

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: P520478

Luminaire Tested: **4WSLA-100-L940-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520478
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-L940-UPL15-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

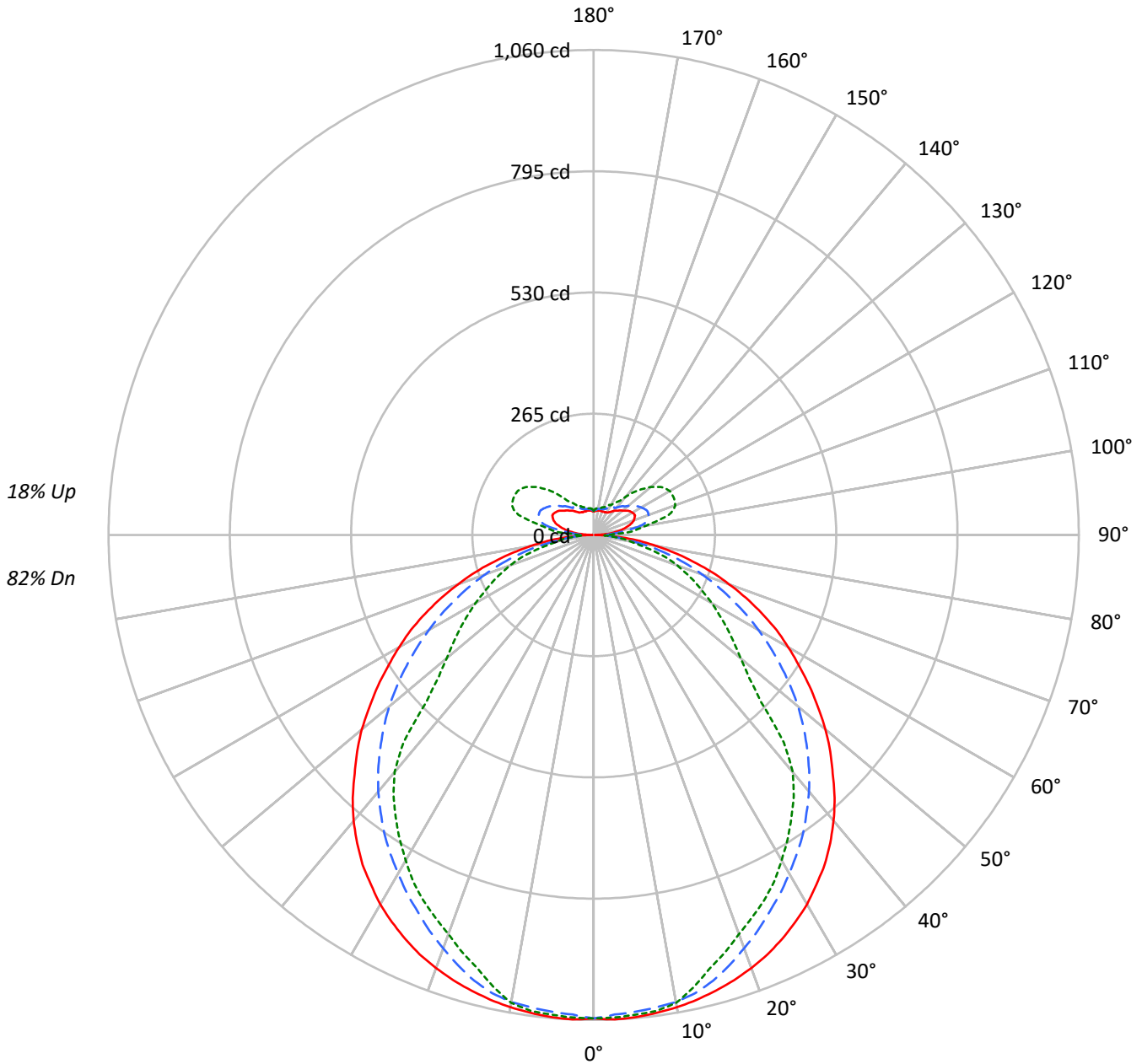
Lumens per Lamp: N/A
Luminaire Lumens: 3423.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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°	5688	5688	5688
5°	5716	5652	5687
10°	5729	5665	5676
15°	5746	5620	5465
20°	5771	5507	5317
25°	5786	5398	5232
30°	5796	5309	5103
35°	5782	5240	4951
40°	5731	5143	4752
45°	5622	5017	3940
50°	5538	4882	3509
55°	5401	4687	3339
60°	5284	4477	3208
65°	5160	4232	3112
70°	4958	3964	3053
75°	4681	3633	2809
80°	4286	3056	2492
85°	3841	2649	2513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	2.9
10°-20°	284.5	8.3
20°-30°	424.7	12.4
30°-40°	506.0	14.8
40°-50°	503.3	14.7
50°-60°	431.3	12.6
60°-70°	324.8	9.5
70°-80°	188.1	5.5
80°-90°	56.5	1.7
90°-100°	60.7	1.8
100°-110°	124.7	3.6
110°-120°	131.8	3.9
120°-130°	110.0	3.2
130°-140°	76.8	2.2
140°-150°	47.8	1.4
150°-160°	29.6	0.9
160°-170°	16.7	0.5
170°-180°	5.4	0.2
0°-30°	809.4	23.6
0°-40°	1315.4	38.4
0°-60°	2250.0	65.7
0°-90°	2819.5	82.4
90°-120°	317.2	9.3
90°-150°	551.8	16.1
90°-180°	603.0	17.6
0°-180°	3423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1058	1055	1046	1054	1053	101
15°	1031	1030	1009	992	981	291
25°	974	960	909	886	881	449
35°	880	856	798	766	754	550
45°	739	720	659	594	518	571
55°	576	567	500	397	356	515
65°	405	396	332	258	244	401
75°	225	218	175	139	135	238
85°	62	55	43	41	41	66
90°	3	15	26	32	34	6
95°	34	46	52	77	84	33
105°	80	84	120	161	170	83
115°	100	85	128	176	193	97
125°	92	82	110	162	182	82
135°	75	82	89	120	138	59
145°	61	71	77	82	88	39
155°	56	59	63	69	70	26
165°	55	57	59	61	61	16
175°	54	55	56	57	58	5
180°	52	52	52	52	52	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.9	1056.9	1056.9	1056.9	1056.9
2.5°	1060.1	1058.0	1049.4	1058.0	1055.9
5°	1058.0	1054.8	1046.2	1053.7	1052.6
7.5°	1053.7	1051.6	1041.9	1050.5	1049.4
10°	1048.4	1045.1	1036.6	1043.0	1038.7
12.5°	1040.8	1038.7	1025.8	1020.5	1011.9
15°	1031.2	1030.1	1008.7	991.5	980.8
17.5°	1020.5	1016.2	986.2	965.8	956.2
