

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: P520637

Luminaire Tested: **8WSLA-100-L850-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520637
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-100-L850-UPL15-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

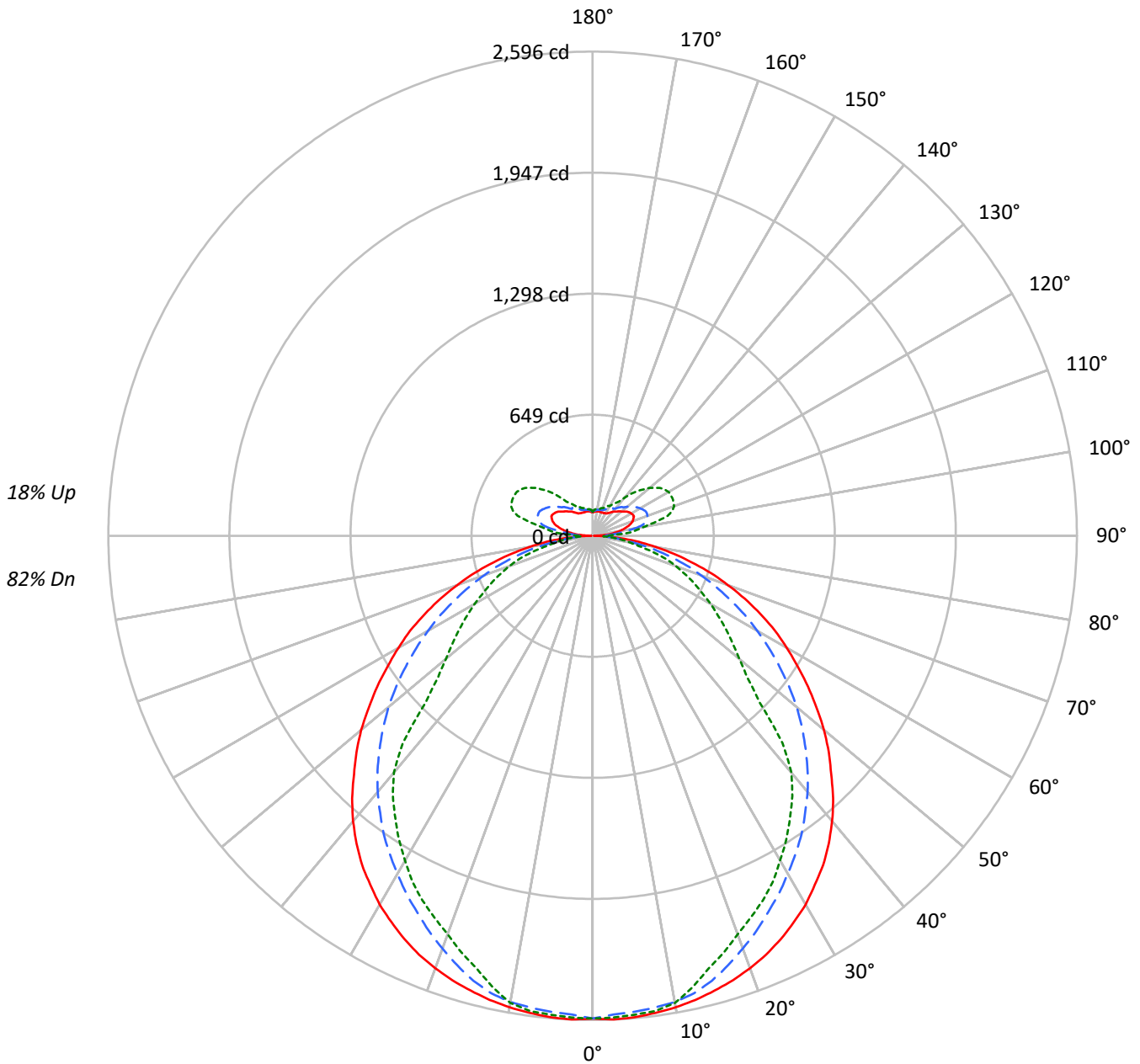
Lumens per Lamp: N/A
Luminaire Lumens: 8382.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.4
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: P520637

CATALOG NUMBER: 8WSLA-100-L850-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520637

CATALOG NUMBER: 8WSLA-100-L850-UPL15-UNV-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				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°	6965	6965	6965
5°	6998	6920	6963
10°	7015	6936	6950
15°	7035	6881	6691
20°	7066	6743	6509
25°	7084	6609	6406
30°	7096	6500	6248
35°	7079	6415	6062
40°	7017	6298	5818
45°	6882	6143	4825
50°	6780	5978	4297
55°	6613	5739	4089
60°	6470	5482	3927
65°	6318	5181	3811
70°	6072	4853	3738
75°	5731	4449	3438
80°	5247	3742	3051
85°	4699	3242	3078



