

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: P520584

Luminaire Tested: **4WSLA-50-L835-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520584  
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-L835-UPL8-UNV-U  
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

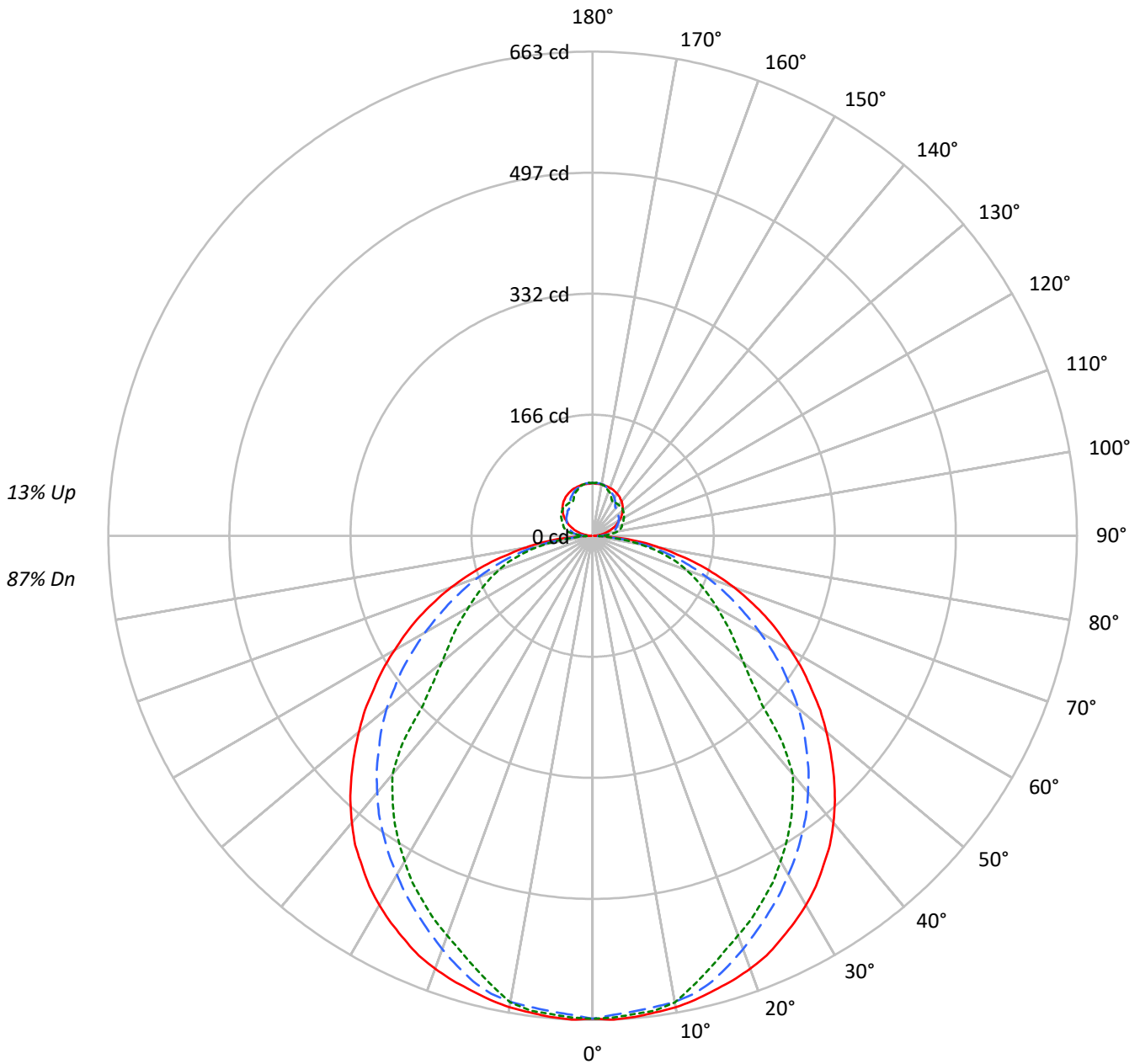
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2058.0 lumens  
Efficiency: N/A  
Efficacy: 131.9 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<sub>in</sub>): 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									
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°	3559	3559	3559
5°	3573	3532	3552
10°	3583	3541	3546
15°	3589	3520	3425
20°	3613	3450	3335
25°	3622	3384	3271
30°	3631	3329	3199
35°	3619	3282	3113
40°	3603	3222	2995
45°	3556	3150	2499
50°	3497	3083	2255
55°	3429	2982	2169
60°	3369	2847	2110
65°	3320	2727	2109
70°	3234	2620	2142
75°	3086	2493	2156
80°	2889	2241	2005
85°	2643	1587	1352



