

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: P520517

Luminaire Tested: **4WSLA-150-L850-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520517
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-150-L850-UPL15-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

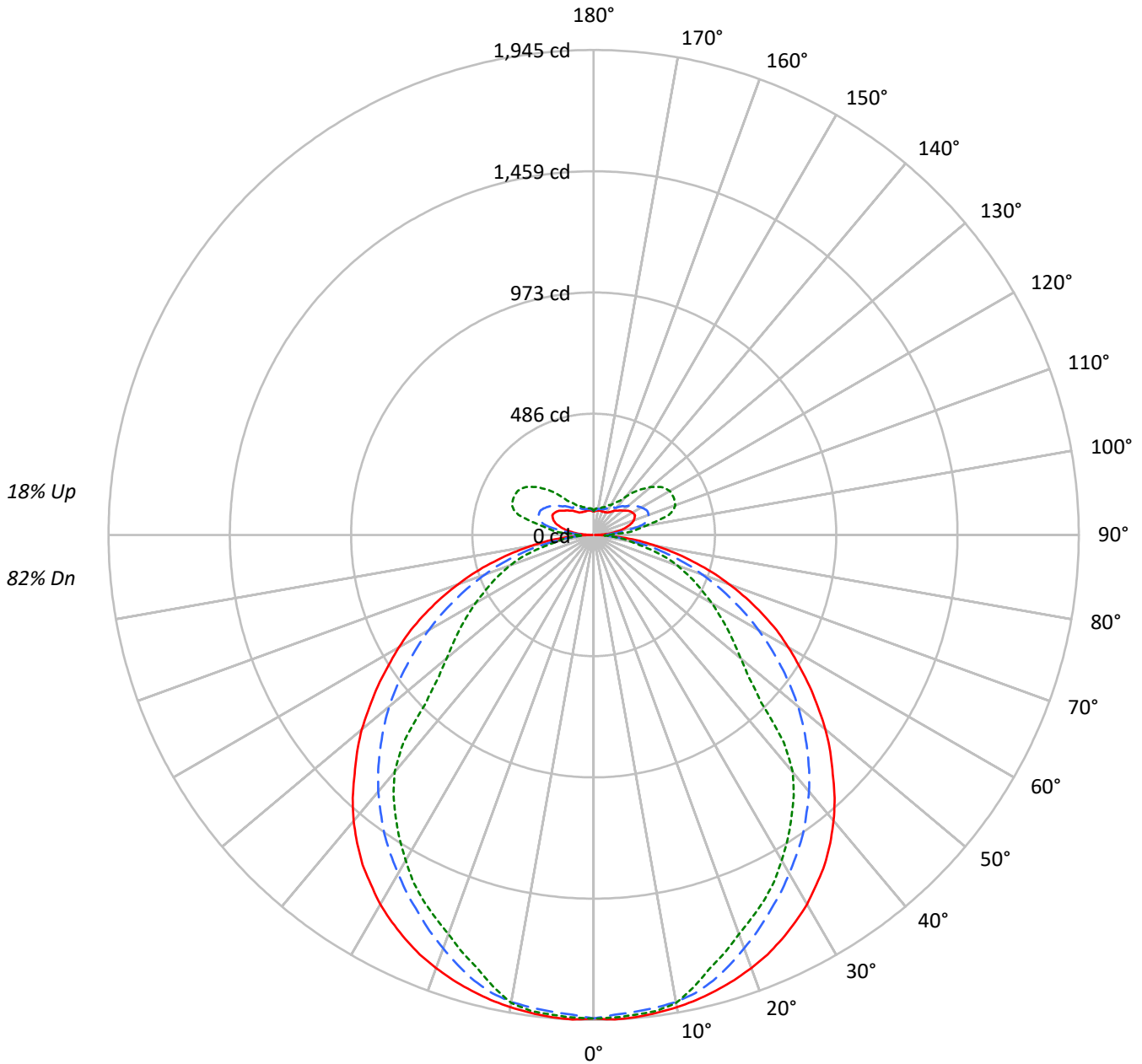
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6281.0 lumens
Efficiency: N/A
Efficacy: 131.7 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): 47.7
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°	10438	10438	10438
5°	10488	10371	10435
10°	10513	10394	10416
15°	10543	10313	10028
20°	10589	10105	9756
25°	10617	9905	9601
30°	10634	9742	9363
35°	10610	9615	9085
40°	10516	9438	8720
45°	10315	9207	7231
50°	10161	8959	6440
55°	9910	8601	6127
60°	9697	8215	5886
65°	9468	7766	5712
70°	9100	7273	5602
75°	8590	6667	5153
80°	7863	5610	4572
85°	7046	4860	4613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	2.9
10°-20°	522.1	8.3
20°-30°	779.2	12.4
30°-40°	928.5	14.8
40°-50°	923.5	14.7
50°-60°	791.5	12.6
60°-70°	596.1	9.5
70°-80°	345.2	5.5
80°-90°	103.7	1.7
90°-100°	111.4	1.8
100°-110°	228.7	3.6
110°-120°	241.9	3.9
120°-130°	201.8	3.2
130°-140°	141.0	2.2
140°-150°	87.7	1.4
150°-160°	54.4	0.9
160°-170°	30.6	0.5
170°-180°	9.9	0.2
0°-30°	1485.2	23.6
0°-40°	2413.6	38.4
0°-60°	4128.6	65.7
0°-90°	5173.7	82.4
90°-120°	582.0	9.3
90°-150°	1012.5	16.1
90°-180°	1107.0	17.6
0°-180°	6281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1939	1939	1939	1939	1939	
5°	1941	1936	1920	1934	1932	185
15°	1892	1890	1851	1819	1800	535
25°	1788	1762	1668	1627	1617	824
35°	1615	1572	1463	1406	1383	1009
45°	1355	1322	1210	1090	950	1048
55°	1056	1040	917	728	653	944
65°	744	726	610	474	448	735
75°	413	399	321	256	248	438
85°	114	100	79	75	75	122
90°	6	28	47	59	63	12
95°	63	85	96	142	153	60
105°	148	153	220	295	313	153
115°	183	155	234	323	354	178
125°	169	150	203	297	334	150
135°	138	150	163	220	254	108
145°	112	130	142	152	161	71
155°	102	108	116	126	128	47
165°	100	104	108	112	112	28
175°	98	100	102	104	106	9
180°	96	96	96	96	96	



