

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: P520529

Luminaire Tested: **4WSLA-150-L950-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520529
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-L950-UPL15-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

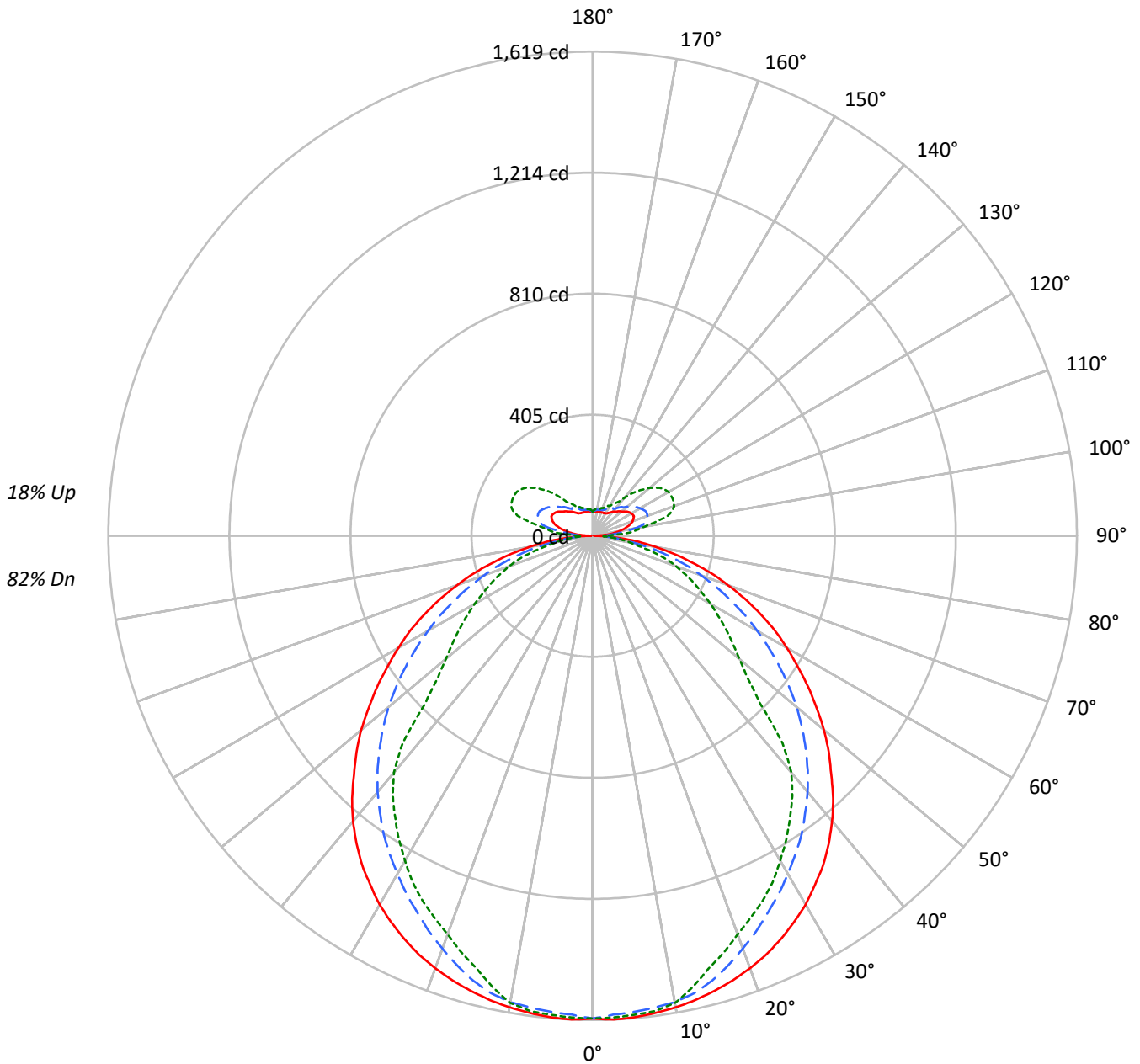
Lumens per Lamp: N/A
Luminaire Lumens: 5228.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

TEST NUMBER: P520529

CATALOG NUMBER: 4WSLA-150-L950-UPL15-UNV-U

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°	8688	8688	8688
5°	8730	8633	8686
10°	8751	8652	8670
15°	8776	8584	8347
20°	8814	8411	8120
25°	8837	8244	7992
30°	8851	8109	7794
35°	8831	8003	7562
40°	8753	7856	7258
45°	8585	7664	6019
50°	8457	7457	5359
55°	8250	7158	5100
60°	8071	6837	4899
65°	7882	6463	4754
70°	7574	6054	4663
75°	7149	5550	4290
80°	6546	4668	3806
85°	5866	4045	3841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	2.9
10°-20°	434.6	8.3
20°-30°	648.6	12.4
30°-40°	772.8	14.8
40°-50°	768.7	14.7
50°-60°	658.8	12.6
60°-70°	496.2	9.5
70°-80°	287.4	5.5
80°-90°	86.4	1.7
90°-100°	92.7	1.8
100°-110°	190.4	3.6
110°-120°	201.3	3.9
120°-130°	167.9	3.2
130°-140°	117.3	2.2
140°-150°	73.0	1.4
150°-160°	45.3	0.9
160°-170°	25.5	0.5
170°-180°	8.2	0.2
0°-30°	1236.2	23.6
0°-40°	2009.0	38.4
0°-60°	3436.4	65.7
0°-90°	4306.3	82.4
90°-120°	484.4	9.3
90°-150°	842.7	16.1
90°-180°	922.0	17.6
0°-180°	5228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1616	1611	1598	1609	1608	154
15°	1575	1573	1541	1514	1498	445
25°	1488	1467	1388	1354	1346	686
35°	1344	1308	1218	1171	1151	840
45°	1128	1100	1007	907	791	872
55°	879	866	763	606	544	786
65°	619	604	508	395	373	612
75°	344	332	267	213	206	364
85°	95	84	66	62	62	101
90°	5	23	39	49	52	10
95°	52	70	80	118	128	50
105°	123	128	183	246	260	127
115°	152	129	195	268	295	148
125°	141	124	169	247	278	125
135°	115	124	136	183	211	89
145°	93	108	118	126	134	59
155°	85	90	97	105	106	39
165°	84	87	90	93	93	24
175°	82	84	85	87	88	8
180°	80	80	80	80	80	



