

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: P520574

Luminaire Tested: **4WSLA-200-L940-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520574
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-200-L940-UPL15-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

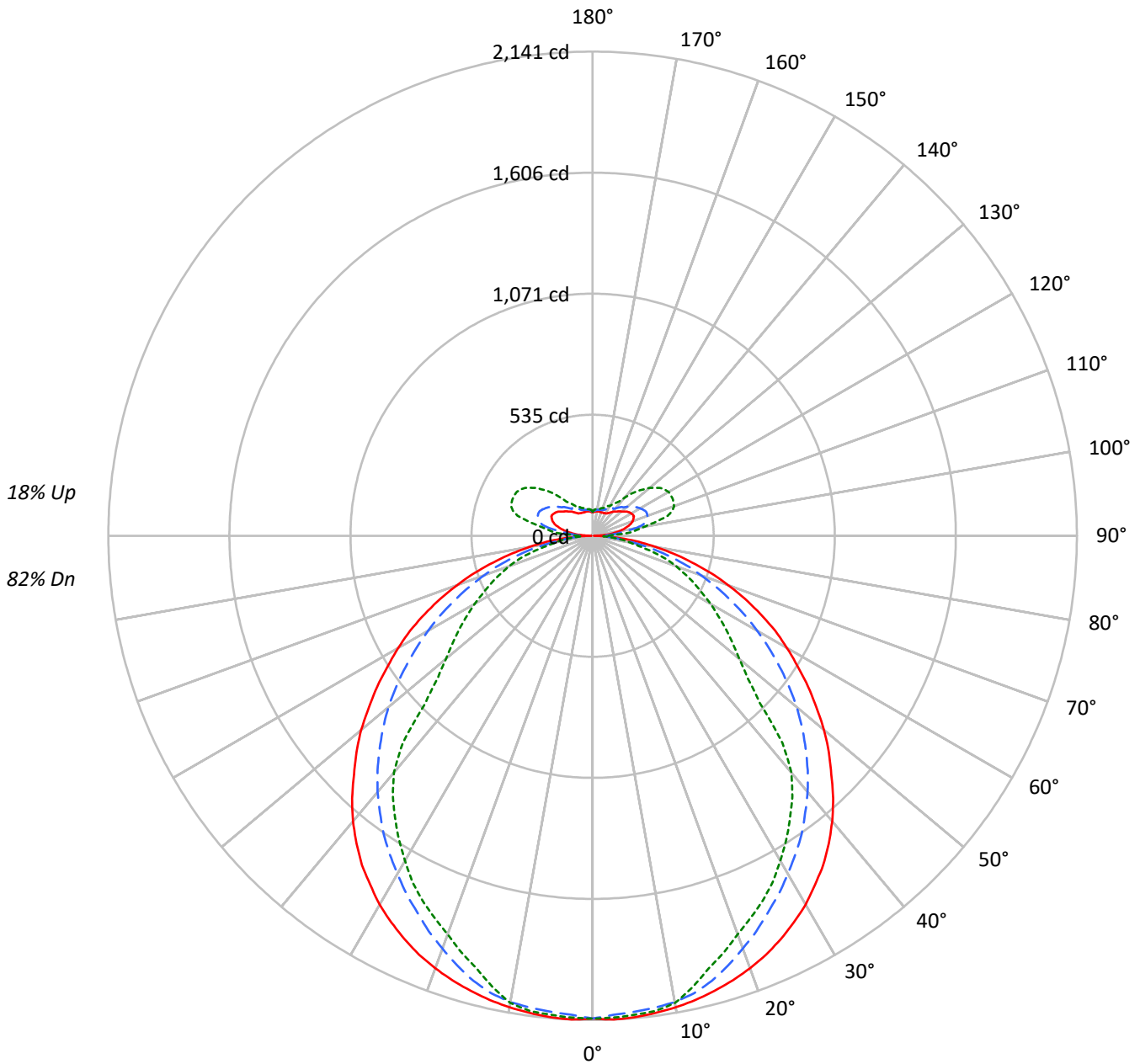
Lumens per Lamp: N/A
Luminaire Lumens: 6914.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76.3
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°	11490	11490	11490
5°	11545	11417	11487
10°	11572	11442	11466
15°	11606	11352	11038
20°	11657	11124	10739
25°	11687	10903	10569
30°	11706	10724	10307
35°	11679	10584	10000
40°	11576	10390	9598
45°	11354	10135	7960
50°	11185	9862	7088
55°	10910	9468	6745
60°	10673	9043	6479
65°	10422	8548	6287
70°	10017	8006	6167
75°	9455	7338	5673
80°	8656	6174	5033
85°	7756	5348	5082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	2.9
10°-20°	574.7	8.3
20°-30°	857.8	12.4
30°-40°	1022.0	14.8
40°-50°	1016.6	14.7
50°-60°	871.2	12.6
60°-70°	656.2	9.5
70°-80°	380.0	5.5
80°-90°	114.2	1.7
90°-100°	122.6	1.8
100°-110°	251.8	3.6
110°-120°	266.2	3.9
120°-130°	222.1	3.2
130°-140°	155.2	2.2
140°-150°	96.6	1.4
150°-160°	59.9	0.9
160°-170°	33.7	0.5
170°-180°	10.9	0.2
0°-30°	1634.8	23.6
0°-40°	2656.9	38.4
0°-60°	4544.7	65.7
0°-90°	5695.1	82.4
90°-120°	640.7	9.3
90°-150°	1114.5	16.1
90°-180°	1219.0	17.6
0°-180°	6914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2135	2135	2135	2135	2135	
5°	2137	2130	2113	2128	2126	203
15°	2083	2081	2037	2003	1981	589
25°	1968	1940	1836	1791	1780	907
35°	1778	1730	1611	1548	1522	1110
45°	1492	1455	1332	1200	1046	1153
55°	1163	1145	1009	801	719	1039
65°	818	799	671	522	494	809
75°	455	440	353	282	273	482
85°	126	110	87	82	82	134
90°	6	30	52	65	69	13
95°	69	93	106	156	169	66
105°	162	169	242	325	344	168
115°	201	171	258	355	390	196
125°	186	165	223	327	368	165
135°	152	165	180	242	279	118
145°	123	143	156	167	178	78
155°	113	119	128	139	141	52
165°	110	115	119	123	123	31
175°	108	110	113	115	117	10
180°	106	106	106	106	106	



