

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: P520548

Luminaire Tested: **4WSLA-175-L935-UPL8-UNV-U**

Issue Date: 5/3/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P520548  
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-175-L935-UPL8-UNV-U  
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

**Summary**

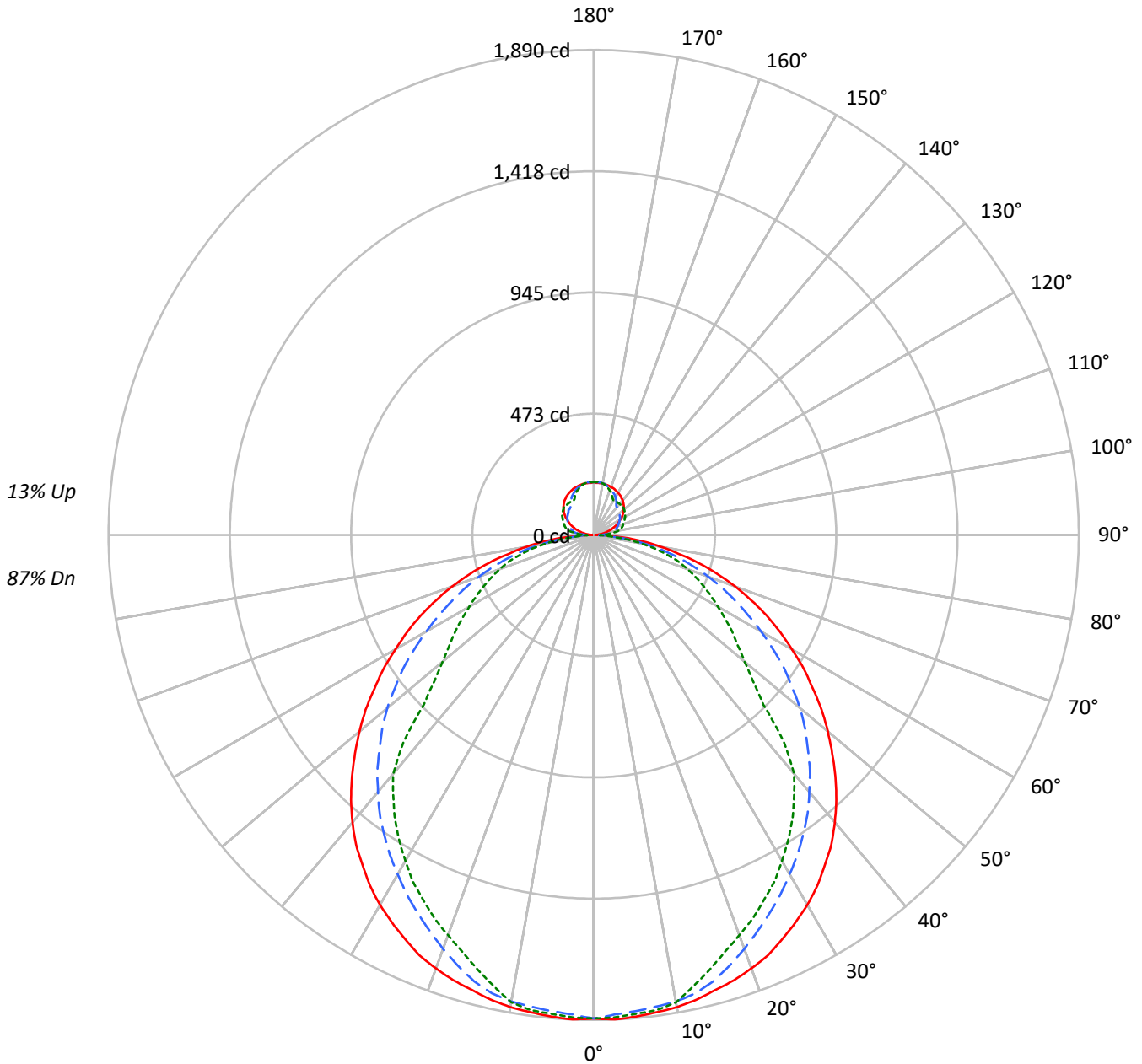
Lumens per Lamp: N/A  
Luminaire Lumens: 5865.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P520548

CATALOG NUMBER: 4WSLA-175-L935-UPL8-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	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°	10143	10143	10143
5°	10182	10064	10123
10°	10210	10092	10106
15°	10229	10032	9760
20°	10297	9830	9505
25°	10321	9645	9323
30°	10347	9487	9117
35°	10315	9353	8872
40°	10269	9183	8535
45°	10134	8977	7120
50°	9967	8786	6425
55°	9771	8498	6183
60°	9602	8114	6013
65°	9462	7769	6008
70°	9216	7467	6102
75°	8796	7105	6147
80°	8235	6388	5715
85°	7534	4520	3853



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.4	3.0
10°-20°	507.2	8.6
20°-30°	757.9	12.9
30°-40°	904.7	15.4
40°-50°	904.8	15.4
50°-60°	783.0	13.4
60°-70°	601.0	10.2
70°-80°	368.3	6.3
80°-90°	103.7	1.8
90°-100°	58.6	1.0
100°-110°	93.0	1.6
110°-120°	108.7	1.9
120°-130°	117.4	2.0
130°-140°	115.7	2.0
140°-150°	102.3	1.7
150°-160°	84.2	1.4
160°-170°	56.4	1.0
170°-180°	19.6	0.3
0°-30°	1443.5	24.6
0°-40°	2348.2	40.0
0°-60°	4036.1	68.8
0°-90°	5109.1	87.1
90°-120°	260.3	4.4
90°-150°	595.7	10.2
90°-180°	756.0	12.9
0°-180°	5865.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1885	1879	1863	1876	1874	179
15°	1836	1833	1800	1768	1752	519
25°	1738	1716	1624	1581	1570	802
35°	1570	1529	1424	1372	1350	983
45°	1331	1293	1180	1074	936	1027
55°	1041	1017	906	724	659	933
65°	743	716	610	491	472	734
75°	423	401	342	296	296	446
85°	122	100	73	62	62	128
90°	5	19	30	38	41	9
95°	22	46	62	65	65	21
105°	62	65	92	108	114	65
115°	103	87	108	125	133	101
125°	138	111	125	144	149	123
135°	165	149	138	152	160	128
145°	184	176	155	152	157	115
155°	195	192	182	174	171	90
165°	201	203	198	198	198	57
175°	203	206	206	209	209	19
180°	206	206	206	206	206	



