

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: P520493

Luminaire Tested: **4WSLA-125-L850-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520493
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: 4WSLA-125-L850-UPL15-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

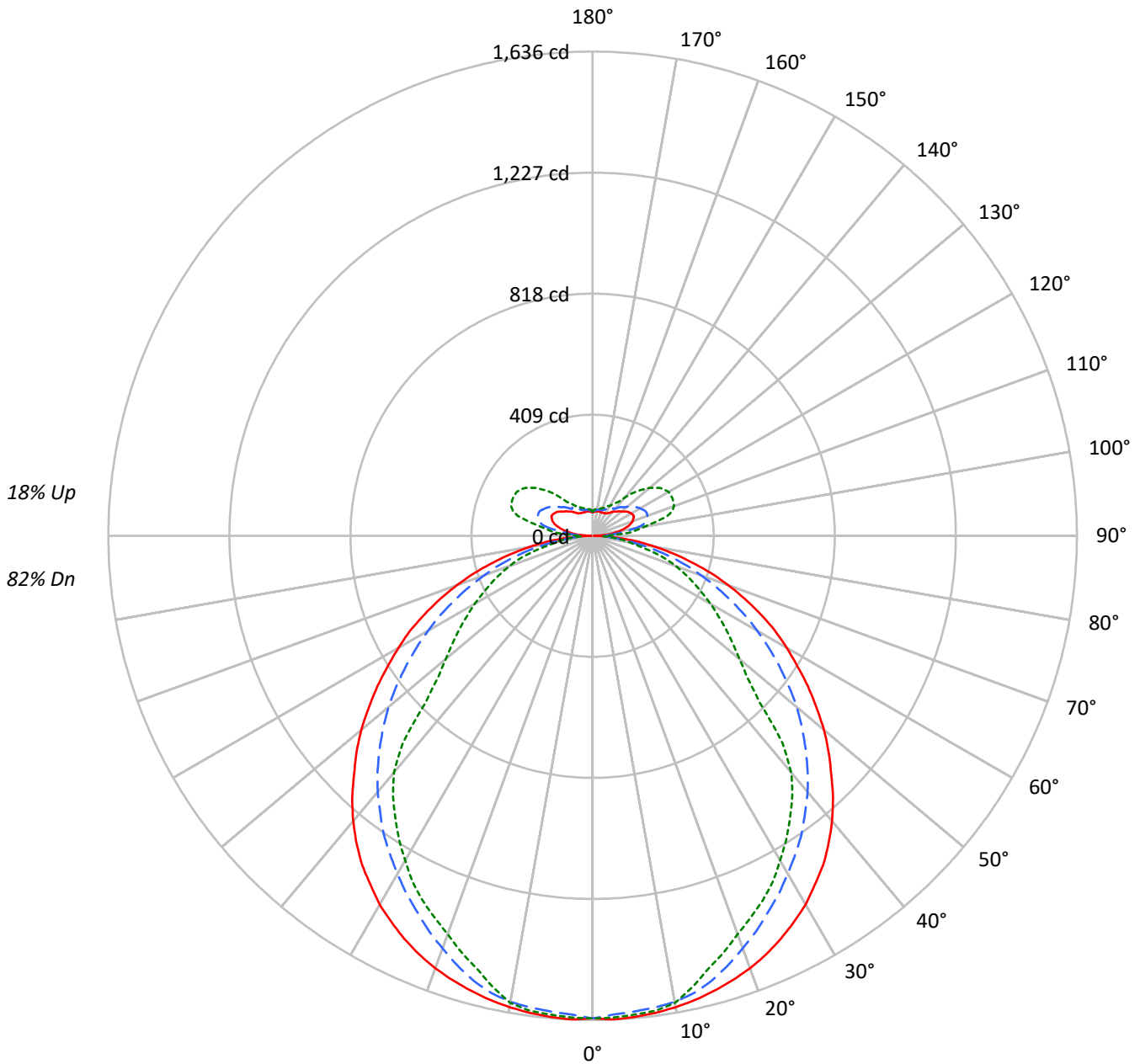
Lumens per Lamp: N/A
Luminaire Lumens: 5281.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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°	8904	8496	8203
25°	8927	8328	8073
30°	8941	8191	7873
35°	8921	8084	7638
40°	8842	7935	7331
45°	8673	7741	6080
50°	8544	7533	5414
55°	8333	7232	5152
60°	8153	6907	4949
65°	7961	6529	4802
70°	7651	6115	4710
75°	7222	5606	4334
80°	6611	4714	3843
85°	5922	4088	3878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	2.9
10°-20°	439.0	8.3
20°-30°	655.2	12.4
30°-40°	780.6	14.8
40°-50°	776.5	14.7
50°-60°	665.5	12.6
60°-70°	501.2	9.5
70°-80°	290.3	5.5
80°-90°	87.2	1.7
90°-100°	93.7	1.8
100°-110°	192.3	3.6
110°-120°	203.4	3.9
120°-130°	169.6	3.2
130°-140°	118.5	2.2
140°-150°	73.8	1.4
150°-160°	45.7	0.9
160°-170°	25.8	0.5
170°-180°	8.3	0.2
0°-30°	1248.7	23.6
0°-40°	2029.3	38.4
0°-60°	3471.3	65.7
0°-90°	4350.0	82.4
90°-120°	489.3	9.3
90°-150°	851.2	16.1
90°-180°	931.0	17.6
0°-180°	5281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1632	1627	1614	1626	1624	155
15°	1591	1589	1556	1530	1513	450
25°	1503	1482	1402	1368	1359	693
35°	1358	1321	1230	1182	1163	848
45°	1140	1111	1017	916	799	881
55°	888	875	771	612	549	794
65°	625	610	513	399	377	618
75°	347	336	270	215	208	368
85°	96	84	66	63	63	102
90°	5	23	40	50	53	10
95°	53	71	81	119	129	51
105°	124	129	185	248	263	129
115°	154	131	197	271	298	150
125°	142	126	170	250	281	126
135°	116	126	137	185	213	90
145°	94	109	119	127	136	60
155°	86	91	98	106	108	40
165°	84	88	91	94	94	24
175°	83	84	86	88	89	8
180°	81	81	81	81	81	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.6	1630.6	1630.6	1630.6	1630.6
2.5°	1635.6	1632.3	1619.0	1632.3	1629.0
5°	1632.3	1627.3	1614.1	1625.7	1624.0
7.5°	1625.7	1622.4	1607.5	1620.7	1619.0
10°	1617.4	1612.4	1599.2	1609.1	1602.5
12.5°	1605.8	1602.5	1582.7	1574.4	1561.2
15°	1590.9	1589.3	1556.2	1529.7	1513.2
17.5°	1574.4	1567.8	1521.5	1490.1	1475.2
20°	1554.6	1544.6	1483.4	1447.1	1432.2
22.5°	1531.4	1516.5	1445.4	1410.7	1395.8
25°	1503.3	1481.8	1402.4	1367.7	1359.4
27.5°	1471.9	1447.1	1362.7	1328.0	1318.1
30°	1438.8	1407.4	1318.1	1285.0	1266.8
32.5°	1397.4	1367.7	1275.1	1237.0	1217.2
35°	1357.8	1321.4	1230.4	1182.5	1162.6
37.5°	1309.8	1273.4	1179.1	1131.2	1108.0
40°	1258.5	1222.1	1129.5	1073.3	1043.5
42.5°	1202.3	1169.2	1075.0	1007.2	949.3
45°	1139.5	1111.3	1017.1	916.2	798.8
47.5°	1081.6	1055.1	959.2	828.5	707.8
50°	1020.4	995.6	899.7	745.9	646.6
52.5°	952.6	934.4	835.2	674.7	595.4
55°	888.1	874.8	770.7	611.9	549.1
57.5°	820.3	807.0	706.2	552.4	502.7
60°	757.4	744.2	641.7	499.4	459.8
62.5°	694.6	676.4	578.8	448.2	415.1
65°	625.1	610.2	512.7	398.6	377.1
67.5°	555.7	542.4	451.5	352.3	337.4
70°	486.2	474.6	388.6	307.6	299.3
72.5°	418.4	403.5	332.4	263.0	259.6
75°	347.3	335.7	269.6	215.0	208.4
77.5°	279.5	269.6	211.7	163.7	158.8
80°	213.3	203.4	152.1	119.1	124.0
82.5°	157.1	143.9	102.5	92.6	97.6
85°	95.9	84.3	66.2	62.8	62.8
87.5°	33.1	31.4	29.8	34.7	36.4
90°	5.0	23.2	39.7	49.6	52.9
92.5°	28.1	41.3	54.6	64.5	67.8
95°	52.9	71.1	81.0	119.1	129.0
97.5°	72.8	94.3	105.8	140.6	150.5
100°	92.6	112.5	148.8	167.0	178.6
102.5°	109.1	124.0	175.3	211.7	218.3
105°	124.0	129.0	185.2	248.1	263.0