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CATALOG NUMBER: 4WSLA-200-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2134.9	2134.9	2134.9	2134.9	2134.9
2.5°	2141.3	2137.0	2119.7	2137.0	2132.7
5°	2137.0	2130.5	2113.2	2128.4	2126.2
7.5°	2128.4	2124.0	2104.5	2121.9	2119.7
10°	2117.5	2111.0	2093.7	2106.7	2098.0
12.5°	2102.4	2098.0	2072.1	2061.2	2043.9
15°	2082.9	2080.7	2037.4	2002.8	1981.1
17.5°	2061.2	2052.6	1992.0	1950.8	1931.3
20°	2035.3	2022.3	1942.2	1894.5	1875.0
22.5°	2004.9	1985.5	1892.4	1846.9	1827.4
25°	1968.1	1940.0	1836.1	1790.6	1779.8
27.5°	1927.0	1894.5	1784.1	1738.6	1725.6
30°	1883.7	1842.6	1725.6	1682.3	1658.5
32.5°	1829.6	1790.6	1669.3	1619.5	1593.6
35°	1777.6	1730.0	1610.9	1548.1	1522.1
37.5°	1714.8	1667.2	1543.8	1481.0	1450.7
40°	1647.7	1600.1	1478.8	1405.2	1366.2
42.5°	1574.1	1530.8	1407.4	1318.6	1242.8
45°	1491.8	1455.0	1331.6	1199.5	1045.8
47.5°	1416.0	1381.4	1255.8	1084.7	926.7
50°	1335.9	1303.4	1177.8	976.5	846.6
52.5°	1247.1	1223.3	1093.4	883.4	779.5
55°	1162.7	1145.4	1009.0	801.1	718.8
57.5°	1073.9	1056.6	924.5	723.2	658.2
60°	991.6	974.3	840.1	653.9	601.9
62.5°	909.4	885.6	757.8	586.8	543.5
65°	818.4	798.9	671.2	521.8	493.7
67.5°	727.5	710.2	591.1	461.2	441.7
70°	636.6	621.4	508.8	402.7	391.9
72.5°	547.8	528.3	435.2	344.3	339.9
75°	454.7	439.5	352.9	281.5	272.8
77.5°	365.9	352.9	277.1	214.4	207.9
80°	279.3	266.3	199.2	155.9	162.4
82.5°	205.7	188.4	134.2	121.2	127.7
85°	125.6	110.4	86.6	82.3	82.3
87.5°	43.3	41.1	39.0	45.5	47.6
90°	6.5	30.3	52.0	65.0	69.3
92.5°	36.8	54.1	71.5	84.4	88.8
95°	69.3	93.1	106.1	155.9	168.9
97.5°	95.3	123.4	138.6	184.0	197.0
100°	121.2	147.2	194.9	218.7	233.8
102.5°	142.9	162.4	229.5	277.1	285.8
105°	162.4	168.9	242.5	324.8	344.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	173.2	259.8	352.9	387.6
115°	201.4	171.0	257.7	355.1	389.7
117.5°	201.4	171.0	251.2	355.1	389.7
120°	197.0	173.2	242.5	350.8	387.6
122.5°	192.7	168.9	233.8	342.1	378.9
125°	186.2	164.6	223.0	326.9	368.1
127.5°	175.4	168.9	212.2	307.5	348.6
130°	166.7	171.0	199.2	288.0	329.1
132.5°	160.2	166.7	186.2	266.3	303.1
135°	151.6	164.6	179.7	242.5	279.3
137.5°	145.1	158.1	168.9	220.8	251.2
140°	138.6	153.7	158.1	192.7	218.7
142.5°	129.9	147.2	149.4	179.7	190.5
145°	123.4	142.9	155.9	166.7	177.5
147.5°	116.9	134.2	151.6	153.7	164.6
150°	114.8	125.6	145.1	147.2	151.6
152.5°	112.6	121.2	134.2	147.2	149.4
155°	112.6	119.1	127.7	138.6	140.7
157.5°	110.4	119.1	123.4	132.1	134.2
160°	110.4	116.9	121.2	127.7	129.9
162.5°	110.4	116.9	119.1	125.6	127.7
165°	110.4	114.8	119.1	123.4	123.4
167.5°	110.4	114.8	116.9	121.2	121.2
170°	110.4	112.6	116.9	119.1	119.1
172.5°	108.3	112.6	114.8	119.1	119.1
175°	108.3	110.4	112.6	114.8	116.9
177.5°	103.9	110.4	112.6	114.8	112.6
180°	106.1	106.1	106.1	106.1	106.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	177.5	171.0	251.2	342.1	370.2
110°	188.4	173.2	257.7	348.6	383.2



(END OF REPORT)