

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: P520530

Luminaire Tested: **4WSLA-150-L950-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-150-L950-UPL8-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

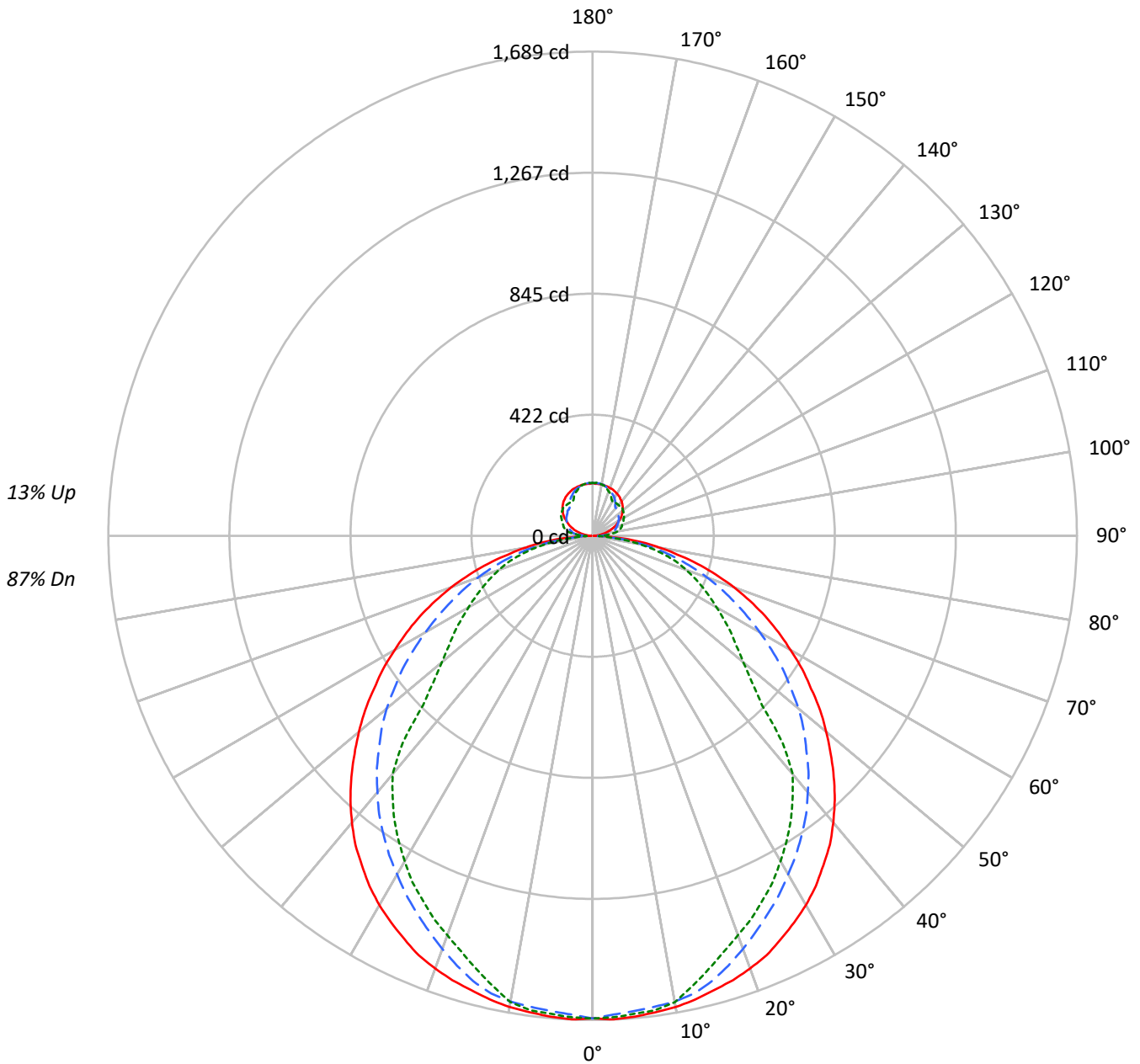
Lumens per Lamp: N/A
Luminaire Lumens: 5240.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9062	9062	9062
5°	9096	8992	9044
10°	9122	9016	9029
15°	9138	8963	8720
20°	9199	8783	8492
25°	9222	8618	8330
30°	9244	8476	8145
35°	9216	8357	7927
40°	9174	8204	7625
45°	9054	8021	6361
50°	8905	7850	5740
55°	8729	7593	5524
60°	8579	7249	5372
65°	8453	6942	5368
70°	8235	6672	5451
75°	7858	6348	5492
80°	7358	5706	5105
85°	6731	4039	3440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	3.0
10°-20°	453.2	8.6
20°-30°	677.1	12.9
30°-40°	808.3	15.4
40°-50°	808.4	15.4
50°-60°	699.6	13.4
60°-70°	537.0	10.2
70°-80°	329.0	6.3
80°-90°	92.6	1.8
90°-100°	52.3	1.0
100°-110°	83.1	1.6
110°-120°	97.2	1.9
120°-130°	104.9	2.0
130°-140°	103.4	2.0
140°-150°	91.4	1.7
150°-160°	75.2	1.4
160°-170°	50.4	1.0
170°-180°	17.5	0.3
0°-30°	1289.7	24.6
0°-40°	2098.0	40.0
0°-60°	3605.9	68.8
0°-90°	4564.6	87.1
90°-120°	232.6	4.4
90°-150°	532.3	10.2
90°-180°	675.0	12.9
0°-180°	5240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1684	1679	1664	1676	1674	160
15°	1640	1638	1609	1580	1565	464
25°	1553	1534	1451	1412	1403	716
35°	1403	1366	1272	1226	1206	878
45°	1190	1156	1054	959	836	917
55°	930	908	809	647	589	834
65°	664	640	545	438	422	656
75°	378	359	305	264	264	399
85°	109	90	65	56	56	114
90°	5	17	27	34	36	8
95°	19	41	56	58	58	19
105°	56	58	82	97	102	58
115°	92	78	97	111	119	90
125°	124	99	111	128	133	110
135°	148	133	124	136	143	114
145°	165	158	138	136	140	103
155°	174	172	162	155	153	80
165°	179	182	177	177	177	51
175°	182	184	184	186	186	17
180°	184	184	184	184	184	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.7	1683.7	1683.7	1683.7	1683.7
2.5°	1688.6	1683.7	1671.6	1683.7	1681.3
5°	1683.7	1678.9	1664.4	1676.5	1674.0
7.5°	1676.5	1671.6	1657.1	1671.6	1669.2
10°	1669.2	1664.4	1649.8	1659.5	1652.2
12.5°	1657.1	1652.2	1635.3	1623.2	1608.6
15°	1640.1	1637.7	1608.6	1579.6	1565.0
17.5°	1625.6	1618.3	1572.3	1538.4	1521.4
20°	1606.2	1594.1	1533.5	1494.8	1482.7
22.5°	1584.4	1565.0	1492.3	1456.0	1446.3
25°	1552.9	1533.5	1451.2	1412.4	1402.7
27.5°	1521.4	1497.2	1410.0	1371.2	1361.5
30°	1487.5	1453.6	1363.9	1327.6	1310.6
32.5°	1448.7	1414.8	1320.3	1279.2	1259.8
35°	1402.7	1366.4	1271.9	1225.9	1206.5
37.5°	1359.1	1320.3	1223.4	1172.6	1145.9
40°	1305.8	1267.0	1167.7	1112.0	1085.3
42.5°	1250.1	1213.7	1114.4	1046.6	981.2
45°	1189.5	1155.6	1053.8	959.4	835.8
47.5°	1126.5	1097.5	998.1	869.7	751.0
50°	1063.5	1034.5	937.6	784.9	685.6
52.5°	1000.6	976.3	869.7	714.7	632.3
55°	930.3	908.5	809.2	646.8	588.7
57.5°	867.3	845.5	738.9	591.1	542.7
60°	797.0	777.7	673.5	535.4	499.1
62.5°	731.6	709.8	608.1	487.0	460.3
65°	663.8	639.6	545.1	438.5	421.5
67.5°	593.5	569.3	484.5	394.9	385.2
70°	523.3	503.9	424.0	351.3	346.4
72.5°	450.6	428.8	363.4	310.1	310.1
75°	377.9	358.6	305.3	264.1	264.1
77.5°	302.8	293.1	244.7	215.6	218.0
80°	237.4	225.3	184.1	164.7	164.7
82.5°	174.4	159.9	123.6	109.0	113.9
85°	109.0	89.6	65.4	55.7	55.7
87.5°	33.9	26.6	19.4	21.8	21.8
90°	4.8	17.0	26.6	33.9	36.3
92.5°	12.1	31.5	38.8	46.0	48.5
95°	19.4	41.2	55.7	58.1	58.1
97.5°	26.6	46.0	67.8	77.5	77.5
100°	36.3	48.5	72.7	87.2	89.6
102.5°	46.0	53.3	77.5	92.1	96.9
105°	55.7	58.1	82.4	96.9	101.8



