

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: P520587

Luminaire Tested: **4WSLA-50-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520587
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-L840-UPL8-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

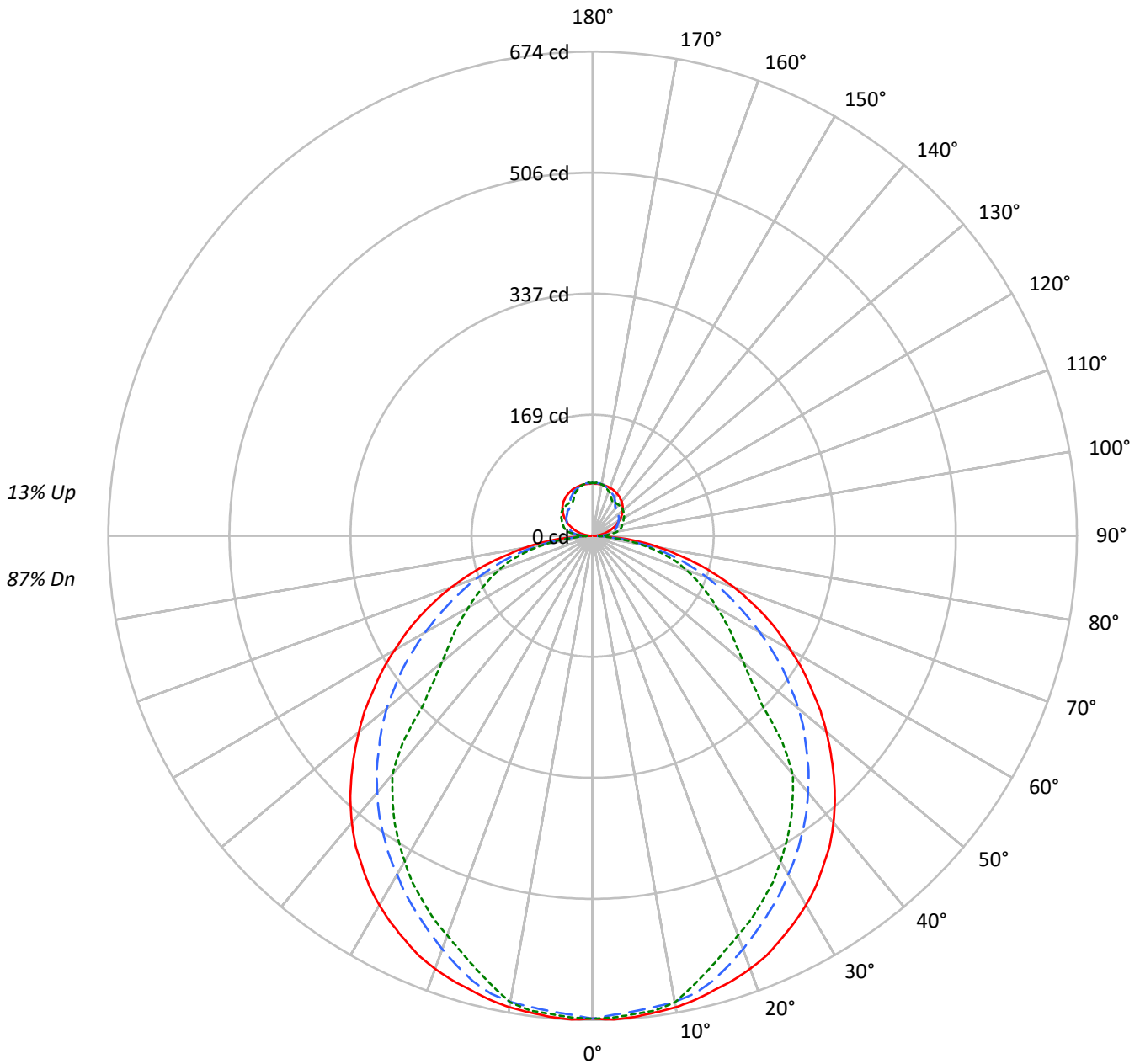
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2092.0 lumens
Efficiency: N/A
Efficacy: 134.1 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: P520587
CATALOG NUMBER: 4WSLA-50-L840-UPL8-UNV-U

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°	3618	3618	3618
5°	3632	3590	3611
10°	3642	3600	3605
15°	3648	3578	3481
20°	3673	3506	3390
25°	3682	3441	3325
30°	3691	3384	3252
35°	3679	3336	3165
40°	3662	3275	3044
45°	3615	3202	2540
50°	3555	3134	2292
55°	3485	3031	2205
60°	3425	2894	2144
65°	3375	2771	2143
70°	3287	2664	2176
75°	3138	2535	2192
80°	2938	2278	2039
85°	2686	1612	1371



