

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: P520481

Luminaire Tested: **4WSLA-100-L950-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520481
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-L950-UPL15-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

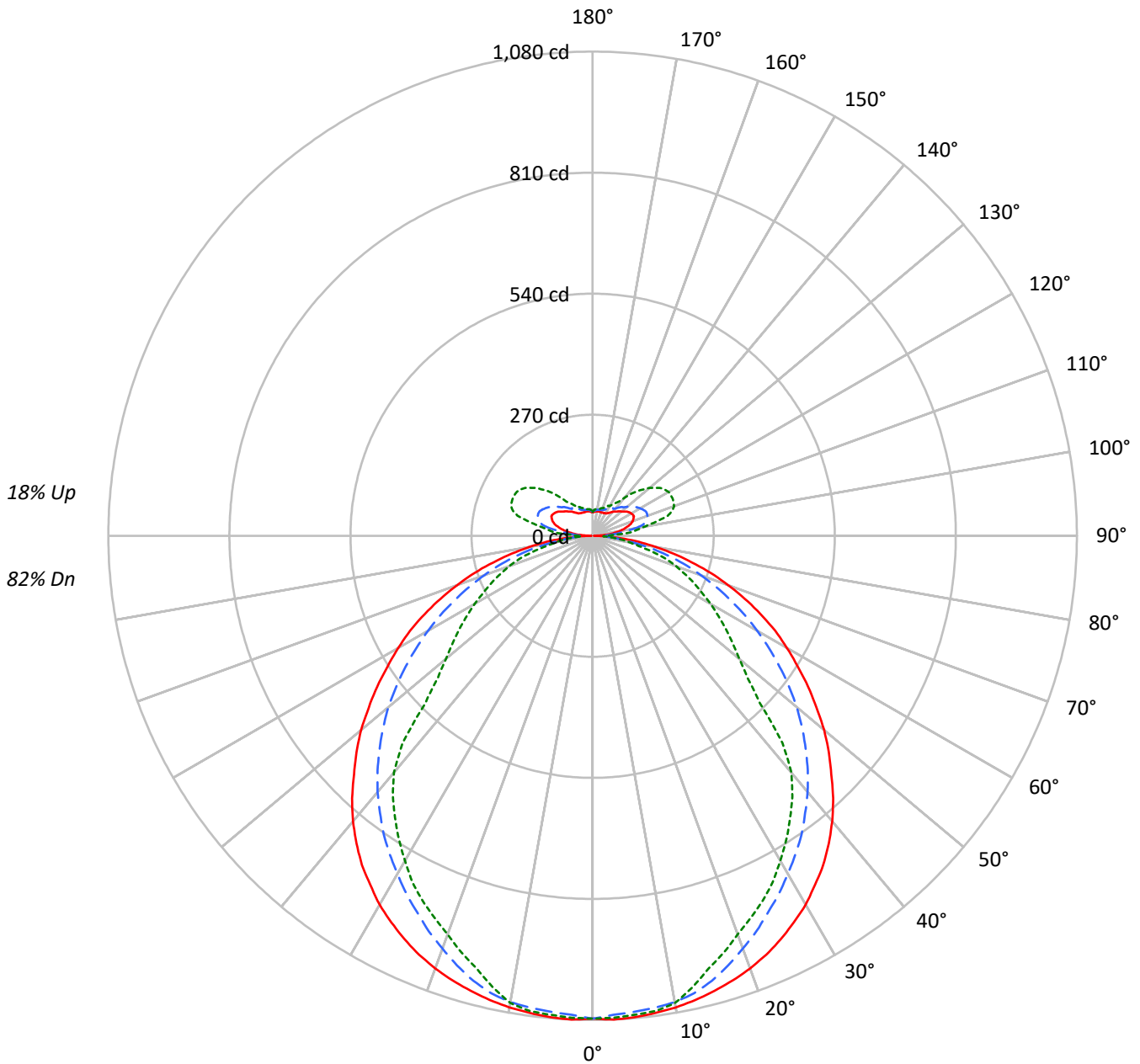
Lumens per Lamp: N/A
Luminaire Lumens: 3488.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	5796	5796	5796
5°	5824	5760	5795
10°	5838	5772	5784
15°	5855	5727	5568
20°	5881	5612	5418
25°	5896	5501	5332
30°	5906	5410	5200
35°	5892	5340	5045
40°	5840	5241	4842
45°	5728	5113	4016
50°	5642	4975	3576
55°	5504	4776	3402
60°	5385	4562	3269
65°	5258	4312	3171
70°	5053	4039	3111
75°	4770	3701	2861
80°	4367	3115	2538
85°	3915	2699	2563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	2.9
10°-20°	289.9	8.3
20°-30°	432.7	12.4
30°-40°	515.6	14.8
40°-50°	512.8	14.7
50°-60°	439.5	12.6
60°-70°	331.0	9.5
70°-80°	191.7	5.5
80°-90°	57.6	1.7
90°-100°	61.9	1.8
100°-110°	127.0	3.6
110°-120°	134.3	3.9
120°-130°	112.1	3.2
130°-140°	78.3	2.2
140°-150°	48.7	1.4
150°-160°	30.2	0.9
160°-170°	17.0	0.5
170°-180°	5.5	0.2
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0°-30°	824.7	23.6
0°-40°	1340.3	38.4
0°-60°	2292.7	65.7
0°-90°	2873.1	82.4
90°-120°	323.2	9.3
90°-150°	562.2	16.1
90°-180°	615.0	17.6
0°-180°	3488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1078	1075	1066	1074	1073	103
15°	1051	1050	1028	1010	999	297
25°	993	979	926	903	898	458
35°	897	873	813	781	768	560
45°	753	734	672	605	528	582
55°	587	578	509	404	363	524
65°	413	403	339	263	249	408
75°	229	222	178	142	138	243
85°	63	56	44	42	42	68
90°	3	15	26	33	35	6
95°	35	47	54	79	85	33
105°	82	85	122	164	174	85
115°	102	86	130	179	197	99
125°	94	83	112	165	186	83
135°	76	83	91	122	141	60
145°	62	72	79	84	90	40
155°	57	60	64	70	71	26
165°	56	58	60	62	62	16
175°	55	56	57	58	59	5
180°	54	54	54	54	54	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.0	1077.0	1077.0	1077.0	1077.0
2.5°	1080.3	1078.1	1069.4	1078.1	1075.9
5°	1078.1	1074.8	1066.1	1073.7	1072.6
7.5°	1073.7	1071.5	1061.7	1070.4	1069.4
10°	1068.3	1065.0	1056.2	1062.8	1058.4
12.5°	1060.6	1058.4	1045.3	1039.9	1031.1
15°	1050.8	1049.7	1027.8	1010.4	999.4
17.5°	1039.9	1035.5	1004.9	984.2	974.3
20°	1026.8	1020.2	979.8	955.8	945.9
22.5°	1011.5	1001.6	954.7	931.7	921.9
25°	992.9	978.7	926.3	903.3	897.9
27.5°	972.1	955.8	900.0	877.1	870.6
30°	950.3	929.5	870.6	848.7	836.7
32.5°	923.0	903.3	842.2	817.0	803.9
35°	896.8	872.7	812.7	781.0	767.9
37.5°	865.1	841.1	778.8	747.1	731.8
40°	831.2	807.2	746.0	708.9	689.2
42.5°	794.1	772.2	710.0	665.2	627.0
45°	752.6	734.0	671.8	605.1	527.6
47.5°	714.4	696.9	633.5	547.2	467.5
50°	673.9	657.6	594.2	492.6	427.1
52.5°	629.2	617.1	551.6	445.7	393.2
55°	586.6	577.8	509.0	404.1	362.6
57.5°	541.8	533.0	466.4	364.8	332.1
60°	500.3	491.5	423.8	329.9	303.7
62.5°	458.8	446.7	382.3	296.0	274.2
65°	412.9	403.1	338.6	263.2	249.0
67.5°	367.0	358.3	298.2	232.7	222.8
70°	321.1	313.5	256.7	203.2	197.7
72.5°	276.3	266.5	219.6	173.7	171.5
75°	229.4	221.7	178.0	142.0	137.6
77.5°	184.6	178.0	139.8	108.1	104.9
80°	140.9	134.4	100.5	78.6	81.9
82.5°	103.8	95.0	67.7	61.2	64.4
85°	63.4	55.7	43.7	41.5	41.5
87.5°	21.8	20.8	19.7	22.9	24.0
90°	3.3	15.3	26.2	32.8	35.0
92.5°	18.6	27.3	36.0	42.6	44.8
95°	35.0	47.0	53.5	78.6	85.2
97.5°	48.1	62.3	69.9	92.8	99.4
100°	61.2	74.3	98.3	110.3	118.0
102.5°	72.1	81.9	115.8	139.8	144.2
105°	81.9	85.2	122.3	163.8	173.7



