

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: P520479

Luminaire Tested: **4WSLA-100-L940-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520479
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-L940-UPL8-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

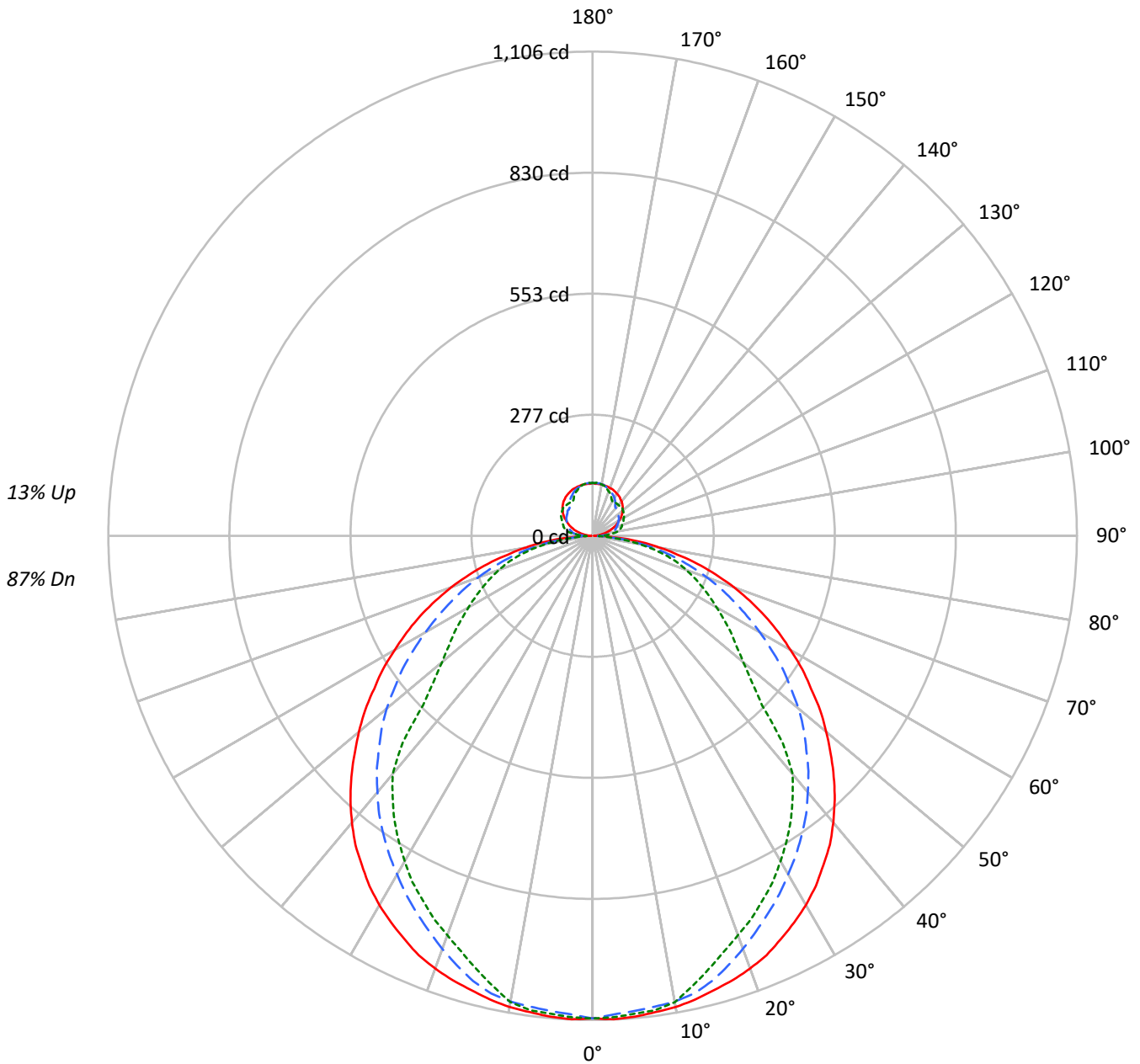
Lumens per Lamp: N/A
Luminaire Lumens: 3431.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	5934	5934	5934
5°	5956	5888	5922
10°	5973	5904	5912
15°	5984	5869	5709
20°	6023	5751	5560
25°	6038	5643	5454
30°	6053	5550	5333
35°	6035	5472	5190
40°	6007	5372	4993
45°	5928	5252	4166
50°	5831	5140	3759
55°	5715	4971	3617
60°	5618	4747	3518
65°	5535	4545	3515
70°	5391	4368	3569
75°	5147	4157	3595
80°	4819	3738	3344
85°	4409	2643	2254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.0
10°-20°	296.7	8.6
20°-30°	443.4	12.9
30°-40°	529.3	15.4
40°-50°	529.3	15.4
50°-60°	458.1	13.4
60°-70°	351.6	10.2
70°-80°	215.4	6.3
80°-90°	60.7	1.8
90°-100°	34.3	1.0
100°-110°	54.4	1.6
110°-120°	63.6	1.9
120°-130°	68.7	2.0
130°-140°	67.7	2.0
140°-150°	59.9	1.7
150°-160°	49.3	1.4
160°-170°	33.0	1.0
170°-180°	11.5	0.3
0°-30°	844.5	24.6
0°-40°	1373.7	40.0
0°-60°	2361.1	68.8
0°-90°	2988.8	87.1
90°-120°	152.3	4.4
90°-150°	348.5	10.2
90°-180°	442.0	12.9
0°-180°	3431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1102	1099	1090	1098	1096	105
15°	1074	1072	1053	1034	1025	304
25°	1017	1004	950	925	918	469
35°	918	895	833	803	790	575
45°	779	757	690	628	547	601
55°	609	595	530	424	386	546
65°	435	419	357	287	276	429
75°	248	235	200	173	173	261
85°	71	59	43	36	36	75
90°	3	11	17	22	24	5
95°	13	27	36	38	38	13
105°	36	38	54	64	67	38
115°	60	51	64	73	78	59
125°	81	65	73	84	87	72
135°	97	87	81	89	94	75
145°	108	103	90	89	92	67
155°	114	113	106	102	100	53
165°	117	119	116	116	116	33
175°	119	121	121	122	122	11
180°	121	121	121	121	121	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1105.6	1102.5	1094.5	1102.5	1100.9
5°	1102.5	1099.3	1089.8	1097.7	1096.1
7.5°	1097.7	1094.5	1085.0	1094.5	1092.9
10°	1092.9	1089.8	1080.3	1086.6	1081.8
12.5°	1085.0	1081.8	1070.7	1062.8	1053.3
15°	1073.9	1072.3	1053.3	1034.3	1024.7
17.5°	1064.4	1059.6	1029.5	1007.3	996.2
20°	1051.7	1043.8	1004.1	978.7	970.8
