

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: P520652

Luminaire Tested: **8WSLA-125-L830-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520652
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-L830-UPL15-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

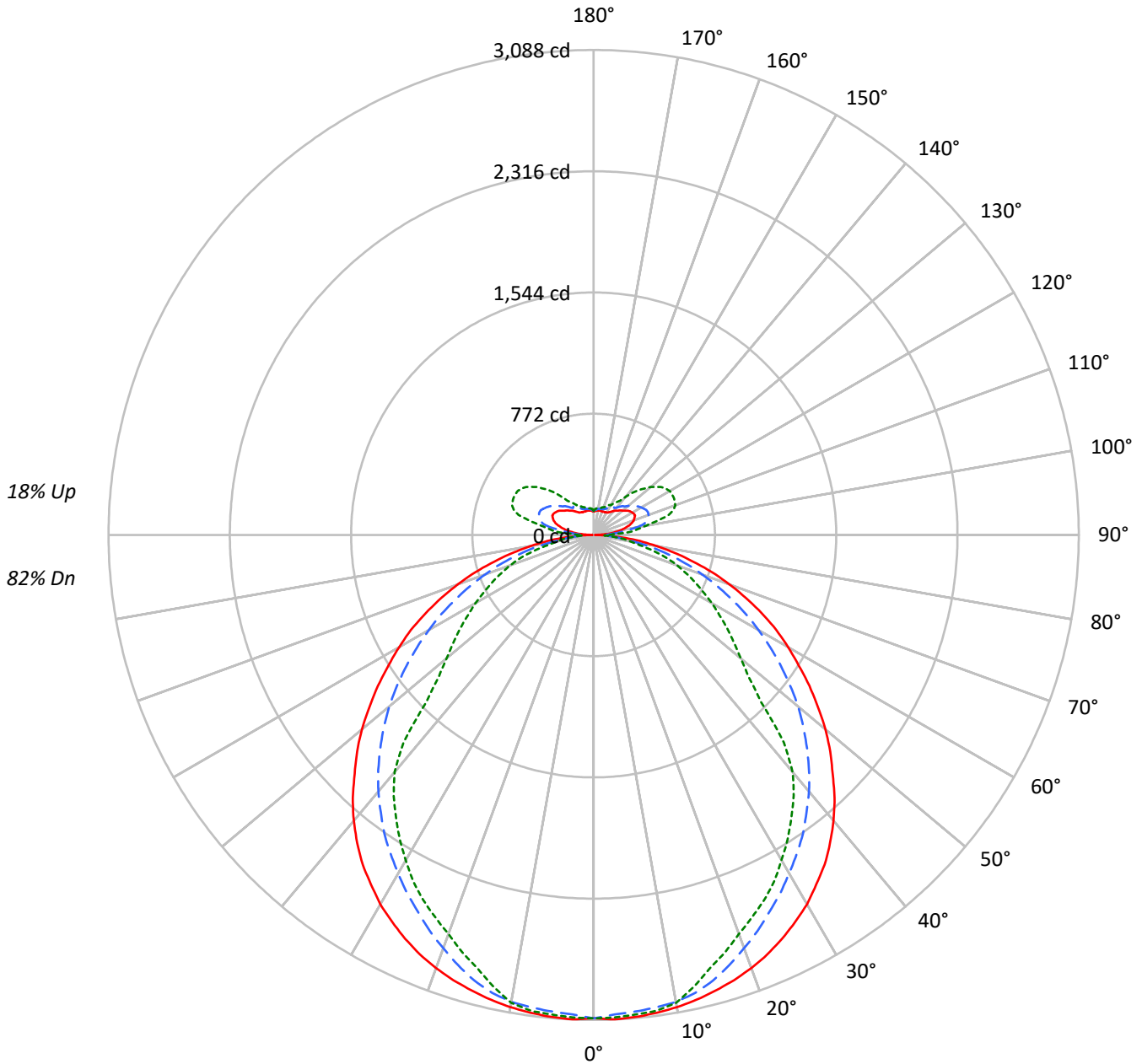
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9969.0 lumens
Efficiency: N/A
Efficacy: 127.5 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					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	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°	8283	8283	8283
5°	8323	8230	8281
10°	8343	8249	8266
15°	8367	8184	7958
20°	8403	8019	7742
25°	8426	7860	7619
30°	8439	7731	7430
35°	8420	7630	7210
40°	8345	7490	6920
45°	8186	7306	5738
50°	8064	7110	5110
55°	7865	6825	4863
60°	7695	6519	4671
65°	7514	6162	4532
70°	7221	5772	4446
75°	6816	5291	4090
80°	6241	4451	3628
85°	5592	3856	3662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	2.9
10°-20°	828.7	8.3
20°-30°	1236.7	12.4
30°-40°	1473.6	14.8
40°-50°	1465.8	14.7
50°-60°	1256.2	12.6
60°-70°	946.1	9.5
70°-80°	547.9	5.5
80°-90°	164.7	1.7
90°-100°	176.8	1.8
100°-110°	363.1	3.6
110°-120°	383.9	3.9
120°-130°	320.3	3.2
130°-140°	223.7	2.2
140°-150°	139.2	1.4
150°-160°	86.3	0.9
160°-170°	48.6	0.5
170°-180°	15.7	0.2
0°-30°	2357.2	23.6
0°-40°	3830.8	38.4
0°-60°	6552.8	65.7
0°-90°	8211.5	82.4
90°-120°	923.7	9.3
90°-150°	1606.9	16.1
90°-180°	1758.0	17.6
0°-180°	9969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3078	3078	3078	3078	3078	
5°	3081	3072	3047	3069	3066	293
15°	3003	3000	2938	2888	2856	849
25°	2838	2797	2647	2582	2566	1308
35°	2563	2494	2323	2232	2195	1601
45°	2151	2098	1920	1730	1508	1663
55°	1676	1652	1455	1155	1036	1499
65°	1180	1152	968	752	712	1167
75°	656	634	509	406	393	694
85°	181	159	125	119	119	193
90°	9	44	75	94	100	18
95°	100	134	153	225	244	96
105°	234	244	350	468	496	243
115°	290	247	372	512	562	283
125°	268	237	322	471	531	238
135°	218	237	259	350	403	171
145°	178	206	225	240	256	113
155°	162	172	184	200	203	75
165°	159	166	172	178	178	45
175°	156	159	162	166	169	15
180°	153	153	153	153	153	



