577.3	585.0	577.3	577.3	577.3
172.5°	577.3	585.0	585.0	585.0	585.0
175°	577.3	585.0	585.0	592.7	592.7
177.5°	577.3	585.0	585.0	585.0	585.0
180°	585.0	585.0	585.0	585.0	585.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	207.8	200.1	269.4	323.3	338.7
110°	230.9	215.5	284.8	331.0	346.4



(END OF REPORT)