

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: P520718

Luminaire Tested: **8WSLA-175-L940-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520718  
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-L940-UPL15-UNV-U  
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

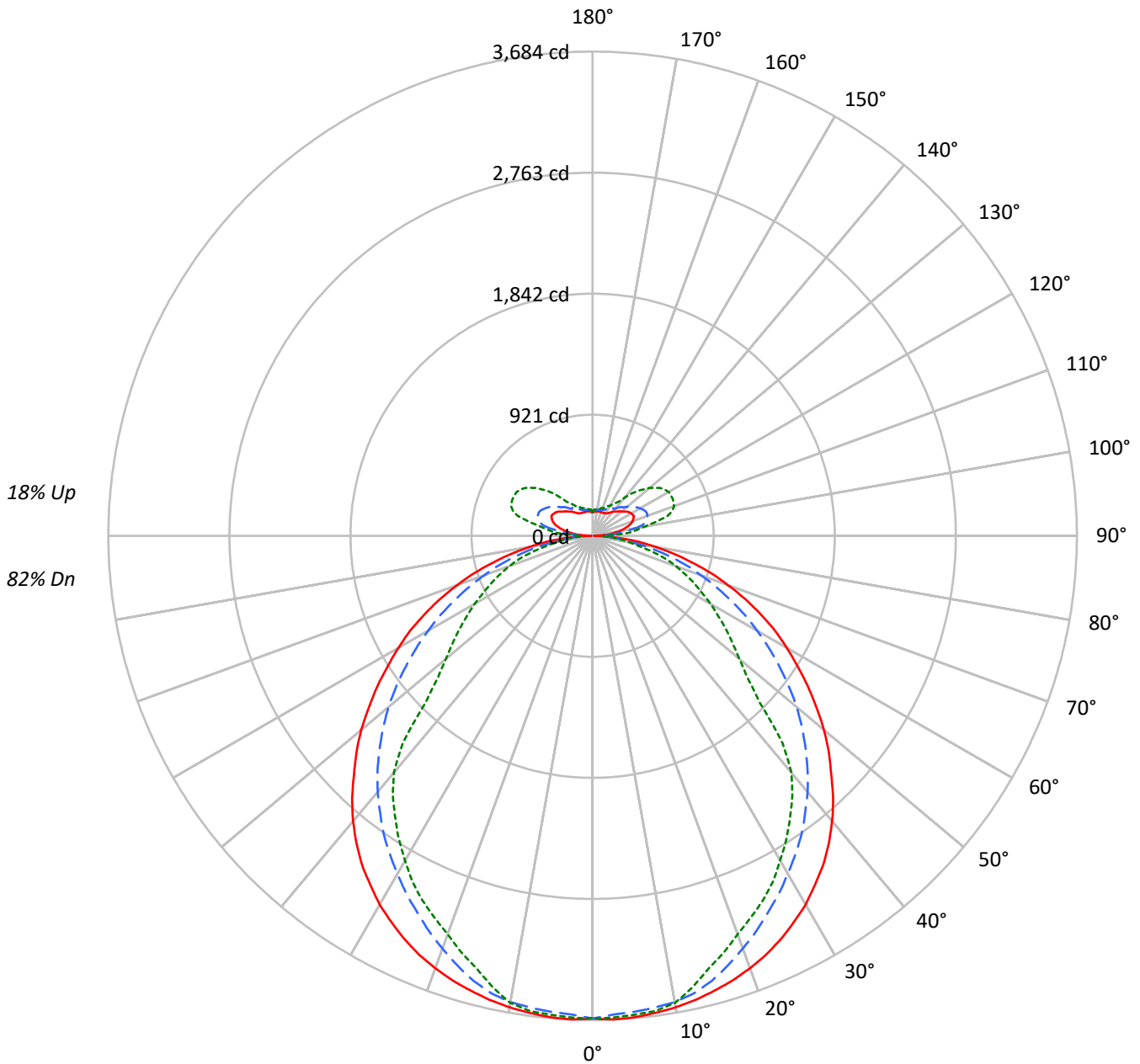
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11894.9 lumens  
Efficiency: N/A  
Efficacy: 100.0 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									
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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

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

	0°	45°	90°
0°	9883	9883	9883
5°	9931	9821	9881
10°	9954	9843	9863
15°	9983	9765	9495
20°	10027	9568	9238
25°	10054	9379	9091
30°	10070	9225	8866
35°	10046	9104	8603
40°	9958	8937	8257
45°	9767	8718	6847
50°	9622	8483	6098
55°	9385	8144	5802
60°	9182	7779	5573
65°	8965	7352	5408
70°	8616	6888	5305
75°	8133	6313	4879
80°	7446	5311	4330
85°	6669	4600	4369



