

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: P520710

Luminaire Tested: **8WSLA-175-L850-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520710
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-175-L850-UPL8-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

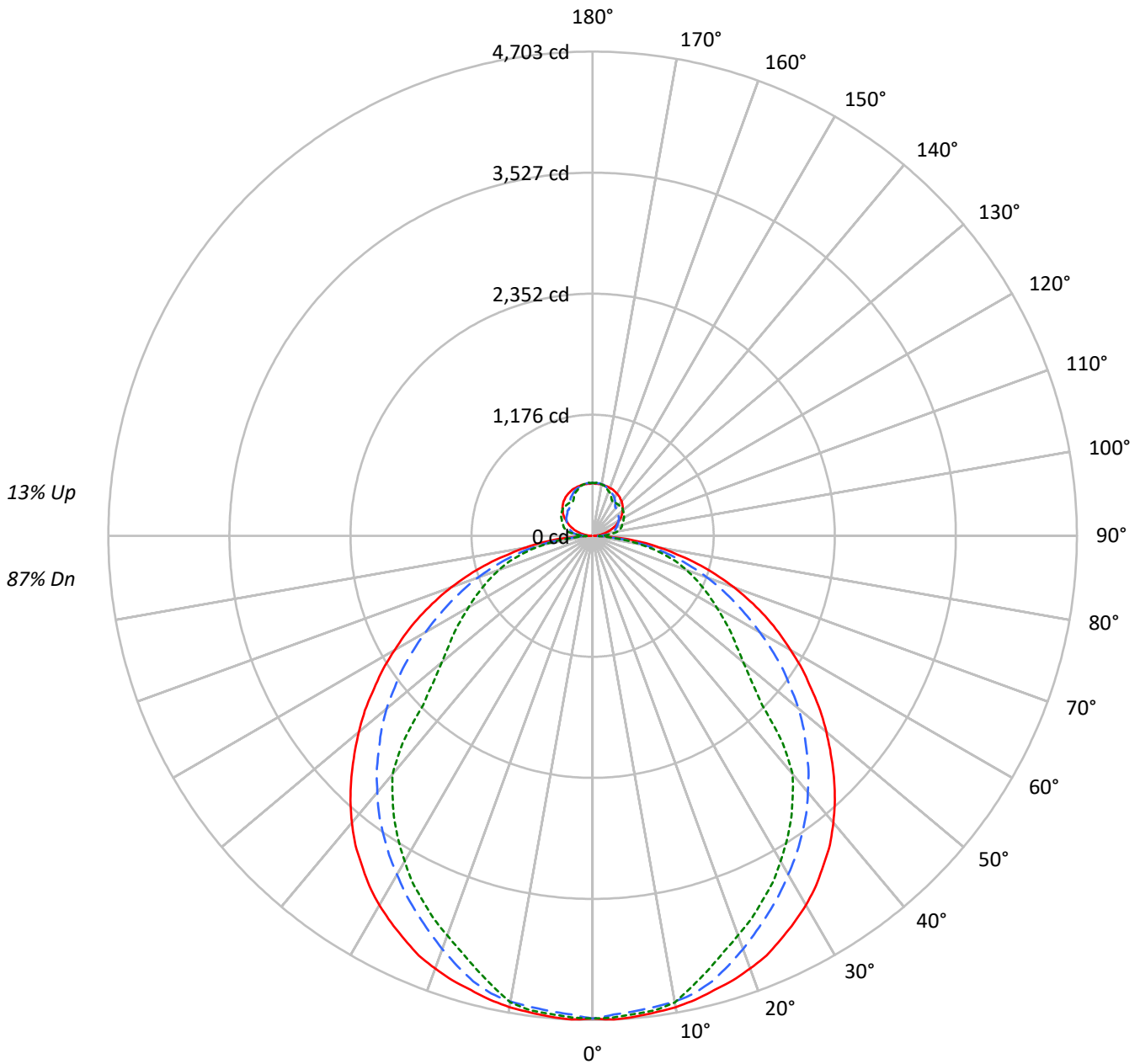
Lumens per Lamp: N/A
Luminaire Lumens: 14595.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 119
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				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			87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73			73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61			61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51			51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44			44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38			38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33			33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30			30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24			24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12620	12620	12620
5°	12668	12522	12595
10°	12704	12556	12575
15°	12727	12482	12144
20°	12812	12232	11826
25°	12843	12001	11601
30°	12874	11805	11343
35°	12835	11638	11039
40°	12776	11425	10619
45°	12609	11171	8859
50°	12401	10932	7994
55°	12157	10574	7693
60°	11948	10096	7481
65°	11773	9668	7476
70°	11467	9291	7592
75°	10945	8840	7647
80°	10248	7947	7111
85°	9377	5626	4792



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.0	3.0
10°-20°	1262.2	8.6
20°-30°	1886.0	12.9
30°-40°	2251.3	15.4
40°-50°	2251.6	15.4
50°-60°	1948.6	13.4
60°-70°	1495.7	10.2
70°-80°	916.5	6.3
80°-90°	258.0	1.8
90°-100°	145.8	1.0
100°-110°	231.4	1.6
110°-120°	270.6	1.9
120°-130°	292.1	2.0
130°-140°	287.9	2.0
140°-150°	254.7	1.7
150°-160°	209.6	1.4
160°-170°	140.3	1.0
170°-180°	48.8	0.3
0°-30°	3592.2	24.6
0°-40°	5843.5	40.0
0°-60°	10043.7	68.8
0°-90°	12713.8	87.1
90°-120°	647.9	4.4
90°-150°	1482.5	10.2
90°-180°	1881.0	12.9
0°-180°	14595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4690	4690	4690	4690	4690	
5°	4690	4676	4636	4670	4663	446
15°	4568	4562	4480	4400	4359	1292
25°	4325	4271	4042	3934	3907	1996
35°	3907	3806	3543	3414	3360	2447
45°	3313	3219	2935	2672	2328	2555
55°	2591	2530	2254	1802	1640	2323
65°	1849	1781	1518	1221	1174	1826
75°	1053	999	850	736	736	1111
85°	304	250	182	155	155	317
90°	14	47	74	94	101	21
95°	54	115	155	162	162	53
105°	155	162	229	270	283	163
115°	256	216	270	310	331	251
125°	344	277	310	358	371	307
135°	412	371	344	378	398	318
145°	459	439	385	378	391	286
155°	486	479	452	432	425	224
165°	499	506	493	493	493	142
175°	506	513	513	520	520	48
180°	513	513	513	513	513	



