

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: P520539

Luminaire Tested: **4WSLA-175-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520539
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-L840-UPL8-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

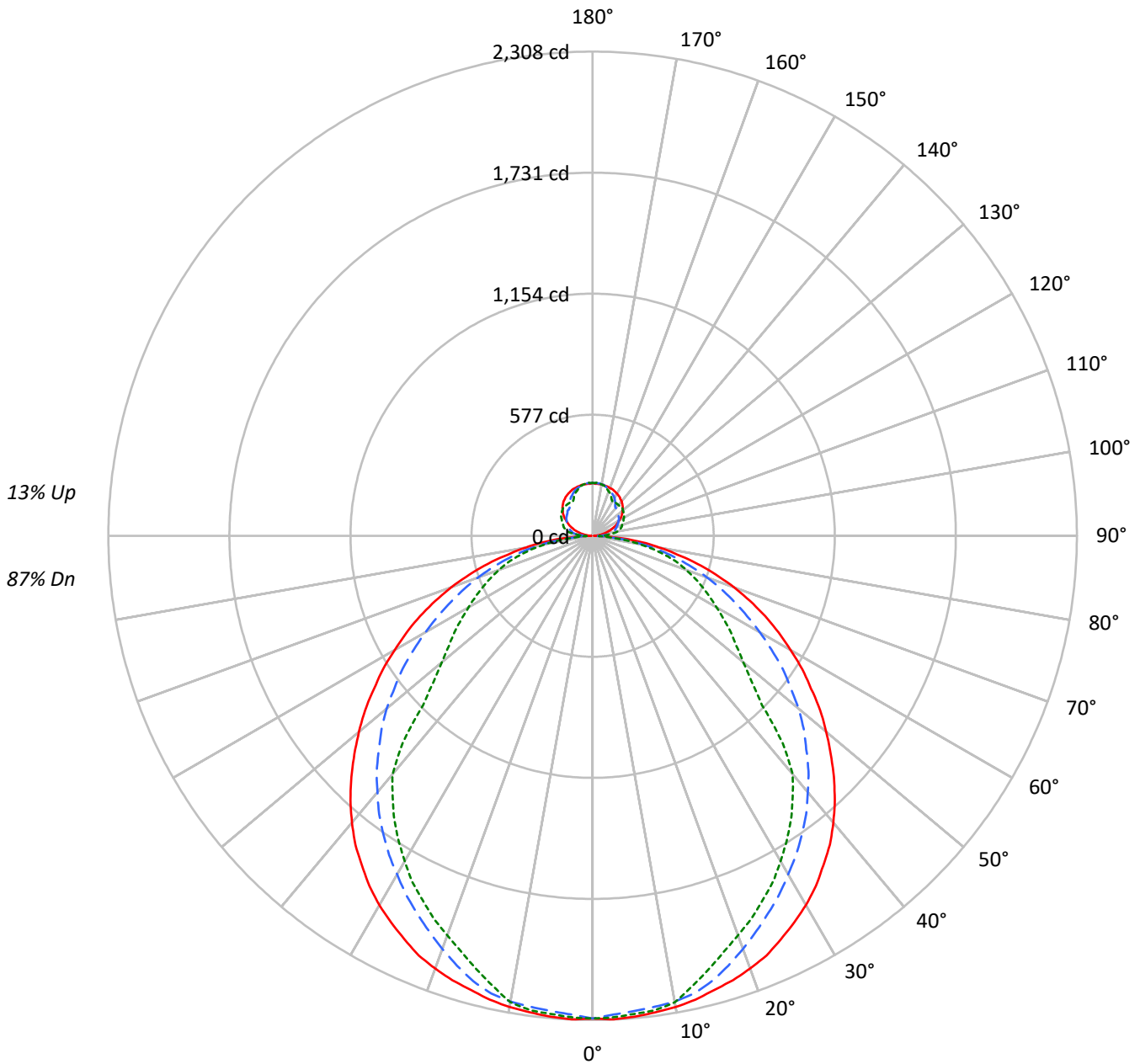
Lumens per Lamp: N/A
Luminaire Lumens: 7161.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{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°	12384	12384	12384
5°	12431	12288	12360
10°	12466	12321	12340
15°	12489	12249	11917
20°	12572	12003	11605
25°	12602	11777	11383
30°	12633	11584	11131
35°	12594	11420	10833
40°	12537	11212	10420
45°	12373	10962	8694
50°	12169	10728	7845
55°	11929	10376	7549
60°	11724	9907	7341
65°	11553	9486	7337
70°	11253	9117	7449
75°	10740	8675	7505
80°	10057	7798	6977
85°	9201	5521	4699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	3.0
10°-20°	619.3	8.6
20°-30°	925.4	12.9
30°-40°	1104.6	15.4
40°-50°	1104.7	15.4
50°-60°	956.1	13.4
60°-70°	733.8	10.2
70°-80°	449.7	6.3
80°-90°	126.6	1.8
90°-100°	71.5	1.0
100°-110°	113.6	1.6
110°-120°	132.8	1.9
120°-130°	143.3	2.0
130°-140°	141.2	2.0
140°-150°	124.9	1.7
150°-160°	102.8	1.4
160°-170°	68.8	1.0
170°-180°	24.0	0.3
0°-30°	1762.5	24.6
0°-40°	2867.1	40.0
0°-60°	4927.9	68.8
0°-90°	6238.0	87.1
90°-120°	317.9	4.4
90°-150°	727.4	10.2
90°-180°	923.0	12.9
0°-180°	7161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2301	2301	2301	2301	2301	
5°	2301	2294	2274	2291	2288	219
15°	2241	2238	2198	2159	2139	634
25°	2122	2096	1983	1930	1917	979
35°	1917	1867	1738	1675	1649	1200
45°	1626	1579	1440	1311	1142	1253
55°	1271	1242	1106	884	804	1140
65°	907	874	745	599	576	896
75°	516	490	417	361	361	545
85°	149	122	89	76	76	156
90°	7	23	36	46	50	10
95°	26	56	76	80	80	26
105°	76	80	113	132	139	80
115°	126	106	132	152	162	123
125°	169	136	152	176	182	150
135°	202	182	169	185	195	156
145°	225	215	189	185	192	140
155°	238	235	222	212	209	110
165°	245	248	242	242	242	70
175°	248	252	252	255	255	24
180°	252	252	252	252	252	



