

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: P520566

Luminaire Tested: **4WSLA-200-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520566
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-200-L850-UPL8-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

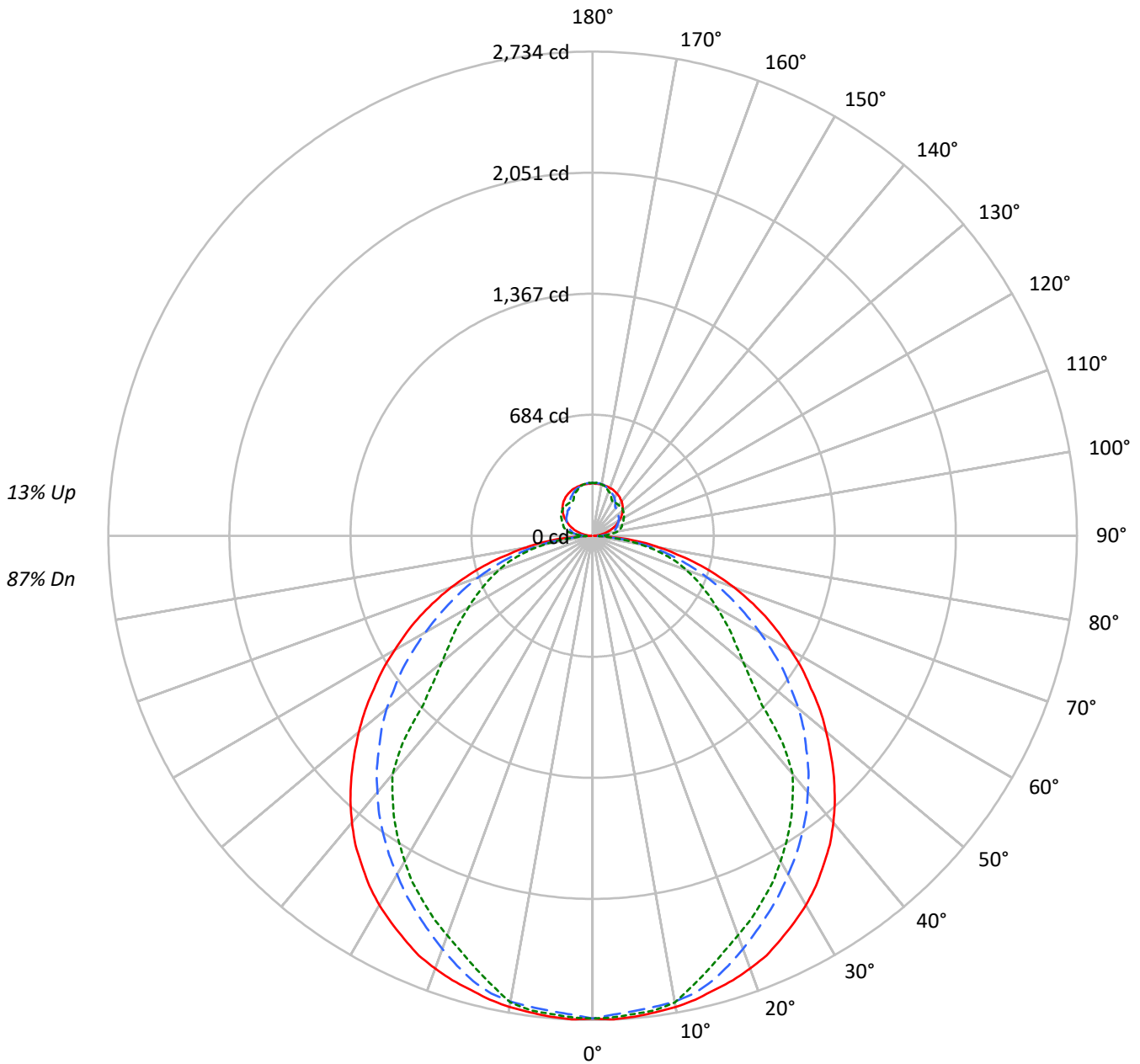
Lumens per Lamp: N/A
Luminaire Lumens: 8483.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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

TEST NUMBER: P520566

CATALOG NUMBER: 4WSLA-200-L850-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520566

CATALOG NUMBER: 4WSLA-200-L850-UPL8-UNV-U

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°	14670	14670	14670
5°	14726	14557	14641
10°	14768	14596	14618
15°	14794	14510	14117
20°	14893	14219	13747
25°	14929	13951	13485
30°	14965	13722	13186
35°	14920	13528	12833
40°	14852	13281	12345
45°	14657	12986	10299
50°	14416	12708	9293
55°	14131	12291	8942
60°	13889	11736	8696
65°	13685	11237	8690
70°	13331	10799	8825
75°	12722	10277	8890
80°	11914	9239	8266
85°	10899	6539	5570



TEST NUMBER: P520566

CATALOG NUMBER: 4WSLA-200-L850-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	3.0
10°-20°	733.6	8.6
20°-30°	1096.2	12.9
30°-40°	1308.5	15.4
40°-50°	1308.7	15.4
50°-60°	1132.6	13.4
60°-70°	869.3	10.2
70°-80°	532.7	6.3
80°-90°	150.0	1.8
90°-100°	84.7	1.0
100°-110°	134.5	1.6
110°-120°	157.3	1.9
120°-130°	169.8	2.0
130°-140°	167.3	2.0
140°-150°	148.0	1.7
150°-160°	121.8	1.4
160°-170°	81.5	1.0
170°-180°	28.4	0.3
0°-30°	2087.9	24.6
0°-40°	3396.4	40.0
0°-60°	5837.7	68.8
0°-90°	7389.6	87.1
90°-120°	376.5	4.4
90°-150°	861.7	10.2
90°-180°	1093.0	12.9
0°-180°	8483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2726	2718	2694	2714	2710	259
15°	2655	2651	2604	2557	2534	751
25°	2514	2483	2349	2286	2271	1160
35°	2271	2212	2059	1984	1953	1422
45°	1926	1871	1706	1553	1353	1485
55°	1506	1471	1310	1047	953	1350
65°	1075	1035	882	710	682	1061
75°	612	580	494	428	428	645
85°	176	145	106	90	90	185
90°	8	28	43	55	59	12
95°	31	67	90	94	94	31
105°	90	94	133	157	165	95
115°	149	126	157	180	192	146
125°	200	161	180	208	216	178
135°	239	216	200	220	231	185
145°	267	255	224	220	228	166
155°	282	278	263	251	247	130
165°	290	294	286	286	286	82
175°	294	298	298	302	302	28
180°	298	298	298	298	298	