TEST NUMBER: P520652

CATALOG NUMBER: 8WSLA-125-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3078.2	3078.2	3078.2	3078.2	3078.2
2.5°	3087.5	3081.3	3056.3	3081.3	3075.0
5°	3081.3	3071.9	3046.9	3068.8	3065.7
7.5°	3068.8	3062.5	3034.4	3059.4	3056.3
10°	3053.2	3043.8	3018.8	3037.6	3025.1
12.5°	3031.3	3025.1	2987.6	2972.0	2947.0
15°	3003.2	3000.1	2937.7	2887.7	2856.5
17.5°	2972.0	2959.5	2872.1	2812.8	2784.7
20°	2934.5	2915.8	2800.3	2731.6	2703.5
22.5°	2890.8	2862.7	2728.5	2662.9	2634.8
25°	2837.8	2797.2	2647.3	2581.8	2566.2
27.5°	2778.5	2731.6	2572.4	2506.9	2488.1
30°	2716.0	2656.7	2488.1	2425.7	2391.3
32.5°	2638.0	2581.8	2407.0	2335.1	2297.7
35°	2563.0	2494.4	2322.7	2232.1	2194.7
37.5°	2472.5	2403.8	2225.9	2135.3	2091.6
40°	2375.7	2307.1	2132.2	2026.1	1969.9
42.5°	2269.6	2207.2	2029.2	1901.2	1791.9
45°	2151.0	2097.9	1919.9	1729.5	1507.9
47.5°	2041.7	1991.7	1810.7	1564.1	1336.2
50°	1926.2	1879.4	1698.3	1408.0	1220.6
52.5°	1798.2	1763.8	1576.5	1273.7	1123.9
55°	1676.4	1651.5	1454.8	1155.1	1036.5
57.5°	1548.4	1523.5	1333.0	1042.7	949.0
60°	1429.8	1404.8	1211.3	942.8	867.9
62.5°	1311.2	1276.8	1092.6	846.0	783.6
65°	1180.1	1152.0	967.8	752.4	711.8
67.5°	1048.9	1024.0	852.3	665.0	636.9
70°	917.8	896.0	733.6	580.7	565.1
72.5°	789.8	761.7	627.5	496.4	490.1
75°	655.6	633.7	508.9	405.8	393.4
77.5°	527.6	508.9	399.6	309.1	299.7
80°	402.7	384.0	287.2	224.8	234.1
82.5°	296.6	271.6	193.6	174.8	184.2
85°	181.1	159.2	124.9	118.6	118.6
87.5°	62.4	59.3	56.2	65.6	68.7
90°	9.4	43.7	74.9	93.7	99.9
92.5°	53.1	78.0	103.0	121.8	128.0
95°	99.9	134.2	153.0	224.8	243.5
97.5°	137.4	177.9	199.8	265.4	284.1
100°	174.8	212.3	281.0	315.3	337.2
102.5°	206.0	234.1	330.9	399.6	412.1
105°	234.1	243.5	349.6	468.3	496.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.0	249.7	374.6	508.9	558.8
115°	290.3	246.6	371.5	512.0	561.9
117.5°	290.3	246.6	362.1	512.0	561.9
120°	284.1	249.7	349.6	505.7	558.8
122.5°	277.8	243.5	337.2	493.3	546.3
125°	268.5	237.3	321.6	471.4	530.7
127.5°	252.9	243.5	305.9	443.3	502.6
130°	240.4	246.6	287.2	415.2	474.5
132.5°	231.0	240.4	268.5	384.0	437.1
135°	218.5	237.3	259.1	349.6	402.7
137.5°	209.2	227.9	243.5	318.4	362.1
140°	199.8	221.7	227.9	277.8	315.3
142.5°	187.3	212.3	215.4	259.1	274.7
145°	177.9	206.0	224.8	240.4	256.0
147.5°	168.6	193.6	218.5	221.7	237.3
150°	165.5	181.1	209.2	212.3	218.5
152.5°	162.3	174.8	193.6	212.3	215.4
155°	162.3	171.7	184.2	199.8	202.9
157.5°	159.2	171.7	177.9	190.4	193.6
160°	159.2	168.6	174.8	184.2	187.3
162.5°	159.2	168.6	171.7	181.1	184.2
165°	159.2	165.5	171.7	177.9	177.9
167.5°	159.2	165.5	168.6	174.8	174.8
170°	159.2	162.3	168.6	171.7	171.7
172.5°	156.1	162.3	165.5	171.7	171.7
175°	156.1	159.2	162.3	165.5	168.6
177.5°	149.8	159.2	162.3	165.5	162.3
180°	153.0	153.0	153.0	153.0	153.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	256.0	246.6	362.1	493.3	533.8
110°	271.6	249.7	371.5	502.6	552.6



(END OF REPORT)