TEST NUMBER: P520637

CATALOG NUMBER: 8WSLA-100-L850-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	2.9
10°-20°	696.8	8.3
20°-30°	1039.9	12.4
30°-40°	1239.0	14.8
40°-50°	1232.4	14.7
50°-60°	1056.2	12.6
60°-70°	795.5	9.5
70°-80°	460.7	5.5
80°-90°	138.5	1.7
90°-100°	148.6	1.8
100°-110°	305.3	3.6
110°-120°	322.8	3.9
120°-130°	269.3	3.2
130°-140°	188.1	2.2
140°-150°	117.1	1.4
150°-160°	72.6	0.9
160°-170°	40.9	0.5
170°-180°	13.2	0.2
0°-30°	1981.9	23.6
0°-40°	3221.0	38.4
0°-60°	5509.6	65.7
0°-90°	6904.3	82.4
90°-120°	776.7	9.3
90°-150°	1351.1	16.1
90°-180°	1478.0	17.6
0°-180°	8382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2588	2588	2588	2588	2588	
5°	2591	2583	2562	2580	2578	246
15°	2525	2522	2470	2428	2402	714
25°	2386	2352	2226	2171	2158	1100
35°	2155	2097	1953	1877	1845	1346
45°	1808	1764	1614	1454	1268	1398
55°	1410	1389	1223	971	872	1260
65°	992	969	814	633	598	981
75°	551	533	428	341	331	584
85°	152	134	105	100	100	162
90°	8	37	63	79	84	15
95°	84	113	129	189	205	80
105°	197	205	294	394	417	204
115°	244	207	312	430	472	238
125°	226	200	270	396	446	200
135°	184	200	218	294	339	143
145°	150	173	189	202	215	95
155°	136	144	155	168	171	63
165°	134	139	144	150	150	38
175°	131	134	136	139	142	13
180°	129	129	129	129	129	



TEST NUMBER: P520637

CATALOG NUMBER: 8WSLA-100-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2588.1	2588.1	2588.1	2588.1	2588.1
2.5°	2596.0	2590.8	2569.8	2590.8	2585.5
5°	2590.8	2582.9	2561.9	2580.3	2577.6
7.5°	2580.3	2575.0	2551.4	2572.4	2569.8
10°	2567.1	2559.3	2538.3	2554.0	2543.5
12.5°	2548.8	2543.5	2512.0	2498.9	2477.9
15°	2525.1	2522.5	2470.0	2428.0	2401.8
17.5°	2498.9	2488.4	2414.9	2365.0	2341.4
20°	2467.4	2451.6	2354.5	2296.8	2273.1
22.5°	2430.6	2407.0	2294.1	2239.0	2215.4
25°	2386.0	2351.9	2225.9	2170.8	2157.6
27.5°	2336.1	2296.8	2162.9	2107.8	2092.0
30°	2283.6	2233.8	2092.0	2039.5	2010.7
32.5°	2218.0	2170.8	2023.8	1963.4	1931.9
35°	2155.0	2097.3	1952.9	1876.8	1845.3
37.5°	2078.9	2021.2	1871.5	1795.4	1758.7
40°	1997.5	1939.8	1792.8	1703.5	1656.3
42.5°	1908.3	1855.8	1706.2	1598.6	1506.7
45°	1808.5	1763.9	1614.3	1454.2	1267.8
47.5°	1716.7	1674.7	1522.4	1315.1	1123.4
50°	1619.5	1580.2	1427.9	1183.8	1026.3
52.5°	1511.9	1483.1	1325.6	1070.9	945.0
55°	1409.6	1388.6	1223.2	971.2	871.5
57.5°	1301.9	1280.9	1120.8	876.7	798.0
60°	1202.2	1181.2	1018.5	792.7	729.7
62.5°	1102.4	1073.6	918.7	711.3	658.8
65°	992.2	968.6	813.7	632.6	598.5
67.5°	882.0	861.0	716.6	559.1	535.5
70°	771.7	753.3	616.8	488.2	475.1
72.5°	664.1	640.5	527.6	417.4	412.1
75°	551.2	532.9	427.9	341.2	330.7
77.5°	443.6	427.9	336.0	259.9	252.0
80°	338.6	322.9	241.5	189.0	196.9
82.5°	249.4	228.4	162.7	147.0	154.9
85°	152.2	133.9	105.0	99.7	99.7
87.5°	52.5	49.9	47.2	55.1	57.7
90°	7.9	36.7	63.0	78.7	84.0
92.5°	44.6	65.6	86.6	102.4	107.6
95°	84.0	112.9	128.6	189.0	204.7
97.5°	115.5	149.6	168.0	223.1	238.9
100°	147.0	178.5	236.2	265.1	283.5
102.5°	173.2	196.9	278.2	336.0	346.5
105°	196.9	204.7	294.0	393.7	417.4



TEST NUMBER: P520637

CATALOG NUMBER: 8WSLA-100-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.2	210.0	315.0	427.9	469.9
115°	244.1	207.4	312.4	430.5	472.5
117.5°	244.1	207.4	304.5	430.5	472.5
120°	238.9	210.0	294.0	425.2	469.9
122.5°	233.6	204.7	283.5	414.7	459.4
125°	225.7	199.5	270.4	396.4	446.2
127.5°	212.6	204.7	257.2	372.7	422.6
130°	202.1	207.4	241.5	349.1	399.0
132.5°	194.2	202.1	225.7	322.9	367.5
135°	183.7	199.5	217.9	294.0	338.6
137.5°	175.9	191.6	204.7	267.7	304.5
140°	168.0	186.4	191.6	233.6	265.1
142.5°	157.5	178.5	181.1	217.9	231.0
145°	149.6	173.2	189.0	202.1	215.2
147.5°	141.7	162.7	183.7	186.4	199.5
150°	139.1	152.2	175.9	178.5	183.7
152.5°	136.5	147.0	162.7	178.5	181.1
155°	136.5	144.4	154.9	168.0	170.6
157.5°	133.9	144.4	149.6	160.1	162.7
160°	133.9	141.7	147.0	154.9	157.5
162.5°	133.9	141.7	144.4	152.2	154.9
165°	133.9	139.1	144.4	149.6	149.6
167.5°	133.9	139.1	141.7	147.0	147.0
170°	133.9	136.5	141.7	144.4	144.4
172.5°	131.2	136.5	139.1	144.4	144.4
175°	131.2	133.9	136.5	139.1	141.7
177.5°	126.0	133.9	136.5	139.1	136.5
180°	128.6	128.6	128.6	128.6	128.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	215.2	207.4	304.5	414.7	448.9
110°	228.4	210.0	312.4	422.6	464.6



(END OF REPORT)