

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: P520754

Luminaire Tested: **8WSLA-50-L840-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520754
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: 8WSLA-50-L840-UPL15-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

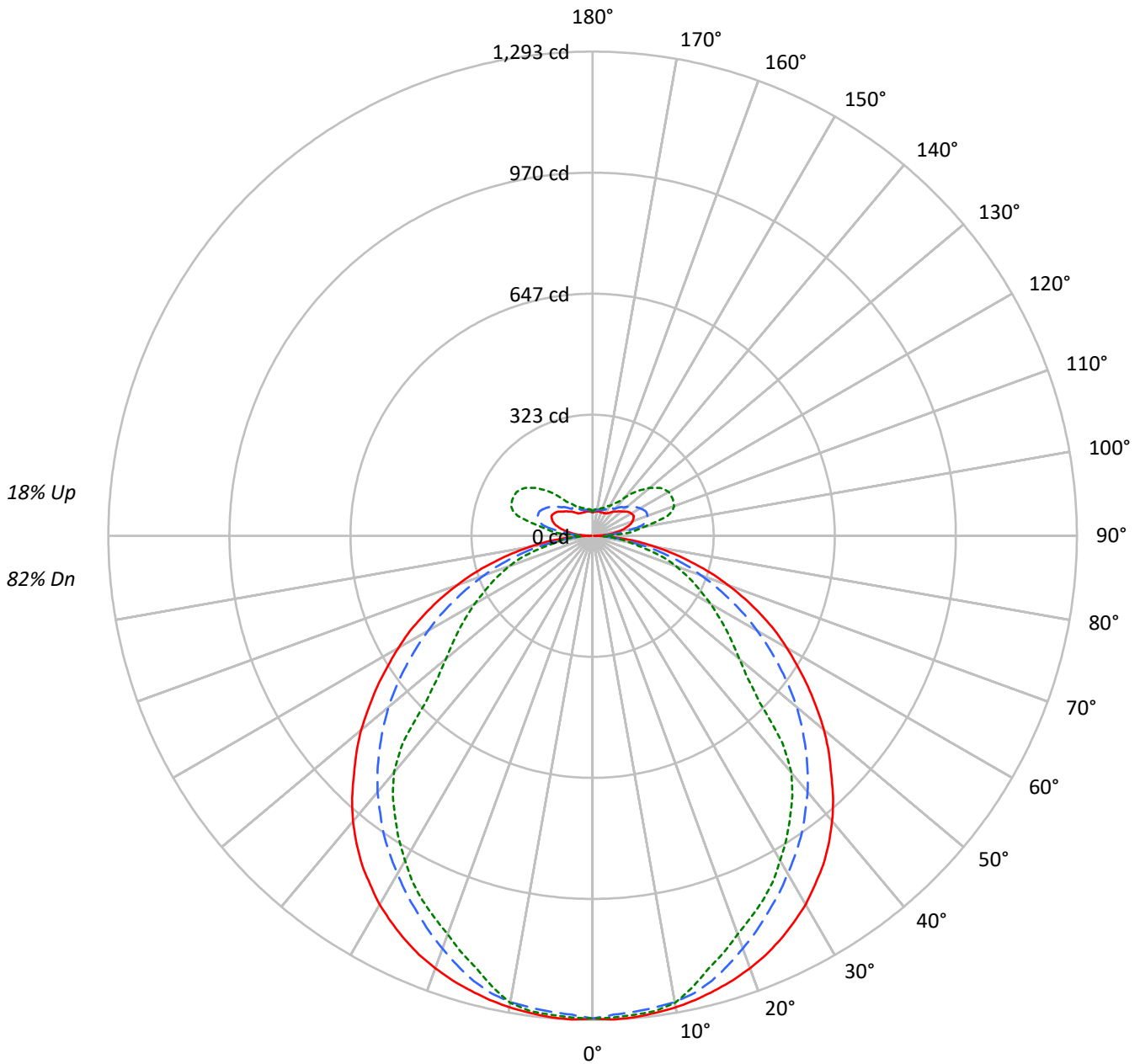
Lumens per Lamp: N/A
Luminaire Lumens: 4175.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 30.5
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°	3469	3469	3469
5°	3486	3447	3468
10°	3494	3455	3462
15°	3504	3428	3333
20°	3519	3359	3242
25°	3529	3292	3191
30°	3535	3238	3112
35°	3526	3195	3019
40°	3495	3137	2898
45°	3428	3060	2403
50°	3377	2977	2140
55°	3294	2859	2037
60°	3223	2730	1956
65°	3147	2581	1898
70°	3024	2417	1862
75°	2855	2216	1712
80°	2614	1864	1520
85°	2340	1615	1535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	2.9
10°-20°	347.1	8.3
20°-30°	517.9	12.4
30°-40°	617.1	14.8
40°-50°	613.9	14.7
50°-60°	526.1	12.6
60°-70°	396.2	9.5
70°-80°	229.5	5.5
80°-90°	69.0	1.7
90°-100°	74.0	1.8
100°-110°	152.1	3.6
110°-120°	160.8	3.9
120°-130°	134.1	3.2
130°-140°	93.7	2.2
140°-150°	58.3	1.4
150°-160°	36.1	0.9
160°-170°	20.4	0.5
170°-180°	6.6	0.2
0°-30°	987.2	23.6
0°-40°	1604.3	38.4
0°-60°	2744.3	65.7
0°-90°	3438.9	82.4
90°-120°	386.9	9.3
90°-150°	673.0	16.1
90°-180°	736.0	17.6
0°-180°	4175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1290	1286	1276	1285	1284	123
15°	1258	1256	1230	1209	1196	355
25°	1188	1172	1109	1081	1075	548
35°	1073	1045	973	935	919	670
45°	901	879	804	724	632	696
55°	702	692	609	484	434	628
65°	494	482	405	315	298	489
75°	275	265	213	170	165	291
85°	76	67	52	50	50	81
90°	4	18	31	39	42	8
95°	42	56	64	94	102	40
105°	98	102	146	196	208	102
115°	122	103	156	214	235	118
125°	112	99	135	197	222	100
135°	92	99	108	146	169	71
145°	74	86	94	101	107	47
155°	68	72	77	84	85	31
165°	67	69	72	74	74	19
175°	65	67	68	69	71	6
180°	64	64	64	64	64	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.1	1289.1	1289.1	1289.1	1289.1
2.5°	1293.0	1290.4	1280.0	1290.4	1287.8
5°	1290.4	1286.5	1276.0	1285.2	1283.9
7.5°	1285.2	1282.6	1270.8	1281.3	1280.0
10°	1278.7	1274.7	1264.3	1272.1	1266.9
12.5°	1269.5	1266.9	1251.2	1244.7	1234.2
15°	1257.7	1256.4	1230.3	1209.4	1196.3
17.5°	1244.7	1239.4	1202.8	1178.0	1166.2
