

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: P520475

Luminaire Tested: **4WSLA-100-L935-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520475
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-100-L935-UPL15-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

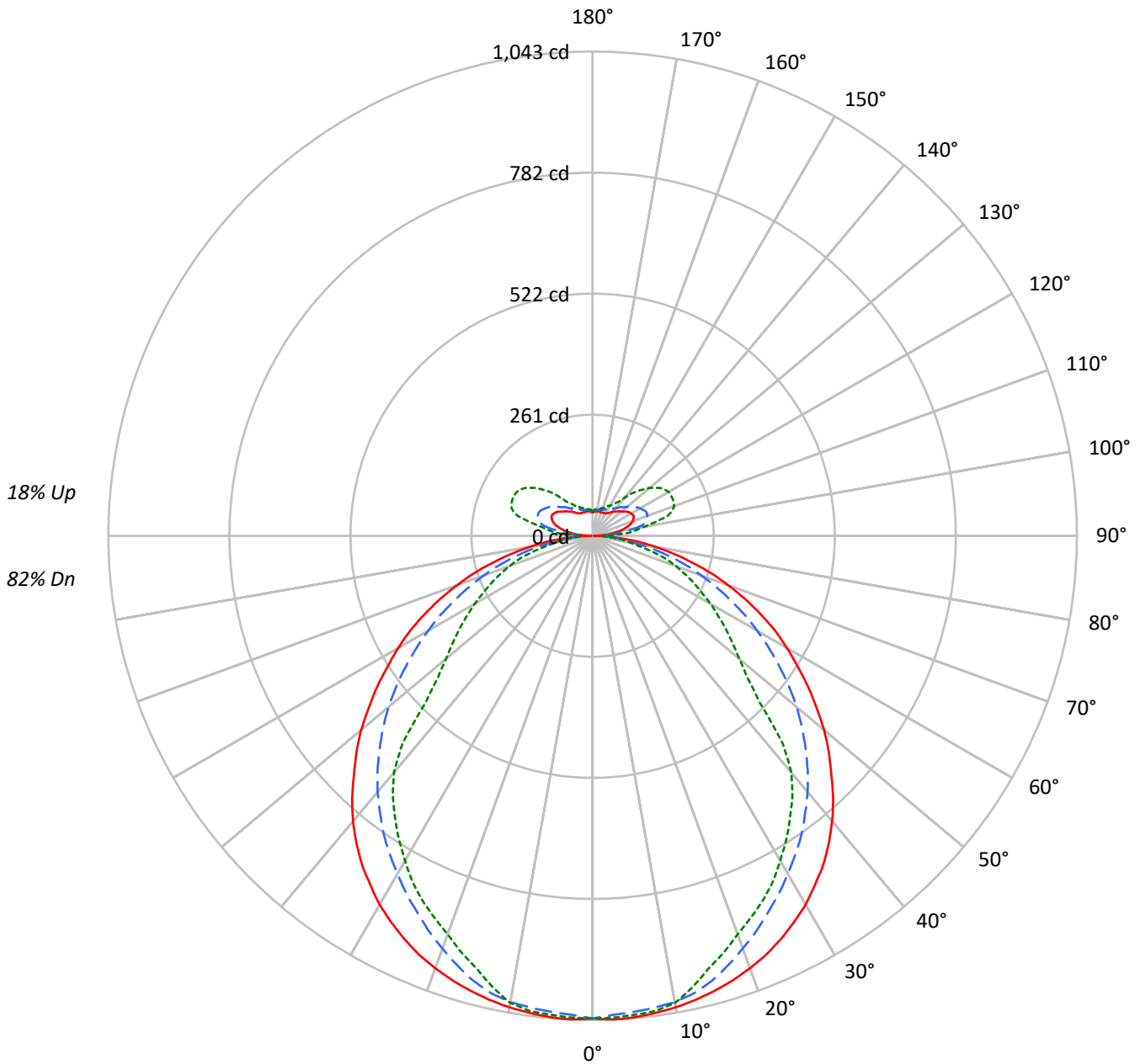
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3368.0 lumens
Efficiency: N/A
Efficacy: 106.6 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): 31.6
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°	5597	5597	5597
5°	5624	5561	5595
10°	5637	5574	5585
15°	5653	5530	5377
20°	5678	5419	5231
25°	5693	5311	5149
30°	5702	5224	5021
35°	5689	5156	4872
40°	5639	5061	4676
45°	5531	4937	3877
50°	5449	4804	3453
55°	5315	4612	3286
60°	5200	4405	3156
65°	5077	4164	3063
70°	4880	3901	3004
75°	4606	3575	2764
80°	4218	3006	2452
85°	3779	2606	2476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	2.9
10°-20°	280.0	8.3
20°-30°	417.8	12.4
30°-40°	497.8	14.8
40°-50°	495.2	14.7
50°-60°	424.4	12.6
60°-70°	319.6	9.5
70°-80°	185.1	5.5
80°-90°	55.6	1.7
90°-100°	59.7	1.8
100°-110°	122.7	3.6
110°-120°	129.7	3.9
120°-130°	108.2	3.2
130°-140°	75.6	2.2
140°-150°	47.0	1.4
150°-160°	29.2	0.9
160°-170°	16.4	0.5
170°-180°	5.3	0.2
0°-30°	796.4	23.6
0°-40°	1294.2	38.4
0°-60°	2213.8	65.7
0°-90°	2774.2	82.4
90°-120°	312.1	9.3
90°-150°	542.9	16.1
90°-180°	594.0	17.6
0°-180°	3368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1041	1038	1029	1037	1036	99
15°	1015	1014	992	976	965	287
25°	959	945	894	872	867	442
35°	866	843	785	754	742	541
45°	727	709	649	584	509	562
55°	566	558	492	390	350	506
65°	399	389	327	254	240	394
75°	222	214	172	137	133	235
85°	61	54	42	40	40	65
90°	3	15	25	32	34	6
95°	34	45	52	76	82	32
105°	79	82	118	158	168	82
115°	98	83	126	173	190	96
125°	91	80	109	159	179	81
135°	74	80	88	118	136	58
145°	60	70	76	81	86	38
155°	55	58	62	68	69	25
165°	54	56	58	60	60	15
175°	53	54	55	56	57	5
180°	52	52	52	52	52	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.9	1039.9	1039.9	1039.9	1039.9
2.5°	1043.1	1041.0	1032.6	1041.0	1038.9
5°	1041.0	1037.8	1029.4	1036.8	1035.7
7.5°	1036.8	1034.7	1025.2	1033.6	1032.6
10°	1031.5	1028.3	1019.9	1026.2	1022.0
12.5°	1024.1	1022.0	1009.4	1004.1	995.6
15°	1014.6	1013.6	992.5	975.6	965.1
