

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: P520550

Luminaire Tested: **4WSLA-175-L940-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520550
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-175-L940-UPL15-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

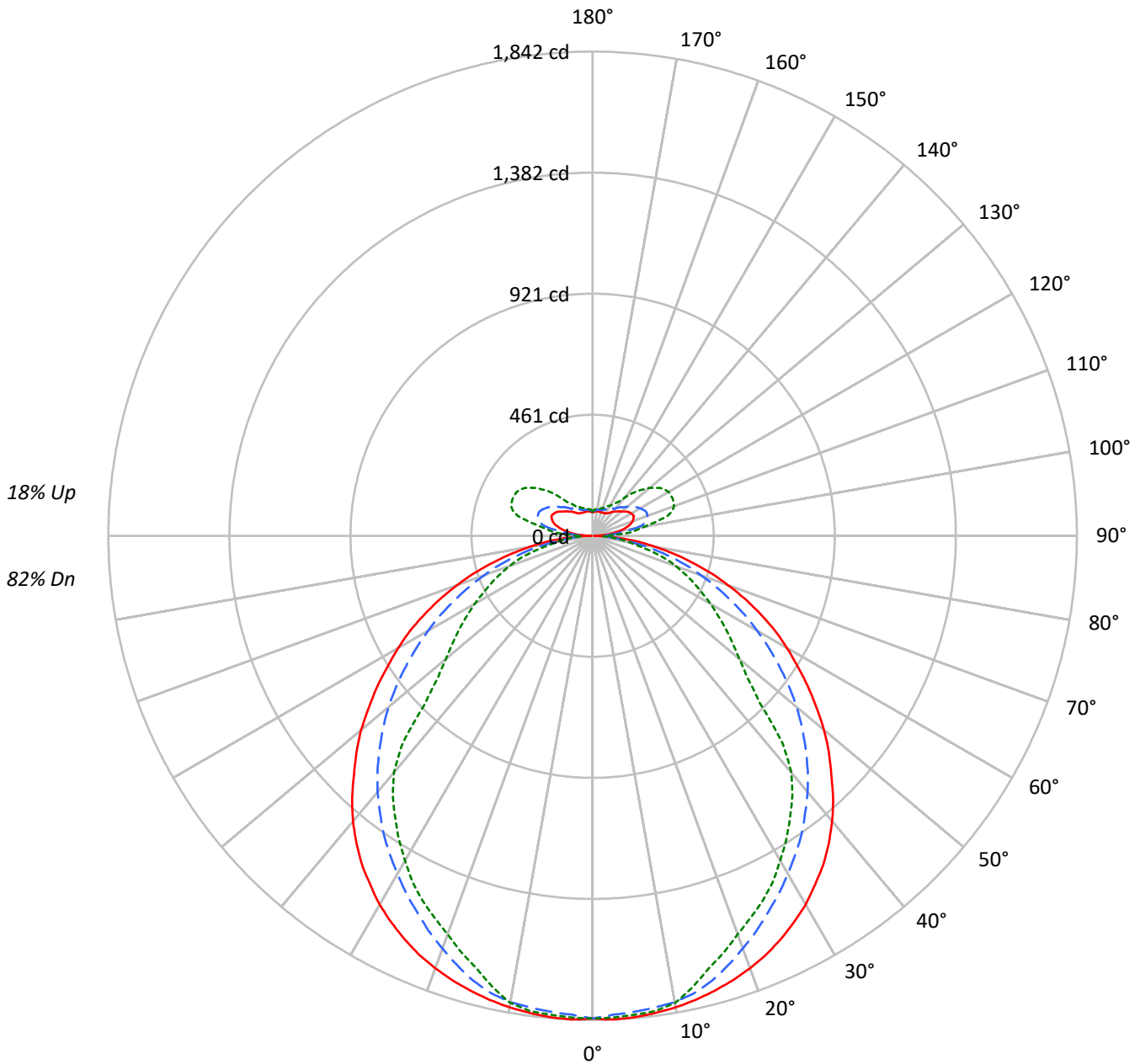
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5948.0 lumens
Efficiency: N/A
Efficacy: 100.0 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): 59.5
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: P520550
CATALOG NUMBER: 4WSLA-175-L940-UPL15-UNV-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9885	9885	9885
5°	9932	9822	9882
10°	9956	9844	9864
15°	9984	9766	9496
20°	10028	9569	9239
25°	10055	9380	9092
30°	10071	9225	8867
35°	10047	9105	8603
40°	9959	8938	8257
45°	9768	8719	6848
50°	9623	8484	6098
55°	9385	8145	5803
60°	9183	7779	5574
65°	8967	7353	5408
70°	8617	6888	5305
75°	8135	6313	4880
80°	7448	5312	4330
85°	6669	4600	4372



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CATALOG NUMBER: 4WSLA-175-L940-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	2.9
10°-20°	494.4	8.3
20°-30°	737.9	12.4
30°-40°	879.2	14.8
40°-50°	874.5	14.7
50°-60°	749.5	12.6
60°-70°	564.5	9.5
70°-80°	326.9	5.5
80°-90°	98.3	1.7
90°-100°	105.5	1.8
100°-110°	216.6	3.6
110°-120°	229.0	3.9
120°-130°	191.1	3.2
130°-140°	133.5	2.2
140°-150°	83.1	1.4
150°-160°	51.5	0.9
160°-170°	29.0	0.5
170°-180°	9.4	0.2
0°-30°	1406.4	23.6
0°-40°	2285.6	38.4
0°-60°	3909.7	65.7
0°-90°	4899.4	82.4
90°-120°	551.1	9.3
90°-150°	958.8	16.1
90°-180°	1049.0	17.6
0°-180°	5948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1837	1837	1837	1837	1837	
5°	1838	1833	1818	1831	1829	175
15°	1792	1790	1753	1723	1704	506
25°	1693	1669	1580	1540	1531	781
35°	1529	1488	1386	1332	1309	955
45°	1283	1252	1146	1032	900	992
55°	1000	985	868	689	618	894
65°	704	687	577	449	425	696
75°	391	378	304	242	235	414
85°	108	95	74	71	71	115
90°	6	26	45	56	60	11
95°	60	80	91	134	145	57
105°	140	145	209	279	296	145
115°	173	147	222	306	335	169
125°	160	142	192	281	317	142
135°	130	142	155	209	240	102
145°	106	123	134	143	153	67
155°	97	102	110	119	121	45
165°	95	99	102	106	106	27
175°	93	95	97	99	101	9
180°	91	91	91	91	91	



