

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: P520782

Luminaire Tested: **8WSLA-75-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520782
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: 8WSLA-75-L850-UPL8-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

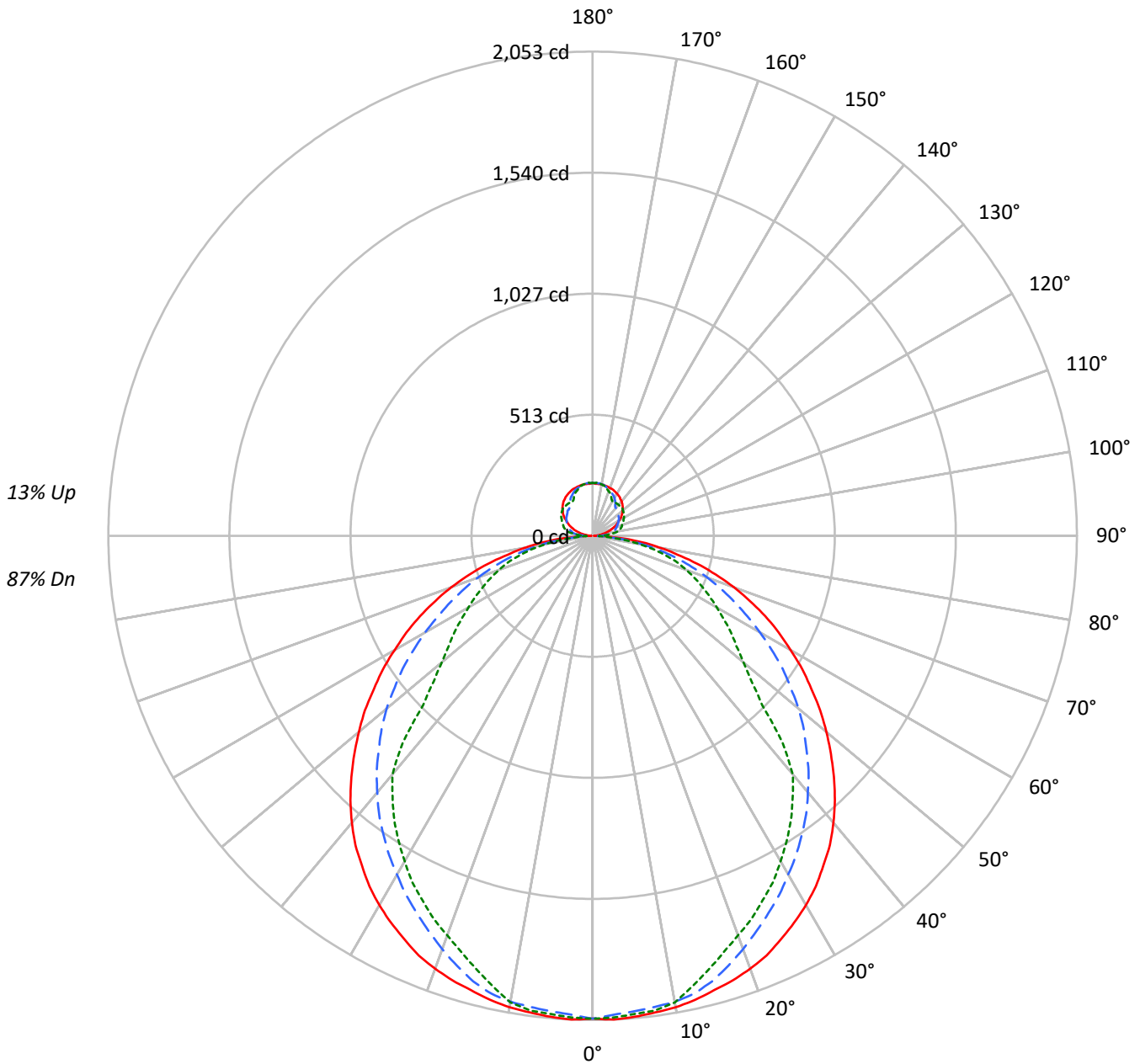
Lumens per Lamp: N/A
Luminaire Lumens: 6372.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
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: P520782

CATALOG NUMBER: 8WSLA-75-L850-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520782

CATALOG NUMBER: 8WSLA-75-L850-UPL8-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	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°	5510	5510	5510
5°	5531	5467	5499
10°	5546	5482	5490
15°	5556	5450	5302
20°	5593	5340	5163
25°	5607	5240	5065
30°	5620	5154	4952
35°	5603	5081	4820
40°	5578	4988	4636
45°	5505	4877	3868
50°	5414	4773	3490
55°	5308	4617	3359
60°	5216	4408	3266
65°	5140	4221	3264
70°	5006	4057	3315
75°	4779	3859	3339
80°	4474	3470	3104
85°	4094	2455	2093



