

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: P520586

Luminaire Tested: **4WSLA-50-L840-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520586
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-L840-UPL15-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

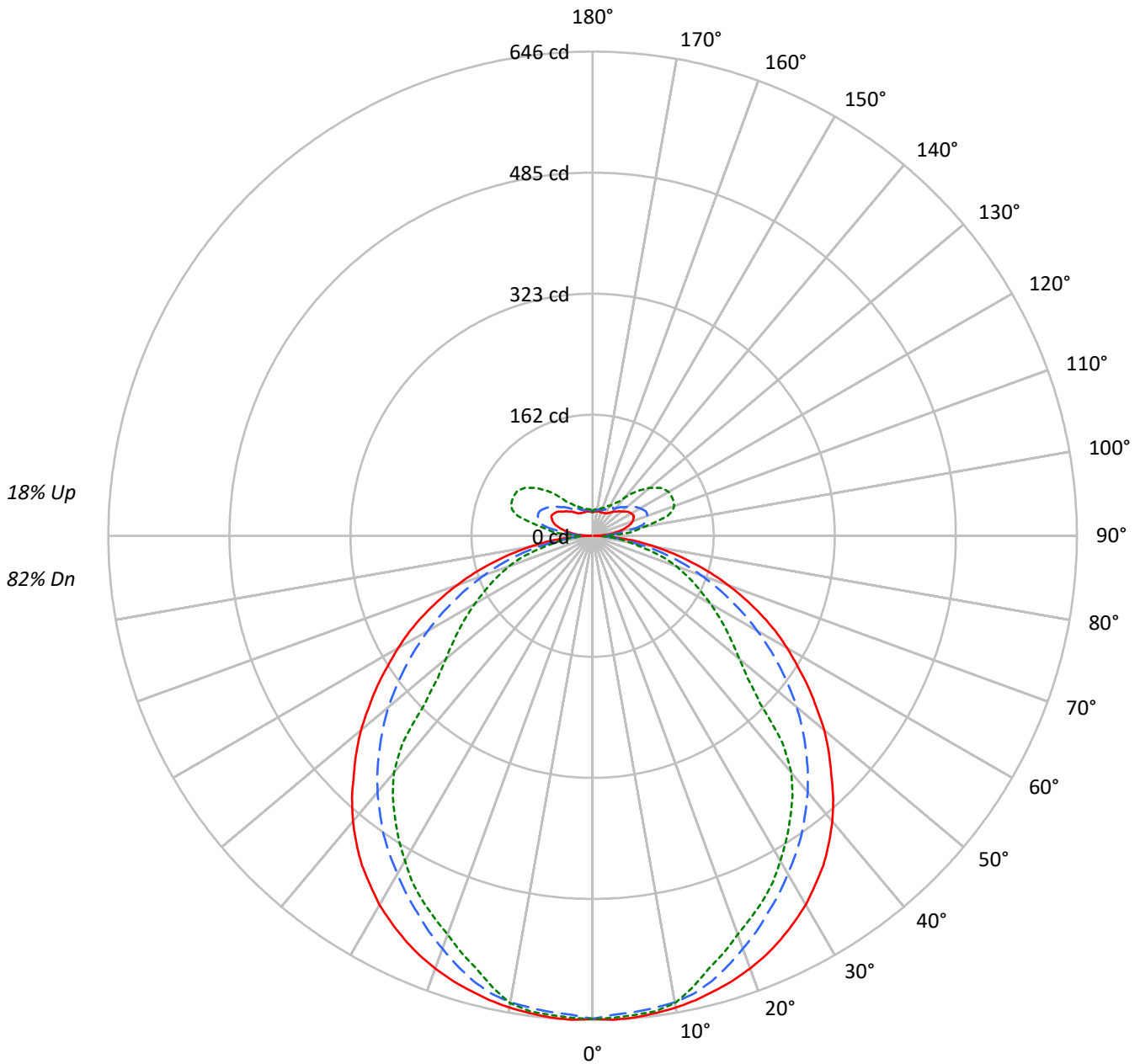
Lumens per Lamp: N/A
Luminaire Lumens: 2087.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				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	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3468	3468	3468
5°	3485	3446	3467
10°	3493	3454	3461
15°	3503	3427	3332
20°	3518	3357	3242
25°	3528	3291	3190
30°	3534	3237	3111
35°	3526	3194	3019
40°	3495	3136	2897
45°	3427	3059	2403
50°	3376	2977	2139
55°	3293	2858	2036
60°	3222	2730	1956
65°	3145	2580	1897
70°	3023	2417	1862
75°	2853	2215	1711
80°	2613	1863	1519
85°	2340	1612	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	2.9
10°-20°	173.5	8.3
20°-30°	258.9	12.4
30°-40°	308.5	14.8
40°-50°	306.9	14.7
50°-60°	263.0	12.6
60°-70°	198.1	9.5
70°-80°	114.7	5.5
80°-90°	34.5	1.7
90°-100°	37.0	1.8
100°-110°	76.0	3.6
110°-120°	80.4	3.9
120°-130°	67.0	3.2
130°-140°	46.8	2.2
140°-150°	29.1	1.4
150°-160°	18.1	0.9
160°-170°	10.2	0.5
170°-180°	3.3	0.2
0°-30°	493.5	23.6
0°-40°	802.0	38.4
0°-60°	1371.8	65.7
0°-90°	1719.1	82.4
90°-120°	193.4	9.3
90°-150°	336.4	16.1
90°-180°	368.0	17.6
0°-180°	2087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	645	643	638	642	642	61
15°	629	628	615	604	598	178
25°	594	586	554	540	537	274
35°	537	522	486	467	460	335
45°	450	439	402	362	316	348
55°	351	346	305	242	217	314
65°	247	241	203	158	149	244
75°	137	133	106	85	82	145
85°	38	33	26	25	25	40
90°	2	9	16	20	21	4
95°	21	28	32	47	51	20
105°	49	51	73	98	104	51
115°	61	52	78	107	118	59
125°	56	50	67	99	111	50
135°	46	50	54	73	84	36
145°	37	43	47	50	54	24
155°	34	36	39	42	42	16
165°	33	35	36	37	37	9
175°	33	33	34	35	35	3
180°	32	32	32	32	32	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.4	644.4	644.4	644.4	644.4
2.5°	646.4	645.1	639.8	645.1	643.8
5°	645.1	643.1	637.9	642.4	641.8
7.5°	642.4	641.1	635.3	640.5	639.8
10°	639.2	637.2	632.0	635.9	633.3
12.5°	634.6	633.3	625.5	622.2	617.0
15°	628.7	628.1	615.0	604.5	598.0
17.5°	622.2	619.6	601.3	588.9	583.0
