

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: P520706

Luminaire Tested: **8WSLA-175-L840-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 8WSLA-175-L840-UPL15-UNV-U  
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

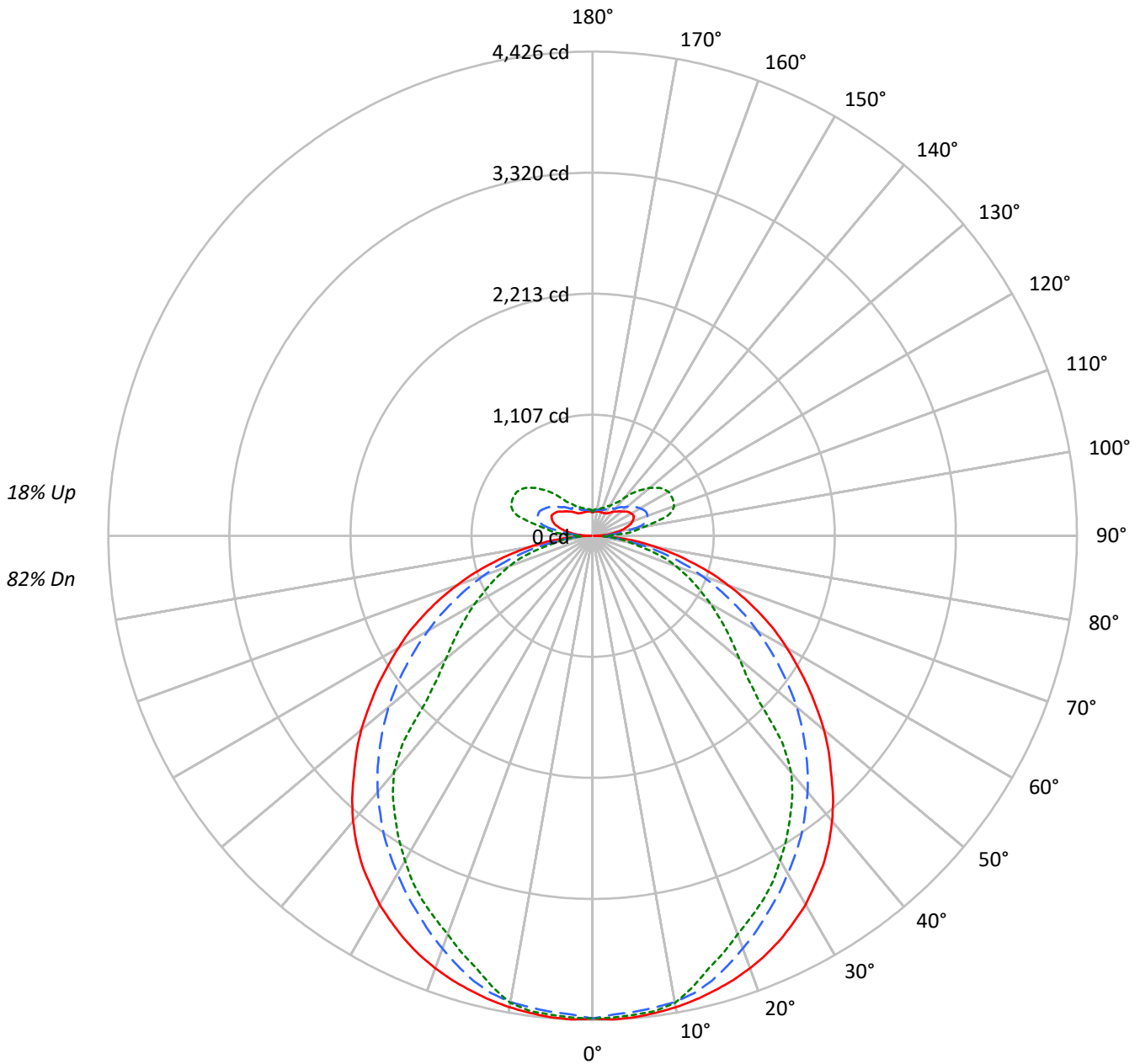
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14290.1 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 119  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				20				20
RC	80				70				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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11874	11874	11874
5°	11931	11798	11871
10°	11959	11824	11849
15°	11993	11731	11407
20°	12046	11495	11098
25°	12078	11267	10922
30°	12098	11082	10651
35°	12069	10937	10335
40°	11963	10737	9919
45°	11734	10473	8225
50°	11559	10191	7325
55°	11274	9784	6970
60°	11031	9345	6696
65°	10771	8833	6497
70°	10352	8274	6373
75°	9771	7584	5863
80°	8946	6380	5201
85°	8015	5527	5252



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.2	2.9
10°-20°	1187.9	8.3
20°-30°	1772.8	12.4
30°-40°	2112.3	14.8
40°-50°	2101.1	14.7
50°-60°	1800.7	12.6
60°-70°	1356.2	9.5
70°-80°	785.4	5.5
80°-90°	236.1	1.7
90°-100°	253.4	1.8
100°-110°	520.4	3.6
110°-120°	550.3	3.9
120°-130°	459.1	3.2
130°-140°	320.7	2.2
140°-150°	199.6	1.4
150°-160°	123.7	0.9
160°-170°	69.7	0.5
170°-180°	22.5	0.2
0°-30°	3378.9	23.6
0°-40°	5491.2	38.4
0°-60°	9393.0	65.7
0°-90°	11770.7	82.4
90°-120°	1324.1	9.3
90°-150°	2303.5	16.1
90°-180°	2519.0	17.6
0°-180°	14290.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4412	4412	4412	4412	4412	
5°	4417	4403	4368	4399	4394	420
15°	4305	4300	4211	4139	4095	1217
25°	4068	4010	3795	3701	3678	1875
35°	3674	3576	3329	3200	3146	2295
45°	3083	3007	2752	2479	2161	2384
55°	2403	2367	2085	1656	1486	2148
65°	1692	1651	1387	1078	1020	1672
75°	940	908	729	582	564	995
85°	260	228	179	170	170	277
90°	13	63	107	134	143	26
95°	143	192	219	322	349	137
105°	336	349	501	671	712	348
115°	416	354	532	734	806	405
125°	385	340	461	676	761	342
135°	313	340	371	501	577	245
145°	255	295	322	345	367	162
155°	233	246	264	286	291	107
165°	228	237	246	255	255	65
175°	224	228	233	237	242	21
180°	219	219	219	219	219	