TEST NUMBER: P520566

CATALOG NUMBER: 4WSLA-200-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2725.8	2725.8	2725.8	2725.8	2725.8
2.5°	2733.6	2725.8	2706.2	2725.8	2721.9
5°	2725.8	2717.9	2694.4	2714.0	2710.1
7.5°	2714.0	2706.2	2682.6	2706.2	2702.3
10°	2702.3	2694.4	2670.9	2686.6	2674.8
12.5°	2682.6	2674.8	2647.3	2627.7	2604.2
15°	2655.2	2651.3	2604.2	2557.1	2533.6
17.5°	2631.7	2619.9	2545.4	2490.5	2463.0
20°	2600.3	2580.7	2482.6	2419.9	2400.3
22.5°	2565.0	2533.6	2415.9	2357.1	2341.4
25°	2514.0	2482.6	2349.3	2286.5	2270.8
27.5°	2463.0	2423.8	2282.6	2219.9	2204.2
30°	2408.1	2353.2	2208.1	2149.3	2121.8
32.5°	2345.4	2290.4	2137.5	2070.8	2039.4
35°	2270.8	2212.0	2059.0	1984.5	1953.2
37.5°	2200.2	2137.5	1980.6	1898.2	1855.1
40°	2114.0	2051.2	1890.4	1800.2	1757.1
42.5°	2023.8	1964.9	1804.1	1694.3	1588.4
45°	1925.7	1870.8	1706.1	1553.1	1353.1
47.5°	1823.7	1776.7	1615.9	1408.0	1215.8
50°	1721.8	1674.7	1517.8	1270.7	1109.9
52.5°	1619.8	1580.6	1408.0	1157.0	1023.6
55°	1506.0	1470.7	1309.9	1047.2	953.0
57.5°	1404.1	1368.8	1196.2	957.0	878.5
60°	1290.3	1259.0	1090.3	866.8	807.9
62.5°	1184.4	1149.1	984.4	788.3	745.2
65°	1074.6	1035.4	882.4	709.9	682.4
67.5°	960.9	921.7	784.4	639.3	623.6
70°	847.2	815.8	686.3	568.7	560.8
72.5°	729.5	694.2	588.3	502.0	502.0
75°	611.8	580.5	494.2	427.5	427.5
77.5°	490.2	474.6	396.1	349.1	353.0
80°	384.4	364.7	298.1	266.7	266.7
82.5°	282.4	258.9	200.0	176.5	184.3
85°	176.5	145.1	105.9	90.2	90.2
87.5°	54.9	43.1	31.4	35.3	35.3
90°	7.8	27.5	43.1	54.9	58.8
92.5°	19.6	51.0	62.8	74.5	78.4
95°	31.4	66.7	90.2	94.1	94.1
97.5°	43.1	74.5	109.8	125.5	125.5
100°	58.8	78.4	117.7	141.2	145.1
102.5°	74.5	86.3	125.5	149.0	156.9
105°	90.2	94.1	133.3	156.9	164.7



TEST NUMBER: P520566

CATALOG NUMBER: 4WSLA-200-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	133.3	117.7	149.0	176.5	184.3
115°	149.0	125.5	156.9	180.4	192.2
117.5°	160.8	137.3	164.7	188.3	196.1
120°	172.6	145.1	168.6	196.1	203.9
122.5°	188.3	153.0	176.5	200.0	211.8
125°	200.0	160.8	180.4	207.9	215.7
127.5°	211.8	176.5	184.3	211.8	219.6
130°	219.6	192.2	188.3	215.7	223.6
132.5°	231.4	203.9	192.2	219.6	227.5
135°	239.2	215.7	200.0	219.6	231.4
137.5°	247.1	227.5	200.0	219.6	227.5
140°	254.9	239.2	203.9	219.6	227.5
142.5°	258.9	247.1	207.9	219.6	227.5
145°	266.7	254.9	223.6	219.6	227.5
147.5°	270.6	262.8	235.3	219.6	227.5
150°	274.5	270.6	247.1	223.6	223.6
152.5°	278.5	274.5	254.9	239.2	231.4
155°	282.4	278.5	262.8	251.0	247.1
157.5°	286.3	286.3	270.6	262.8	258.9
160°	286.3	290.2	278.5	270.6	266.7
162.5°	290.2	294.1	282.4	278.5	274.5
165°	290.2	294.1	286.3	286.3	286.3
167.5°	294.1	298.1	294.1	290.2	290.2
170°	294.1	298.1	294.1	294.1	294.1
172.5°	294.1	298.1	298.1	298.1	298.1
175°	294.1	298.1	298.1	302.0	302.0
177.5°	294.1	298.1	298.1	298.1	298.1
180°	298.1	298.1	298.1	298.1	298.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	105.9	102.0	137.3	164.7	172.6
110°	117.7	109.8	145.1	168.6	176.5



(END OF REPORT)