

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: P520583

Luminaire Tested: **4WSLA-50-L835-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520583
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: 4WSLA-50-L835-UPL15-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

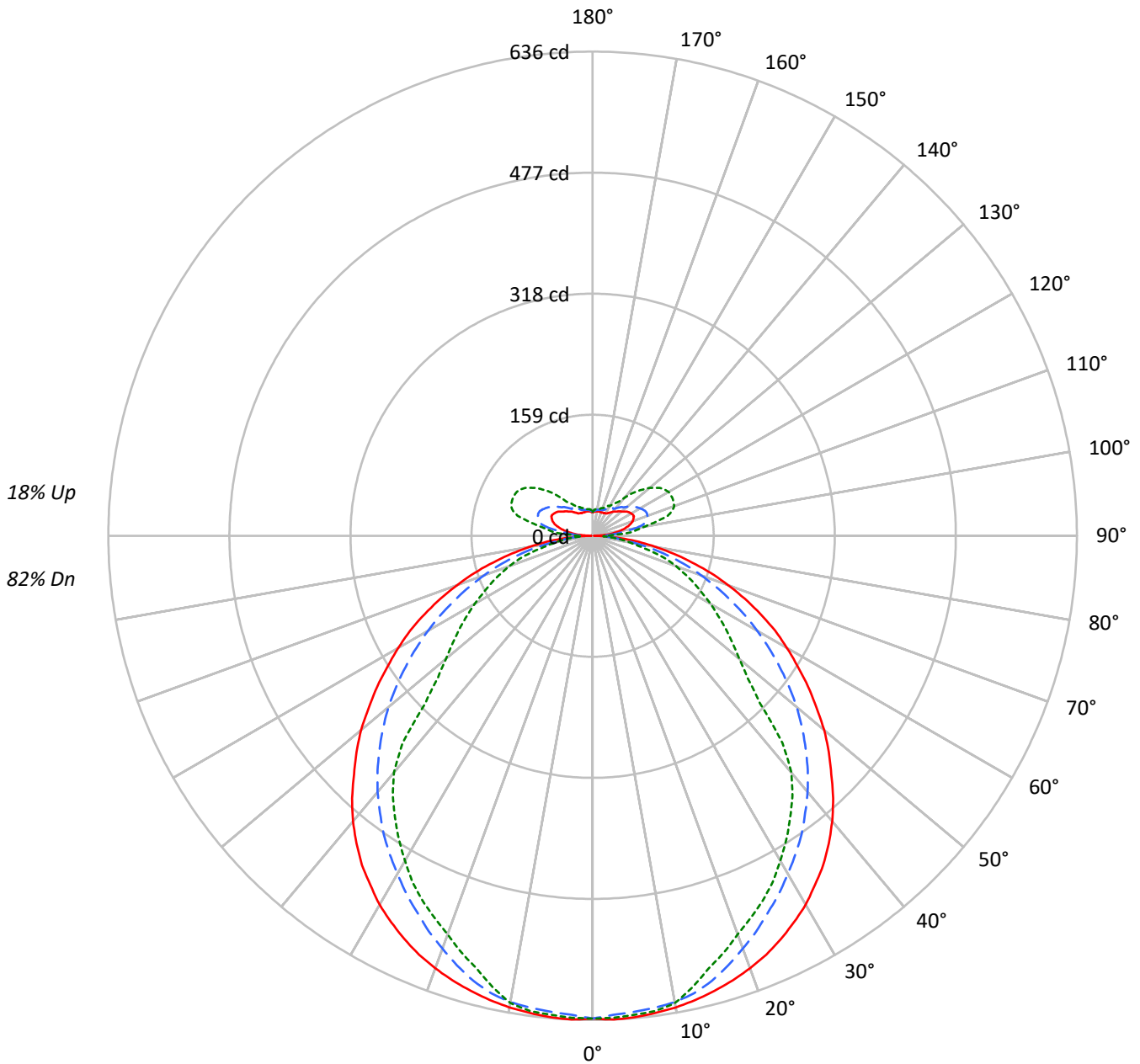
Lumens per Lamp: N/A
Luminaire Lumens: 2054.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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: P520583

CATALOG NUMBER: 4WSLA-50-L835-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520583

CATALOG NUMBER: 4WSLA-50-L835-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°	3413	3413	3413
5°	3430	3392	3412
10°	3438	3399	3406
15°	3448	3373	3279
20°	3463	3305	3190
25°	3472	3239	3140
30°	3478	3186	3062
35°	3470	3144	2971
40°	3439	3086	2852
45°	3373	3011	2365
50°	3323	2930	2106
55°	3241	2812	2004
60°	3171	2687	1925
65°	3096	2539	1868
70°	2976	2379	1832
75°	2809	2179	1684
80°	2572	1835	1494
85°	2303	1587	1507