TEST NUMBER: P520587

CATALOG NUMBER: 4WSLA-50-L840-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	3.0
10°-20°	180.9	8.6
20°-30°	270.3	12.9
30°-40°	322.7	15.4
40°-50°	322.7	15.4
50°-60°	279.3	13.4
60°-70°	214.4	10.2
70°-80°	131.4	6.3
80°-90°	37.0	1.8
90°-100°	20.9	1.0
100°-110°	33.2	1.6
110°-120°	38.8	1.9
120°-130°	41.9	2.0
130°-140°	41.3	2.0
140°-150°	36.5	1.7
150°-160°	30.0	1.4
160°-170°	20.1	1.0
170°-180°	7.0	0.3
0°-30°	514.9	24.6
0°-40°	837.6	40.0
0°-60°	1439.6	68.8
0°-90°	1822.3	87.1
90°-120°	92.9	4.4
90°-150°	212.5	10.2
90°-180°	270.0	12.9
0°-180°	2092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	672	670	664	669	668	64
15°	655	654	642	631	625	185
25°	620	612	579	564	560	286
35°	560	546	508	489	482	351
45°	475	461	421	383	334	366
55°	371	363	323	258	235	333
65°	265	255	218	175	168	262
75°	151	143	122	105	105	159
85°	44	36	26	22	22	45
90°	2	7	11	14	14	3
95°	8	16	22	23	23	8
105°	22	23	33	39	41	23
115°	37	31	39	44	47	36
125°	49	40	44	51	53	44
135°	59	53	49	54	57	46
145°	66	63	55	54	56	41
155°	70	69	65	62	61	32
165°	72	72	71	71	71	20
175°	72	74	74	74	74	7
180°	74	74	74	74	74	



TEST NUMBER: P520587

CATALOG NUMBER: 4WSLA-50-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	672.2	672.2	672.2	672.2	672.2
2.5°	674.1	672.2	667.4	672.2	671.2
5°	672.2	670.3	664.5	669.3	668.3
7.5°	669.3	667.4	661.6	667.4	666.4
10°	666.4	664.5	658.7	662.5	659.6
12.5°	661.6	659.6	652.9	648.0	642.2
15°	654.8	653.8	642.2	630.6	624.8
17.5°	649.0	646.1	627.7	614.2	607.4
20°	641.3	636.4	612.2	596.8	591.9
22.5°	632.6	624.8	595.8	581.3	577.4
25°	620.0	612.2	579.4	563.9	560.0
27.5°	607.4	597.7	562.9	547.4	543.6
30°	593.9	580.3	544.5	530.0	523.3
32.5°	578.4	564.8	527.1	510.7	502.9
35°	560.0	545.5	507.8	489.4	481.7
37.5°	542.6	527.1	488.4	468.1	457.5
40°	521.3	505.8	466.2	443.9	433.3
42.5°	499.1	484.6	444.9	417.8	391.7
45°	474.9	461.4	420.7	383.0	333.7
47.5°	449.8	438.1	398.5	347.2	299.8
50°	424.6	413.0	374.3	313.4	273.7
52.5°	399.5	389.8	347.2	285.3	252.4
55°	371.4	362.7	323.0	258.2	235.0
57.5°	346.3	337.6	295.0	236.0	216.7
60°	318.2	310.5	268.9	213.8	199.2
62.5°	292.1	283.4	242.8	194.4	183.8
65°	265.0	255.3	217.6	175.1	168.3
67.5°	237.0	227.3	193.4	157.7	153.8
70°	208.9	201.2	169.3	140.2	138.3
72.5°	179.9	171.2	145.1	123.8	123.8
75°	150.9	143.1	121.9	105.4	105.4
77.5°	120.9	117.0	97.7	86.1	87.0
80°	94.8	90.0	73.5	65.8	65.8
82.5°	69.6	63.8	49.3	43.5	45.5
85°	43.5	35.8	26.1	22.2	22.2
87.5°	13.5	10.6	7.7	8.7	8.7
90°	1.9	6.8	10.6	13.5	14.5
92.5°	4.8	12.6	15.5	18.4	19.3
95°	7.7	16.4	22.2	23.2	23.2
97.5°	10.6	18.4	27.1	31.0	31.0
100°	14.5	19.3	29.0	34.8	35.8
102.5°	18.4	21.3	31.0	36.8	38.7
105°	22.2	23.2	32.9	38.7	40.6



TEST NUMBER: P520587

CATALOG NUMBER: 4WSLA-50-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.9	29.0	36.8	43.5	45.5
115°	36.8	31.0	38.7	44.5	47.4
117.5°	39.7	33.9	40.6	46.4	48.4
120°	42.6	35.8	41.6	48.4	50.3
122.5°	46.4	37.7	43.5	49.3	52.2
125°	49.3	39.7	44.5	51.3	53.2
127.5°	52.2	43.5	45.5	52.2	54.2
130°	54.2	47.4	46.4	53.2	55.1
132.5°	57.1	50.3	47.4	54.2	56.1
135°	59.0	53.2	49.3	54.2	57.1
137.5°	60.9	56.1	49.3	54.2	56.1
140°	62.9	59.0	50.3	54.2	56.1
142.5°	63.8	60.9	51.3	54.2	56.1
145°	65.8	62.9	55.1	54.2	56.1
147.5°	66.7	64.8	58.0	54.2	56.1
150°	67.7	66.7	60.9	55.1	55.1
152.5°	68.7	67.7	62.9	59.0	57.1
155°	69.6	68.7	64.8	61.9	60.9
157.5°	70.6	70.6	66.7	64.8	63.8
160°	70.6	71.6	68.7	66.7	65.8
162.5°	71.6	72.5	69.6	68.7	67.7
165°	71.6	72.5	70.6	70.6	70.6
167.5°	72.5	73.5	72.5	71.6	71.6
170°	72.5	73.5	72.5	72.5	72.5
172.5°	72.5	73.5	73.5	73.5	73.5
175°	72.5	73.5	73.5	74.5	74.5
177.5°	72.5	73.5	73.5	73.5	73.5
180°	73.5	73.5	73.5	73.5	73.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	26.1	25.1	33.9	40.6	42.6
110°	29.0	27.1	35.8	41.6	43.5



(END OF REPORT)