

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: P520533

Luminaire Tested: **4WSLA-175-L830-UPL8-UNV-U**

Issue Date: 5/3/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P520533  
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-L830-UPL8-UNV-U  
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

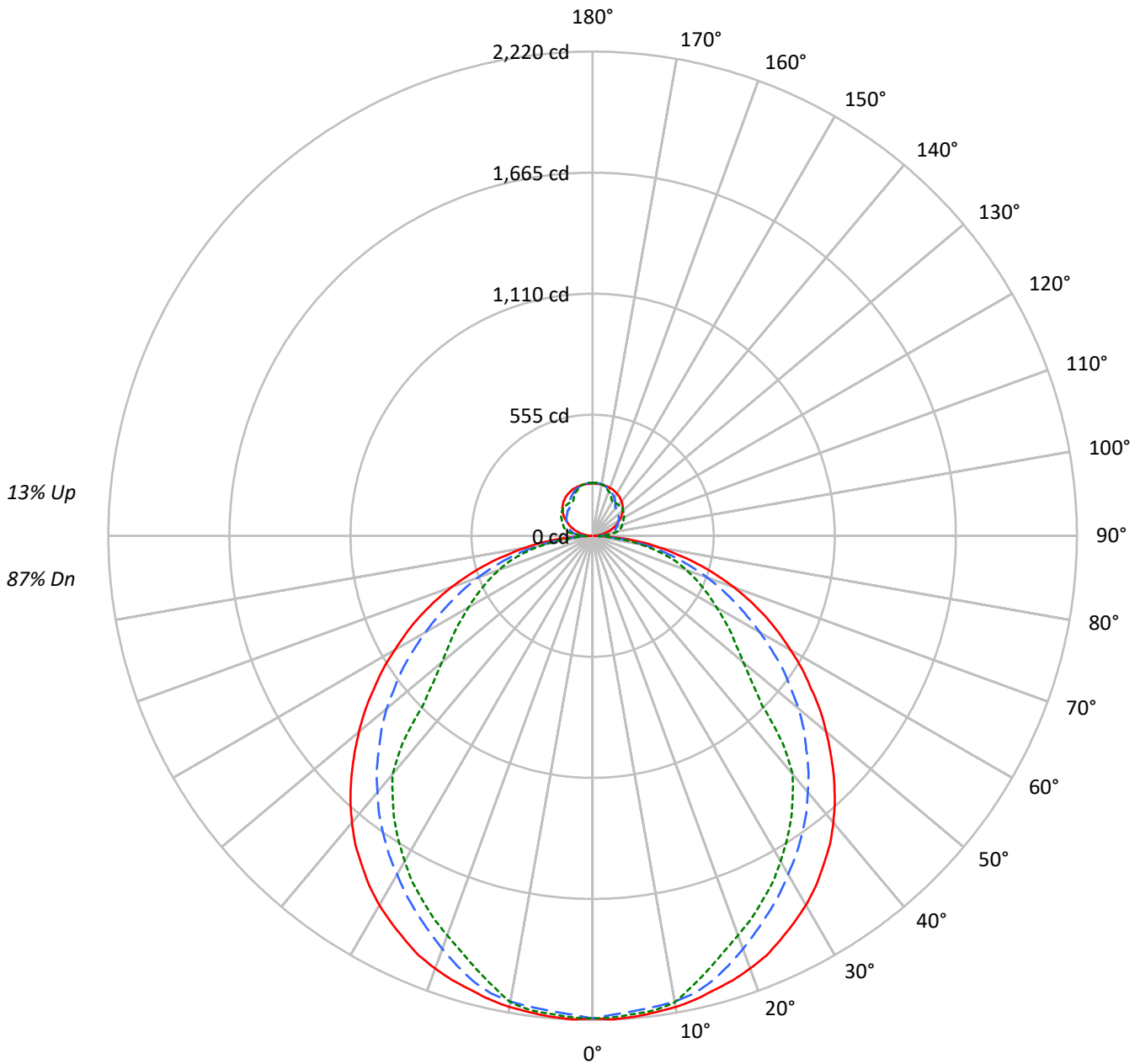
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6888.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 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: P520533