TEST NUMBER: P520583

CATALOG NUMBER: 4WSLA-50-L835-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	2.9
10°-20°	170.7	8.3
20°-30°	254.8	12.4
30°-40°	303.6	14.8
40°-50°	302.0	14.7
50°-60°	258.8	12.6
60°-70°	194.9	9.5
70°-80°	112.9	5.5
80°-90°	33.9	1.7
90°-100°	36.4	1.8
100°-110°	74.8	3.6
110°-120°	79.1	3.9
120°-130°	66.0	3.2
130°-140°	46.1	2.2
140°-150°	28.7	1.4
150°-160°	17.8	0.9
160°-170°	10.0	0.5
170°-180°	3.2	0.2
<hr/>		
0°-30°	485.7	23.6
0°-40°	789.3	38.4
0°-60°	1350.1	65.7
0°-90°	1691.9	82.4
90°-120°	190.3	9.3
90°-150°	331.1	16.1
90°-180°	362.0	17.6
0°-180°	2054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	635	633	628	632	632	60
15°	619	618	605	595	588	175
25°	585	576	546	532	529	270
35°	528	514	479	460	452	330
45°	443	432	396	356	311	343
55°	345	340	300	238	214	309
65°	243	237	199	155	147	240
75°	135	131	105	84	81	143
85°	37	33	26	24	24	40
90°	2	9	15	19	21	4
95°	21	28	32	46	50	20
105°	48	50	72	96	102	50
115°	60	51	76	106	116	58
125°	55	49	66	97	109	49
135°	45	49	53	72	83	35
145°	37	42	46	50	53	23
155°	33	35	38	41	42	15
165°	33	34	35	37	37	9
175°	32	33	33	34	35	3
180°	32	32	32	32	32	



TEST NUMBER: P520583

CATALOG NUMBER: 4WSLA-50-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.2	634.2	634.2	634.2	634.2
2.5°	636.1	634.9	629.7	634.9	633.6
5°	634.9	632.9	627.8	632.3	631.6
7.5°	632.3	631.0	625.2	630.4	629.7
10°	629.1	627.1	622.0	625.9	623.3
12.5°	624.6	623.3	615.6	612.3	607.2
15°	618.8	618.1	605.3	595.0	588.5
17.5°	612.3	609.8	591.8	579.5	573.8
20°	604.6	600.8	577.0	562.8	557.0
22.5°	595.6	589.8	562.2	548.7	542.9
25°	584.7	576.3	545.5	531.9	528.7
27.5°	572.5	562.8	530.0	516.5	512.6
30°	559.6	547.4	512.6	499.8	492.7
32.5°	543.5	531.9	495.9	481.1	473.4
35°	528.1	513.9	478.6	459.9	452.2
37.5°	509.4	495.3	458.6	440.0	431.0
40°	489.5	475.3	439.3	417.5	405.9
42.5°	467.6	454.8	418.1	391.7	369.2
45°	443.2	432.2	395.6	356.3	310.7
47.5°	420.7	410.4	373.1	322.3	275.3
50°	396.9	387.2	349.9	290.1	251.5
52.5°	370.5	363.4	324.8	262.4	231.6
55°	345.4	340.3	299.7	238.0	213.6
57.5°	319.0	313.9	274.7	214.8	195.5
60°	294.6	289.5	249.6	194.3	178.8
62.5°	270.2	263.1	225.1	174.3	161.4
65°	243.1	237.3	199.4	155.0	146.7
67.5°	216.1	211.0	175.6	137.0	131.2
70°	189.1	184.6	151.2	119.6	116.4
72.5°	162.7	156.9	129.3	102.3	101.0
75°	135.1	130.6	104.8	83.6	81.0
77.5°	108.7	104.8	82.3	63.7	61.7
80°	83.0	79.1	59.2	46.3	48.2
82.5°	61.1	56.0	39.9	36.0	38.0
85°	37.3	32.8	25.7	24.4	24.4
87.5°	12.9	12.2	11.6	13.5	14.2
90°	1.9	9.0	15.4	19.3	20.6
92.5°	10.9	16.1	21.2	25.1	26.4
95°	20.6	27.7	31.5	46.3	50.2
97.5°	28.3	36.7	41.2	54.7	58.5
100°	36.0	43.7	57.9	65.0	69.5
102.5°	42.5	48.2	68.2	82.3	84.9
105°	48.2	50.2	72.0	96.5	102.3



TEST NUMBER: P520583

CATALOG NUMBER: 4WSLA-50-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.9	51.5	77.2	104.8	115.1
115°	59.8	50.8	76.5	105.5	115.8
117.5°	59.8	50.8	74.6	105.5	115.8
120°	58.5	51.5	72.0	104.2	115.1
122.5°	57.2	50.2	69.5	101.6	112.6
125°	55.3	48.9	66.3	97.1	109.3
127.5°	52.1	50.2	63.0	91.3	103.6
130°	49.5	50.8	59.2	85.5	97.8
132.5°	47.6	49.5	55.3	79.1	90.1
135°	45.0	48.9	53.4	72.0	83.0
137.5°	43.1	47.0	50.2	65.6	74.6
140°	41.2	45.7	47.0	57.2	65.0
142.5°	38.6	43.7	44.4	53.4	56.6
145°	36.7	42.5	46.3	49.5	52.7
147.5°	34.7	39.9	45.0	45.7	48.9
150°	34.1	37.3	43.1	43.7	45.0
152.5°	33.4	36.0	39.9	43.7	44.4
155°	33.4	35.4	38.0	41.2	41.8
157.5°	32.8	35.4	36.7	39.2	39.9
160°	32.8	34.7	36.0	38.0	38.6
162.5°	32.8	34.7	35.4	37.3	38.0
165°	32.8	34.1	35.4	36.7	36.7
167.5°	32.8	34.1	34.7	36.0	36.0
170°	32.8	33.4	34.7	35.4	35.4
172.5°	32.2	33.4	34.1	35.4	35.4
175°	32.2	32.8	33.4	34.1	34.7
177.5°	30.9	32.8	33.4	34.1	33.4
180°	31.5	31.5	31.5	31.5	31.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	52.7	50.8	74.6	101.6	110.0
110°	56.0	51.5	76.5	103.6	113.9



(END OF REPORT)