

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: P520469

Luminaire Tested: **4WSLA-100-L850-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520469
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-L850-UPL15-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

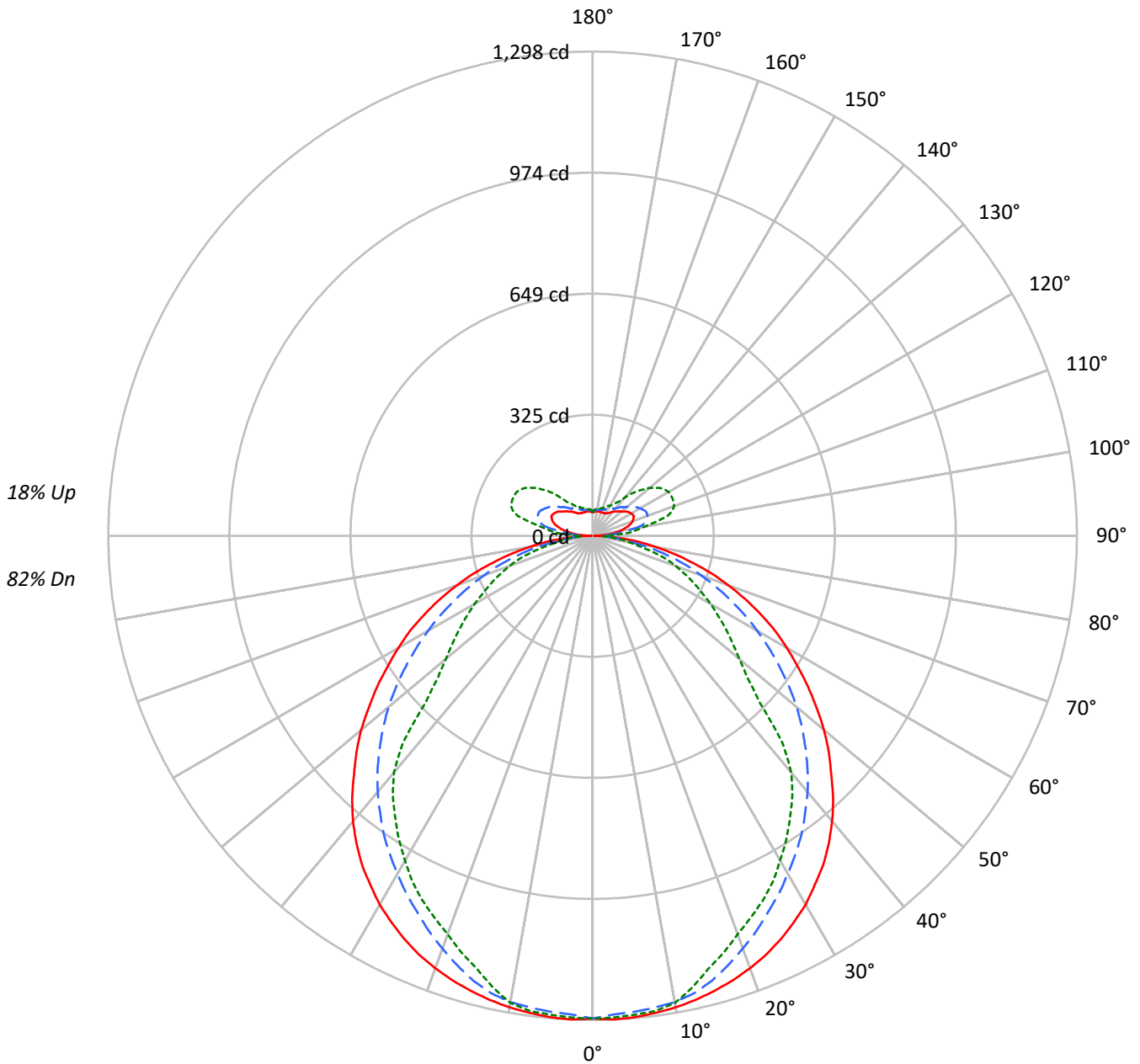
Lumens per Lamp: N/A
Luminaire Lumens: 4191.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	6965	6965	6965
5°	6998	6920	6963
10°	7015	6936	6950
15°	7035	6881	6691
20°	7066	6743	6510
25°	7084	6609	6406
30°	7096	6500	6247
35°	7079	6416	6062
40°	7017	6298	5818
45°	6883	6143	4825
50°	6780	5978	4297
55°	6613	5739	4088
60°	6470	5481	3928
65°	6318	5182	3810
70°	6072	4853	3739
75°	5731	4448	3439
80°	5247	3741	3050
85°	4699	3242	3081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	2.9
10°-20°	348.4	8.3
20°-30°	519.9	12.4
30°-40°	619.5	14.8
40°-50°	616.2	14.7
50°-60°	528.1	12.6
60°-70°	397.7	9.5
70°-80°	230.3	5.5
80°-90°	69.2	1.7
90°-100°	74.3	1.8
100°-110°	152.6	3.6
110°-120°	161.4	3.9
120°-130°	134.6	3.2
130°-140°	94.0	2.2
140°-150°	58.5	1.4
150°-160°	36.3	0.9
160°-170°	20.4	0.5
170°-180°	6.6	0.2
0°-30°	991.0	23.6
0°-40°	1610.5	38.4
0°-60°	2754.8	65.7
0°-90°	3452.1	82.4
90°-120°	388.3	9.3
90°-150°	675.6	16.1
90°-180°	739.0	17.6
0°-180°	4191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1295	1291	1281	1290	1289	123
15°	1263	1261	1235	1214	1201	357
25°	1193	1176	1113	1085	1079	550
35°	1078	1049	976	938	923	673
45°	904	882	807	727	634	699
55°	705	694	612	486	436	630
65°	496	484	407	316	299	490
75°	276	266	214	171	165	292
85°	76	67	52	50	50	81
90°	4	18	32	39	42	8
95°	42	56	64	94	102	40
105°	98	102	147	197	209	102
115°	122	104	156	215	236	119
125°	113	100	135	198	223	100
135°	92	100	109	147	169	72
145°	75	87	94	101	108	47
155°	68	72	77	84	85	31
165°	67	70	72	75	75	19
175°	66	67	68	70	71	6
180°	64	64	64	64	64	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1298.0	1295.4	1284.9	1295.4	1292.8
5°	1295.4	1291.4	1280.9	1290.1	1288.8
7.5°	1290.1	1287.5	1275.7	1286.2	1284.9
10°	1283.6	1279.6	1269.1	1277.0	1271.8
12.5°	1274.4	1271.8	1256.0	1249.4	1238.9
15°	1262.6	1261.3	1235.0	1214.0	1200.9
17.5°	1249.4	1244.2	1207.4	1182.5	1170.7
20°	1233.7	1225.8	1177.3	1148.4	1136.6
22.5°	1215.3	1203.5	1147.1	1119.5	1107.7
25°	1193.0	1175.9	1112.9	1085.4	1078.8
27.5°	1168.1	1148.4	1081.4	1053.9	1046.0
30°	1141.8	1116.9	1046.0	1019.8	1005.3
32.5°	1109.0	1085.4	1011.9	981.7	966.0
35°	1077.5	1048.6	976.5	938.4	922.6
37.5°	1039.5	1010.6	935.8	897.7	879.3
40°	998.8	969.9	896.4	851.8	828.1
42.5°	954.1	927.9	853.1	799.3	753.3
45°	904.3	882.0	807.1	727.1	633.9
47.5°	858.3	837.3	761.2	657.5	561.7
50°	809.8	790.1	714.0	591.9	513.2
52.5°	756.0	741.5	662.8	535.5	472.5
55°	704.8	694.3	611.6	485.6	435.7
57.5°	651.0	640.5	560.4	438.4	399.0
60°	601.1	590.6	509.2	396.4	364.9
62.5°	551.2	536.8	459.4	355.7	329.4
65°	496.1	484.3	406.9	316.3	299.2
67.5°	441.0	430.5	358.3	279.5	267.7
70°	385.9	376.7	308.4	244.1	237.6
72.5°	332.0	320.2	263.8	208.7	206.1
75°	275.6	266.4	213.9	170.6	165.4
77.5°	221.8	213.9	168.0	129.9	126.0
80°	169.3	161.4	120.7	94.5	98.4
82.5°	124.7	114.2	81.4	73.5	77.4
85°	76.1	66.9	52.5	49.9	49.9
87.5°	26.2	24.9	23.6	27.6	28.9
90°	3.9	18.4	31.5	39.4	42.0
92.5°	22.3	32.8	43.3	51.2	53.8
95°	42.0	56.4	64.3	94.5	102.4
97.5°	57.7	74.8	84.0	111.6	119.4
100°	73.5	89.2	118.1	132.6	141.7
102.5°	86.6	98.4	139.1	168.0	173.2
105°	98.4	102.4	147.0	196.9	208.7