CATALOG NUMBER: 4WSLA-175-L830-UPL8-UNV-U

### Luminous Intensity Polar Plot





TEST NUMBER: P520533

CATALOG NUMBER: 4WSLA-175-L830-UPL8-UNV-U

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11912	11912	11912
5°	11957	11820	11888
10°	11991	11852	11869
15°	12013	11782	11462
20°	12093	11545	11163
25°	12122	11328	10950
30°	12151	11142	10707
35°	12115	10985	10420
40°	12060	10784	10023
45°	11901	10544	8362
50°	11705	10319	7546
55°	11475	9980	7262
60°	11277	9529	7061
65°	11112	9124	7056
70°	10825	8770	7166
75°	10331	8345	7218
80°	9673	7500	6713
85°	8849	5311	4520



TEST NUMBER: P520533

CATALOG NUMBER: 4WSLA-175-L830-UPL8-UNV-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.5	3.0
10°-20°	595.7	8.6
20°-30°	890.1	12.9
30°-40°	1062.5	15.4
40°-50°	1062.6	15.4
50°-60°	919.6	13.4
60°-70°	705.9	10.2
70°-80°	432.5	6.3
80°-90°	121.8	1.8
90°-100°	68.8	1.0
100°-110°	109.2	1.6
110°-120°	127.7	1.9
120°-130°	137.9	2.0
130°-140°	135.8	2.0
140°-150°	120.2	1.7
150°-160°	98.9	1.4
160°-170°	66.2	1.0
170°-180°	23.1	0.3
0°-30°	1695.3	24.6
0°-40°	2757.8	40.0
0°-60°	4740.0	68.8
0°-90°	6000.2	87.1
90°-120°	305.8	4.4
90°-150°	699.7	10.2
90°-180°	888.0	12.9
0°-180°	6888.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2213	2213	2213	2213	2213	
5°	2213	2207	2188	2204	2200	211
15°	2156	2153	2115	2076	2057	610
25°	2041	2016	1908	1857	1844	942
35°	1844	1796	1672	1611	1586	1155
45°	1564	1519	1385	1261	1099	1206
55°	1223	1194	1064	850	774	1096
65°	873	841	716	576	554	862
75°	497	471	401	347	347	524
85°	143	118	86	73	73	150
90°	6	22	35	45	48	10
95°	26	54	73	76	76	25
105°	73	76	108	127	134	77
115°	121	102	127	146	156	118
125°	162	131	146	169	175	145
135°	194	175	162	178	188	150
145°	217	207	182	178	185	135
155°	229	226	213	204	201	106
165°	236	239	232	232	232	67
175°	239	242	242	245	245	23
180°	242	242	242	242	242	



