

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: P520589

Luminaire Tested: **4WSLA-50-L850-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520589
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-L850-UPL15-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

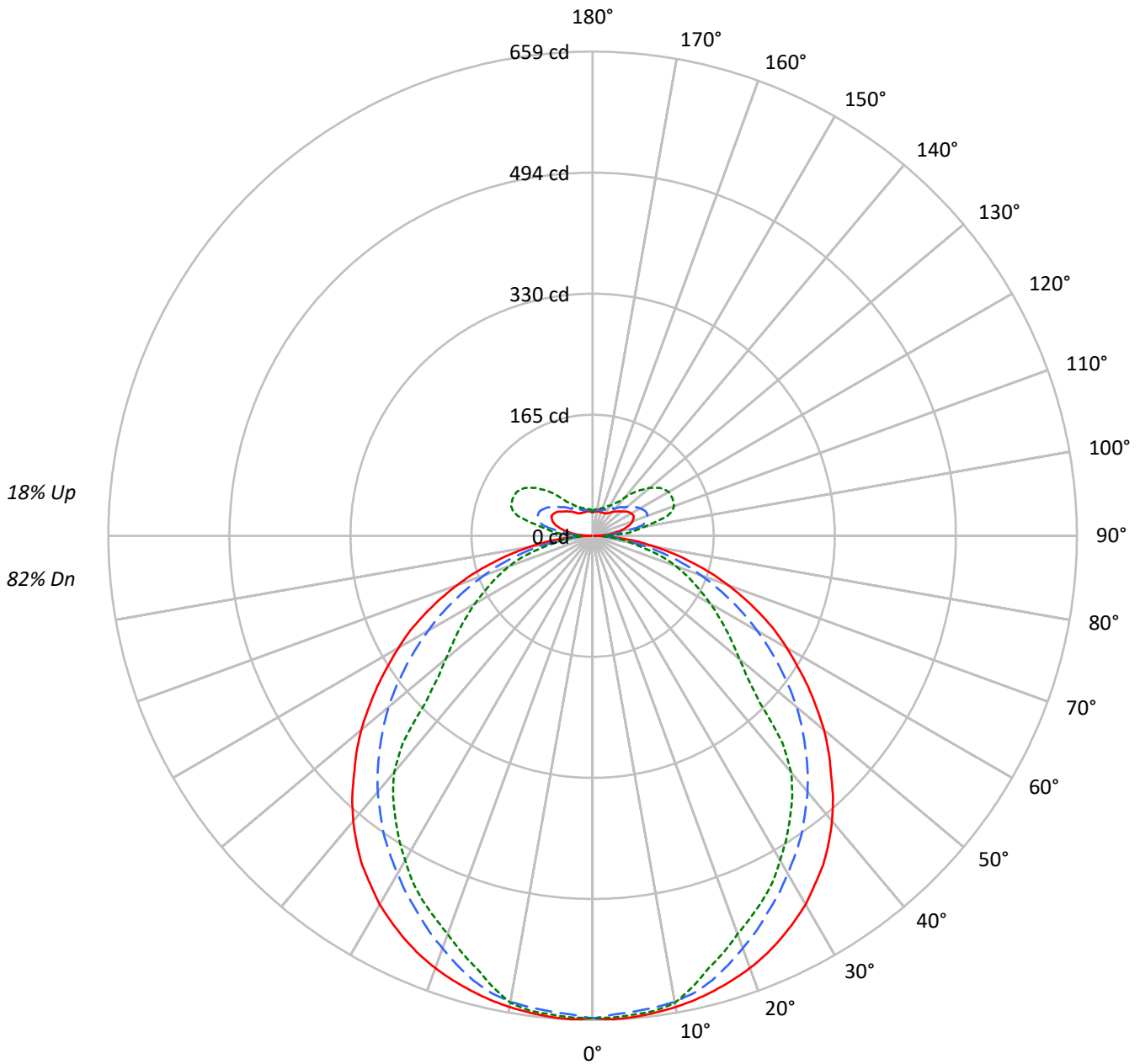
Lumens per Lamp: N/A
Luminaire Lumens: 2127.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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									
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°	3535	3535	3535
5°	3552	3512	3534
10°	3560	3520	3527
15°	3570	3492	3396
20°	3586	3422	3304
25°	3596	3354	3251
30°	3601	3299	3171
35°	3593	3256	3077
40°	3561	3196	2953
45°	3493	3118	2449
50°	3441	3033	2180
55°	3356	2913	2075
60°	3284	2781	1993
65°	3207	2630	1934
70°	3081	2463	1898
75°	2909	2258	1745
80°	2662	1900	1550
85°	2384	1643	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	2.9
10°-20°	176.8	8.3
20°-30°	263.9	12.4
30°-40°	314.4	14.8
40°-50°	312.7	14.7
50°-60°	268.0	12.6
60°-70°	201.9	9.5
70°-80°	116.9	5.5
80°-90°	35.1	1.7
90°-100°	37.7	1.8
100°-110°	77.5	3.6
110°-120°	81.9	3.9
120°-130°	68.3	3.2
130°-140°	47.7	2.2
140°-150°	29.7	1.4
150°-160°	18.4	0.9
160°-170°	10.4	0.5
170°-180°	3.3	0.2
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0°-30°	502.9	23.6
0°-40°	817.3	38.4
0°-60°	1398.1	65.7
0°-90°	1752.0	82.4
90°-120°	197.1	9.3
90°-150°	342.9	16.1
90°-180°	375.0	17.6
0°-180°	2127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	657	655	650	655	654	63
15°	641	640	627	616	610	181
25°	606	597	565	551	548	279
35°	547	532	496	476	468	342
45°	459	448	410	369	322	355
55°	358	352	310	246	221	320
65°	252	246	206	160	152	249
75°	140	135	109	87	84	148
85°	39	34	27	25	25	41
90°	2	9	16	20	21	4
95°	21	29	33	48	52	20
105°	50	52	75	100	106	52
115°	62	53	79	109	120	60
125°	57	51	69	101	113	51
135°	47	51	55	75	86	36
145°	38	44	48	51	55	24
155°	35	37	39	43	43	16
165°	34	35	37	38	38	10
175°	33	34	35	35	36	3
180°	33	33	33	33	33	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.8	656.8	656.8	656.8	656.8
2.5°	658.8	657.4	652.1	657.4	656.1
5°	657.4	655.4	650.1	654.8	654.1
7.5°	654.8	653.4	647.4	652.8	652.1
10°	651.4	649.4	644.1	648.1	645.4
12.5°	646.8	645.4	637.4	634.1	628.8
15°	640.8	640.1	626.8	616.1	609.5