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CATALOG NUMBER: 4WSLA-100-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	118.1	105.0	157.5	213.9	234.9
115°	122.1	103.7	156.2	215.2	236.2
117.5°	122.1	103.7	152.2	215.2	236.2
120°	119.4	105.0	147.0	212.6	234.9
122.5°	116.8	102.4	141.7	207.4	229.7
125°	112.9	99.7	135.2	198.2	223.1
127.5°	106.3	102.4	128.6	186.4	211.3
130°	101.1	103.7	120.7	174.6	199.5
132.5°	97.1	101.1	112.9	161.4	183.7
135°	91.9	99.7	108.9	147.0	169.3
137.5°	87.9	95.8	102.4	133.9	152.2
140°	84.0	93.2	95.8	116.8	132.6
142.5°	78.7	89.2	90.6	108.9	115.5
145°	74.8	86.6	94.5	101.1	107.6
147.5°	70.9	81.4	91.9	93.2	99.7
150°	69.6	76.1	87.9	89.2	91.9
152.5°	68.2	73.5	81.4	89.2	90.6
155°	68.2	72.2	77.4	84.0	85.3
157.5°	66.9	72.2	74.8	80.1	81.4
160°	66.9	70.9	73.5	77.4	78.7
162.5°	66.9	70.9	72.2	76.1	77.4
165°	66.9	69.6	72.2	74.8	74.8
167.5°	66.9	69.6	70.9	73.5	73.5
170°	66.9	68.2	70.9	72.2	72.2
172.5°	65.6	68.2	69.6	72.2	72.2
175°	65.6	66.9	68.2	69.6	70.9
177.5°	63.0	66.9	68.2	69.6	68.2
180°	64.3	64.3	64.3	64.3	64.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	107.6	103.7	152.2	207.4	224.4
110°	114.2	105.0	156.2	211.3	232.3



(END OF REPORT)