

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: P520585

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

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-50-L840-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

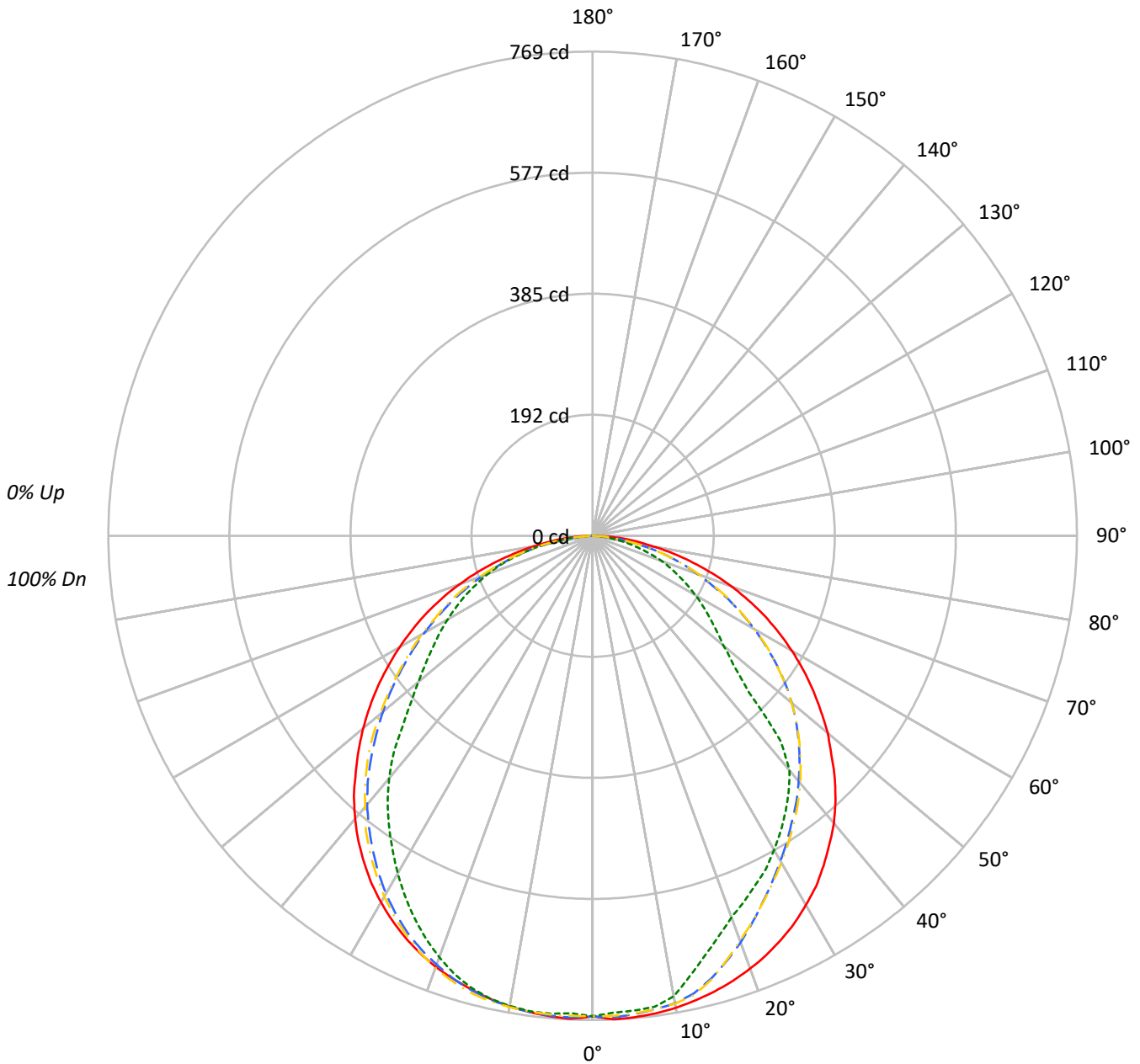
Lumens per Lamp: N/A
Luminaire Lumens: 2047.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4107	4107	4107	4107
5°	4147	4089	4140	4116
10°	4161	4058	4150	4143
15°	4174	3843	4156	4142
20°	4190	3692	4174	4080
25°	4203	3632	4181	3977
30°	4208	3580	4177	3847
35°	4201	3510	4158	3704
40°	4187	3417	4121	3532
45°	4141	2655	4048	3240
50°	4078	2272	3980	3023
55°	4007	2128	3902	2908
60°	3931	2031	3812	2860
65°	3837	1924	3707	2826
70°	3685	1830	3530	2782
75°	3431	1609	3269	2647
80°	3044	1345	2854	2247
85°	2884	963	2526	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.5
10°-20°	206.8	10.1
20°-30°	309.0	15.1
30°-40°	367.8	18.0
40°-50°	367.7	18.0
50°-60°	316.4	15.5
60°-70°	238.1	11.6
70°-80°	135.7	6.6
80°-90°	33.0	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	588.3	28.7
0°-40°	956.1	46.7
0°-60°	1640.2	80.1
0°-90°	2047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2047.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	763	763	763	763	763	
5°	768	757	766	762	768	73
15°	749	690	746	743	749	212
25°	708	612	704	670	708	326
35°	639	534	633	564	639	400
45°	544	349	532	426	544	419
55°	427	227	416	310	427	382
65°	301	151	291	222	301	298
75°	165	77	157	127	165	175
85°	47	16	41	21	47	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1
2.5°	768.8	761.8	765.9	764.7	758.1	760.6	763.1	760.6	768.0	761.4	765.9
5°	767.6	760.2	762.6	760.2	756.9	757.7	761.4	759.0	766.3	759.4	765.1
7.5°	765.1	756.1	758.6	757.3	754.5	754.9	758.6	756.5	763.1	756.5	763.1
10°	761.4	752.0	754.0	748.7	742.6	747.1	754.5	752.4	759.4	752.0	759.4