17.5°	1004.1	999.9	970.3	950.3	940.8
20°	991.4	985.1	946.1	922.9	913.4
22.5°	976.7	967.2	921.8	899.7	890.2
25°	958.7	945.0	894.4	872.2	867.0
27.5°	938.7	922.9	869.1	846.9	840.6
30°	917.6	897.6	840.6	819.5	807.9
32.5°	891.2	872.2	813.2	788.9	776.3
35°	865.9	842.7	784.7	754.1	741.5
37.5°	835.3	812.1	752.0	721.4	706.7
40°	802.6	779.4	720.4	684.5	665.5
42.5°	766.8	745.7	685.6	642.3	605.4
45°	726.7	708.8	648.6	584.3	509.4
47.5°	689.8	672.9	611.7	528.4	451.4
50°	650.8	634.9	573.8	475.7	412.4
52.5°	607.5	595.9	532.6	430.3	379.7
55°	566.4	557.9	491.5	390.2	350.2
57.5°	523.1	514.7	450.4	352.3	320.6
60°	483.1	474.6	409.2	318.5	293.2
62.5°	443.0	431.4	369.1	285.8	264.7
65°	398.7	389.2	327.0	254.2	240.5
67.5°	354.4	345.9	287.9	224.7	215.2
70°	310.1	302.7	247.9	196.2	190.9
72.5°	266.8	257.3	212.0	167.7	165.6
75°	221.5	214.1	171.9	137.1	132.9
77.5°	178.2	171.9	135.0	104.4	101.3
80°	136.1	129.7	97.0	75.9	79.1
82.5°	100.2	91.8	65.4	59.1	62.2
85°	61.2	53.8	42.2	40.1	40.1
87.5°	21.1	20.0	19.0	22.1	23.2
90°	3.2	14.8	25.3	31.6	33.8
92.5°	17.9	26.4	34.8	41.1	43.2
95°	33.8	45.4	51.7	75.9	82.3
97.5°	46.4	60.1	67.5	89.7	96.0
100°	59.1	71.7	94.9	106.5	113.9
102.5°	69.6	79.1	111.8	135.0	139.2
105°	79.1	82.3	118.1	158.2	167.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.9	84.4	126.6	171.9	188.8
115°	98.1	83.3	125.5	173.0	189.8
117.5°	98.1	83.3	122.3	173.0	189.8
120°	96.0	84.4	118.1	170.9	188.8
122.5°	93.9	82.3	113.9	166.6	184.6
125°	90.7	80.2	108.6	159.3	179.3
127.5°	85.4	82.3	103.4	149.8	169.8
130°	81.2	83.3	97.0	140.3	160.3
132.5°	78.0	81.2	90.7	129.7	147.7
135°	73.8	80.2	87.5	118.1	136.1
137.5°	70.7	77.0	82.3	107.6	122.3
140°	67.5	74.9	77.0	93.9	106.5
142.5°	63.3	71.7	72.8	87.5	92.8
145°	60.1	69.6	75.9	81.2	86.5
147.5°	57.0	65.4	73.8	74.9	80.2
150°	55.9	61.2	70.7	71.7	73.8
152.5°	54.8	59.1	65.4	71.7	72.8
155°	54.8	58.0	62.2	67.5	68.6
157.5°	53.8	58.0	60.1	64.3	65.4
160°	53.8	57.0	59.1	62.2	63.3
162.5°	53.8	57.0	58.0	61.2	62.2
165°	53.8	55.9	58.0	60.1	60.1
167.5°	53.8	55.9	57.0	59.1	59.1
170°	53.8	54.8	57.0	58.0	58.0
172.5°	52.7	54.8	55.9	58.0	58.0
175°	52.7	53.8	54.8	55.9	57.0
177.5°	50.6	53.8	54.8	55.9	54.8
180°	51.7	51.7	51.7	51.7	51.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	86.5	83.3	122.3	166.6	180.4
110°	91.8	84.4	125.5	169.8	186.7



(END OF REPORT)