TEST NUMBER: P520782

CATALOG NUMBER: 8WSLA-75-L850-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	3.0
10°-20°	551.1	8.6
20°-30°	823.4	12.9
30°-40°	982.9	15.4
40°-50°	983.0	15.4
50°-60°	850.7	13.4
60°-70°	653.0	10.2
70°-80°	400.1	6.3
80°-90°	112.6	1.8
90°-100°	63.7	1.0
100°-110°	101.0	1.6
110°-120°	118.1	1.9
120°-130°	127.5	2.0
130°-140°	125.7	2.0
140°-150°	111.2	1.7
150°-160°	91.5	1.4
160°-170°	61.2	1.0
170°-180°	21.3	0.3
0°-30°	1568.3	24.6
0°-40°	2551.2	40.0
0°-60°	4385.0	68.8
0°-90°	5550.7	87.1
90°-120°	282.9	4.4
90°-150°	647.3	10.2
90°-180°	821.0	12.9
0°-180°	6372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2048	2042	2024	2039	2036	195
15°	1994	1992	1956	1921	1903	564
25°	1888	1865	1765	1718	1706	871
35°	1706	1662	1547	1491	1467	1068
45°	1446	1405	1282	1167	1016	1115
55°	1131	1105	984	787	716	1014
65°	807	778	663	533	513	797
75°	460	436	371	321	321	485
85°	133	109	80	68	68	139
90°	6	21	32	41	44	9
95°	24	50	68	71	71	23
105°	68	71	100	118	124	71
115°	112	94	118	136	144	109
125°	150	121	136	156	162	134
135°	180	162	150	165	174	139
145°	200	192	168	165	171	125
155°	212	209	197	188	186	98
165°	218	221	215	215	215	62
175°	221	224	224	227	227	21
180°	224	224	224	224	224	



TEST NUMBER: P520782

CATALOG NUMBER: 8WSLA-75-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2047.5	2047.5	2047.5	2047.5	2047.5
2.5°	2053.4	2047.5	2032.7	2047.5	2044.5
5°	2047.5	2041.6	2023.9	2038.6	2035.7
7.5°	2038.6	2032.7	2015.1	2032.7	2029.8
10°	2029.8	2023.9	2006.2	2018.0	2009.2
12.5°	2015.1	2009.2	1988.6	1973.8	1956.1
15°	1994.4	1991.5	1956.1	1920.8	1903.1
17.5°	1976.8	1967.9	1912.0	1870.7	1850.1
20°	1953.2	1938.5	1864.8	1817.7	1803.0
22.5°	1926.7	1903.1	1814.7	1770.5	1758.8
25°	1888.4	1864.8	1764.7	1717.5	1705.7
27.5°	1850.1	1820.6	1714.6	1667.4	1655.7
30°	1808.8	1767.6	1658.6	1614.4	1593.8
32.5°	1761.7	1720.5	1605.6	1555.5	1531.9
35°	1705.7	1661.5	1546.7	1490.7	1467.1
37.5°	1652.7	1605.6	1487.7	1425.9	1393.5
40°	1587.9	1540.8	1420.0	1352.2	1319.8
42.5°	1520.1	1475.9	1355.2	1272.7	1193.1
45°	1446.5	1405.2	1281.5	1166.6	1016.4
47.5°	1369.9	1334.5	1213.8	1057.6	913.3
50°	1293.3	1257.9	1140.1	954.5	833.7
52.5°	1216.7	1187.2	1057.6	869.1	768.9
55°	1131.3	1104.8	984.0	786.6	715.9
57.5°	1054.7	1028.2	898.5	718.8	659.9
60°	969.2	945.7	819.0	651.1	606.9
62.5°	889.7	863.2	739.4	592.1	559.7
65°	807.2	777.7	662.9	533.2	512.6
67.5°	721.8	692.3	589.2	480.2	468.4
70°	636.3	612.8	515.6	427.2	421.3
72.5°	548.0	521.4	441.9	377.1	377.1
75°	459.6	436.0	371.2	321.1	321.1
77.5°	368.3	356.5	297.5	262.2	265.1
80°	288.7	274.0	223.9	200.3	200.3
82.5°	212.1	194.4	150.2	132.6	138.5
85°	132.6	109.0	79.5	67.8	67.8
87.5°	41.2	32.4	23.6	26.5	26.5
90°	5.9	20.6	32.4	41.2	44.2
92.5°	14.7	38.3	47.1	56.0	58.9
95°	23.6	50.1	67.8	70.7	70.7
97.5°	32.4	56.0	82.5	94.3	94.3
100°	44.2	58.9	88.4	106.1	109.0
102.5°	56.0	64.8	94.3	111.9	117.8
105°	67.8	70.7	100.2	117.8	123.7



TEST NUMBER: P520782

CATALOG NUMBER: 8WSLA-75-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.2	88.4	111.9	132.6	138.5
115°	111.9	94.3	117.8	135.5	144.4
117.5°	120.8	103.1	123.7	141.4	147.3
120°	129.6	109.0	126.7	147.3	153.2
122.5°	141.4	114.9	132.6	150.2	159.1
125°	150.2	120.8	135.5	156.1	162.0
127.5°	159.1	132.6	138.5	159.1	165.0
130°	165.0	144.4	141.4	162.0	167.9
132.5°	173.8	153.2	144.4	165.0	170.9
135°	179.7	162.0	150.2	165.0	173.8
137.5°	185.6	170.9	150.2	165.0	170.9
140°	191.5	179.7	153.2	165.0	170.9
142.5°	194.4	185.6	156.1	165.0	170.9
145°	200.3	191.5	167.9	165.0	170.9
147.5°	203.3	197.4	176.8	165.0	170.9
150°	206.2	203.3	185.6	167.9	167.9
152.5°	209.2	206.2	191.5	179.7	173.8
155°	212.1	209.2	197.4	188.5	185.6
157.5°	215.1	215.1	203.3	197.4	194.4
160°	215.1	218.0	209.2	203.3	200.3
162.5°	218.0	221.0	212.1	209.2	206.2
165°	218.0	221.0	215.1	215.1	215.1
167.5°	221.0	223.9	221.0	218.0	218.0
170°	221.0	223.9	221.0	221.0	221.0
172.5°	221.0	223.9	223.9	223.9	223.9
175°	221.0	223.9	223.9	226.8	226.8
177.5°	221.0	223.9	223.9	223.9	223.9
180°	223.9	223.9	223.9	223.9	223.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	79.5	76.6	103.1	123.7	129.6
110°	88.4	82.5	109.0	126.7	132.6



(END OF REPORT)