

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: P520520

Luminaire Tested: **4WSLA-150-L930-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520520
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-L930-UPL15-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

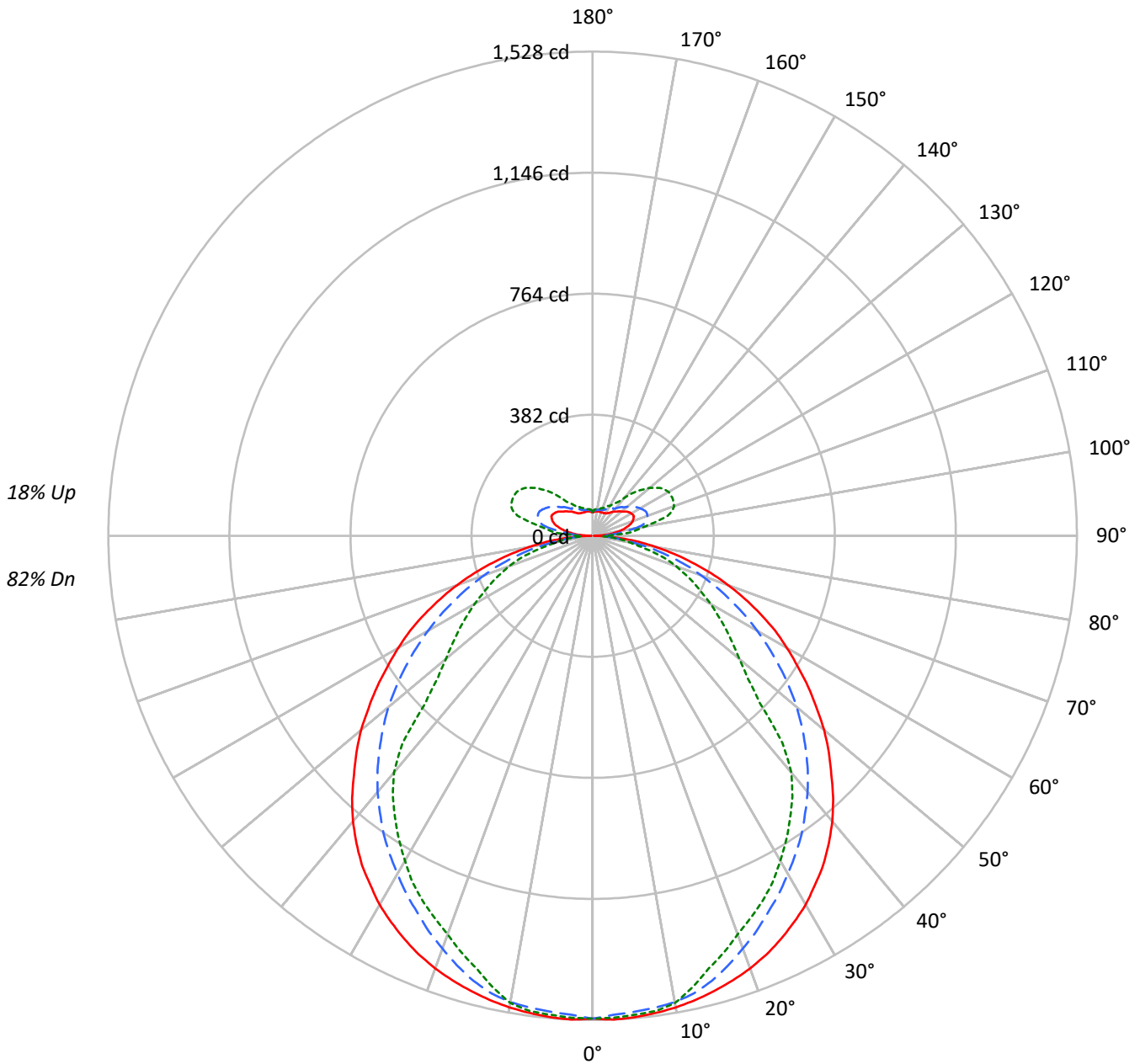
Lumens per Lamp: N/A
Luminaire Lumens: 4935.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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					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°	8201	8201	8201
5°	8240	8149	8199
10°	8260	8167	8184
15°	8284	8103	7879
20°	8320	7939	7665
25°	8342	7782	7543
30°	8355	7654	7357
35°	8336	7554	7138
40°	8263	7416	6851
45°	8104	7234	5681
50°	7984	7039	5060
55°	7787	6758	4814
60°	7619	6454	4624
65°	7440	6101	4488
70°	7150	5715	4401
75°	6748	5238	4049
80°	6180	4407	3592
85°	5533	3816	3625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	2.9
10°-20°	410.2	8.3
20°-30°	612.2	12.4
30°-40°	729.5	14.8
40°-50°	725.6	14.7
50°-60°	621.9	12.6
60°-70°	468.4	9.5
70°-80°	271.2	5.5
80°-90°	81.5	1.7
90°-100°	87.5	1.8
100°-110°	179.7	3.6
110°-120°	190.0	3.9
120°-130°	158.5	3.2
130°-140°	110.7	2.2
140°-150°	68.9	1.4
150°-160°	42.7	0.9
160°-170°	24.1	0.5
170°-180°	7.8	0.2
0°-30°	1166.9	23.6
0°-40°	1896.4	38.4
0°-60°	3243.8	65.7
0°-90°	4064.9	82.4
90°-120°	457.3	9.3
90°-150°	795.5	16.1
90°-180°	870.0	17.6
0°-180°	4935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1525	1521	1508	1519	1518	145
15°	1487	1485	1454	1430	1414	420
25°	1405	1385	1310	1278	1270	648
35°	1269	1235	1150	1105	1086	792
45°	1065	1038	950	856	746	823
55°	830	818	720	572	513	742
65°	584	570	479	372	352	578
75°	324	314	252	201	195	344
85°	90	79	62	59	59	96
90°	5	22	37	46	50	9
95°	50	66	76	111	120	47
105°	116	120	173	232	246	120
115°	144	122	184	254	278	140
125°	133	118	159	233	263	118
135°	108	118	128	173	199	84
145°	88	102	111	119	127	56
155°	80	85	91	99	100	37
165°	79	82	85	88	88	22
175°	77	79	80	82	84	7
180°	76	76	76	76	76	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.8	1523.8	1523.8	1523.8	1523.8
2.5°	1528.4	1525.3	1513.0	1525.3	1522.2
5°	1525.3	1520.7	1508.3	1519.2	1517.6
7.5°	1519.2	1516.1	1502.2	1514.5	1513.0
10°	1511.4	1506.8	1494.4	1503.7	1497.5
12.5°	1500.6	1497.5	1479.0	1471.2	1458.9
15°	1486.7	1485.2	1454.2	1429.5	1414.1
17.5°	1471.2	1465.1	1421.8	1392.4	1378.5
