

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: P520466

Luminaire Tested: **4WSLA-100-L840-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520466
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-L840-UPL15-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

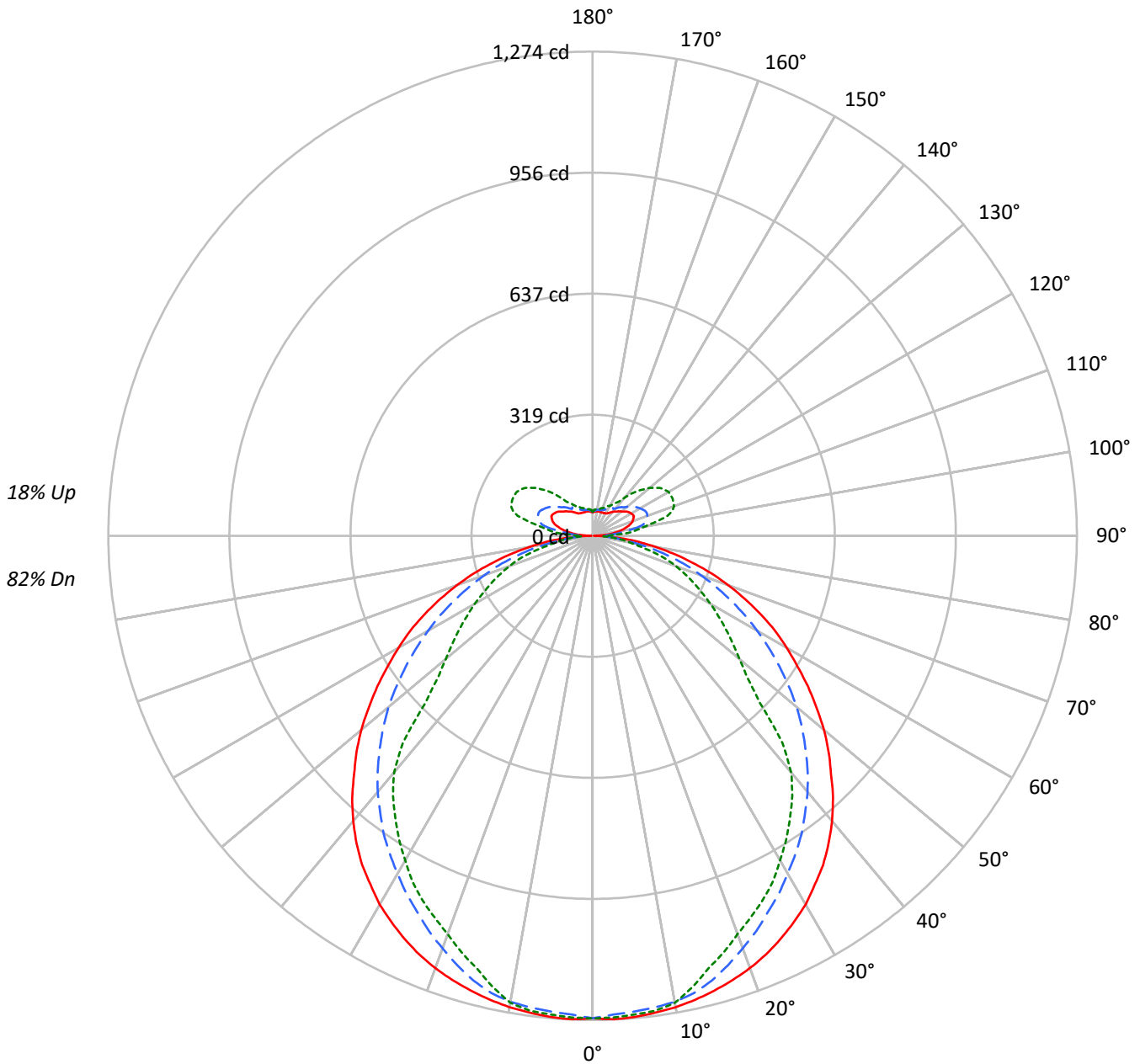
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4112.0 lumens
Efficiency: N/A
Efficacy: 130.1 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°	6833	6833	6833
5°	6867	6790	6831
10°	6883	6805	6819
15°	6902	6751	6565
20°	6932	6616	6387
25°	6951	6485	6286
30°	6962	6378	6130
35°	6946	6294	5948
40°	6884	6179	5708
45°	6753	6027	4734
50°	6652	5865	4216
55°	6488	5631	4011
60°	6349	5378	3853
65°	6199	5084	3739
70°	5958	4762	3668
75°	5623	4365	3375
80°	5148	3673	2994
85°	4613	3180	3020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	2.9
10°-20°	341.8	8.3
20°-30°	510.1	12.4
30°-40°	607.8	14.8
40°-50°	604.6	14.7
50°-60°	518.2	12.6
60°-70°	390.3	9.5
70°-80°	226.0	5.5
80°-90°	67.9	1.7
90°-100°	72.9	1.8
100°-110°	149.8	3.6
110°-120°	158.3	3.9
120°-130°	132.1	3.2
130°-140°	92.3	2.2
140°-150°	57.4	1.4
150°-160°	35.6	0.9
160°-170°	20.0	0.5
170°-180°	6.5	0.2
0°-30°	972.3	23.6
0°-40°	1580.1	38.4
0°-60°	2702.9	65.7
0°-90°	3387.1	82.4
90°-120°	381.0	9.3
90°-150°	662.8	16.1
90°-180°	725.0	17.6
0°-180°	4112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1271	1267	1257	1266	1264	121
15°	1239	1238	1212	1191	1178	350
25°	1170	1154	1092	1065	1058	540
35°	1057	1029	958	921	905	660
45°	887	865	792	713	622	686
55°	692	681	600	476	428	618
65°	487	475	399	310	294	481
75°	270	261	210	167	162	286
85°	75	66	52	49	49	80
90°	4	18	31	39	41	8
95°	41	55	63	93	100	39
105°	97	100	144	193	205	100
115°	120	102	153	211	232	117
125°	111	98	133	194	219	98
135°	90	98	107	144	166	70
145°	73	85	93	99	106	47
155°	67	71	76	82	84	31
165°	66	68	71	73	73	19
175°	64	66	67	68	70	6
180°	63	63	63	63	63	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.7	1269.7	1269.7	1269.7	1269.7
2.5°	1273.5	1271.0	1260.7	1271.0	1268.4
5°	1271.0	1267.1	1256.8	1265.8	1264.5
7.5°	1265.8	1263.2	1251.6	1261.9	1260.7
10°	1259.4	1255.5	1245.2	1252.9	1247.8
12.5°	1250.4	1247.8	1232.3	1225.9	1215.6
15°	1238.8	1237.5	1211.7	1191.1	1178.2
17.5°	1225.9	1220.7	1184.7	1160.2	1148.6
20°	1210.4	1202.7	1155.1	1126.7	1115.1
22.5°	1192.4	1180.8	1125.4	1098.4	1086.8
25°	1170.5	1153.8	1092.0	1064.9	1058.5
27.5°	1146.1	1126.7	1061.1	1034.0	1026.3
30°	1120.3	1095.8	1026.3	1000.5	986.4
32.5°	1088.1	1064.9	992.8	963.2	947.7
35°	1057.2	1028.9	958.0	920.7	905.3
37.5°	1019.9	991.5	918.1	880.8	862.8
40°	979.9	951.6	879.5	835.7	812.5
42.5°	936.2	910.4	837.0	784.2	739.1
45°	887.2	865.3	791.9	713.4	622.0
47.5°	842.2	821.6	746.9	645.1	551.1
50°	794.5	775.2	700.5	580.8	503.5
52.5°	741.7	727.6	650.3	525.4	463.6
55°	691.5	681.2	600.1	476.4	427.5
57.5°	638.7	628.4	549.8	430.1	391.5
60°	589.8	579.5	499.6	388.9	358.0
62.5°	540.8	526.7	450.7	349.0	323.2
65°	486.8	475.2	399.2	310.3	293.6
67.5°	432.7	422.4	351.5	274.3	262.7
70°	378.6	369.6	302.6	239.5	233.1
72.5°	325.8	314.2	258.8	204.7	202.2
75°	270.4	261.4	209.9	167.4	162.3
77.5°	217.6	209.9	164.8	127.5	123.6
80°	166.1	158.4	118.5	92.7	96.6
82.5°	122.3	112.0	79.8	72.1	76.0
85°	74.7	65.7	51.5	48.9	48.9
87.5°	25.8	24.5	23.2	27.0	28.3
90°	3.9	18.0	30.9	38.6	41.2
92.5°	21.9	32.2	42.5	50.2	52.8
95°	41.2	55.4	63.1	92.7	100.4
97.5°	56.7	73.4	82.4	109.5	117.2
100°	72.1	87.6	115.9	130.1	139.1
102.5°	85.0	96.6	136.5	164.8	170.0
105°	96.6	100.4	144.2	193.2	204.7