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CATALOG NUMBER: 4WSLA-125-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	148.8	132.3	198.5	269.6	296.0
115°	153.8	130.6	196.8	271.2	297.7
117.5°	153.8	130.6	191.8	271.2	297.7
120°	150.5	132.3	185.2	267.9	296.0
122.5°	147.2	129.0	178.6	261.3	289.4
125°	142.2	125.7	170.3	249.7	281.1
127.5°	134.0	129.0	162.1	234.8	266.3
130°	127.3	130.6	152.1	220.0	251.4
132.5°	122.4	127.3	142.2	203.4	231.5
135°	115.8	125.7	137.3	185.2	213.3
137.5°	110.8	120.7	129.0	168.7	191.8
140°	105.8	117.4	120.7	147.2	167.0
142.5°	99.2	112.5	114.1	137.3	145.5
145°	94.3	109.1	119.1	127.3	135.6
147.5°	89.3	102.5	115.8	117.4	125.7
150°	87.7	95.9	110.8	112.5	115.8
152.5°	86.0	92.6	102.5	112.5	114.1
155°	86.0	91.0	97.6	105.8	107.5
157.5°	84.3	91.0	94.3	100.9	102.5
160°	84.3	89.3	92.6	97.6	99.2
162.5°	84.3	89.3	91.0	95.9	97.6
165°	84.3	87.7	91.0	94.3	94.3
167.5°	84.3	87.7	89.3	92.6	92.6
170°	84.3	86.0	89.3	91.0	91.0
172.5°	82.7	86.0	87.7	91.0	91.0
175°	82.7	84.3	86.0	87.7	89.3
177.5°	79.4	84.3	86.0	87.7	86.0
180°	81.0	81.0	81.0	81.0	81.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	135.6	130.6	191.8	261.3	282.8
110°	143.9	132.3	196.8	266.3	292.7



(END OF REPORT)