TEST NUMBER: P520548

CATALOG NUMBER: 4WSLA-175-L935-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1884.6	1884.6	1884.6	1884.6	1884.6
2.5°	1890.0	1884.6	1871.0	1884.6	1881.9
5°	1884.6	1879.1	1862.9	1876.4	1873.7
7.5°	1876.4	1871.0	1854.7	1871.0	1868.3
10°	1868.3	1862.9	1846.6	1857.4	1849.3
12.5°	1854.7	1849.3	1830.3	1816.8	1800.5
15°	1835.8	1833.0	1800.5	1768.0	1751.7
17.5°	1819.5	1811.3	1759.8	1721.9	1702.9
20°	1797.8	1784.2	1716.4	1673.1	1659.5
22.5°	1773.4	1751.7	1670.3	1629.7	1618.8
25°	1738.1	1716.4	1624.2	1580.9	1570.0
27.5°	1702.9	1675.8	1578.2	1534.8	1523.9
30°	1664.9	1627.0	1526.6	1486.0	1467.0
32.5°	1621.5	1583.6	1477.8	1431.7	1410.0
35°	1570.0	1529.3	1423.6	1372.1	1350.4
37.5°	1521.2	1477.8	1369.4	1312.4	1282.6
40°	1461.6	1418.2	1307.0	1244.6	1214.8
42.5°	1399.2	1358.5	1247.3	1171.4	1098.2
45°	1331.4	1293.4	1179.5	1073.8	935.5
47.5°	1260.9	1228.4	1117.2	973.5	840.6
50°	1190.4	1157.9	1049.4	878.6	767.4
52.5°	1119.9	1092.8	973.5	799.9	707.7
55°	1041.3	1016.9	905.7	724.0	658.9
57.5°	970.8	946.3	827.0	661.6	607.4
60°	892.1	870.4	753.8	599.3	558.6
62.5°	818.9	794.5	680.6	545.0	515.2
65°	743.0	715.9	610.1	490.8	471.8
67.5°	664.3	637.2	542.3	442.0	431.1
70°	585.7	564.0	474.5	393.2	387.8
72.5°	504.4	480.0	406.7	347.1	347.1
75°	423.0	401.3	341.7	295.6	295.6
77.5°	339.0	328.1	273.9	241.3	244.0
80°	265.7	252.2	206.1	184.4	184.4
82.5°	195.2	179.0	138.3	122.0	127.4
85°	122.0	100.3	73.2	62.4	62.4
87.5°	38.0	29.8	21.7	24.4	24.4
90°	5.4	19.0	29.8	38.0	40.7
92.5°	13.6	35.3	43.4	51.5	54.2
95°	21.7	46.1	62.4	65.1	65.1
97.5°	29.8	51.5	75.9	86.8	86.8
100°	40.7	54.2	81.3	97.6	100.3
102.5°	51.5	59.7	86.8	103.0	108.5
105°	62.4	65.1	92.2	108.5	113.9



TEST NUMBER: P520548

CATALOG NUMBER: 4WSLA-175-L935-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.2	81.3	103.0	122.0	127.4
115°	103.0	86.8	108.5	124.7	132.9
117.5°	111.2	94.9	113.9	130.2	135.6
120°	119.3	100.3	116.6	135.6	141.0
122.5°	130.2	105.8	122.0	138.3	146.4
125°	138.3	111.2	124.7	143.7	149.1
127.5°	146.4	122.0	127.4	146.4	151.8
130°	151.8	132.9	130.2	149.1	154.6
132.5°	160.0	141.0	132.9	151.8	157.3
135°	165.4	149.1	138.3	151.8	160.0
137.5°	170.8	157.3	138.3	151.8	157.3
140°	176.3	165.4	141.0	151.8	157.3
142.5°	179.0	170.8	143.7	151.8	157.3
145°	184.4	176.3	154.6	151.8	157.3
147.5°	187.1	181.7	162.7	151.8	157.3
150°	189.8	187.1	170.8	154.6	154.6
152.5°	192.5	189.8	176.3	165.4	160.0
155°	195.2	192.5	181.7	173.5	170.8
157.5°	197.9	197.9	187.1	181.7	179.0
160°	197.9	200.7	192.5	187.1	184.4
162.5°	200.7	203.4	195.2	192.5	189.8
165°	200.7	203.4	197.9	197.9	197.9
167.5°	203.4	206.1	203.4	200.7	200.7
170°	203.4	206.1	203.4	203.4	203.4
172.5°	203.4	206.1	206.1	206.1	206.1
175°	203.4	206.1	206.1	208.8	208.8
177.5°	203.4	206.1	206.1	206.1	206.1
180°	206.1	206.1	206.1	206.1	206.1



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	73.2	70.5	94.9	113.9	119.3
110°	81.3	75.9	100.3	116.6	122.0



(END OF REPORT)