TEST NUMBER: P520533

CATALOG NUMBER: 4WSLA-175-L830-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2213.3	2213.3	2213.3	2213.3	2213.3
2.5°	2219.6	2213.3	2197.4	2213.3	2210.1
5°	2213.3	2206.9	2187.8	2203.7	2200.5
7.5°	2203.7	2197.4	2178.2	2197.4	2194.2
10°	2194.2	2187.8	2168.7	2181.4	2171.9
12.5°	2178.2	2171.9	2149.6	2133.7	2114.6
15°	2156.0	2152.8	2114.6	2076.3	2057.2
17.5°	2136.8	2127.3	2066.8	2022.2	1999.9
20°	2111.4	2095.4	2015.8	1964.9	1949.0
22.5°	2082.7	2057.2	1961.7	1913.9	1901.2
25°	2041.3	2015.8	1907.6	1856.6	1843.9
27.5°	1999.9	1968.1	1853.4	1802.5	1789.7
30°	1955.3	1910.7	1792.9	1745.1	1722.9
32.5°	1904.4	1859.8	1735.6	1681.5	1656.0
35°	1843.9	1796.1	1671.9	1611.4	1585.9
37.5°	1786.5	1735.6	1608.2	1541.3	1506.3
40°	1716.5	1665.5	1535.0	1461.7	1426.7
42.5°	1643.2	1595.5	1464.9	1375.7	1289.8
45°	1563.6	1519.0	1385.3	1261.1	1098.7
47.5°	1480.8	1442.6	1312.0	1143.3	987.2
50°	1398.0	1359.8	1232.4	1031.8	901.2
52.5°	1315.2	1283.4	1143.3	939.4	831.2
55°	1222.9	1194.2	1063.6	850.3	773.9
57.5°	1140.1	1111.4	971.3	777.0	713.3
60°	1047.7	1022.2	885.3	703.8	656.0
62.5°	961.7	933.1	799.3	640.1	605.1
65°	872.6	840.7	716.5	576.4	554.1
67.5°	780.2	748.4	636.9	519.1	506.3
70°	687.9	662.4	557.3	461.8	455.4
72.5°	592.3	563.7	477.7	407.6	407.6
75°	496.8	471.3	401.3	347.1	347.1
77.5°	398.1	385.3	321.6	283.4	286.6
80°	312.1	296.2	242.0	216.6	216.6
82.5°	229.3	210.2	162.4	143.3	149.7
85°	143.3	117.8	86.0	73.2	73.2
87.5°	44.6	35.0	25.5	28.7	28.7
90°	6.4	22.3	35.0	44.6	47.8
92.5°	15.9	41.4	51.0	60.5	63.7
95°	25.5	54.1	73.2	76.4	76.4
97.5°	35.0	60.5	89.2	101.9	101.9
100°	47.8	63.7	95.5	114.6	117.8
102.5°	60.5	70.1	101.9	121.0	127.4
105°	73.2	76.4	108.3	127.4	133.8



TEST NUMBER: P520533

CATALOG NUMBER: 4WSLA-175-L830-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	108.3	95.5	121.0	143.3	149.7
115°	121.0	101.9	127.4	146.5	156.0
117.5°	130.6	111.5	133.8	152.9	159.2
120°	140.1	117.8	136.9	159.2	165.6
122.5°	152.9	124.2	143.3	162.4	172.0
125°	162.4	130.6	146.5	168.8	175.2
127.5°	172.0	143.3	149.7	172.0	178.3
130°	178.3	156.0	152.9	175.2	181.5
132.5°	187.9	165.6	156.0	178.3	184.7
135°	194.3	175.2	162.4	178.3	187.9
137.5°	200.6	184.7	162.4	178.3	184.7
140°	207.0	194.3	165.6	178.3	184.7
142.5°	210.2	200.6	168.8	178.3	184.7
145°	216.6	207.0	181.5	178.3	184.7
147.5°	219.7	213.4	191.1	178.3	184.7
150°	222.9	219.7	200.6	181.5	181.5
152.5°	226.1	222.9	207.0	194.3	187.9
155°	229.3	226.1	213.4	203.8	200.6
157.5°	232.5	232.5	219.7	213.4	210.2
160°	232.5	235.7	226.1	219.7	216.6
162.5°	235.7	238.8	229.3	226.1	222.9
165°	235.7	238.8	232.5	232.5	232.5
167.5°	238.8	242.0	238.8	235.7	235.7
170°	238.8	242.0	238.8	238.8	238.8
172.5°	238.8	242.0	242.0	242.0	242.0
175°	238.8	242.0	242.0	245.2	245.2
177.5°	238.8	242.0	242.0	242.0	242.0
180°	242.0	242.0	242.0	242.0	242.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	86.0	82.8	111.5	133.8	140.1
110°	95.5	89.2	117.8	136.9	143.3



(END OF REPORT)