

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: P520661

Luminaire Tested: **8WSLA-125-L850-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520661
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-125-L850-UPL15-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

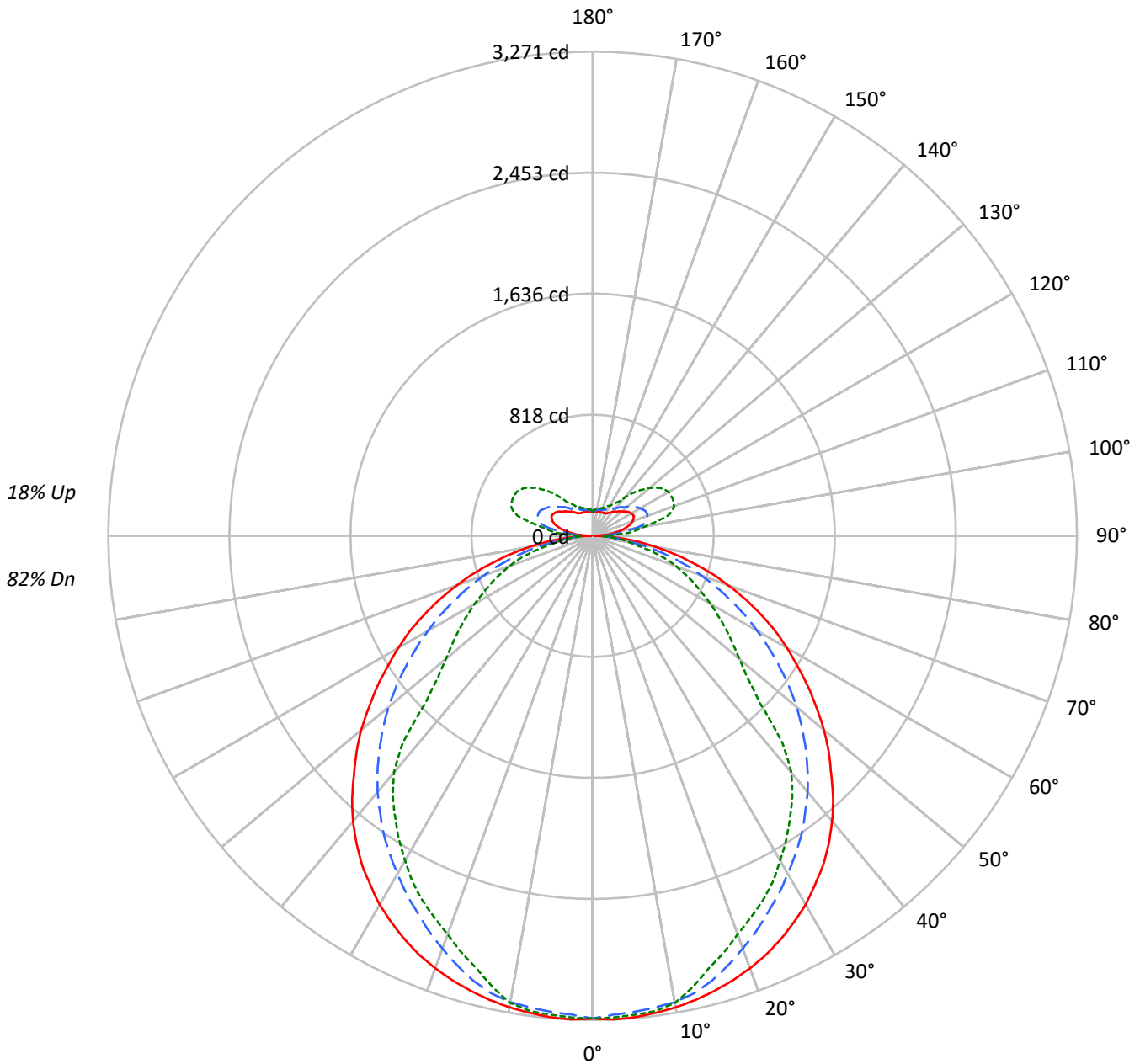
Lumens per Lamp: N/A
Luminaire Lumens: 10562.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 78.2
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	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°	8776	8776	8776
5°	8819	8720	8774
10°	8839	8740	8758
15°	8864	8671	8431
20°	8903	8496	8202
25°	8927	8328	8073
30°	8941	8191	7873
35°	8921	8084	7638
40°	8842	7936	7332
45°	8673	7741	6080
50°	8544	7533	5414
55°	8333	7231	5152
60°	8153	6907	4949
65°	7961	6528	4802
70°	7651	6116	4711
75°	7222	5605	4334
80°	6612	4716	3845
85°	5922	4085	3881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	2.9
10°-20°	878.0	8.3
20°-30°	1310.3	12.4
30°-40°	1561.3	14.8
40°-50°	1552.9	14.7
50°-60°	1330.9	12.6
60°-70°	1002.4	9.5
70°-80°	580.5	5.5
80°-90°	174.5	1.7
90°-100°	187.3	1.8
100°-110°	384.7	3.6
110°-120°	406.7	3.9
120°-130°	339.3	3.2
130°-140°	237.0	2.2
140°-150°	147.5	1.4
150°-160°	91.4	0.9
160°-170°	51.5	0.5
170°-180°	16.6	0.2
0°-30°	2497.4	23.6
0°-40°	4058.7	38.4
0°-60°	6942.6	65.7
0°-90°	8699.9	82.4
90°-120°	978.7	9.3
90°-150°	1702.5	16.1
90°-180°	1862.0	17.6
0°-180°	10562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3261	3261	3261	3261	3261	
5°	3265	3255	3228	3251	3248	311
15°	3182	3179	3112	3060	3026	899
25°	3007	2964	2805	2735	2719	1386
35°	2716	2643	2461	2365	2325	1696
45°	2279	2223	2034	1832	1598	1762
55°	1776	1750	1541	1224	1098	1588
65°	1250	1220	1025	797	754	1236
75°	695	671	539	430	417	736
85°	192	169	132	126	126	205
90°	10	46	79	99	106	19
95°	106	142	162	238	258	101
105°	248	258	370	496	526	257
115°	308	261	394	542	595	299
125°	284	251	341	499	562	253
135°	232	251	274	370	427	181
145°	188	218	238	255	271	120
155°	172	182	195	212	215	79
165°	169	175	182	188	188	48
175°	165	169	172	175	179	16
180°	162	162	162	162	162	



