

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: P520733

Luminaire Tested: **8WSLA-200-L850-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520733
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: 8WSLA-200-L850-UPL15-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

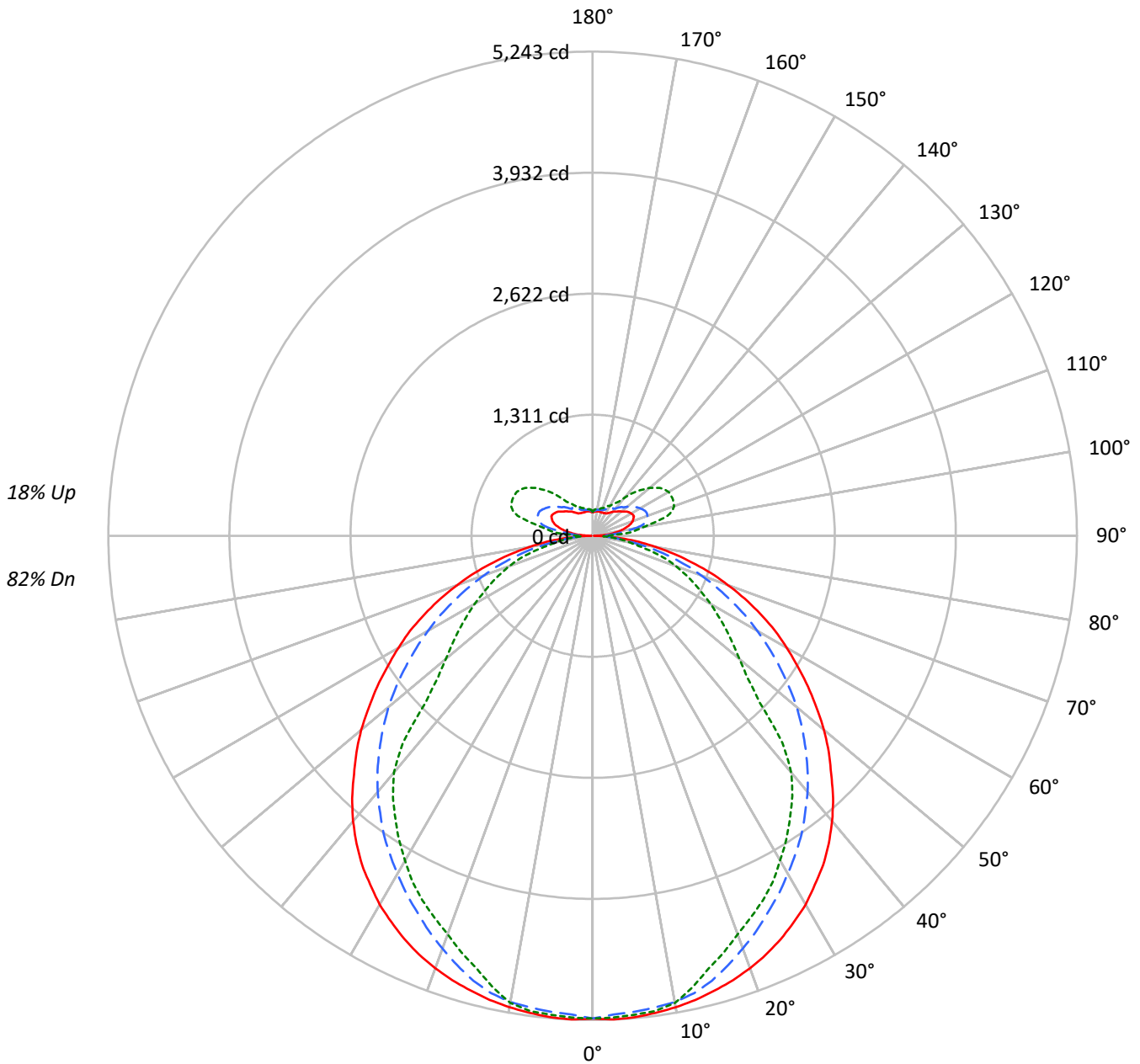
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16928.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 152.3
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: P520733
CATALOG NUMBER: 8WSLA-200-L850-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520733