22.5°	1037.4	1024.7	977.1	953.4	947.0
25°	1016.8	1004.1	950.2	924.8	918.5
27.5°	996.2	980.3	923.2	897.8	891.5
30°	974.0	951.8	893.1	869.3	858.2
32.5°	948.6	926.4	864.5	837.6	824.9
35°	918.5	894.7	832.8	802.7	790.0
37.5°	889.9	864.5	801.1	767.8	750.3
40°	855.0	829.6	764.6	728.1	710.7
42.5°	818.5	794.7	729.7	685.3	642.4
45°	778.9	756.7	690.0	628.2	547.3
47.5°	737.6	718.6	653.5	569.5	491.7
50°	696.4	677.3	613.9	514.0	448.9
52.5°	655.1	639.3	569.5	468.0	414.0
55°	609.1	594.9	529.8	423.5	385.5
57.5°	567.9	553.6	483.8	387.1	355.3
60°	521.9	509.2	441.0	350.6	326.8
62.5°	479.1	464.8	398.2	318.8	301.4
65°	434.6	418.8	356.9	287.1	276.0
67.5°	388.6	372.8	317.3	258.6	252.2
70°	342.6	329.9	277.6	230.0	226.8
72.5°	295.0	280.8	237.9	203.0	203.0
75°	247.5	234.8	199.9	172.9	172.9
77.5°	198.3	191.9	160.2	141.2	142.8
80°	155.5	147.5	120.6	107.9	107.9
82.5°	114.2	104.7	80.9	71.4	74.6
85°	71.4	58.7	42.8	36.5	36.5
87.5°	22.2	17.4	12.7	14.3	14.3
90°	3.2	11.1	17.4	22.2	23.8
92.5°	7.9	20.6	25.4	30.1	31.7
95°	12.7	27.0	36.5	38.1	38.1
97.5°	17.4	30.1	44.4	50.8	50.8
100°	23.8	31.7	47.6	57.1	58.7
102.5°	30.1	34.9	50.8	60.3	63.5
105°	36.5	38.1	53.9	63.5	66.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.9	47.6	60.3	71.4	74.6
115°	60.3	50.8	63.5	73.0	77.7
117.5°	65.0	55.5	66.6	76.1	79.3
120°	69.8	58.7	68.2	79.3	82.5
122.5°	76.1	61.9	71.4	80.9	85.7
125°	80.9	65.0	73.0	84.1	87.2
127.5°	85.7	71.4	74.6	85.7	88.8
130°	88.8	77.7	76.1	87.2	90.4
132.5°	93.6	82.5	77.7	88.8	92.0
135°	96.8	87.2	80.9	88.8	93.6
137.5°	99.9	92.0	80.9	88.8	92.0
140°	103.1	96.8	82.5	88.8	92.0
142.5°	104.7	99.9	84.1	88.8	92.0
145°	107.9	103.1	90.4	88.8	92.0
147.5°	109.5	106.3	95.2	88.8	92.0
150°	111.0	109.5	99.9	90.4	90.4
152.5°	112.6	111.0	103.1	96.8	93.6
155°	114.2	112.6	106.3	101.5	99.9
157.5°	115.8	115.8	109.5	106.3	104.7
160°	115.8	117.4	112.6	109.5	107.9
162.5°	117.4	119.0	114.2	112.6	111.0
165°	117.4	119.0	115.8	115.8	115.8
167.5°	119.0	120.6	119.0	117.4	117.4
170°	119.0	120.6	119.0	119.0	119.0
172.5°	119.0	120.6	120.6	120.6	120.6
175°	119.0	120.6	120.6	122.1	122.1
177.5°	119.0	120.6	120.6	120.6	120.6
180°	120.6	120.6	120.6	120.6	120.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	42.8	41.2	55.5	66.6	69.8
110°	47.6	44.4	58.7	68.2	71.4



(END OF REPORT)