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CATALOG NUMBER: 4WSLA-150-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1945.3	1941.4	1925.6	1941.4	1937.4
5°	1941.4	1935.5	1919.7	1933.5	1931.5
7.5°	1933.5	1929.6	1911.9	1927.6	1925.6
10°	1923.7	1917.8	1902.0	1913.8	1906.0
12.5°	1909.9	1906.0	1882.4	1872.5	1856.8
15°	1892.2	1890.2	1850.9	1819.4	1799.7
17.5°	1872.5	1864.7	1809.6	1772.2	1754.5
20°	1848.9	1837.1	1764.3	1721.1	1703.4
22.5°	1821.4	1803.7	1719.1	1677.8	1660.1
25°	1787.9	1762.4	1668.0	1626.7	1616.8
27.5°	1750.6	1721.1	1620.8	1579.4	1567.6
30°	1711.2	1673.9	1567.6	1528.3	1506.7
32.5°	1662.1	1626.7	1516.5	1471.3	1447.7
35°	1614.9	1571.6	1463.4	1406.4	1382.8
37.5°	1557.8	1514.5	1402.4	1345.4	1317.8
40°	1496.8	1453.6	1343.4	1276.5	1241.1
42.5°	1430.0	1390.6	1278.5	1197.9	1129.0
45°	1355.2	1321.8	1209.7	1089.7	950.0
47.5°	1286.4	1254.9	1140.8	985.4	841.8
50°	1213.6	1184.1	1070.0	887.1	769.1
52.5°	1133.0	1111.3	993.3	802.5	708.1
55°	1056.2	1040.5	916.6	727.8	653.0
57.5°	975.6	959.9	839.9	657.0	597.9
60°	900.9	885.1	763.2	594.0	546.8
62.5°	826.1	804.5	688.4	533.0	493.7
65°	743.5	725.8	609.8	474.0	448.5
67.5°	660.9	645.2	537.0	419.0	401.3
70°	578.3	564.5	462.2	365.9	356.0
72.5°	497.6	479.9	395.4	312.7	308.8
75°	413.1	399.3	320.6	255.7	247.8
77.5°	332.4	320.6	251.8	194.7	188.8
80°	253.7	241.9	181.0	141.6	147.5
82.5°	186.9	171.1	122.0	110.1	116.0
85°	114.1	100.3	78.7	74.7	74.7
87.5°	39.3	37.4	35.4	41.3	43.3
90°	5.9	27.5	47.2	59.0	62.9
92.5°	33.4	49.2	64.9	76.7	80.6
95°	62.9	84.6	96.4	141.6	153.4
97.5°	86.5	112.1	125.9	167.2	179.0
100°	110.1	133.8	177.0	198.7	212.4
102.5°	129.8	147.5	208.5	251.8	259.6
105°	147.5	153.4	220.3	295.0	312.7



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CATALOG NUMBER: 4WSLA-150-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.0	157.4	236.0	320.6	352.1
115°	182.9	155.4	234.1	322.6	354.0
117.5°	182.9	155.4	228.2	322.6	354.0
120°	179.0	157.4	220.3	318.6	352.1
122.5°	175.1	153.4	212.4	310.8	344.2
125°	169.2	149.5	202.6	297.0	334.4
127.5°	159.3	153.4	192.8	279.3	316.7
130°	151.5	155.4	181.0	261.6	299.0
132.5°	145.6	151.5	169.2	241.9	275.4
135°	137.7	149.5	163.3	220.3	253.7
137.5°	131.8	143.6	153.4	200.6	228.2
140°	125.9	139.7	143.6	175.1	198.7
142.5°	118.0	133.8	135.7	163.3	173.1
145°	112.1	129.8	141.6	151.5	161.3
147.5°	106.2	122.0	137.7	139.7	149.5
150°	104.2	114.1	131.8	133.8	137.7
152.5°	102.3	110.1	122.0	133.8	135.7
155°	102.3	108.2	116.0	125.9	127.9
157.5°	100.3	108.2	112.1	120.0	122.0
160°	100.3	106.2	110.1	116.0	118.0
162.5°	100.3	106.2	108.2	114.1	116.0
165°	100.3	104.2	108.2	112.1	112.1
167.5°	100.3	104.2	106.2	110.1	110.1
170°	100.3	102.3	106.2	108.2	108.2
172.5°	98.3	102.3	104.2	108.2	108.2
175°	98.3	100.3	102.3	104.2	106.2
177.5°	94.4	100.3	102.3	104.2	102.3
180°	96.4	96.4	96.4	96.4	96.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	161.3	155.4	228.2	310.8	336.3
110°	171.1	157.4	234.1	316.7	348.1



(END OF REPORT)