

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: P520719

Luminaire Tested: **8WSLA-175-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520719  
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-175-L940-UPL8-UNV-U  
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

**Summary**

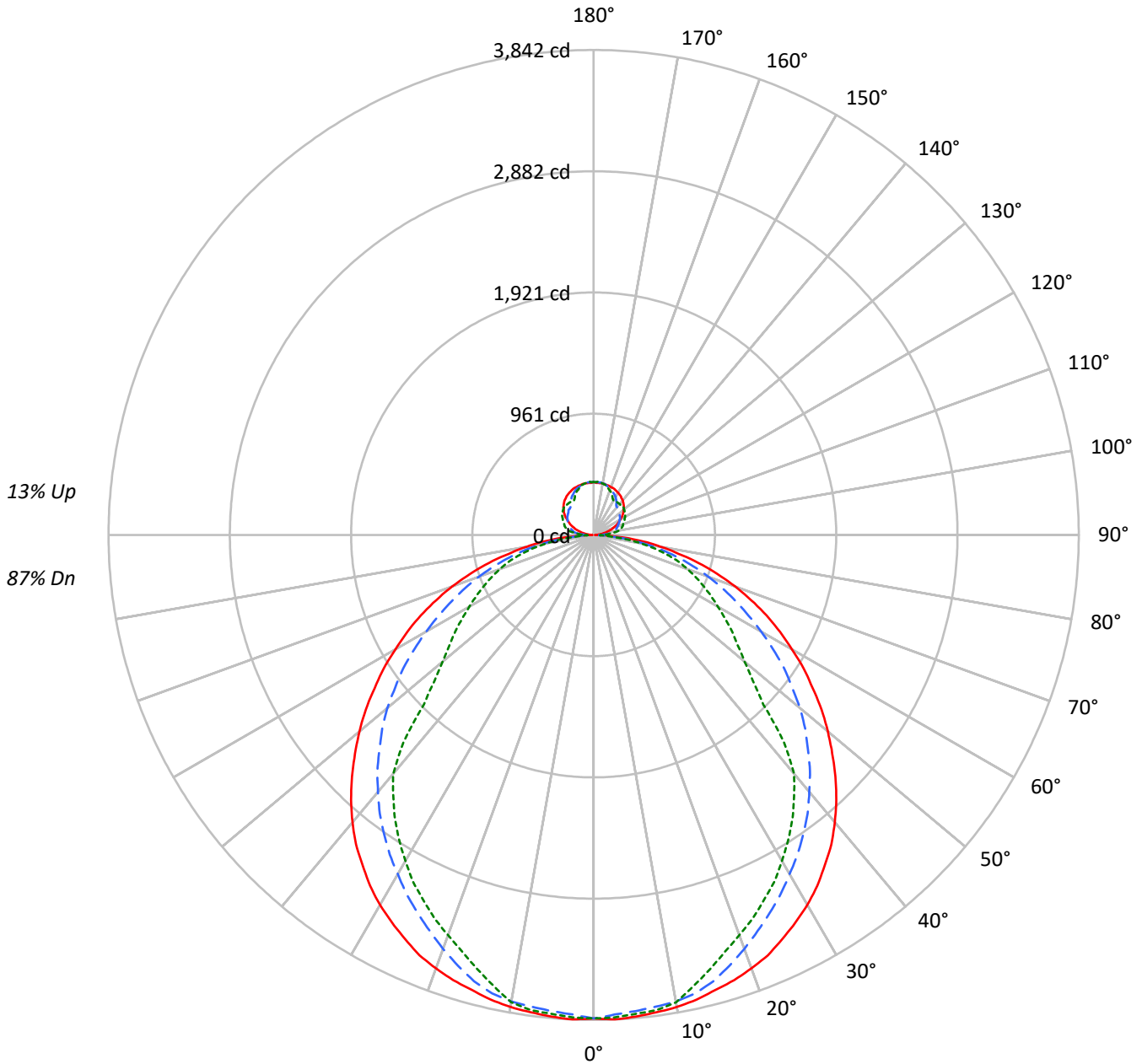
Lumens per Lamp: N/A  
Luminaire Lumens: 11922.0 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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

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

	0°	45°	90°
0°	10309	10309	10309
5°	10348	10229	10289
10°	10377	10257	10272
15°	10396	10196	9920
20°	10465	9992	9660
25°	10491	9803	9476
30°	10516	9642	9266
35°	10484	9506	9018
40°	10437	9333	8675
45°	10300	9125	7237
50°	10130	8930	6530
55°	9930	8637	6284
60°	9760	8247	6111
65°	9617	7897	6107
70°	9368	7589	6201
75°	8941	7221	6247
80°	8371	6492	5808
85°	7657	4594	3915



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.7	3.0
10°-20°	1031.0	8.6
20°-30°	1540.6	12.9
30°-40°	1839.0	15.4
40°-50°	1839.2	15.4
50°-60°	1591.7	13.4
60°-70°	1221.7	10.2
70°-80°	748.6	6.3
80°-90°	210.7	1.8
90°-100°	119.1	1.0
100°-110°	189.1	1.6
110°-120°	221.0	1.9
120°-130°	238.6	2.0
130°-140°	235.1	2.0
140°-150°	208.0	1.7
150°-160°	171.2	1.4
160°-170°	114.6	1.0
170°-180°	39.9	0.3
0°-30°	2934.3	24.6
0°-40°	4773.3	40.0
0°-60°	8204.2	68.8
0°-90°	10385.3	87.1
90°-120°	529.2	4.4
90°-150°	1211.0	10.2
90°-180°	1537.0	12.9
0°-180°	11922.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3831	3831	3831	3831	3831	
5°	3831	3820	3787	3814	3809	365
15°	3732	3726	3660	3594	3561	1056
25°	3533	3489	3302	3214	3191	1630
35°	3191	3109	2894	2789	2745	1999
45°	2706	2629	2398	2183	1902	2087
55°	2117	2067	1841	1472	1339	1897
65°	1510	1455	1240	998	959	1492
75°	860	816	694	601	601	907
85°	248	204	149	127	127	259
90°	11	39	61	77	83	17
95°	44	94	127	132	132	43
105°	127	132	187	220	232	133
115°	210	176	220	254	270	205
125°	281	226	254	292	303	250
135°	336	303	281	309	325	259
145°	375	358	314	309	320	234
155°	397	391	369	353	347	183
165°	408	413	402	402	402	116
175°	413	419	419	424	424	39
180°	419	419	419	419	419	