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CATALOG NUMBER: 4WSLA-175-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1836.6	1836.6	1836.6	1836.6	1836.6
2.5°	1842.2	1838.4	1823.5	1838.4	1834.7
5°	1838.4	1832.9	1818.0	1831.0	1829.1
7.5°	1831.0	1827.3	1810.5	1825.4	1823.5
10°	1821.7	1816.1	1801.2	1812.4	1804.9
12.5°	1808.6	1804.9	1782.6	1773.2	1758.3
15°	1791.9	1790.0	1752.8	1723.0	1704.3
17.5°	1773.2	1765.8	1713.6	1678.3	1661.5
20°	1750.9	1739.7	1670.8	1629.8	1613.1
22.5°	1724.8	1708.1	1628.0	1588.8	1572.1
25°	1693.2	1668.9	1579.5	1540.4	1531.1
27.5°	1657.8	1629.8	1534.8	1495.7	1484.5
30°	1620.5	1585.1	1484.5	1447.3	1426.8
32.5°	1573.9	1540.4	1436.1	1393.3	1370.9
35°	1529.2	1488.3	1385.8	1331.8	1309.4
37.5°	1475.2	1434.2	1328.1	1274.1	1248.0
40°	1417.5	1376.5	1272.2	1208.9	1175.3
42.5°	1354.1	1316.9	1210.7	1134.4	1069.2
45°	1283.4	1251.7	1145.5	1031.9	899.7
47.5°	1218.2	1188.4	1080.3	933.2	797.2
50°	1149.3	1121.3	1013.3	840.1	728.3
52.5°	1072.9	1052.4	940.6	760.0	670.6
55°	1000.2	985.3	868.0	689.2	618.4
57.5°	923.9	909.0	795.4	622.1	566.2
60°	853.1	838.2	722.7	562.5	517.8
62.5°	782.3	761.8	651.9	504.8	467.5
65°	704.1	687.3	577.4	448.9	424.7
67.5°	625.9	611.0	508.5	396.7	380.0
70°	547.6	534.6	437.7	346.5	337.1
72.5°	471.3	454.5	374.4	296.2	292.4
75°	391.2	378.1	303.6	242.1	234.7
77.5°	314.8	303.6	238.4	184.4	178.8
80°	240.3	229.1	171.4	134.1	139.7
82.5°	177.0	162.1	115.5	104.3	109.9
85°	108.0	95.0	74.5	70.8	70.8
87.5°	37.3	35.4	33.5	39.1	41.0
90°	5.6	26.1	44.7	55.9	59.6
92.5°	31.7	46.6	61.5	72.6	76.4
95°	59.6	80.1	91.3	134.1	145.3
97.5°	82.0	106.2	119.2	158.3	169.5
100°	104.3	126.7	167.6	188.1	201.2
102.5°	122.9	139.7	197.4	238.4	245.9
105°	139.7	145.3	208.6	279.4	296.2



TEST NUMBER: P520550

CATALOG NUMBER: 4WSLA-175-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.6	149.0	223.5	303.6	333.4
115°	173.2	147.1	221.7	305.5	335.3
117.5°	173.2	147.1	216.1	305.5	335.3
120°	169.5	149.0	208.6	301.8	333.4
122.5°	165.8	145.3	201.2	294.3	326.0
125°	160.2	141.6	191.9	281.3	316.7
127.5°	150.9	145.3	182.5	264.5	299.9
130°	143.4	147.1	171.4	247.7	283.1
132.5°	137.8	143.4	160.2	229.1	260.8
135°	130.4	141.6	154.6	208.6	240.3
137.5°	124.8	136.0	145.3	190.0	216.1
140°	119.2	132.2	136.0	165.8	188.1
142.5°	111.8	126.7	128.5	154.6	163.9
145°	106.2	122.9	134.1	143.4	152.7
147.5°	100.6	115.5	130.4	132.2	141.6
150°	98.7	108.0	124.8	126.7	130.4
152.5°	96.9	104.3	115.5	126.7	128.5
155°	96.9	102.4	109.9	119.2	121.1
157.5°	95.0	102.4	106.2	113.6	115.5
160°	95.0	100.6	104.3	109.9	111.8
162.5°	95.0	100.6	102.4	108.0	109.9
165°	95.0	98.7	102.4	106.2	106.2
167.5°	95.0	98.7	100.6	104.3	104.3
170°	95.0	96.9	100.6	102.4	102.4
172.5°	93.1	96.9	98.7	102.4	102.4
175°	93.1	95.0	96.9	98.7	100.6
177.5°	89.4	95.0	96.9	98.7	96.9
180°	91.3	91.3	91.3	91.3	91.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	152.7	147.1	216.1	294.3	318.5
110°	162.1	149.0	221.7	299.9	329.7



(END OF REPORT)