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CATALOG NUMBER: 4WSLA-175-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2301.0	2301.0	2301.0	2301.0	2301.0
2.5°	2307.6	2301.0	2284.4	2301.0	2297.7
5°	2301.0	2294.4	2274.5	2291.1	2287.8
7.5°	2291.1	2284.4	2264.6	2284.4	2281.1
10°	2281.1	2274.5	2254.6	2267.9	2258.0
12.5°	2264.6	2258.0	2234.8	2218.2	2198.4
15°	2241.4	2238.1	2198.4	2158.6	2138.8
17.5°	2221.5	2211.6	2148.7	2102.4	2079.2
20°	2195.1	2178.5	2095.7	2042.8	2026.2
22.5°	2165.3	2138.8	2039.4	1989.8	1976.5
25°	2122.2	2095.7	1983.2	1930.2	1916.9
27.5°	2079.2	2046.1	1926.9	1873.9	1860.7
30°	2032.8	1986.5	1864.0	1814.3	1791.1
32.5°	1979.9	1933.5	1804.4	1748.1	1721.6
35°	1916.9	1867.3	1738.2	1675.3	1648.8
37.5°	1857.4	1804.4	1671.9	1602.4	1566.0
40°	1784.5	1731.5	1595.8	1519.7	1483.2
42.5°	1708.4	1658.7	1523.0	1430.3	1340.9
45°	1625.6	1579.2	1440.2	1311.1	1142.2
47.5°	1539.5	1499.8	1364.0	1188.6	1026.3
50°	1453.4	1413.7	1281.3	1072.7	937.0
52.5°	1367.4	1334.2	1188.6	976.7	864.1
55°	1271.3	1241.5	1105.8	884.0	804.5
57.5°	1185.3	1155.5	1009.8	807.8	741.6
60°	1089.2	1062.8	920.4	731.7	682.0
62.5°	999.9	970.1	831.0	665.5	629.0
65°	907.2	874.0	744.9	599.3	576.1
67.5°	811.1	778.0	662.2	539.7	526.4
70°	715.1	688.6	579.4	480.1	473.4
72.5°	615.8	586.0	496.6	423.8	423.8
75°	516.5	490.0	417.2	360.9	360.9
77.5°	413.8	400.6	334.4	294.7	298.0
80°	324.5	307.9	251.6	225.1	225.1
82.5°	238.4	218.5	168.9	149.0	155.6
85°	149.0	122.5	89.4	76.1	76.1
87.5°	46.4	36.4	26.5	29.8	29.8
90°	6.6	23.2	36.4	46.4	49.7
92.5°	16.6	43.0	53.0	62.9	66.2
95°	26.5	56.3	76.1	79.5	79.5
97.5°	36.4	62.9	92.7	105.9	105.9
100°	49.7	66.2	99.3	119.2	122.5
102.5°	62.9	72.8	105.9	125.8	132.4
105°	76.1	79.5	112.6	132.4	139.1



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CATALOG NUMBER: 4WSLA-175-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	99.3	125.8	149.0	155.6
115°	125.8	105.9	132.4	152.3	162.2
117.5°	135.7	115.9	139.1	158.9	165.5
120°	145.7	122.5	142.4	165.5	172.2
122.5°	158.9	129.1	149.0	168.9	178.8
125°	168.9	135.7	152.3	175.5	182.1
127.5°	178.8	149.0	155.6	178.8	185.4
130°	185.4	162.2	158.9	182.1	188.7
132.5°	195.3	172.2	162.2	185.4	192.0
135°	202.0	182.1	168.9	185.4	195.3
137.5°	208.6	192.0	168.9	185.4	192.0
140°	215.2	202.0	172.2	185.4	192.0
142.5°	218.5	208.6	175.5	185.4	192.0
145°	225.1	215.2	188.7	185.4	192.0
147.5°	228.4	221.8	198.6	185.4	192.0
150°	231.8	228.4	208.6	188.7	188.7
152.5°	235.1	231.8	215.2	202.0	195.3
155°	238.4	235.1	221.8	211.9	208.6
157.5°	241.7	241.7	228.4	221.8	218.5
160°	241.7	245.0	235.1	228.4	225.1
162.5°	245.0	248.3	238.4	235.1	231.8
165°	245.0	248.3	241.7	241.7	241.7
167.5°	248.3	251.6	248.3	245.0	245.0
170°	248.3	251.6	248.3	248.3	248.3
172.5°	248.3	251.6	251.6	251.6	251.6
175°	248.3	251.6	251.6	254.9	254.9
177.5°	248.3	251.6	251.6	251.6	251.6
180°	251.6	251.6	251.6	251.6	251.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	89.4	86.1	115.9	139.1	145.7
110°	99.3	92.7	122.5	142.4	149.0



(END OF REPORT)