12.5°	755.7	746.3	744.2	726.6	715.6	724.2	746.7	746.7	753.2	746.3	754.0
15°	749.1	738.9	727.8	701.2	689.8	698.4	729.5	740.1	745.9	738.9	746.7
17.5°	741.4	729.5	708.2	677.1	666.4	675.0	707.0	730.3	737.7	730.3	737.3
20°	731.5	717.6	687.3	651.7	644.7	652.5	684.5	718.4	728.7	719.7	724.6
22.5°	720.9	704.1	664.0	632.1	628.8	633.7	662.8	703.7	717.2	707.8	711.1
25°	707.8	688.1	640.7	614.0	611.6	614.5	641.5	686.5	704.1	694.3	695.5
27.5°	693.9	672.6	618.5	598.9	596.4	597.7	620.2	667.3	689.0	679.1	677.1
30°	677.1	654.2	596.4	578.4	576.0	580.5	599.7	647.6	672.2	662.4	656.2
32.5°	660.3	634.1	574.7	560.8	555.9	560.0	578.4	627.1	653.8	643.5	633.3
35°	639.4	612.8	552.2	538.3	534.2	538.7	557.1	605.9	632.9	622.6	608.7
37.5°	617.7	590.3	531.8	519.1	511.7	517.0	535.4	583.8	611.2	600.5	583.3
40°	596.0	566.6	508.8	495.7	486.3	494.1	512.9	560.4	586.6	576.8	557.1
42.5°	570.7	542.8	486.3	467.9	441.3	466.3	488.8	537.1	561.2	551.8	528.1
45°	544.0	517.4	462.6	418.0	348.8	422.1	464.2	512.5	531.8	522.8	497.0
47.5°	513.8	491.2	438.4	370.5	303.3	374.6	439.2	489.2	503.9	494.1	465.4
50°	487.1	465.0	413.0	330.4	271.4	334.9	412.6	463.0	475.3	466.3	434.3
52.5°	456.8	437.6	385.6	294.7	247.7	299.2	384.8	436.0	445.8	435.2	403.2
55°	427.0	409.8	356.6	263.2	226.8	267.3	355.7	408.1	415.9	403.6	370.5
57.5°	396.7	381.1	326.7	235.0	207.5	239.5	328.7	379.5	384.8	369.2	339.0
60°	365.2	352.1	296.4	210.0	188.7	213.7	295.6	350.8	354.1	337.3	308.3
62.5°	333.6	321.8	266.1	187.1	169.5	189.5	268.1	320.5	322.6	306.6	276.7
65°	301.3	290.2	236.6	162.9	151.1	167.0	238.7	289.0	291.1	273.0	246.0
67.5°	267.7	258.7	205.1	144.5	133.5	145.7	209.2	257.1	258.3	240.7	216.1
70°	234.2	226.4	177.3	124.4	116.3	124.9	180.1	221.9	224.3	205.5	185.9
72.5°	199.8	193.6	150.2	103.6	96.2	103.6	151.9	189.5	191.2	175.6	156.4
75°	165.0	160.5	122.8	83.1	77.4	82.7	123.6	157.2	157.2	142.5	127.3
