

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: P520482

Luminaire Tested: **4WSLA-100-L950-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-100-L950-UPL8-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

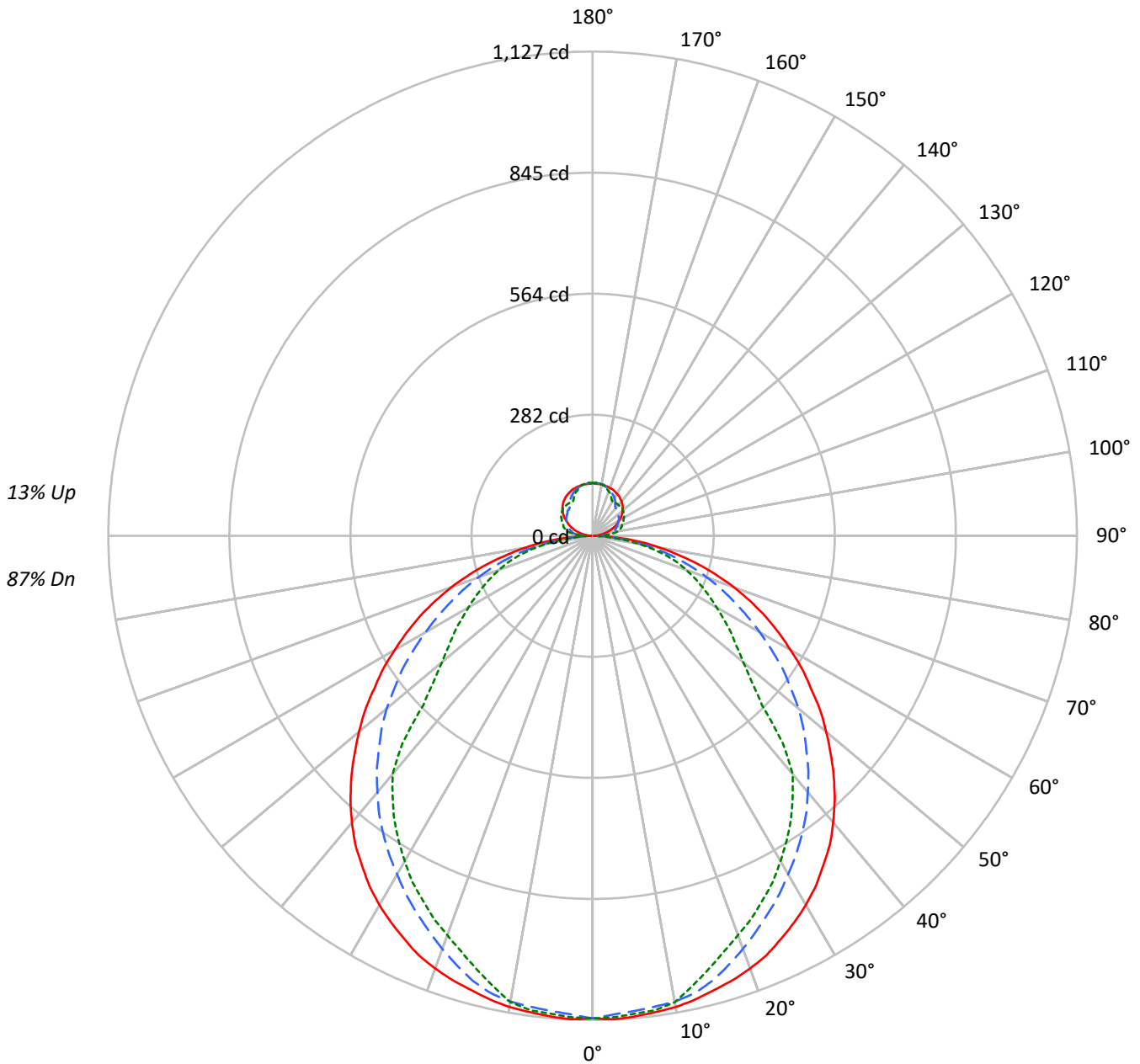
Lumens per Lamp: N/A
Luminaire Lumens: 3496.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6046	6046	6046
5°	6069	5999	6034
10°	6086	6015	6024
15°	6097	5980	5818
20°	6137	5860	5666
25°	6153	5749	5558
30°	6167	5655	5434
35°	6149	5575	5288
40°	6121	5474	5087
45°	6040	5351	4244
50°	5941	5237	3830
55°	5824	5066	3686
60°	5724	4836	3584
65°	5640	4632	3581
70°	5493	4452	3637
75°	5242	4236	3664
80°	4909	3806	3406
85°	4489	2692	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	3.0
10°-20°	302.3	8.6
20°-30°	451.8	12.9
30°-40°	539.3	15.4
40°-50°	539.3	15.4
50°-60°	466.8	13.4
60°-70°	358.3	10.2
70°-80°	219.5	6.3
80°-90°	61.8	1.8
90°-100°	34.9	1.0
100°-110°	55.4	1.6
110°-120°	64.8	1.9
120°-130°	70.0	2.0
130°-140°	68.9	2.0
140°-150°	61.0	1.7
150°-160°	50.2	1.4
160°-170°	33.6	1.0
170°-180°	11.7	0.3
0°-30°	860.4	24.6
0°-40°	1399.7	40.0
0°-60°	2405.8	68.8
0°-90°	3045.4	87.1
90°-120°	155.2	4.4
90°-150°	355.1	10.2
90°-180°	451.0	12.9
0°-180°	3496.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1123	1120	1110	1118	1117	107
15°	1094	1093	1073	1054	1044	310
25°	1036	1023	968	942	936	478
35°	936	912	849	818	805	586
45°	794	771	703	640	558	612
55°	621	606	540	432	393	556
65°	443	427	364	293	281	437
75°	252	239	204	176	176	266
85°	73	60	44	37	37	76
90°	3	11	18	23	24	5
95°	13	28	37	39	39	13
105°	37	39	55	65	68	39
115°	61	52	65	74	79	60
125°	82	66	74	86	89	73
135°	99	89	82	90	95	76
145°	110	105	92	90	94	69
155°	116	115	108	103	102	54
165°	120	121	118	118	118	34
175°	121	123	123	124	124	12
180°	123	123	123	123	123	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.3	1123.3	1123.3	1123.3	1123.3
2.5°	1126.6	1123.3	1115.3	1123.3	1121.7
5°	1123.3	1120.1	1110.4	1118.5	1116.9
7.5°	1118.5	1115.3	1105.6	1115.3	1113.6
10°	1113.6	1110.4	1100.7	1107.2	1102.3
12.5°	1105.6	1102.3	1091.0	1082.9	1073.2
15°	1094.3	1092.6	1073.2	1053.8	1044.1
17.5°	1084.6	1079.7	1049.0	1026.4	1015.1
20°	1071.6	1063.5	1023.1	997.3	989.2
22.5°	1057.1	1044.1	995.7	971.4	964.9