TEST NUMBER: P520710

CATALOG NUMBER: 8WSLA-175-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4689.7	4689.7	4689.7	4689.7	4689.7
2.5°	4703.2	4689.7	4656.0	4689.7	4683.0
5°	4689.7	4676.2	4635.7	4669.5	4662.7
7.5°	4669.5	4656.0	4615.5	4656.0	4649.2
10°	4649.2	4635.7	4595.2	4622.2	4602.0
12.5°	4615.5	4602.0	4554.8	4521.0	4480.5
15°	4568.3	4561.5	4480.5	4399.6	4359.1
17.5°	4527.8	4507.5	4379.3	4284.8	4237.6
20°	4473.8	4440.0	4271.4	4163.4	4129.7
22.5°	4413.1	4359.1	4156.6	4055.4	4028.4
25°	4325.3	4271.4	4041.9	3934.0	3907.0
27.5°	4237.6	4170.1	3927.2	3819.3	3792.3
30°	4143.1	4048.7	3799.0	3697.8	3650.6
32.5°	4035.2	3940.7	3677.5	3562.8	3508.9
35°	3907.0	3805.8	3542.6	3414.4	3360.4
37.5°	3785.5	3677.5	3407.6	3265.9	3191.7
40°	3637.1	3529.1	3252.4	3097.2	3023.0
42.5°	3481.9	3380.6	3104.0	2915.0	2732.9
45°	3313.2	3218.7	2935.3	2672.1	2328.0
47.5°	3137.7	3056.8	2780.1	2422.5	2091.8
50°	2962.3	2881.3	2611.4	2186.3	1909.6
52.5°	2786.8	2719.4	2422.5	1990.6	1761.2
55°	2591.2	2530.4	2253.8	1801.7	1639.7
57.5°	2415.7	2355.0	2058.1	1646.5	1511.5
60°	2220.0	2166.0	1875.9	1491.3	1390.0
62.5°	2037.8	1977.1	1693.7	1356.3	1282.1
65°	1848.9	1781.4	1518.3	1221.4	1174.1
67.5°	1653.2	1585.7	1349.6	1099.9	1072.9
70°	1457.5	1403.5	1180.9	978.4	964.9
72.5°	1255.1	1194.4	1012.2	863.7	863.7
75°	1052.7	998.7	850.2	735.5	735.5
77.5°	843.5	816.5	681.5	600.6	607.3
80°	661.3	627.5	512.8	458.9	458.9
82.5°	485.8	445.4	344.1	303.7	317.1
85°	303.7	249.7	182.2	155.2	155.2
87.5°	94.5	74.2	54.0	60.7	60.7
90°	13.5	47.2	74.2	94.5	101.2
92.5°	33.7	87.7	108.0	128.2	135.0
95°	54.0	114.7	155.2	161.9	161.9
97.5°	74.2	128.2	188.9	215.9	215.9
100°	101.2	135.0	202.4	242.9	249.7
102.5°	128.2	148.5	215.9	256.4	269.9
105°	155.2	161.9	229.4	269.9	283.4



TEST NUMBER: P520710

CATALOG NUMBER: 8WSLA-175-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.4	202.4	256.4	303.7	317.1
115°	256.4	215.9	269.9	310.4	330.6
117.5°	276.7	236.2	283.4	323.9	337.4
120°	296.9	249.7	290.2	337.4	350.9
122.5°	323.9	263.2	303.7	344.1	364.4
125°	344.1	276.7	310.4	357.6	371.1
127.5°	364.4	303.7	317.1	364.4	377.9
130°	377.9	330.6	323.9	371.1	384.6
132.5°	398.1	350.9	330.6	377.9	391.4
135°	411.6	371.1	344.1	377.9	398.1
137.5°	425.1	391.4	344.1	377.9	391.4
140°	438.6	411.6	350.9	377.9	391.4
142.5°	445.4	425.1	357.6	377.9	391.4
145°	458.9	438.6	384.6	377.9	391.4
147.5°	465.6	452.1	404.9	377.9	391.4
150°	472.3	465.6	425.1	384.6	384.6
152.5°	479.1	472.3	438.6	411.6	398.1
155°	485.8	479.1	452.1	431.9	425.1
157.5°	492.6	492.6	465.6	452.1	445.4
160°	492.6	499.3	479.1	465.6	458.9
162.5°	499.3	506.1	485.8	479.1	472.3
165°	499.3	506.1	492.6	492.6	492.6
167.5°	506.1	512.8	506.1	499.3	499.3
170°	506.1	512.8	506.1	506.1	506.1
172.5°	506.1	512.8	512.8	512.8	512.8
175°	506.1	512.8	512.8	519.6	519.6
177.5°	506.1	512.8	512.8	512.8	512.8
180°	512.8	512.8	512.8	512.8	512.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	182.2	175.4	236.2	283.4	296.9
110°	202.4	188.9	249.7	290.2	303.7



(END OF REPORT)