

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: P520470

Luminaire Tested: **4WSLA-100-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520470
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-L850-UPL8-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

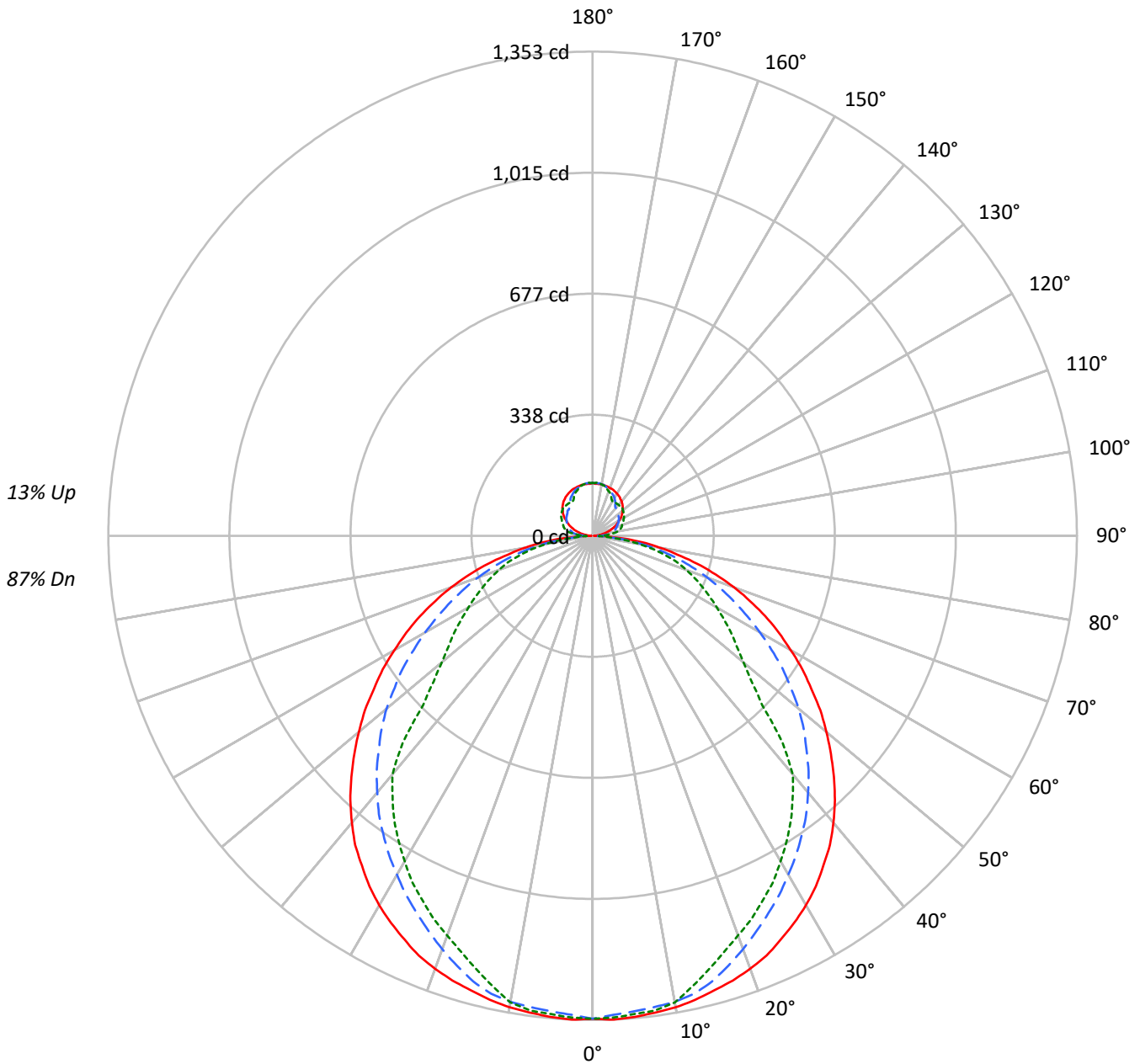
Lumens per Lamp: N/A
Luminaire Lumens: 4200.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	7263	7263	7263
5°	7291	7207	7249
10°	7312	7227	7237
15°	7325	7184	6989
20°	7373	7040	6806
25°	7391	6907	6676
30°	7410	6794	6528
35°	7387	6698	6353
40°	7353	6576	6112
45°	7257	6429	5099
50°	7138	6292	4601
55°	6997	6086	4428
60°	6877	5810	4306
65°	6776	5564	4303
70°	6600	5347	4370
75°	6299	5088	4402
80°	5898	4575	4091
85°	5397	3236	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.0
10°-20°	363.2	8.6
20°-30°	542.7	12.9
30°-40°	647.9	15.4
40°-50°	647.9	15.4
50°-60°	560.8	13.4
60°-70°	430.4	10.2
70°-80°	263.7	6.3
80°-90°	74.3	1.8
90°-100°	42.0	1.0
100°-110°	66.6	1.6
110°-120°	77.9	1.9
120°-130°	84.1	2.0
130°-140°	82.8	2.0
140°-150°	73.3	1.7
150°-160°	60.3	1.4
160°-170°	40.4	1.0
170°-180°	14.1	0.3
0°-30°	1033.7	24.6
0°-40°	1681.6	40.0
0°-60°	2890.3	68.8
0°-90°	3658.7	87.1
90°-120°	186.4	4.4
90°-150°	426.6	10.2
90°-180°	541.0	12.9
0°-180°	4200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1350	1346	1334	1344	1342	128
15°	1315	1313	1289	1266	1254	372
25°	1245	1229	1163	1132	1124	574
35°	1124	1095	1020	983	967	704
45°	953	926	845	769	670	735
55°	746	728	649	518	472	668
65°	532	513	437	352	338	526
75°	303	287	245	212	212	320
85°	87	72	52	45	45	91
90°	4	14	21	27	29	6
95°	16	33	45	47	47	15
105°	45	47	66	78	82	47
115°	74	62	78	89	95	72
125°	99	80	89	103	107	88
135°	118	107	99	109	115	91
145°	132	126	111	109	113	82
155°	140	138	130	124	122	65
165°	144	146	142	142	142	41
175°	146	148	148	150	150	14
180°	148	148	148	148	148	



