

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: P520532

Luminaire Tested: **4WSLA-175-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520532
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-L830-UPL15-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

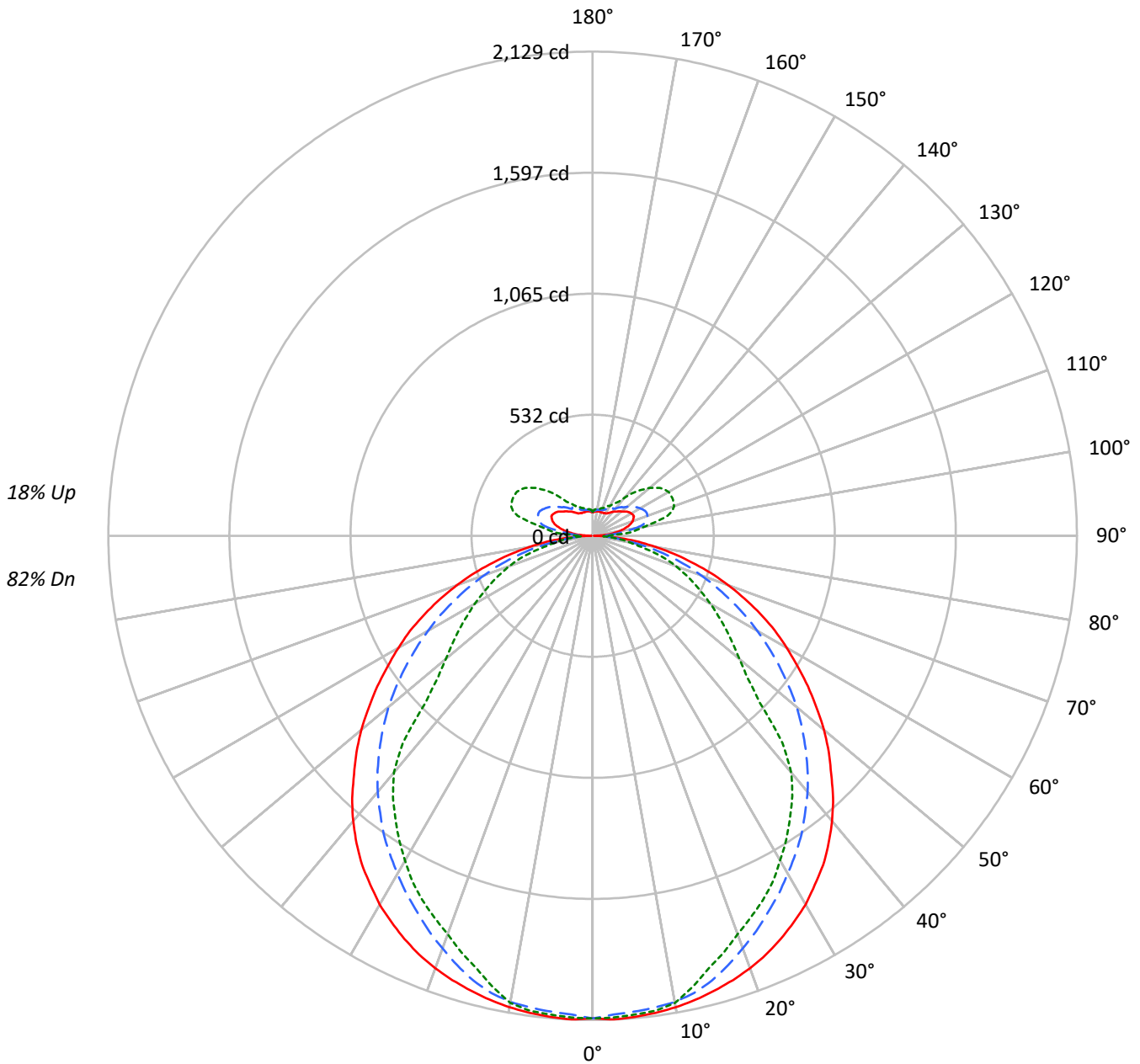
Lumens per Lamp: N/A
Luminaire Lumens: 6873.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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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	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°	11422	11422	11422
5°	11477	11349	11419
10°	11504	11374	11398
15°	11536	11285	10973
20°	11588	11057	10675
25°	11618	10839	10506
30°	11637	10660	10246
35°	11610	10521	9941
40°	11507	10328	9542
45°	11287	10075	7913
50°	11119	9804	7047
55°	10845	9411	6705
60°	10611	8989	6440
65°	10361	8497	6249
70°	9958	7959	6131
75°	9399	7295	5639
80°	8604	6137	5002
85°	7707	5317	5051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	2.9
10°-20°	571.3	8.3
20°-30°	852.7	12.4
30°-40°	1016.0	14.8
40°-50°	1010.5	14.7
50°-60°	866.1	12.6
60°-70°	652.3	9.5
70°-80°	377.8	5.5
80°-90°	113.5	1.7
90°-100°	121.9	1.8
100°-110°	250.3	3.6
110°-120°	264.7	3.9
120°-130°	220.8	3.2
130°-140°	154.2	2.2
140°-150°	96.0	1.4
150°-160°	59.5	0.9
160°-170°	33.5	0.5
170°-180°	10.8	0.2
0°-30°	1625.1	23.6
0°-40°	2641.1	38.4
0°-60°	4517.7	65.7
0°-90°	5661.3	82.4
90°-120°	636.9	9.3
90°-150°	1107.9	16.1
90°-180°	1212.0	17.6
0°-180°	6873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2122	2122	2122	2122	2122	
5°	2124	2118	2101	2116	2114	202
15°	2070	2068	2025	1991	1969	585
25°	1956	1928	1825	1780	1769	902
35°	1767	1720	1601	1539	1513	1104
45°	1483	1446	1324	1192	1040	1146
55°	1156	1139	1003	796	715	1033
65°	814	794	667	519	491	804
75°	452	437	351	280	271	479
85°	125	110	86	82	82	133
90°	6	30	52	65	69	13
95°	69	92	106	155	168	66
105°	161	168	241	323	342	167
115°	200	170	256	353	387	195
125°	185	164	222	325	366	164
135°	151	164	179	241	278	118
145°	123	142	155	166	176	78
155°	112	118	127	138	140	52
165°	110	114	118	123	123	31
175°	108	110	112	114	116	10
180°	106	106	106	106	106	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2122.2	2122.2	2122.2	2122.2	2122.2
2.5°	2128.6	2124.3	2107.1	2124.3	2120.0
5°	2124.3	2117.9	2100.7	2115.7	2113.6
7.5°	2115.7	2111.4	2092.1	2109.3	2107.1
10°	2105.0	2098.5	2081.3	2094.2	2085.6
12.5°	2089.9	2085.6	2059.8	2049.0	2031.8
15°	2070.5	2068.4	2025.3	1990.9	1969.4
17.5°	2049.0	2040.4	1980.1	1939.2	1919.9
20°	2023.2	2010.3	1930.6	1883.3	1863.9
22.5°	1993.1	1973.7	1881.1	1835.9	1816.6
25°	1956.5	1928.5	1825.2	1780.0	1769.2
27.5°	1915.6	1883.3	1773.5	1728.3	1715.4
30°	1872.5	1831.6	1715.4	1672.4	1648.7
32.5°	1818.7	1780.0	1659.4	1609.9	1584.1
35°	1767.1	1719.7	1601.3	1538.9	1513.1
37.5°	1704.6	1657.3	1534.6	1472.2	1442.1
40°	1637.9	1590.6	1470.0	1396.9	1358.1
42.5°	1564.7	1521.7	1399.0	1310.8	1235.4
45°	1483.0	1446.4	1323.7	1192.4	1039.6
47.5°	1407.6	1373.2	1248.3	1078.3	921.2
50°	1328.0	1295.7	1170.9	970.7	841.6
52.5°	1239.7	1216.1	1086.9	878.1	774.8
55°	1155.8	1138.6	1003.0	796.4	714.6
57.5°	1067.6	1050.3	919.0	718.9	654.3
60°	985.8	968.5	835.1	650.0	598.3
62.5°	904.0	880.3	753.3	583.3	540.2
65°	813.6	794.2	667.2	518.7	490.7
67.5°	723.2	706.0	587.6	458.4	439.1
70°	632.8	617.7	505.8	400.3	389.6
72.5°	544.5	525.2	432.6	342.2	337.9
75°	452.0	436.9	350.8	279.8	271.2
77.5°	363.7	350.8	275.5	213.1	206.6
80°	277.6	264.7	198.0	155.0	161.4
82.5°	204.5	187.3	133.4	120.5	127.0
85°	124.8	109.8	86.1	81.8	81.8
87.5°	43.0	40.9	38.7	45.2	47.4
90°	6.5	30.1	51.7	64.6	68.9
92.5°	36.6	53.8	71.0	83.9	88.2
95°	68.9	92.5	105.5	155.0	167.9
97.5°	94.7	122.7	137.7	182.9	195.9
100°	120.5	146.4	193.7	217.4	232.5
102.5°	142.1	161.4	228.1	275.5	284.1
105°	161.4	167.9	241.1	322.8	342.2