20°	1007.6	1001.2	961.5	937.9	928.3
22.5°	992.6	983.0	936.9	914.4	904.7
25°	974.4	960.5	909.0	886.5	881.1
27.5°	954.0	937.9	883.3	860.8	854.3
30°	932.6	912.2	854.3	832.9	821.1
32.5°	905.8	886.5	826.5	801.8	788.9
35°	880.1	856.5	797.5	766.4	753.6
37.5°	849.0	825.4	764.3	733.2	718.2
40°	815.7	792.2	732.1	695.7	676.4
42.5°	779.3	757.9	696.8	652.8	615.3
45°	738.6	720.3	659.2	593.9	517.7
47.5°	701.0	683.9	621.7	537.0	458.8
50°	661.4	645.3	583.1	483.4	419.1
52.5°	617.4	605.6	541.3	437.3	385.9
55°	575.6	567.1	499.5	396.6	355.9
57.5°	531.7	523.1	457.7	358.0	325.9
60°	490.9	482.4	415.9	323.7	298.0
62.5°	450.2	438.4	375.2	290.5	269.1
65°	405.2	395.5	332.3	258.3	244.4
67.5°	360.2	351.6	292.6	228.3	218.7
70°	315.1	307.6	251.9	199.4	194.0
72.5°	271.2	261.6	215.5	170.4	168.3
75°	225.1	217.6	174.7	139.4	135.1
77.5°	181.2	174.7	137.2	106.1	102.9
80°	138.3	131.8	98.6	77.2	80.4
82.5°	101.8	93.3	66.5	60.0	63.2
85°	62.2	54.7	42.9	40.7	40.7
87.5°	21.4	20.4	19.3	22.5	23.6
90°	3.2	15.0	25.7	32.2	34.3
92.5°	18.2	26.8	35.4	41.8	43.9
95°	34.3	46.1	52.5	77.2	83.6
97.5°	47.2	61.1	68.6	91.1	97.5
100°	60.0	72.9	96.5	108.3	115.8
102.5°	70.7	80.4	113.6	137.2	141.5
105°	80.4	83.6	120.1	160.8	170.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	96.5	85.8	128.6	174.7	191.9
115°	99.7	84.7	127.6	175.8	192.9
117.5°	99.7	84.7	124.3	175.8	192.9
120°	97.5	85.8	120.1	173.7	191.9
122.5°	95.4	83.6	115.8	169.4	187.6
125°	92.2	81.5	110.4	161.9	182.2
127.5°	86.8	83.6	105.0	152.2	172.6
130°	82.5	84.7	98.6	142.6	162.9
132.5°	79.3	82.5	92.2	131.8	150.1
135°	75.0	81.5	89.0	120.1	138.3
137.5°	71.8	78.3	83.6	109.3	124.3
140°	68.6	76.1	78.3	95.4	108.3
142.5°	64.3	72.9	74.0	89.0	94.3
145°	61.1	70.7	77.2	82.5	87.9
147.5°	57.9	66.5	75.0	76.1	81.5
150°	56.8	62.2	71.8	72.9	75.0
152.5°	55.7	60.0	66.5	72.9	74.0
155°	55.7	59.0	63.2	68.6	69.7
157.5°	54.7	59.0	61.1	65.4	66.5
160°	54.7	57.9	60.0	63.2	64.3
162.5°	54.7	57.9	59.0	62.2	63.2
165°	54.7	56.8	59.0	61.1	61.1
167.5°	54.7	56.8	57.9	60.0	60.0
170°	54.7	55.7	57.9	59.0	59.0
172.5°	53.6	55.7	56.8	59.0	59.0
175°	53.6	54.7	55.7	56.8	57.9
177.5°	51.5	54.7	55.7	56.8	55.7
180°	52.5	52.5	52.5	52.5	52.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	87.9	84.7	124.3	169.4	183.3
110°	93.3	85.8	127.6	172.6	189.7



(END OF REPORT)