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.1	2.9
10°-20°	988.8	8.3
20°-30°	1475.7	12.4
30°-40°	1758.3	14.8
40°-50°	1748.9	14.7
50°-60°	1498.9	12.6
60°-70°	1128.9	9.5
70°-80°	653.8	5.5
80°-90°	196.5	1.7
90°-100°	210.9	1.8
100°-110°	433.2	3.6
110°-120°	458.1	3.9
120°-130°	382.1	3.2
130°-140°	266.9	2.2
140°-150°	166.1	1.4
150°-160°	103.0	0.9
160°-170°	58.0	0.5
170°-180°	18.7	0.2
0°-30°	2812.6	23.6
0°-40°	4570.9	38.4
0°-60°	7818.7	65.7
0°-90°	9797.8	82.4
90°-120°	1102.2	9.3
90°-150°	1917.3	16.1
90°-180°	2097.0	17.6
0°-180°	11894.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3673	3673	3673	3673	3673	
5°	3677	3665	3636	3662	3658	350
15°	3583	3580	3505	3446	3408	1013
25°	3386	3338	3159	3081	3062	1561
35°	3058	2976	2771	2663	2619	1910
45°	2566	2503	2291	2064	1799	1984
55°	2000	1970	1736	1378	1237	1788
65°	1408	1374	1155	898	849	1392
75°	782	756	607	484	469	829
85°	216	190	149	142	142	230
90°	11	52	89	112	119	22
95°	119	160	182	268	290	114
105°	279	290	417	559	592	290
115°	346	294	443	611	670	337
125°	320	283	384	562	633	285
135°	261	283	309	417	480	204
145°	212	246	268	287	305	135
155°	194	205	220	238	242	89
165°	190	197	205	212	212	54
175°	186	190	194	197	201	18
180°	182	182	182	182	182	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3672.8	3672.8	3672.8	3672.8	3672.8
2.5°	3684.0	3676.6	3646.8	3676.6	3669.1
5°	3676.6	3665.4	3635.6	3661.7	3657.9
7.5°	3661.7	3654.2	3620.7	3650.5	3646.8
10°	3643.0	3631.9	3602.1	3624.4	3609.5
12.5°	3617.0	3609.5	3564.8	3546.2	3516.4
15°	3583.4	3579.7	3505.2	3445.6	3408.4
17.5°	3546.2	3531.3	3427.0	3356.2	3322.7
20°	3501.5	3479.1	3341.3	3259.4	3225.8
22.5°	3449.3	3415.8	3255.6	3177.4	3143.9
25°	3386.0	3337.6	3158.8	3080.6	3061.9
27.5°	3315.2	3259.4	3069.4	2991.2	2968.8
30°	3240.7	3170.0	2968.8	2894.3	2853.3
32.5°	3147.6	3080.6	2872.0	2786.3	2741.6
35°	3058.2	2976.3	2771.4	2663.4	2618.7
37.5°	2950.2	2868.2	2655.9	2547.9	2495.7
40°	2834.7	2752.8	2544.2	2417.5	2350.5
42.5°	2708.1	2633.6	2421.2	2268.5	2138.1
45°	2566.5	2503.2	2290.9	2063.6	1799.2
47.5°	2436.1	2376.5	2160.5	1866.2	1594.3
50°	2298.3	2242.4	2026.4	1680.0	1456.5
52.5°	2145.6	2104.6	1881.1	1519.8	1341.0
55°	2000.3	1970.5	1735.8	1378.2	1236.7
57.5°	1847.6	1817.8	1590.6	1244.1	1132.4
60°	1706.0	1676.2	1445.3	1124.9	1035.5
62.5°	1564.5	1523.5	1303.7	1009.5	935.0
65°	1408.0	1374.5	1154.7	897.7	849.3
67.5°	1251.6	1221.8	1016.9	793.4	759.9
70°	1095.1	1069.1	875.4	692.8	674.2
72.5°	942.4	908.9	748.7	592.3	584.8
75°	782.2	756.2	607.2	484.2	469.3
77.5°	629.5	607.2	476.8	368.8	357.6
80°	480.5	458.2	342.7	268.2	279.4
82.5°	353.9	324.1	230.9	208.6	219.8
85°	216.0	190.0	149.0	141.5	141.5
87.5°	74.5	70.8	67.0	78.2	81.9
90°	11.2	52.1	89.4	111.7	119.2
92.5°	63.3	93.1	122.9	145.3	152.7
95°	119.2	160.2	182.5	268.2	290.5
97.5°	163.9	212.3	238.4	316.6	339.0
100°	208.6	253.3	335.2	376.2	402.3
102.5°	245.8	279.4	394.8	476.8	491.7
105°	279.4	290.5	417.2	558.7	592.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	335.2	298.0	447.0	607.2	666.8
115°	346.4	294.3	443.3	610.9	670.5
117.5°	346.4	294.3	432.1	610.9	670.5
120°	339.0	298.0	417.2	603.4	666.8
122.5°	331.5	290.5	402.3	588.5	651.9
125°	320.3	283.1	383.7	562.5	633.2
127.5°	301.7	290.5	365.0	528.9	599.7
130°	286.8	294.3	342.7	495.4	566.2
132.5°	275.6	286.8	320.3	458.2	521.5
135°	260.7	283.1	309.2	417.2	480.5
137.5°	249.6	271.9	290.5	379.9	432.1
140°	238.4	264.5	271.9	331.5	376.2
142.5°	223.5	253.3	257.0	309.2	327.8
145°	212.3	245.8	268.2	286.8	305.4
147.5°	201.1	230.9	260.7	264.5	283.1
150°	197.4	216.0	249.6	253.3	260.7
152.5°	193.7	208.6	230.9	253.3	257.0
155°	193.7	204.9	219.8	238.4	242.1
157.5°	190.0	204.9	212.3	227.2	230.9
160°	190.0	201.1	208.6	219.8	223.5
162.5°	190.0	201.1	204.9	216.0	219.8
165°	190.0	197.4	204.9	212.3	212.3
167.5°	190.0	197.4	201.1	208.6	208.6
170°	190.0	193.7	201.1	204.9	204.9
172.5°	186.2	193.7	197.4	204.9	204.9
175°	186.2	190.0	193.7	197.4	201.1
177.5°	178.8	190.0	193.7	197.4	193.7
180°	182.5	182.5	182.5	182.5	182.5



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	305.4	294.3	432.1	588.5	637.0
110°	324.1	298.0	443.3	599.7	659.3



(END OF REPORT)