20°	1229.0	1221.1	1172.8	1144.0	1132.2
22.5°	1210.7	1198.9	1142.7	1115.2	1103.5
25°	1188.5	1171.5	1108.7	1081.2	1074.7
27.5°	1163.6	1144.0	1077.3	1049.9	1042.0
30°	1137.5	1112.6	1042.0	1015.9	1001.5
32.5°	1104.8	1081.2	1008.0	978.0	962.3
35°	1073.4	1044.6	972.7	934.8	919.1
37.5°	1035.5	1006.7	932.2	894.3	876.0
40°	995.0	966.2	893.0	848.5	825.0
42.5°	950.5	924.4	849.8	796.2	750.5
45°	900.8	878.6	804.1	724.3	631.5
47.5°	855.1	834.1	758.3	655.0	559.6
50°	806.7	787.1	711.2	589.7	511.2
52.5°	753.1	738.7	660.3	533.4	470.7
55°	702.1	691.6	609.3	483.7	434.1
57.5°	648.5	638.0	558.3	436.7	397.5
60°	598.8	588.3	507.3	394.8	363.5
62.5°	549.1	534.7	457.6	354.3	328.2
65°	494.2	482.4	405.3	315.1	298.1
67.5°	439.3	428.8	356.9	278.5	266.7
70°	384.4	375.2	307.2	243.2	236.6
72.5°	330.8	319.0	262.8	207.9	205.3
75°	274.6	265.4	213.1	170.0	164.7
77.5°	221.0	213.1	167.4	129.4	125.5
80°	168.7	160.8	120.3	94.1	98.1
82.5°	124.2	113.7	81.1	73.2	77.1
85°	75.8	66.7	52.3	49.7	49.7
87.5°	26.1	24.8	23.5	27.5	28.8
90°	3.9	18.3	31.4	39.2	41.8
92.5°	22.2	32.7	43.1	51.0	53.6
95°	41.8	56.2	64.1	94.1	102.0
97.5°	57.5	74.5	83.7	111.1	119.0
100°	73.2	88.9	117.7	132.1	141.2
102.5°	86.3	98.1	138.6	167.4	172.6
105°	98.1	102.0	146.4	196.1	207.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.7	104.6	156.9	213.1	234.0
115°	121.6	103.3	155.6	214.4	235.3
117.5°	121.6	103.3	151.7	214.4	235.3
120°	119.0	104.6	146.4	211.8	234.0
122.5°	116.4	102.0	141.2	206.6	228.8
125°	112.4	99.4	134.7	197.4	222.3
127.5°	105.9	102.0	128.1	185.7	210.5
130°	100.7	103.3	120.3	173.9	198.7
132.5°	96.7	100.7	112.4	160.8	183.0
135°	91.5	99.4	108.5	146.4	168.7
137.5°	87.6	95.4	102.0	133.4	151.7
140°	83.7	92.8	95.4	116.4	132.1
142.5°	78.4	88.9	90.2	108.5	115.1
145°	74.5	86.3	94.1	100.7	107.2
147.5°	70.6	81.1	91.5	92.8	99.4
150°	69.3	75.8	87.6	88.9	91.5
152.5°	68.0	73.2	81.1	88.9	90.2
155°	68.0	71.9	77.1	83.7	85.0
157.5°	66.7	71.9	74.5	79.8	81.1
160°	66.7	70.6	73.2	77.1	78.4
162.5°	66.7	70.6	71.9	75.8	77.1
165°	66.7	69.3	71.9	74.5	74.5
167.5°	66.7	69.3	70.6	73.2	73.2
170°	66.7	68.0	70.6	71.9	71.9
172.5°	65.4	68.0	69.3	71.9	71.9
175°	65.4	66.7	68.0	69.3	70.6
177.5°	62.8	66.7	68.0	69.3	68.0
180°	64.1	64.1	64.1	64.1	64.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	107.2	103.3	151.7	206.6	223.6
110°	113.7	104.6	155.6	210.5	231.4



(END OF REPORT)