CATALOG NUMBER: 8WSLA-200-L850-UPL15-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	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°	14065	14065	14065
5°	14134	13976	14062
10°	14167	14007	14036
15°	14207	13897	13513
20°	14270	13617	13147
25°	14308	13347	12938
30°	14331	13128	12618
35°	14297	12956	12243
40°	14171	12719	11750
45°	13900	12407	9744
50°	13693	12073	8677
55°	13356	11590	8257
60°	13067	11070	7931
65°	12759	10464	7696
70°	12262	9802	7549
75°	11574	8984	6944
80°	10597	7558	6161
85°	9494	6546	6218



TEST NUMBER: P520733

CATALOG NUMBER: 8WSLA-200-L850-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.4	2.9
10°-20°	1407.2	8.3
20°-30°	2100.1	12.4
30°-40°	2502.3	14.8
40°-50°	2488.9	14.7
50°-60°	2133.1	12.6
60°-70°	1606.5	9.5
70°-80°	930.4	5.5
80°-90°	279.6	1.7
90°-100°	300.2	1.8
100°-110°	616.5	3.6
110°-120°	651.9	3.9
120°-130°	543.8	3.2
130°-140°	379.9	2.2
140°-150°	236.4	1.4
150°-160°	146.6	0.9
160°-170°	82.6	0.5
170°-180°	26.6	0.2
0°-30°	4002.7	23.6
0°-40°	6504.9	38.4
0°-60°	11127.0	65.7
0°-90°	13943.6	82.4
90°-120°	1568.6	9.3
90°-150°	2728.7	16.1
90°-180°	2984.0	17.6
0°-180°	16928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5227	5227	5227	5227	5227	
5°	5232	5216	5174	5211	5206	498
15°	5100	5094	4988	4904	4850	1441
25°	4819	4750	4495	4384	4358	2222
35°	4352	4236	3944	3790	3727	2718
45°	3652	3562	3260	2937	2560	2824
55°	2847	2804	2470	1961	1760	2545
65°	2004	1956	1643	1278	1209	1981
75°	1113	1076	864	689	668	1179
85°	308	270	212	201	201	328
90°	16	74	127	159	170	31
95°	170	228	260	382	414	162
105°	398	414	594	795	843	412
115°	493	419	631	869	954	480
125°	456	403	546	800	901	405
135°	371	403	440	594	684	290
145°	302	350	382	408	435	192
155°	276	292	313	339	345	127
165°	270	281	292	302	302	77
175°	265	270	276	281	286	25
180°	260	260	260	260	260	