77.5°	131.4	128.1	94.2	63.9	59.8	63.0	94.6	124.4	123.6	112.2	100.3
80°	98.2	95.8	67.5	46.3	43.4	45.0	67.5	92.1	92.1	83.9	69.6
82.5°	70.4	67.5	44.6	30.3	28.7	29.5	43.8	64.3	65.5	59.4	47.1
85°	46.7	40.1	24.2	16.8	15.6	16.0	22.9	37.3	40.9	34.4	24.6
87.5°	20.5	13.5	6.1	2.5	1.2	1.6	4.9	11.9	15.6	10.2	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	763.1	763.1	763.1	763.1	763.1	763.1
2.5°	765.5	759.0	761.4	763.1	761.4	768.8
5°	764.7	761.8	761.4	763.5	760.2	767.6
7.5°	763.5	761.8	761.4	762.2	758.1	765.1
10°	760.6	758.1	759.0	760.2	754.9	761.4
12.5°	755.3	752.8	753.2	757.3	750.0	755.7
15°	746.3	743.4	746.3	750.8	744.2	749.1
17.5°	734.4	729.9	734.8	741.8	736.9	741.4
20°	719.3	712.3	717.6	730.3	725.8	731.5
22.5°	700.8	692.2	697.6	716.0	714.7	720.9
25°	680.0	669.7	677.1	699.6	702.1	707.8
27.5°	656.6	645.2	655.0	681.6	687.3	693.9
30°	631.2	619.0	630.4	661.5	670.1	677.1
32.5°	605.0	591.5	604.6	639.0	651.3	660.3
35°	577.6	563.7	578.4	615.7	630.4	639.4
37.5°	548.1	534.6	550.6	591.1	608.7	617.7
40°	517.8	502.7	520.7	562.1	585.4	596.0
42.5°	486.7	467.9	490.0	534.6	560.0	570.7
45°	451.9	425.7	455.6	505.6	532.2	544.0
47.5°	417.1	390.9	421.2	474.5	503.1	513.8
50°	383.6	361.1	385.2	440.5	473.6	487.1
52.5°	352.9	334.5	354.9	407.3	443.3	456.8
55°	324.2	309.9	326.7	374.6	411.4	427.0
57.5°	297.2	288.2	299.7	343.5	381.9	396.7
60°	271.8	265.7	273.9	312.8	347.1	365.2
62.5°	246.8	243.6	249.7	280.4	314.8	333.6
65°	222.7	221.9	225.2	252.2	280.8	301.3
67.5°	198.5	198.1	200.2	222.3	247.7	267.7
70°	174.4	176.8	175.6	189.9	214.5	234.2
72.5°	149.8	153.5	151.5	160.5	184.2	199.8
75°	122.4	127.3	123.2	133.5	148.2	165.0
77.5°	94.2	99.5	94.6	103.6	119.5	131.4
80°	67.5	72.5	68.4	75.3	89.2	98.2
82.5°	42.6	46.3	43.0	49.9	63.9	70.4
85°	18.8	20.9	21.7	27.0	39.3	46.7
87.5°	0.8	0.4	0.8	5.3	13.9	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)