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CATALOG NUMBER: 4WSLA-150-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	82.4	72.7	92.1	109.0	113.9
115°	92.1	77.5	96.9	111.4	118.7
117.5°	99.3	84.8	101.8	116.3	121.1
120°	106.6	89.6	104.2	121.1	126.0
122.5°	116.3	94.5	109.0	123.6	130.8
125°	123.6	99.3	111.4	128.4	133.2
127.5°	130.8	109.0	113.9	130.8	135.7
130°	135.7	118.7	116.3	133.2	138.1
132.5°	142.9	126.0	118.7	135.7	140.5
135°	147.8	133.2	123.6	135.7	142.9
137.5°	152.6	140.5	123.6	135.7	140.5
140°	157.5	147.8	126.0	135.7	140.5
142.5°	159.9	152.6	128.4	135.7	140.5
145°	164.7	157.5	138.1	135.7	140.5
147.5°	167.2	162.3	145.4	135.7	140.5
150°	169.6	167.2	152.6	138.1	138.1
152.5°	172.0	169.6	157.5	147.8	142.9
155°	174.4	172.0	162.3	155.0	152.6
157.5°	176.9	176.9	167.2	162.3	159.9
160°	176.9	179.3	172.0	167.2	164.7
162.5°	179.3	181.7	174.4	172.0	169.6
165°	179.3	181.7	176.9	176.9	176.9
167.5°	181.7	184.1	181.7	179.3	179.3
170°	181.7	184.1	181.7	181.7	181.7
172.5°	181.7	184.1	184.1	184.1	184.1
175°	181.7	184.1	184.1	186.5	186.5
177.5°	181.7	184.1	184.1	184.1	184.1
180°	184.1	184.1	184.1	184.1	184.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	65.4	63.0	84.8	101.8	106.6
110°	72.7	67.8	89.6	104.2	109.0



(END OF REPORT)