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.6	3.0
10°-20°	178.0	8.6
20°-30°	265.9	12.9
30°-40°	317.5	15.4
40°-50°	317.5	15.4
50°-60°	274.8	13.4
60°-70°	210.9	10.2
70°-80°	129.2	6.3
80°-90°	36.4	1.8
90°-100°	20.6	1.0
100°-110°	32.6	1.6
110°-120°	38.2	1.9
120°-130°	41.2	2.0
130°-140°	40.6	2.0
140°-150°	35.9	1.7
150°-160°	29.6	1.4
160°-170°	19.8	1.0
170°-180°	6.9	0.3
0°-30°	506.5	24.6
0°-40°	824.0	40.0
0°-60°	1416.2	68.8
0°-90°	1792.7	87.1
90°-120°	91.4	4.4
90°-150°	209.0	10.2
90°-180°	265.0	12.9
0°-180°	2058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	661	659	654	658	658	63
15°	644	643	632	620	615	182
25°	610	602	570	555	551	281
35°	551	537	500	482	474	345
45°	467	454	414	377	328	360
55°	365	357	318	254	231	328
65°	261	251	214	172	166	257
75°	148	141	120	104	104	157
85°	43	35	26	22	22	45
90°	2	7	10	13	14	3
95°	8	16	22	23	23	8
105°	22	23	32	38	40	23
115°	36	30	38	44	47	35
125°	48	39	44	50	52	43
135°	58	52	48	53	56	45
145°	65	62	54	53	55	40
155°	68	68	64	61	60	32
165°	70	71	70	70	70	20
175°	71	72	72	73	73	7
180°	72	72	72	72	72	



TEST NUMBER: P520584

CATALOG NUMBER: 4WSLA-50-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	661.3	661.3	661.3	661.3	661.3
2.5°	663.2	661.3	656.5	661.3	660.3
5°	661.3	659.4	653.7	658.4	657.5
7.5°	658.4	656.5	650.8	656.5	655.6
10°	655.6	653.7	648.0	651.8	648.9
12.5°	650.8	648.9	642.3	637.5	631.8
15°	644.2	643.2	631.8	620.4	614.7
17.5°	638.4	635.6	617.5	604.2	597.5
20°	630.8	626.1	602.3	587.1	582.3
22.5°	622.3	614.7	586.1	571.8	568.0
25°	609.9	602.3	569.9	554.7	550.9
27.5°	597.5	588.0	553.8	538.5	534.7
30°	584.2	570.9	535.7	521.4	514.8
32.5°	569.0	555.7	518.6	502.4	494.8
35°	550.9	536.6	499.5	481.5	473.8
37.5°	533.8	518.6	480.5	460.5	450.1
40°	512.9	497.6	458.6	436.7	426.3
42.5°	491.0	476.7	437.7	411.0	385.4
45°	467.2	453.9	413.9	376.8	328.3
47.5°	442.4	431.0	392.0	341.6	295.0
50°	417.7	406.3	368.2	308.3	269.3
52.5°	393.0	383.4	341.6	280.7	248.3
55°	365.4	356.8	317.8	254.0	231.2
57.5°	340.6	332.1	290.2	232.2	213.1
60°	313.0	305.4	264.5	210.3	196.0
62.5°	287.3	278.8	238.8	191.2	180.8
65°	260.7	251.2	214.1	172.2	165.6
67.5°	233.1	223.6	190.3	155.1	151.3
70°	205.5	197.9	166.5	138.0	136.1
72.5°	177.0	168.4	142.7	121.8	121.8
75°	148.4	140.8	119.9	103.7	103.7
77.5°	118.9	115.1	96.1	84.7	85.6
80°	93.2	88.5	72.3	64.7	64.7
82.5°	68.5	62.8	48.5	42.8	44.7
85°	42.8	35.2	25.7	21.9	21.9
87.5°	13.3	10.5	7.6	8.6	8.6
90°	1.9	6.7	10.5	13.3	14.3
92.5°	4.8	12.4	15.2	18.1	19.0
95°	7.6	16.2	21.9	22.8	22.8
97.5°	10.5	18.1	26.6	30.4	30.4
100°	14.3	19.0	28.5	34.3	35.2
102.5°	18.1	20.9	30.4	36.2	38.1
105°	21.9	22.8	32.4	38.1	40.0



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CATALOG NUMBER: 4WSLA-50-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.4	28.5	36.2	42.8	44.7
115°	36.2	30.4	38.1	43.8	46.6
117.5°	39.0	33.3	40.0	45.7	47.6
120°	41.9	35.2	40.9	47.6	49.5
122.5°	45.7	37.1	42.8	48.5	51.4
125°	48.5	39.0	43.8	50.4	52.3
127.5°	51.4	42.8	44.7	51.4	53.3
130°	53.3	46.6	45.7	52.3	54.2
132.5°	56.1	49.5	46.6	53.3	55.2
135°	58.0	52.3	48.5	53.3	56.1
137.5°	59.9	55.2	48.5	53.3	55.2
140°	61.8	58.0	49.5	53.3	55.2
142.5°	62.8	59.9	50.4	53.3	55.2
145°	64.7	61.8	54.2	53.3	55.2
147.5°	65.7	63.7	57.1	53.3	55.2
150°	66.6	65.7	59.9	54.2	54.2
152.5°	67.6	66.6	61.8	58.0	56.1
155°	68.5	67.6	63.7	60.9	59.9
157.5°	69.5	69.5	65.7	63.7	62.8
160°	69.5	70.4	67.6	65.7	64.7
162.5°	70.4	71.4	68.5	67.6	66.6
165°	70.4	71.4	69.5	69.5	69.5
167.5°	71.4	72.3	71.4	70.4	70.4
170°	71.4	72.3	71.4	71.4	71.4
172.5°	71.4	72.3	72.3	72.3	72.3
175°	71.4	72.3	72.3	73.3	73.3
177.5°	71.4	72.3	72.3	72.3	72.3
180°	72.3	72.3	72.3	72.3	72.3



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	25.7	24.7	33.3	40.0	41.9
110°	28.5	26.6	35.2	40.9	42.8



(END OF REPORT)