

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: P520590

Luminaire Tested: **4WSLA-50-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520590
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-50-L850-UPL8-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

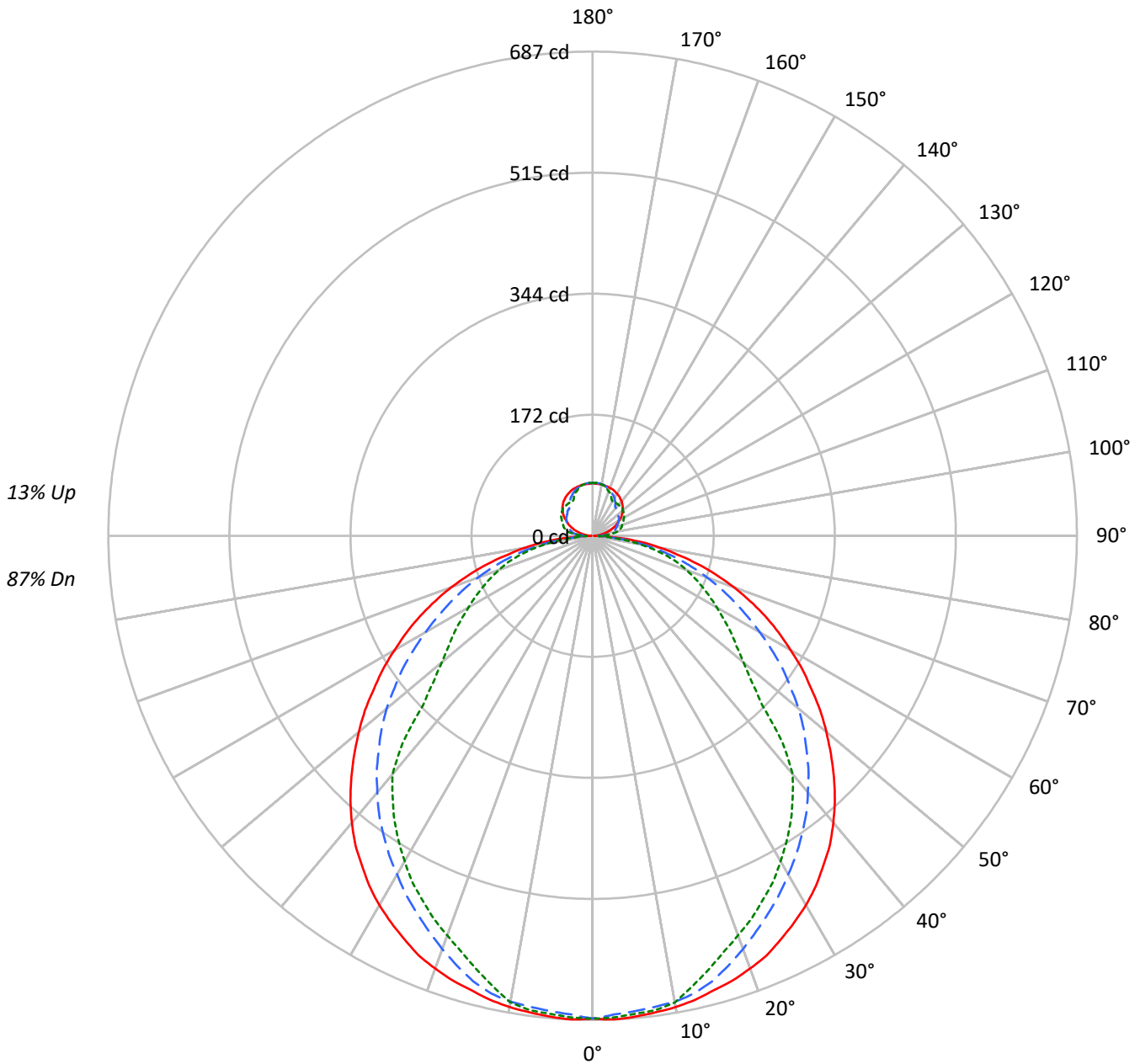
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2132.0 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: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 15.6
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: P520590
CATALOG NUMBER: 4WSLA-50-L850-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520590

CATALOG NUMBER: 4WSLA-50-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°	3687	3687	3687
5°	3701	3659	3680
10°	3711	3669	3674
15°	3718	3647	3548
20°	3743	3573	3455
25°	3752	3506	3389
30°	3761	3448	3314
35°	3750	3400	3225
40°	3733	3338	3103
45°	3684	3264	2589
50°	3623	3194	2336
55°	3552	3089	2247
60°	3491	2949	2186
65°	3440	2825	2184
70°	3350	2714	2219
75°	3198	2583	2233
80°	2994	2321	2077
85°	2742	1643	1402



