

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: P520656

Luminaire Tested: **8WSLA-125-L835-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520656  
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-125-L835-UPL8-UNV-U  
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

**Summary**

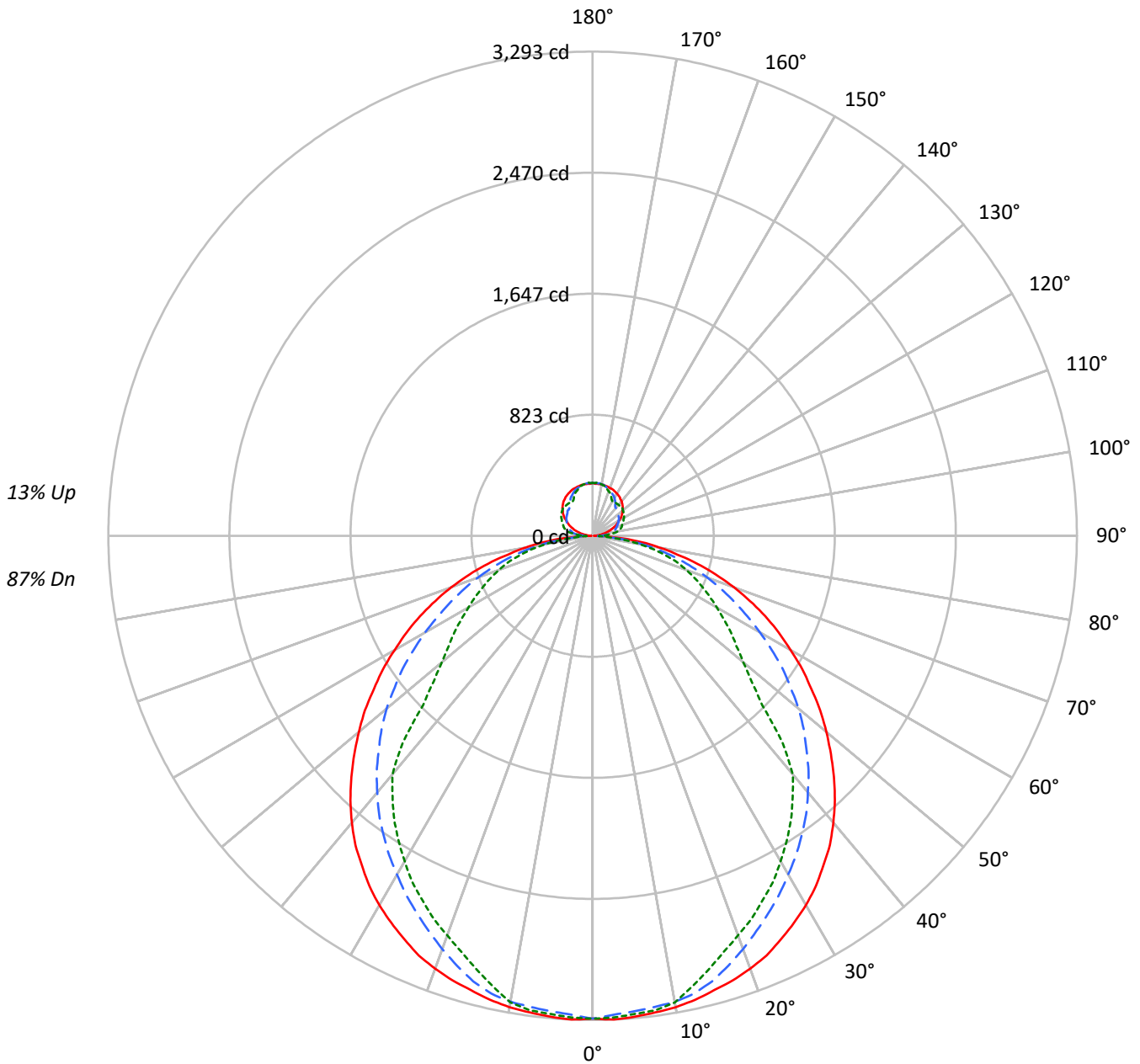
Lumens per Lamp: N/A  
Luminaire Lumens: 10220.0 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 78.2  
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	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°	8837	8837	8837
5°	8871	8769	8820
10°	8896	8793	8805
15°	8912	8741	8504
20°	8971	8565	8281
25°	8993	8404	8123
30°	9015	8266	7943
35°	8987	8149	7730
40°	8946	8000	7436
45°	8829	7822	6204
50°	8684	7655	5598
55°	8512	7404	5387
60°	8366	7070	5239
65°	8244	6769	5235
70°	8030	6506	5316
75°	7664	6190	5355
80°	7177	5565	4979
85°	6564	3940	3356



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.9	3.0
10°-20°	883.9	8.6
20°-30°	1320.7	12.9
30°-40°	1576.5	15.4
40°-50°	1576.6	15.4
50°-60°	1364.5	13.4
60°-70°	1047.3	10.2
70°-80°	641.7	6.3
80°-90°	180.7	1.8
90°-100°	102.1	1.0
100°-110°	162.1	1.6
110°-120°	189.5	1.9
120°-130°	204.6	2.0
130°-140°	201.6	2.0
140°-150°	178.3	1.7
150°-160°	146.8	1.4
160°-170°	98.2	1.0
170°-180°	34.2	0.3
0°-30°	2515.4	24.6
0°-40°	4091.9	40.0
0°-60°	7033.0	68.8
0°-90°	8902.7	87.1
90°-120°	453.7	4.4
90°-150°	1038.2	10.2
90°-180°	1317.0	12.9
0°-180°	10220.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3284	3284	3284	3284	3284	
5°	3284	3274	3246	3270	3265	312
15°	3199	3194	3137	3081	3052	905
25°	3029	2991	2830	2755	2736	1397
35°	2736	2665	2481	2391	2353	1713
45°	2320	2254	2055	1871	1630	1789
55°	1814	1772	1578	1262	1148	1627
65°	1295	1247	1063	855	822	1279
75°	737	699	595	515	515	778
85°	213	175	128	109	109	222
90°	10	33	52	66	71	15
95°	38	80	109	113	113	37
105°	109	113	161	189	198	114
115°	180	151	189	217	232	175
125°	241	194	217	250	260	215
135°	288	260	241	265	279	222
145°	321	307	269	265	274	200
155°	340	336	317	302	298	157
165°	350	354	345	345	345	99
175°	354	359	359	364	364	34
180°	359	359	359	359	359	