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CATALOG NUMBER: 4WSLA-100-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.6	1349.6	1349.6	1349.6	1349.6
2.5°	1353.4	1349.6	1339.8	1349.6	1347.6
5°	1349.6	1345.7	1334.0	1343.7	1341.8
7.5°	1343.7	1339.8	1328.2	1339.8	1337.9
10°	1337.9	1334.0	1322.4	1330.1	1324.3
12.5°	1328.2	1324.3	1310.7	1301.0	1289.4
15°	1314.6	1312.7	1289.4	1266.1	1254.4
17.5°	1303.0	1297.1	1260.2	1233.1	1219.5
20°	1287.4	1277.7	1229.2	1198.1	1188.4
22.5°	1269.9	1254.4	1196.2	1167.0	1159.3
25°	1244.7	1229.2	1163.1	1132.1	1124.3
27.5°	1219.5	1200.0	1130.1	1099.1	1091.3
30°	1192.3	1165.1	1093.2	1064.1	1050.5
32.5°	1161.2	1134.0	1058.3	1025.3	1009.7
35°	1124.3	1095.2	1019.5	982.6	967.0
37.5°	1089.4	1058.3	980.6	939.8	918.5
40°	1046.6	1015.6	936.0	891.3	869.9
42.5°	1002.0	972.8	893.2	838.9	786.4
45°	953.4	926.2	844.7	769.0	669.9
47.5°	902.9	879.6	800.0	697.1	602.0
50°	852.5	829.2	751.5	629.1	549.5
52.5°	802.0	782.5	697.1	572.8	506.8
55°	745.7	728.2	648.6	518.5	471.9
57.5°	695.2	677.7	592.3	473.8	435.0
60°	638.9	623.3	539.8	429.1	400.0
62.5°	586.4	569.0	487.4	390.3	368.9
65°	532.1	512.6	436.9	351.5	337.9
67.5°	475.7	456.3	388.4	316.5	308.7
70°	419.4	403.9	339.8	281.6	277.7
72.5°	361.2	343.7	291.3	248.6	248.6
75°	302.9	287.4	244.7	211.7	211.7
77.5°	242.7	235.0	196.1	172.8	174.8
80°	190.3	180.6	147.6	132.0	132.0
82.5°	139.8	128.2	99.0	87.4	91.3
85°	87.4	71.8	52.4	44.7	44.7
87.5°	27.2	21.4	15.5	17.5	17.5
90°	3.9	13.6	21.4	27.2	29.1
92.5°	9.7	25.2	31.1	36.9	38.8
95°	15.5	33.0	44.7	46.6	46.6
97.5°	21.4	36.9	54.4	62.1	62.1
100°	29.1	38.8	58.3	69.9	71.8
102.5°	36.9	42.7	62.1	73.8	77.7
105°	44.7	46.6	66.0	77.7	81.6



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CATALOG NUMBER: 4WSLA-100-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.0	58.3	73.8	87.4	91.3
115°	73.8	62.1	77.7	89.3	95.1
117.5°	79.6	68.0	81.6	93.2	97.1
120°	85.4	71.8	83.5	97.1	101.0
122.5°	93.2	75.7	87.4	99.0	104.9
125°	99.0	79.6	89.3	102.9	106.8
127.5°	104.9	87.4	91.3	104.9	108.7
130°	108.7	95.1	93.2	106.8	110.7
132.5°	114.6	101.0	95.1	108.7	112.6
135°	118.5	106.8	99.0	108.7	114.6
137.5°	122.3	112.6	99.0	108.7	112.6
140°	126.2	118.5	101.0	108.7	112.6
142.5°	128.2	122.3	102.9	108.7	112.6
145°	132.0	126.2	110.7	108.7	112.6
147.5°	134.0	130.1	116.5	108.7	112.6
150°	135.9	134.0	122.3	110.7	110.7
152.5°	137.9	135.9	126.2	118.5	114.6
155°	139.8	137.9	130.1	124.3	122.3
157.5°	141.8	141.8	134.0	130.1	128.2
160°	141.8	143.7	137.9	134.0	132.0
162.5°	143.7	145.6	139.8	137.9	135.9
165°	143.7	145.6	141.8	141.8	141.8
167.5°	145.6	147.6	145.6	143.7	143.7
170°	145.6	147.6	145.6	145.6	145.6
172.5°	145.6	147.6	147.6	147.6	147.6
175°	145.6	147.6	147.6	149.5	149.5
177.5°	145.6	147.6	147.6	147.6	147.6
180°	147.6	147.6	147.6	147.6	147.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	52.4	50.5	68.0	81.6	85.4
110°	58.3	54.4	71.8	83.5	87.4



(END OF REPORT)