20°	614.3	610.4	586.2	571.9	566.0
22.5°	605.2	599.3	571.2	557.5	551.6
25°	594.1	585.6	554.2	540.5	537.2
27.5°	581.7	571.9	538.5	524.8	520.9
30°	568.6	556.2	520.9	507.8	500.6
32.5°	552.3	540.5	503.9	488.9	481.0
35°	536.6	522.2	486.2	467.3	459.5
37.5°	517.6	503.2	466.0	447.0	437.9
40°	497.4	483.0	446.4	424.2	412.4
42.5°	475.1	462.1	424.8	398.0	375.1
45°	450.3	439.2	401.9	362.1	315.7
47.5°	427.4	417.0	379.1	327.4	279.7
50°	403.2	393.4	355.5	294.8	255.5
52.5°	376.4	369.3	330.0	266.7	235.3
55°	351.0	345.7	304.6	241.8	217.0
57.5°	324.2	318.9	279.1	218.3	198.7
60°	299.3	294.1	253.6	197.4	181.7
62.5°	274.5	267.3	228.7	177.1	164.0
65°	247.0	241.2	202.6	157.5	149.0
67.5°	219.6	214.4	178.4	139.2	133.3
70°	192.1	187.6	153.6	121.6	118.3
72.5°	165.4	159.5	131.4	103.9	102.6
75°	137.2	132.7	106.5	85.0	82.3
77.5°	110.5	106.5	83.7	64.7	62.7
80°	84.3	80.4	60.1	47.1	49.0
82.5°	62.1	56.9	40.5	36.6	38.6
85°	37.9	33.3	26.1	24.8	24.8
87.5°	13.1	12.4	11.8	13.7	14.4
90°	2.0	9.1	15.7	19.6	20.9
92.5°	11.1	16.3	21.6	25.5	26.8
95°	20.9	28.1	32.0	47.1	51.0
97.5°	28.8	37.3	41.8	55.6	59.5
100°	36.6	44.4	58.8	66.0	70.6
102.5°	43.1	49.0	69.3	83.7	86.3
105°	49.0	51.0	73.2	98.0	103.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.8	52.3	78.4	106.5	117.0
115°	60.8	51.6	77.8	107.2	117.6
117.5°	60.8	51.6	75.8	107.2	117.6
120°	59.5	52.3	73.2	105.9	117.0
122.5°	58.2	51.0	70.6	103.3	114.4
125°	56.2	49.7	67.3	98.7	111.1
127.5°	52.9	51.0	64.0	92.8	105.2
130°	50.3	51.6	60.1	86.9	99.3
132.5°	48.4	50.3	56.2	80.4	91.5
135°	45.7	49.7	54.2	73.2	84.3
137.5°	43.8	47.7	51.0	66.7	75.8
140°	41.8	46.4	47.7	58.2	66.0
142.5°	39.2	44.4	45.1	54.2	57.5
145°	37.3	43.1	47.1	50.3	53.6
147.5°	35.3	40.5	45.7	46.4	49.7
150°	34.6	37.9	43.8	44.4	45.7
152.5°	34.0	36.6	40.5	44.4	45.1
155°	34.0	35.9	38.6	41.8	42.5
157.5°	33.3	35.9	37.3	39.9	40.5
160°	33.3	35.3	36.6	38.6	39.2
162.5°	33.3	35.3	35.9	37.9	38.6
165°	33.3	34.6	35.9	37.3	37.3
167.5°	33.3	34.6	35.3	36.6	36.6
170°	33.3	34.0	35.3	35.9	35.9
172.5°	32.7	34.0	34.6	35.9	35.9
175°	32.7	33.3	34.0	34.6	35.3
177.5°	31.4	33.3	34.0	34.6	34.0
180°	32.0	32.0	32.0	32.0	32.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	53.6	51.6	75.8	103.3	111.8
110°	56.9	52.3	77.8	105.2	115.7



(END OF REPORT)