TEST NUMBER: P520529

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1614.3	1614.3	1614.3	1614.3	1614.3
2.5°	1619.2	1615.9	1602.8	1615.9	1612.6
5°	1615.9	1611.0	1597.9	1609.3	1607.7
7.5°	1609.3	1606.1	1591.3	1604.4	1602.8
10°	1601.2	1596.3	1583.2	1593.0	1586.4
12.5°	1589.7	1586.4	1566.8	1558.6	1545.5
15°	1575.0	1573.3	1540.6	1514.4	1498.0
17.5°	1558.6	1552.0	1506.2	1475.1	1460.4
20°	1539.0	1529.1	1468.6	1432.5	1417.8
22.5°	1516.0	1501.3	1430.9	1396.5	1381.8
25°	1488.2	1466.9	1388.3	1353.9	1345.8
27.5°	1457.1	1432.5	1349.0	1314.7	1304.8
30°	1424.3	1393.2	1304.8	1272.1	1254.1
32.5°	1383.4	1353.9	1262.3	1224.6	1205.0
35°	1344.1	1308.1	1218.1	1170.6	1150.9
37.5°	1296.6	1260.6	1167.3	1119.8	1096.9
40°	1245.9	1209.9	1118.2	1062.5	1033.1
42.5°	1190.2	1157.5	1064.2	997.0	939.7
45°	1128.0	1100.2	1006.9	907.0	790.8
47.5°	1070.7	1044.5	949.6	820.2	700.7
50°	1010.1	985.6	890.6	738.4	640.1
52.5°	943.0	925.0	826.8	668.0	589.4
55°	879.2	866.1	762.9	605.8	543.5
57.5°	812.0	798.9	699.1	546.8	497.7
60°	749.8	736.7	635.2	494.4	455.1
62.5°	687.6	669.6	573.0	443.7	410.9
65°	618.9	604.1	507.5	394.6	373.3
67.5°	550.1	537.0	447.0	348.7	334.0
70°	481.3	469.9	384.7	304.5	296.3
72.5°	414.2	399.5	329.1	260.3	257.0
75°	343.8	332.3	266.9	212.8	206.3
77.5°	276.7	266.9	209.6	162.1	157.2
80°	211.2	201.4	150.6	117.9	122.8
82.5°	155.5	142.4	101.5	91.7	96.6
85°	95.0	83.5	65.5	62.2	62.2
87.5°	32.7	31.1	29.5	34.4	36.0
90°	4.9	22.9	39.3	49.1	52.4
92.5°	27.8	40.9	54.0	63.9	67.1
95°	52.4	70.4	80.2	117.9	127.7
97.5°	72.0	93.3	104.8	139.2	149.0
100°	91.7	111.3	147.3	165.4	176.8
102.5°	108.1	122.8	173.5	209.6	216.1
105°	122.8	127.7	183.4	245.6	260.3



TEST NUMBER: P520529

CATALOG NUMBER: 4WSLA-150-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.3	131.0	196.5	266.9	293.1
115°	152.3	129.3	194.8	268.5	294.7
117.5°	152.3	129.3	189.9	268.5	294.7
120°	149.0	131.0	183.4	265.2	293.1
122.5°	145.7	127.7	176.8	258.7	286.5
125°	140.8	124.4	168.6	247.2	278.3
127.5°	132.6	127.7	160.4	232.5	263.6
130°	126.1	129.3	150.6	217.7	248.9
132.5°	121.2	126.1	140.8	201.4	229.2
135°	114.6	124.4	135.9	183.4	211.2
137.5°	109.7	119.5	127.7	167.0	189.9
140°	104.8	116.2	119.5	145.7	165.4
142.5°	98.2	111.3	113.0	135.9	144.1
145°	93.3	108.1	117.9	126.1	134.2
147.5°	88.4	101.5	114.6	116.2	124.4
150°	86.8	95.0	109.7	111.3	114.6
152.5°	85.1	91.7	101.5	111.3	113.0
155°	85.1	90.0	96.6	104.8	106.4
157.5°	83.5	90.0	93.3	99.9	101.5
160°	83.5	88.4	91.7	96.6	98.2
162.5°	83.5	88.4	90.0	95.0	96.6
165°	83.5	86.8	90.0	93.3	93.3
167.5°	83.5	86.8	88.4	91.7	91.7
170°	83.5	85.1	88.4	90.0	90.0
172.5°	81.9	85.1	86.8	90.0	90.0
175°	81.9	83.5	85.1	86.8	88.4
177.5°	78.6	83.5	85.1	86.8	85.1
180°	80.2	80.2	80.2	80.2	80.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	134.2	129.3	189.9	258.7	280.0
110°	142.4	131.0	194.8	263.6	289.8



(END OF REPORT)