17.5°	634.1	631.4	612.8	600.1	594.1
20°	626.1	622.1	597.5	582.8	576.8
22.5°	616.8	610.8	582.2	568.2	562.2
25°	605.5	596.8	564.8	550.9	547.5
27.5°	592.8	582.8	548.9	534.9	530.9
30°	579.5	566.8	530.9	517.5	510.2
32.5°	562.8	550.9	513.6	498.2	490.2
35°	546.9	532.2	495.6	476.2	468.3
37.5°	527.5	512.9	474.9	455.6	446.3
40°	506.9	492.2	454.9	432.3	420.3
42.5°	484.2	470.9	433.0	405.6	382.3
45°	458.9	447.6	409.6	369.0	321.7
47.5°	435.6	425.0	386.3	333.7	285.1
50°	411.0	401.0	362.3	300.4	260.4
52.5°	383.7	376.3	336.4	271.8	239.8
55°	357.7	352.4	310.4	246.5	221.1
57.5°	330.4	325.0	284.4	222.5	202.5
60°	305.1	299.7	258.4	201.2	185.2
62.5°	279.8	272.4	233.1	180.5	167.2
65°	251.8	245.8	206.5	160.5	151.9
67.5°	223.8	218.5	181.8	141.9	135.9
70°	195.8	191.2	156.5	123.9	120.6
72.5°	168.5	162.5	133.9	105.9	104.6
75°	139.9	135.2	108.6	86.6	83.9
77.5°	112.6	108.6	85.3	65.9	63.9
80°	85.9	81.9	61.3	48.0	50.0
82.5°	63.3	57.9	41.3	37.3	39.3
85°	38.6	34.0	26.6	25.3	25.3
87.5°	13.3	12.7	12.0	14.0	14.7
90°	2.0	9.3	16.0	20.0	21.3
92.5°	11.3	16.7	22.0	26.0	27.3
95°	21.3	28.6	32.6	48.0	52.0
97.5°	29.3	38.0	42.6	56.6	60.6
100°	37.3	45.3	59.9	67.3	71.9
102.5°	44.0	50.0	70.6	85.3	87.9
105°	50.0	52.0	74.6	99.9	105.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.9	53.3	79.9	108.6	119.2
115°	61.9	52.6	79.3	109.2	119.9
117.5°	61.9	52.6	77.3	109.2	119.9
120°	60.6	53.3	74.6	107.9	119.2
122.5°	59.3	52.0	71.9	105.2	116.6
125°	57.3	50.6	68.6	100.6	113.2
127.5°	54.0	52.0	65.3	94.6	107.2
130°	51.3	52.6	61.3	88.6	101.2
132.5°	49.3	51.3	57.3	81.9	93.3
135°	46.6	50.6	55.3	74.6	85.9
137.5°	44.6	48.6	52.0	67.9	77.3
140°	42.6	47.3	48.6	59.3	67.3
142.5°	40.0	45.3	46.0	55.3	58.6
145°	38.0	44.0	48.0	51.3	54.6
147.5°	36.0	41.3	46.6	47.3	50.6
150°	35.3	38.6	44.6	45.3	46.6
152.5°	34.6	37.3	41.3	45.3	46.0
155°	34.6	36.6	39.3	42.6	43.3
157.5°	34.0	36.6	38.0	40.6	41.3
160°	34.0	36.0	37.3	39.3	40.0
162.5°	34.0	36.0	36.6	38.6	39.3
165°	34.0	35.3	36.6	38.0	38.0
167.5°	34.0	35.3	36.0	37.3	37.3
170°	34.0	34.6	36.0	36.6	36.6
172.5°	33.3	34.6	35.3	36.6	36.6
175°	33.3	34.0	34.6	35.3	36.0
177.5°	32.0	34.0	34.6	35.3	34.6
180°	32.6	32.6	32.6	32.6	32.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	54.6	52.6	77.3	105.2	113.9
110°	57.9	53.3	79.3	107.2	117.9



(END OF REPORT)