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CATALOG NUMBER: 4WSLA-100-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	98.3	87.4	131.1	178.0	195.5
115°	101.6	86.3	130.0	179.1	196.6
117.5°	101.6	86.3	126.7	179.1	196.6
120°	99.4	87.4	122.3	177.0	195.5
122.5°	97.2	85.2	118.0	172.6	191.2
125°	93.9	83.0	112.5	164.9	185.7
127.5°	88.5	85.2	107.0	155.1	175.9
130°	84.1	86.3	100.5	145.3	166.0
132.5°	80.8	84.1	93.9	134.4	152.9
135°	76.5	83.0	90.7	122.3	140.9
137.5°	73.2	79.7	85.2	111.4	126.7
140°	69.9	77.6	79.7	97.2	110.3
142.5°	65.5	74.3	75.4	90.7	96.1
145°	62.3	72.1	78.6	84.1	89.6
147.5°	59.0	67.7	76.5	77.6	83.0
150°	57.9	63.4	73.2	74.3	76.5
152.5°	56.8	61.2	67.7	74.3	75.4
155°	56.8	60.1	64.4	69.9	71.0
157.5°	55.7	60.1	62.3	66.6	67.7
160°	55.7	59.0	61.2	64.4	65.5
162.5°	55.7	59.0	60.1	63.4	64.4
165°	55.7	57.9	60.1	62.3	62.3
167.5°	55.7	57.9	59.0	61.2	61.2
170°	55.7	56.8	59.0	60.1	60.1
172.5°	54.6	56.8	57.9	60.1	60.1
175°	54.6	55.7	56.8	57.9	59.0
177.5°	52.4	55.7	56.8	57.9	56.8
180°	53.5	53.5	53.5	53.5	53.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	89.6	86.3	126.7	172.6	186.8
110°	95.0	87.4	130.0	175.9	193.3



(END OF REPORT)