TEST NUMBER: P520661

CATALOG NUMBER: 8WSLA-125-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3261.3	3261.3	3261.3	3261.3	3261.3
2.5°	3271.2	3264.6	3238.1	3264.6	3257.9
5°	3264.6	3254.6	3228.2	3251.3	3248.0
7.5°	3251.3	3244.7	3214.9	3241.4	3238.1
10°	3234.8	3224.9	3198.4	3218.3	3205.0
12.5°	3211.6	3205.0	3165.3	3148.8	3122.3
15°	3181.9	3178.6	3112.4	3059.5	3026.4
17.5°	3148.8	3135.6	3043.0	2980.1	2950.3
20°	3109.1	3089.3	2966.9	2894.1	2864.3
22.5°	3062.8	3033.0	2890.8	2821.3	2791.6
25°	3006.6	2963.6	2804.8	2735.4	2718.8
27.5°	2943.7	2894.1	2725.4	2656.0	2636.1
30°	2877.6	2814.7	2636.1	2570.0	2533.6
32.5°	2794.9	2735.4	2550.1	2474.1	2434.4
35°	2715.5	2642.7	2460.8	2364.9	2325.2
37.5°	2619.6	2546.8	2358.3	2262.4	2216.1
40°	2517.1	2444.3	2259.1	2146.6	2087.1
42.5°	2404.6	2338.4	2149.9	2014.3	1898.5
45°	2278.9	2222.7	2034.1	1832.4	1597.6
47.5°	2163.1	2110.2	1918.4	1657.1	1415.6
50°	2040.8	1991.2	1799.3	1491.7	1293.3
52.5°	1905.2	1868.8	1670.3	1349.5	1190.7
55°	1776.2	1749.7	1541.3	1223.8	1098.1
57.5°	1640.5	1614.1	1412.3	1104.7	1005.5
60°	1514.9	1488.4	1283.3	998.9	919.5
62.5°	1389.2	1352.8	1157.6	896.3	830.2
65°	1250.3	1220.5	1025.3	797.1	754.1
67.5°	1111.3	1084.9	903.0	704.5	674.7
70°	972.4	949.3	777.3	615.2	598.7
72.5°	836.8	807.0	664.8	525.9	519.3
75°	694.6	671.4	539.1	430.0	416.8
77.5°	559.0	539.1	423.4	327.4	317.5
80°	426.7	406.8	304.3	238.1	248.1
82.5°	314.2	287.8	205.1	185.2	195.1
85°	191.8	168.7	132.3	125.7	125.7
87.5°	66.2	62.8	59.5	69.5	72.8
90°	9.9	46.3	79.4	99.2	105.8
92.5°	56.2	82.7	109.1	129.0	135.6
95°	105.8	142.2	162.1	238.1	258.0
97.5°	145.5	188.5	211.7	281.1	301.0
100°	185.2	224.9	297.7	334.1	357.2
102.5°	218.3	248.1	350.6	423.4	436.6
105°	248.1	258.0	370.4	496.1	525.9



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CATALOG NUMBER: 8WSLA-125-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	297.7	264.6	396.9	539.1	592.1
115°	307.6	261.3	393.6	542.4	595.4
117.5°	307.6	261.3	383.7	542.4	595.4
120°	301.0	264.6	370.4	535.8	592.1
122.5°	294.4	258.0	357.2	522.6	578.8
125°	284.5	251.4	340.7	499.4	562.3
127.5°	267.9	258.0	324.1	469.7	532.5
130°	254.7	261.3	304.3	439.9	502.7
132.5°	244.8	254.7	284.5	406.8	463.1
135°	231.5	251.4	274.5	370.4	426.7
137.5°	221.6	241.5	258.0	337.4	383.7
140°	211.7	234.8	241.5	294.4	334.1
142.5°	198.5	224.9	228.2	274.5	291.1
145°	188.5	218.3	238.1	254.7	271.2
147.5°	178.6	205.1	231.5	234.8	251.4
150°	175.3	191.8	221.6	224.9	231.5
152.5°	172.0	185.2	205.1	224.9	228.2
155°	172.0	181.9	195.1	211.7	215.0
157.5°	168.7	181.9	188.5	201.8	205.1
160°	168.7	178.6	185.2	195.1	198.5
162.5°	168.7	178.6	181.9	191.8	195.1
165°	168.7	175.3	181.9	188.5	188.5
167.5°	168.7	175.3	178.6	185.2	185.2
170°	168.7	172.0	178.6	181.9	181.9
172.5°	165.4	172.0	175.3	181.9	181.9
175°	165.4	168.7	172.0	175.3	178.6
177.5°	158.8	168.7	172.0	175.3	172.0
180°	162.1	162.1	162.1	162.1	162.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	271.2	261.3	383.7	522.6	565.6
110°	287.8	264.6	393.6	532.5	585.4



(END OF REPORT)