TEST NUMBER: P520656

CATALOG NUMBER: 8WSLA-125-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3283.9	3283.9	3283.9	3283.9	3283.9
2.5°	3293.4	3283.9	3260.3	3283.9	3279.2
5°	3283.9	3274.5	3246.1	3269.8	3265.0
7.5°	3269.8	3260.3	3232.0	3260.3	3255.6
10°	3255.6	3246.1	3217.8	3236.7	3222.5
12.5°	3232.0	3222.5	3189.4	3165.8	3137.4
15°	3198.9	3194.2	3137.4	3080.7	3052.4
17.5°	3170.5	3156.3	3066.6	3000.4	2967.3
20°	3132.7	3109.1	2991.0	2915.4	2891.7
22.5°	3090.2	3052.4	2910.6	2839.8	2820.9
25°	3028.8	2991.0	2830.3	2754.7	2735.8
27.5°	2967.3	2920.1	2750.0	2674.4	2655.5
30°	2901.2	2835.0	2660.2	2589.3	2556.3
32.5°	2825.6	2759.4	2575.2	2494.8	2457.0
35°	2735.8	2664.9	2480.7	2390.9	2353.1
37.5°	2650.8	2575.2	2386.2	2286.9	2235.0
40°	2546.8	2471.2	2277.5	2168.8	2116.8
42.5°	2438.1	2367.3	2173.5	2041.2	1913.7
45°	2320.0	2253.9	2055.4	1871.1	1630.2
47.5°	2197.2	2140.5	1946.7	1696.3	1464.8
50°	2074.3	2017.6	1828.6	1530.9	1337.2
52.5°	1951.5	1904.2	1696.3	1393.9	1233.2
55°	1814.4	1771.9	1578.2	1261.6	1148.2
57.5°	1691.6	1649.1	1441.1	1152.9	1058.4
60°	1554.5	1516.7	1313.6	1044.2	973.4
62.5°	1427.0	1384.4	1186.0	949.7	897.8
65°	1294.7	1247.4	1063.1	855.2	822.2
67.5°	1157.6	1110.4	945.0	770.2	751.3
70°	1020.6	982.8	826.9	685.1	675.7
72.5°	878.9	836.3	708.8	604.8	604.8
75°	737.1	699.3	595.4	515.0	515.0
77.5°	590.6	571.7	477.2	420.5	425.3
80°	463.1	439.4	359.1	321.3	321.3
82.5°	340.2	311.9	241.0	212.6	222.1
85°	212.6	174.8	127.6	108.7	108.7
87.5°	66.2	52.0	37.8	42.5	42.5
90°	9.5	33.1	52.0	66.2	70.9
92.5°	23.6	61.4	75.6	89.8	94.5
95°	37.8	80.3	108.7	113.4	113.4
97.5°	52.0	89.8	132.3	151.2	151.2
100°	70.9	94.5	141.8	170.1	174.8
102.5°	89.8	104.0	151.2	179.6	189.0
105°	108.7	113.4	160.7	189.0	198.5



TEST NUMBER: P520656

CATALOG NUMBER: 8WSLA-125-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	160.7	141.8	179.6	212.6	222.1
115°	179.6	151.2	189.0	217.4	231.5
117.5°	193.7	165.4	198.5	226.8	236.3
120°	207.9	174.8	203.2	236.3	245.7
122.5°	226.8	184.3	212.6	241.0	255.2
125°	241.0	193.7	217.4	250.4	259.9
127.5°	255.2	212.6	222.1	255.2	264.6
130°	264.6	231.5	226.8	259.9	269.3
132.5°	278.8	245.7	231.5	264.6	274.1
135°	288.2	259.9	241.0	264.6	278.8
137.5°	297.7	274.1	241.0	264.6	274.1
140°	307.1	288.2	245.7	264.6	274.1
142.5°	311.9	297.7	250.4	264.6	274.1
145°	321.3	307.1	269.3	264.6	274.1
147.5°	326.0	316.6	283.5	264.6	274.1
150°	330.8	326.0	297.7	269.3	269.3
152.5°	335.5	330.8	307.1	288.2	278.8
155°	340.2	335.5	316.6	302.4	297.7
157.5°	344.9	344.9	326.0	316.6	311.9
160°	344.9	349.7	335.5	326.0	321.3
162.5°	349.7	354.4	340.2	335.5	330.8
165°	349.7	354.4	344.9	344.9	344.9
167.5°	354.4	359.1	354.4	349.7	349.7
170°	354.4	359.1	354.4	354.4	354.4
172.5°	354.4	359.1	359.1	359.1	359.1
175°	354.4	359.1	359.1	363.8	363.8
177.5°	354.4	359.1	359.1	359.1	359.1
180°	359.1	359.1	359.1	359.1	359.1



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	127.6	122.9	165.4	198.5	207.9
110°	141.8	132.3	174.8	203.2	212.6



(END OF REPORT)