TEST NUMBER: P520719

CATALOG NUMBER: 8WSLA-175-L940-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3830.8	3830.8	3830.8	3830.8	3830.8
2.5°	3841.8	3830.8	3803.3	3830.8	3825.3
5°	3830.8	3819.8	3786.7	3814.3	3808.8
7.5°	3814.3	3803.3	3770.2	3803.3	3797.7
10°	3797.7	3786.7	3753.7	3775.7	3759.2
12.5°	3770.2	3759.2	3720.6	3693.0	3659.9
15°	3731.6	3726.1	3659.9	3593.8	3560.7
17.5°	3698.5	3682.0	3577.3	3500.1	3461.5
20°	3654.4	3626.9	3489.1	3400.9	3373.3
22.5°	3604.8	3560.7	3395.4	3312.7	3290.6
25°	3533.2	3489.1	3301.7	3213.5	3191.4
27.5°	3461.5	3406.4	3208.0	3119.8	3097.7
30°	3384.3	3307.2	3103.2	3020.6	2982.0
32.5°	3296.2	3219.0	3004.0	2910.3	2866.2
35°	3191.4	3108.8	2893.8	2789.1	2745.0
37.5°	3092.2	3004.0	2783.5	2667.8	2607.2
40°	2971.0	2882.8	2656.8	2530.0	2469.4
42.5°	2844.2	2761.5	2535.5	2381.2	2232.3
45°	2706.4	2629.2	2397.7	2182.7	1901.6
47.5°	2563.1	2496.9	2270.9	1978.8	1708.7
50°	2419.8	2353.6	2133.1	1785.9	1559.9
52.5°	2276.4	2221.3	1978.8	1626.0	1438.6
55°	2116.6	2067.0	1841.0	1471.7	1339.4
57.5°	1973.3	1923.7	1681.2	1344.9	1234.7
60°	1813.4	1769.3	1532.3	1218.1	1135.5
62.5°	1664.6	1615.0	1383.5	1107.9	1047.3
65°	1510.3	1455.2	1240.2	997.7	959.1
67.5°	1350.4	1295.3	1102.4	898.5	876.4
70°	1190.6	1146.5	964.6	799.2	788.2
72.5°	1025.2	975.6	826.8	705.5	705.5
75°	859.9	815.8	694.5	600.8	600.8
77.5°	689.0	666.9	556.7	490.6	496.1
80°	540.2	512.6	418.9	374.8	374.8
82.5°	396.9	363.8	281.1	248.0	259.1
85°	248.0	203.9	148.8	126.8	126.8
87.5°	77.2	60.6	44.1	49.6	49.6
90°	11.0	38.6	60.6	77.2	82.7
92.5°	27.6	71.7	88.2	104.7	110.2
95°	44.1	93.7	126.8	132.3	132.3
97.5°	60.6	104.7	154.3	176.4	176.4
100°	82.7	110.2	165.4	198.4	203.9
102.5°	104.7	121.3	176.4	209.5	220.5
105°	126.8	132.3	187.4	220.5	231.5



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CATALOG NUMBER: 8WSLA-175-L940-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	187.4	165.4	209.5	248.0	259.1
115°	209.5	176.4	220.5	253.6	270.1
117.5°	226.0	192.9	231.5	264.6	275.6
120°	242.5	203.9	237.0	275.6	286.6
122.5°	264.6	215.0	248.0	281.1	297.6
125°	281.1	226.0	253.6	292.1	303.2
127.5°	297.6	248.0	259.1	297.6	308.7
130°	308.7	270.1	264.6	303.2	314.2
132.5°	325.2	286.6	270.1	308.7	319.7
135°	336.2	303.2	281.1	308.7	325.2
137.5°	347.3	319.7	281.1	308.7	319.7
140°	358.3	336.2	286.6	308.7	319.7
142.5°	363.8	347.3	292.1	308.7	319.7
145°	374.8	358.3	314.2	308.7	319.7
147.5°	380.3	369.3	330.7	308.7	319.7
150°	385.8	380.3	347.3	314.2	314.2
152.5°	391.3	385.8	358.3	336.2	325.2
155°	396.9	391.3	369.3	352.8	347.3
157.5°	402.4	402.4	380.3	369.3	363.8
160°	402.4	407.9	391.3	380.3	374.8
162.5°	407.9	413.4	396.9	391.3	385.8
165°	407.9	413.4	402.4	402.4	402.4
167.5°	413.4	418.9	413.4	407.9	407.9
170°	413.4	418.9	413.4	413.4	413.4
172.5°	413.4	418.9	418.9	418.9	418.9
175°	413.4	418.9	418.9	424.4	424.4
177.5°	413.4	418.9	418.9	418.9	418.9
180°	418.9	418.9	418.9	418.9	418.9



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	148.8	143.3	192.9	231.5	242.5
110°	165.4	154.3	203.9	237.0	248.0



(END OF REPORT)