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CATALOG NUMBER: 4WSLA-175-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	193.7	172.2	258.3	350.8	385.3
115°	200.2	170.0	256.1	353.0	387.4
117.5°	200.2	170.0	249.7	353.0	387.4
120°	195.9	172.2	241.1	348.7	385.3
122.5°	191.6	167.9	232.5	340.1	376.7
125°	185.1	163.6	221.7	325.0	365.9
127.5°	174.3	167.9	210.9	305.6	346.5
130°	165.7	170.0	198.0	286.3	327.2
132.5°	159.3	165.7	185.1	264.7	301.3
135°	150.7	163.6	178.6	241.1	277.6
137.5°	144.2	157.1	167.9	219.5	249.7
140°	137.7	152.8	157.1	191.6	217.4
142.5°	129.1	146.4	148.5	178.6	189.4
145°	122.7	142.1	155.0	165.7	176.5
147.5°	116.2	133.4	150.7	152.8	163.6
150°	114.1	124.8	144.2	146.4	150.7
152.5°	111.9	120.5	133.4	146.4	148.5
155°	111.9	118.4	127.0	137.7	139.9
157.5°	109.8	118.4	122.7	131.3	133.4
160°	109.8	116.2	120.5	127.0	129.1
162.5°	109.8	116.2	118.4	124.8	127.0
165°	109.8	114.1	118.4	122.7	122.7
167.5°	109.8	114.1	116.2	120.5	120.5
170°	109.8	111.9	116.2	118.4	118.4
172.5°	107.6	111.9	114.1	118.4	118.4
175°	107.6	109.8	111.9	114.1	116.2
177.5°	103.3	109.8	111.9	114.1	111.9
180°	105.5	105.5	105.5	105.5	105.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	176.5	170.0	249.7	340.1	368.0
110°	187.3	172.2	256.1	346.5	381.0



(END OF REPORT)