20°	1452.7	1443.4	1386.2	1352.2	1338.3
22.5°	1431.1	1417.2	1350.7	1318.2	1304.3
25°	1404.8	1384.7	1310.5	1278.1	1270.3
27.5°	1375.4	1352.2	1273.4	1241.0	1231.7
30°	1344.5	1315.2	1231.7	1200.8	1183.8
32.5°	1305.9	1278.1	1191.5	1156.0	1137.4
35°	1268.8	1234.8	1149.8	1105.0	1086.4
37.5°	1224.0	1190.0	1101.9	1057.1	1035.4
40°	1176.1	1142.1	1055.5	1003.0	975.2
42.5°	1123.5	1092.6	1004.5	941.2	887.1
45°	1064.8	1038.5	950.4	856.2	746.4
47.5°	1010.7	986.0	896.3	774.3	661.4
50°	953.5	930.3	840.7	697.0	604.3
52.5°	890.2	873.2	780.4	630.5	556.4
55°	829.9	817.5	720.2	571.8	513.1
57.5°	766.5	754.2	659.9	516.2	469.8
60°	707.8	695.4	599.6	466.7	429.6
62.5°	649.1	632.1	540.9	418.8	387.9
65°	584.2	570.3	479.1	372.4	352.4
67.5°	519.3	506.9	421.9	329.2	315.3
70°	454.4	443.5	363.2	287.4	279.7
72.5°	391.0	377.1	310.6	245.7	242.6
75°	324.5	313.7	251.9	200.9	194.7
77.5°	261.2	251.9	197.8	153.0	148.4
80°	199.4	190.1	142.2	111.3	115.9
82.5°	146.8	134.5	95.8	86.5	91.2
85°	89.6	78.8	61.8	58.7	58.7
87.5°	30.9	29.4	27.8	32.5	34.0
90°	4.6	21.6	37.1	46.4	49.5
92.5°	26.3	38.6	51.0	60.3	63.4
95°	49.5	66.5	75.7	111.3	120.5
97.5°	68.0	88.1	98.9	131.4	140.6
100°	86.5	105.1	139.1	156.1	166.9
102.5°	102.0	115.9	163.8	197.8	204.0
105°	115.9	120.5	173.1	231.8	245.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	123.6	185.5	251.9	276.6
115°	143.7	122.1	183.9	253.5	278.2
117.5°	143.7	122.1	179.3	253.5	278.2
120°	140.6	123.6	173.1	250.4	276.6
122.5°	137.5	120.5	166.9	244.2	270.4
125°	132.9	117.5	159.2	233.4	262.7
127.5°	125.2	120.5	151.5	219.5	248.8
130°	119.0	122.1	142.2	205.5	234.9
132.5°	114.4	119.0	132.9	190.1	216.4
135°	108.2	117.5	128.3	173.1	199.4
137.5°	103.5	112.8	120.5	157.6	179.3
140°	98.9	109.7	112.8	137.5	156.1
142.5°	92.7	105.1	106.6	128.3	136.0
145°	88.1	102.0	111.3	119.0	126.7
147.5°	83.5	95.8	108.2	109.7	117.5
150°	81.9	89.6	103.5	105.1	108.2
152.5°	80.4	86.5	95.8	105.1	106.6
155°	80.4	85.0	91.2	98.9	100.5
157.5°	78.8	85.0	88.1	94.3	95.8
160°	78.8	83.5	86.5	91.2	92.7
162.5°	78.8	83.5	85.0	89.6	91.2
165°	78.8	81.9	85.0	88.1	88.1
167.5°	78.8	81.9	83.5	86.5	86.5
170°	78.8	80.4	83.5	85.0	85.0
172.5°	77.3	80.4	81.9	85.0	85.0
175°	77.3	78.8	80.4	81.9	83.5
177.5°	74.2	78.8	80.4	81.9	80.4
180°	75.7	75.7	75.7	75.7	75.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	126.7	122.1	179.3	244.2	264.3
110°	134.5	123.6	183.9	248.8	273.5



(END OF REPORT)