TEST NUMBER: P520590

CATALOG NUMBER: 4WSLA-50-L850-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	3.0
10°-20°	184.4	8.6
20°-30°	275.5	12.9
30°-40°	328.9	15.4
40°-50°	328.9	15.4
50°-60°	284.6	13.4
60°-70°	218.5	10.2
70°-80°	133.9	6.3
80°-90°	37.7	1.8
90°-100°	21.3	1.0
100°-110°	33.8	1.6
110°-120°	39.5	1.9
120°-130°	42.7	2.0
130°-140°	42.1	2.0
140°-150°	37.2	1.7
150°-160°	30.6	1.4
160°-170°	20.5	1.0
170°-180°	7.1	0.3
0°-30°	524.7	24.6
0°-40°	853.6	40.0
0°-60°	1467.1	68.8
0°-90°	1857.2	87.1
90°-120°	94.6	4.4
90°-150°	216.6	10.2
90°-180°	275.0	12.9
0°-180°	2132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	685	683	677	682	681	65
15°	667	666	654	643	637	189
25°	632	624	590	575	571	291
35°	571	556	518	499	491	357
45°	484	470	429	390	340	373
55°	378	370	329	263	240	339
65°	270	260	222	178	172	267
75°	154	146	124	107	107	162
85°	44	36	27	23	23	46
90°	2	7	11	14	15	3
95°	8	17	23	24	24	8
105°	23	24	34	39	41	24
115°	38	32	39	45	48	37
125°	50	40	45	52	54	45
135°	60	54	50	55	58	46
145°	67	64	56	55	57	42
155°	71	70	66	63	62	33
165°	73	74	72	72	72	21
175°	74	75	75	76	76	7
180°	75	75	75	75	75	



TEST NUMBER: P520590

CATALOG NUMBER: 4WSLA-50-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	685.1	685.1	685.1	685.1	685.1
2.5°	687.0	685.1	680.1	685.1	684.1
5°	685.1	683.1	677.2	682.1	681.1
7.5°	682.1	680.1	674.2	680.1	679.1
10°	679.1	677.2	671.3	675.2	672.2
12.5°	674.2	672.2	665.3	660.4	654.5
15°	667.3	666.3	654.5	642.7	636.8
17.5°	661.4	658.4	639.7	625.9	619.0
20°	653.5	648.6	623.9	608.2	603.2
22.5°	644.6	636.8	607.2	592.4	588.5
25°	631.8	623.9	590.4	574.7	570.7
27.5°	619.0	609.2	573.7	557.9	554.0
30°	605.2	591.4	554.9	540.2	533.3
32.5°	589.4	575.6	537.2	520.4	512.6
35°	570.7	555.9	517.5	498.8	490.9
37.5°	553.0	537.2	497.8	477.1	466.2
40°	531.3	515.5	475.1	452.4	441.6
42.5°	508.6	493.8	453.4	425.8	399.2
45°	484.0	470.2	428.8	390.3	340.1
47.5°	458.4	446.5	406.1	353.9	305.6
50°	432.7	420.9	381.5	319.4	279.0
52.5°	407.1	397.2	353.9	290.8	257.3
55°	378.5	369.6	329.2	263.2	239.5
57.5°	352.9	344.0	300.6	240.5	220.8
60°	324.3	316.4	274.0	217.8	203.1
62.5°	297.7	288.8	247.4	198.1	187.3
65°	270.1	260.2	221.8	178.4	171.5
67.5°	241.5	231.6	197.1	160.7	156.7
70°	212.9	205.0	172.5	142.9	141.0
72.5°	183.3	174.5	147.9	126.2	126.2
75°	153.8	145.9	124.2	107.4	107.4
77.5°	123.2	119.3	99.6	87.7	88.7
80°	96.6	91.7	74.9	67.0	67.0
82.5°	71.0	65.1	50.3	44.4	46.3
85°	44.4	36.5	26.6	22.7	22.7
87.5°	13.8	10.8	7.9	8.9	8.9
90°	2.0	6.9	10.8	13.8	14.8
92.5°	4.9	12.8	15.8	18.7	19.7
95°	7.9	16.8	22.7	23.7	23.7
97.5°	10.8	18.7	27.6	31.5	31.5
100°	14.8	19.7	29.6	35.5	36.5
102.5°	18.7	21.7	31.5	37.5	39.4
105°	22.7	23.7	33.5	39.4	41.4



TEST NUMBER: P520590

CATALOG NUMBER: 4WSLA-50-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	33.5	29.6	37.5	44.4	46.3
115°	37.5	31.5	39.4	45.3	48.3
117.5°	40.4	34.5	41.4	47.3	49.3
120°	43.4	36.5	42.4	49.3	51.3
122.5°	47.3	38.4	44.4	50.3	53.2
125°	50.3	40.4	45.3	52.2	54.2
127.5°	53.2	44.4	46.3	53.2	55.2
130°	55.2	48.3	47.3	54.2	56.2
132.5°	58.2	51.3	48.3	55.2	57.2
135°	60.1	54.2	50.3	55.2	58.2
137.5°	62.1	57.2	50.3	55.2	57.2
140°	64.1	60.1	51.3	55.2	57.2
142.5°	65.1	62.1	52.2	55.2	57.2
145°	67.0	64.1	56.2	55.2	57.2
147.5°	68.0	66.0	59.1	55.2	57.2
150°	69.0	68.0	62.1	56.2	56.2
152.5°	70.0	69.0	64.1	60.1	58.2
155°	71.0	70.0	66.0	63.1	62.1
157.5°	72.0	72.0	68.0	66.0	65.1
160°	72.0	72.9	70.0	68.0	67.0
162.5°	72.9	73.9	71.0	70.0	69.0
165°	72.9	73.9	72.0	72.0	72.0
167.5°	73.9	74.9	73.9	72.9	72.9
170°	73.9	74.9	73.9	73.9	73.9
172.5°	73.9	74.9	74.9	74.9	74.9
175°	73.9	74.9	74.9	75.9	75.9
177.5°	73.9	74.9	74.9	74.9	74.9
180°	74.9	74.9	74.9	74.9	74.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	26.6	25.6	34.5	41.4	43.4
110°	29.6	27.6	36.5	42.4	44.4



(END OF REPORT)