TEST NUMBER: P520706

CATALOG NUMBER: 8WSLA-175-L840-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4412.4	4412.4	4412.4	4412.4	4412.4
2.5°	4425.8	4416.8	4381.0	4416.8	4407.9
5°	4416.8	4403.4	4367.6	4398.9	4394.5
7.5°	4398.9	4390.0	4349.7	4385.5	4381.0
10°	4376.6	4363.1	4327.3	4354.2	4336.3
12.5°	4345.2	4336.3	4282.6	4260.2	4224.4
15°	4305.0	4300.5	4211.0	4139.4	4094.6
17.5°	4260.2	4242.3	4117.0	4032.0	3991.7
20°	4206.5	4179.7	4014.1	3915.6	3875.4
22.5°	4143.9	4103.6	3911.2	3817.2	3776.9
25°	4067.8	4009.6	3794.8	3700.8	3678.5
27.5°	3982.8	3915.6	3687.4	3593.4	3566.6
30°	3893.3	3808.2	3566.6	3477.1	3427.9
32.5°	3781.4	3700.8	3450.2	3347.3	3293.6
35°	3674.0	3575.5	3329.4	3199.6	3145.9
37.5°	3544.2	3445.8	3190.7	3060.9	2998.3
40°	3405.5	3307.0	3056.4	2904.3	2823.7
42.5°	3253.3	3163.8	2908.8	2725.3	2568.7
45°	3083.3	3007.2	2752.1	2479.2	2161.4
47.5°	2926.7	2855.1	2595.5	2242.0	1915.3
50°	2761.1	2694.0	2434.4	2018.2	1749.7
52.5°	2577.6	2528.4	2259.9	1825.8	1611.0
55°	2403.1	2367.3	2085.4	1655.8	1485.7
57.5°	2219.6	2183.8	1910.8	1494.7	1360.4
60°	2049.6	2013.8	1736.3	1351.5	1244.1
62.5°	1879.5	1830.3	1566.3	1212.7	1123.2
65°	1691.6	1651.3	1387.3	1078.5	1020.3
67.5°	1503.6	1467.8	1221.7	953.2	912.9
70°	1315.7	1284.3	1051.6	832.4	810.0
72.5°	1132.2	1091.9	899.5	711.5	702.6
75°	939.8	908.4	729.4	581.8	563.9
77.5°	756.3	729.4	572.8	443.0	429.6
80°	577.3	550.4	411.7	322.2	335.6
82.5°	425.1	389.3	277.5	250.6	264.0
85°	259.6	228.2	179.0	170.1	170.1
87.5°	89.5	85.0	80.6	94.0	98.5
90°	13.4	62.7	107.4	134.3	143.2
92.5°	76.1	111.9	147.7	174.5	183.5
95°	143.2	192.4	219.3	322.2	349.1
97.5°	196.9	255.1	286.4	380.4	407.2
100°	250.6	304.3	402.8	452.0	483.3
102.5°	295.4	335.6	474.4	572.8	590.7
105°	335.6	349.1	501.2	671.3	711.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	402.8	358.0	537.0	729.4	801.0
115°	416.2	353.5	532.5	733.9	805.5
117.5°	416.2	353.5	519.1	733.9	805.5
120°	407.2	358.0	501.2	725.0	801.0
122.5°	398.3	349.1	483.3	707.1	783.1
125°	384.9	340.1	460.9	675.7	760.8
127.5°	362.5	349.1	438.6	635.5	720.5
130°	344.6	353.5	411.7	595.2	680.2
132.5°	331.2	344.6	384.9	550.4	626.5
135°	313.3	340.1	371.4	501.2	577.3
137.5°	299.8	326.7	349.1	456.5	519.1
140°	286.4	317.7	326.7	398.3	452.0
142.5°	268.5	304.3	308.8	371.4	393.8
145°	255.1	295.4	322.2	344.6	367.0
147.5°	241.7	277.5	313.3	317.7	340.1
150°	237.2	259.6	299.8	304.3	313.3
152.5°	232.7	250.6	277.5	304.3	308.8
155°	232.7	246.1	264.0	286.4	290.9
157.5°	228.2	246.1	255.1	273.0	277.5
160°	228.2	241.7	250.6	264.0	268.5
162.5°	228.2	241.7	246.1	259.6	264.0
165°	228.2	237.2	246.1	255.1	255.1
167.5°	228.2	237.2	241.7	250.6	250.6
170°	228.2	232.7	241.7	246.1	246.1
172.5°	223.8	232.7	237.2	246.1	246.1
175°	223.8	228.2	232.7	237.2	241.7
177.5°	214.8	228.2	232.7	237.2	232.7
180°	219.3	219.3	219.3	219.3	219.3



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	367.0	353.5	519.1	707.1	765.2
110°	389.3	358.0	532.5	720.5	792.1



(END OF REPORT)