25°	1036.1	1023.1	968.2	942.3	935.9
27.5°	1015.1	998.9	940.7	914.8	908.4
30°	992.4	969.8	910.0	885.7	874.4
32.5°	966.6	943.9	880.9	853.4	840.5
35°	935.9	911.6	848.6	817.9	804.9
37.5°	906.8	880.9	816.2	782.3	764.5
40°	871.2	845.3	779.1	741.9	724.1
42.5°	834.0	809.8	743.5	698.3	654.6
45°	793.6	771.0	703.1	640.1	557.6
47.5°	751.6	732.2	665.9	580.3	501.1
50°	709.6	690.2	625.5	523.7	457.4
52.5°	667.5	651.4	580.3	476.8	421.9
55°	620.7	606.1	539.9	431.6	392.8
57.5°	578.6	564.1	493.0	394.4	362.1
60°	531.8	518.8	449.3	357.2	333.0
62.5°	488.1	473.6	405.7	324.9	307.1
65°	442.9	426.7	363.7	292.6	281.2
67.5°	396.0	379.8	323.3	263.5	257.0
70°	349.1	336.2	282.9	234.4	231.1
72.5°	300.6	286.1	242.4	206.9	206.9
75°	252.1	239.2	203.7	176.2	176.2
77.5°	202.0	195.6	163.2	143.9	145.5
80°	158.4	150.3	122.8	109.9	109.9
82.5°	116.4	106.7	82.4	72.7	76.0
85°	72.7	59.8	43.6	37.2	37.2
87.5°	22.6	17.8	12.9	14.5	14.5
90°	3.2	11.3	17.8	22.6	24.2
92.5°	8.1	21.0	25.9	30.7	32.3
95°	12.9	27.5	37.2	38.8	38.8
97.5°	17.8	30.7	45.3	51.7	51.7
100°	24.2	32.3	48.5	58.2	59.8
102.5°	30.7	35.6	51.7	61.4	64.7
105°	37.2	38.8	55.0	64.7	67.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.0	48.5	61.4	72.7	76.0
115°	61.4	51.7	64.7	74.4	79.2
117.5°	66.3	56.6	67.9	77.6	80.8
120°	71.1	59.8	69.5	80.8	84.0
122.5°	77.6	63.0	72.7	82.4	87.3
125°	82.4	66.3	74.4	85.7	88.9
127.5°	87.3	72.7	76.0	87.3	90.5
130°	90.5	79.2	77.6	88.9	92.1
132.5°	95.4	84.0	79.2	90.5	93.7
135°	98.6	88.9	82.4	90.5	95.4
137.5°	101.8	93.7	82.4	90.5	93.7
140°	105.1	98.6	84.0	90.5	93.7
142.5°	106.7	101.8	85.7	90.5	93.7
145°	109.9	105.1	92.1	90.5	93.7
147.5°	111.5	108.3	97.0	90.5	93.7
150°	113.1	111.5	101.8	92.1	92.1
152.5°	114.8	113.1	105.1	98.6	95.4
155°	116.4	114.8	108.3	103.4	101.8
157.5°	118.0	118.0	111.5	108.3	106.7
160°	118.0	119.6	114.8	111.5	109.9
162.5°	119.6	121.2	116.4	114.8	113.1
165°	119.6	121.2	118.0	118.0	118.0
167.5°	121.2	122.8	121.2	119.6	119.6
170°	121.2	122.8	121.2	121.2	121.2
172.5°	121.2	122.8	122.8	122.8	122.8
175°	121.2	122.8	122.8	124.5	124.5
177.5°	121.2	122.8	122.8	122.8	122.8
180°	122.8	122.8	122.8	122.8	122.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	43.6	42.0	56.6	67.9	71.1
110°	48.5	45.3	59.8	69.5	72.7



(END OF REPORT)