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CATALOG NUMBER: 4WSLA-100-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	115.9	103.0	154.5	209.9	230.5
115°	119.8	101.7	153.2	211.2	231.8
117.5°	119.8	101.7	149.4	211.2	231.8
120°	117.2	103.0	144.2	208.6	230.5
122.5°	114.6	100.4	139.1	203.5	225.3
125°	110.7	97.9	132.6	194.4	218.9
127.5°	104.3	100.4	126.2	182.9	207.3
130°	99.2	101.7	118.5	171.3	195.7
132.5°	95.3	99.2	110.7	158.4	180.3
135°	90.1	97.9	106.9	144.2	166.1
137.5°	86.3	94.0	100.4	131.3	149.4
140°	82.4	91.4	94.0	114.6	130.1
142.5°	77.3	87.6	88.9	106.9	113.3
145°	73.4	85.0	92.7	99.2	105.6
147.5°	69.5	79.8	90.1	91.4	97.9
150°	68.2	74.7	86.3	87.6	90.1
152.5°	67.0	72.1	79.8	87.6	88.9
155°	67.0	70.8	76.0	82.4	83.7
157.5°	65.7	70.8	73.4	78.5	79.8
160°	65.7	69.5	72.1	76.0	77.3
162.5°	65.7	69.5	70.8	74.7	76.0
165°	65.7	68.2	70.8	73.4	73.4
167.5°	65.7	68.2	69.5	72.1	72.1
170°	65.7	67.0	69.5	70.8	70.8
172.5°	64.4	67.0	68.2	70.8	70.8
175°	64.4	65.7	67.0	68.2	69.5
177.5°	61.8	65.7	67.0	68.2	67.0
180°	63.1	63.1	63.1	63.1	63.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	105.6	101.7	149.4	203.5	220.2
110°	112.0	103.0	153.2	207.3	227.9



(END OF REPORT)