TEST NUMBER: P520733

CATALOG NUMBER: 8WSLA-200-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5226.9	5226.9	5226.9	5226.9	5226.9
2.5°	5242.8	5232.2	5189.8	5232.2	5221.6
5°	5232.2	5216.3	5173.9	5211.0	5205.7
7.5°	5211.0	5200.4	5152.7	5195.1	5189.8
10°	5184.5	5168.6	5126.2	5158.0	5136.8
12.5°	5147.4	5136.8	5073.2	5046.7	5004.2
15°	5099.7	5094.4	4988.3	4903.5	4850.5
17.5°	5046.7	5025.5	4877.0	4776.3	4728.6
20°	4983.0	4951.2	4755.1	4638.5	4590.8
22.5°	4908.8	4861.1	4633.2	4521.8	4474.1
25°	4818.7	4749.8	4495.3	4384.0	4357.5
27.5°	4718.0	4638.5	4368.1	4256.8	4225.0
30°	4612.0	4511.2	4225.0	4119.0	4060.7
32.5°	4479.4	4384.0	4087.2	3965.2	3901.6
35°	4352.2	4235.6	3944.0	3790.3	3726.7
37.5°	4198.5	4081.9	3779.7	3626.0	3551.7
40°	4034.1	3917.5	3620.7	3440.4	3345.0
42.5°	3853.9	3747.9	3445.7	3228.4	3042.8
45°	3652.5	3562.3	3260.2	2936.8	2560.4
47.5°	3466.9	3382.1	3074.6	2655.9	2268.9
50°	3270.8	3191.3	2883.8	2390.8	2072.7
52.5°	3053.4	2995.1	2677.1	2162.9	1908.4
55°	2846.7	2804.3	2470.3	1961.4	1760.0
57.5°	2629.4	2586.9	2263.6	1770.6	1611.5
60°	2427.9	2385.5	2056.8	1600.9	1473.7
62.5°	2226.5	2168.2	1855.4	1436.6	1330.6
65°	2003.8	1956.1	1643.3	1277.6	1208.7
67.5°	1781.2	1738.8	1447.2	1129.1	1081.4
70°	1558.5	1521.4	1245.8	986.0	959.5
72.5°	1341.2	1293.5	1065.5	842.9	832.3
75°	1113.2	1076.1	864.1	689.1	667.9
77.5°	895.9	864.1	678.5	524.8	508.9
80°	683.8	652.0	487.7	381.7	397.6
82.5°	503.6	461.2	328.7	296.9	312.8
85°	307.5	270.4	212.0	201.4	201.4
87.5°	106.0	100.7	95.4	111.3	116.6
90°	15.9	74.2	127.2	159.0	169.6
92.5°	90.1	132.5	174.9	206.7	217.3
95°	169.6	227.9	259.8	381.7	413.5
97.5°	233.2	302.2	339.3	450.6	482.4
100°	296.9	360.5	477.1	535.4	572.5
102.5°	349.9	397.6	561.9	678.5	699.7
105°	397.6	413.5	593.7	795.2	842.9



TEST NUMBER: P520733

CATALOG NUMBER: 8WSLA-200-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.1	424.1	636.1	864.1	948.9
115°	493.0	418.8	630.8	869.4	954.2
117.5°	493.0	418.8	614.9	869.4	954.2
120°	482.4	424.1	593.7	858.8	948.9
122.5°	471.8	413.5	572.5	837.6	927.7
125°	455.9	402.9	546.0	800.5	901.2
127.5°	429.4	413.5	519.5	752.8	853.5
130°	408.2	418.8	487.7	705.0	805.8
132.5°	392.3	408.2	455.9	652.0	742.2
135°	371.1	402.9	440.0	593.7	683.8
137.5°	355.2	387.0	413.5	540.7	614.9
140°	339.3	376.4	387.0	471.8	535.4
142.5°	318.1	360.5	365.8	440.0	466.5
145°	302.2	349.9	381.7	408.2	434.7
147.5°	286.3	328.7	371.1	376.4	402.9
150°	281.0	307.5	355.2	360.5	371.1
152.5°	275.7	296.9	328.7	360.5	365.8
155°	275.7	291.6	312.8	339.3	344.6
157.5°	270.4	291.6	302.2	323.4	328.7
160°	270.4	286.3	296.9	312.8	318.1
162.5°	270.4	286.3	291.6	307.5	312.8
165°	270.4	281.0	291.6	302.2	302.2
167.5°	270.4	281.0	286.3	296.9	296.9
170°	270.4	275.7	286.3	291.6	291.6
172.5°	265.1	275.7	281.0	291.6	291.6
175°	265.1	270.4	275.7	281.0	286.3
177.5°	254.5	270.4	275.7	281.0	275.7
180°	259.8	259.8	259.8	259.8	259.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	434.7	418.8	614.9	837.6	906.5
110°	461.2	424.1	630.8	853.5	938.3



(END OF REPORT)