

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: P520758

Luminaire Tested: **8WSLA-50-L850-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520758
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: 8WSLA-50-L850-UPL8-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

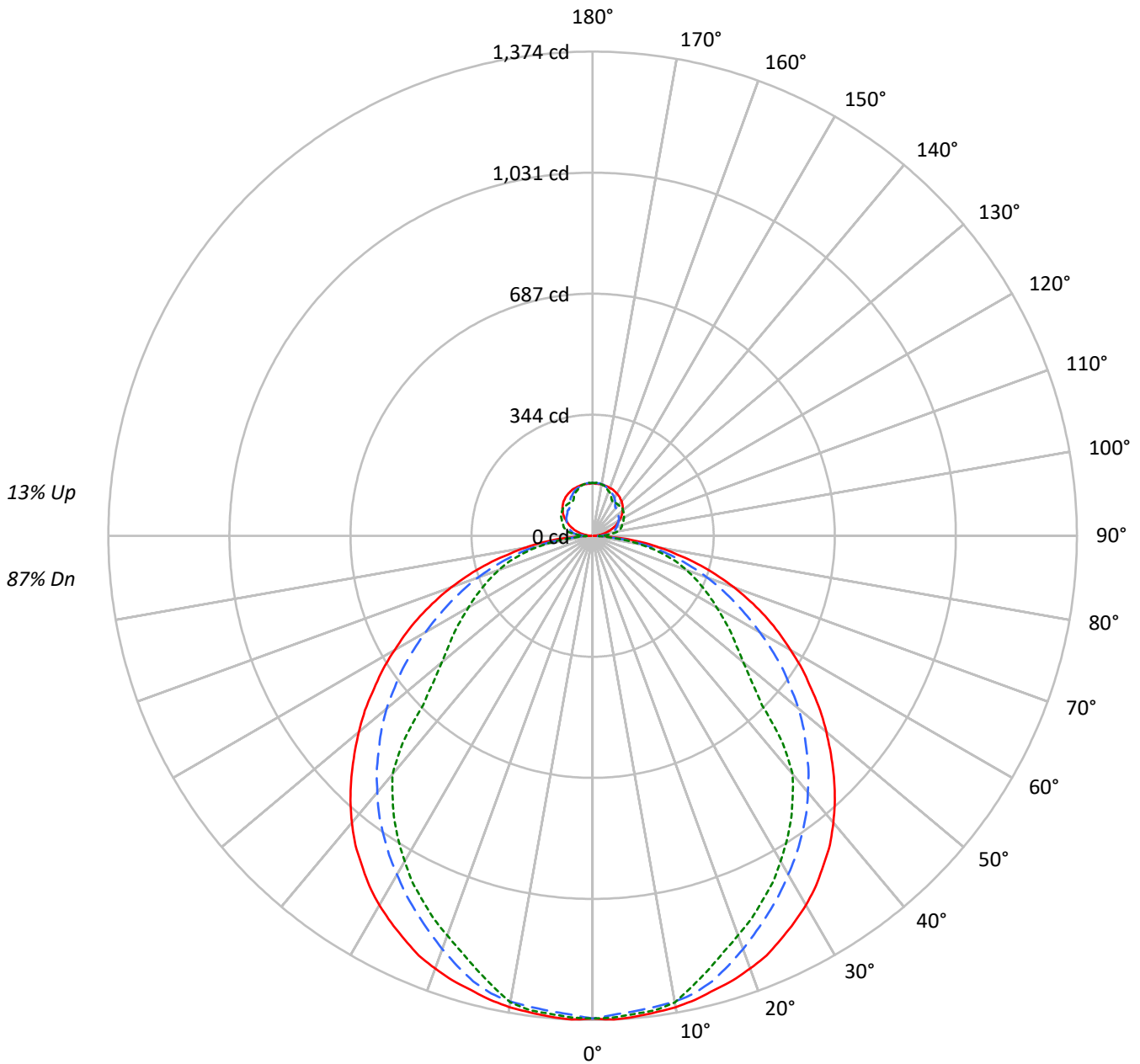
Lumens per Lamp: N/A
Luminaire Lumens: 4264.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	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°	3687	3687	3687
5°	3701	3659	3680
10°	3712	3668	3674
15°	3718	3647	3548
20°	3743	3574	3455
25°	3752	3506	3389
30°	3761	3449	3314
35°	3750	3400	3225
40°	3733	3338	3103
45°	3684	3264	2588
50°	3623	3194	2336
55°	3552	3089	2248
60°	3491	2949	2186
65°	3440	2825	2184
70°	3350	2714	2218
75°	3197	2583	2234
80°	2994	2321	2078
85°	2739	1643	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	3.0
10°-20°	368.8	8.6
20°-30°	551.0	12.9
30°-40°	657.7	15.4
40°-50°	657.8	15.4
50°-60°	569.3	13.4
60°-70°	437.0	10.2
70°-80°	267.7	6.3
80°-90°	75.4	1.8
90°-100°	42.6	1.0
100°-110°	67.6	1.6
110°-120°	79.1	1.9
120°-130°	85.3	2.0
130°-140°	84.1	2.0
140°-150°	74.4	1.7
150°-160°	61.2	1.4
160°-170°	41.0	1.0
170°-180°	14.3	0.3
0°-30°	1049.5	24.6
0°-40°	1707.2	40.0
0°-60°	2934.3	68.8
0°-90°	3714.4	87.1
90°-120°	189.3	4.4
90°-150°	433.1	10.2
90°-180°	550.0	12.9
0°-180°	4264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1370	1366	1354	1364	1362	130
15°	1335	1333	1309	1285	1274	378
25°	1264	1248	1181	1149	1141	583
35°	1141	1112	1035	998	982	715
45°	968	940	858	781	680	746
55°	757	739	658	526	479	679
65°	540	520	444	357	343	534
75°	308	292	248	215	215	324
85°	89	73	53	45	45	93
90°	4	14	22	28	30	6
95°	16	34	45	47	47	16
105°	45	47	67	79	83	48
115°	75	63	79	91	97	73
125°	100	81	91	104	108	90
135°	120	108	100	110	116	93
145°	134	128	112	110	114	84
155°	142	140	132	126	124	65
165°	146	148	144	144	144	41
175°	148	150	150	152	152	14
180°	150	150	150	150	150	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.1	1370.1	1370.1	1370.1	1370.1
2.5°	1374.1	1370.1	1360.3	1370.1	1368.2
5°	1370.1	1366.2	1354.4	1364.2	1362.2
7.5°	1364.2	1360.3	1348.4	1360.3	1358.3
10°	1358.3	1354.4	1342.5	1350.4	1344.5
12.5°	1348.4	1344.5	1330.7	1320.8	1309.0
15°	1334.6	1332.7	1309.0	1285.4	1273.5
17.5°	1322.8	1316.9	1279.4	1251.8	1238.0
20°	1307.0	1297.2	1247.9	1216.4	1206.5
22.5°	1289.3	1273.5	1214.4	1184.8	1176.9
25°	1263.7	1247.9	1180.9	1149.3	1141.4
27.5°	1238.0	1218.3	1147.4	1115.8	1107.9
30°	1210.4	1182.8	1109.9	1080.3	1066.5
32.5°	1178.9	1151.3	1074.4	1040.9	1025.1
35°	1141.4	1111.9	1035.0	997.5	981.8
37.5°	1106.0	1074.4	995.6	954.2	932.5
40°	1062.6	1031.0	950.2	904.9	883.2
42.5°	1017.2	987.7	906.8	851.6	798.4
45°	968.0	940.4	857.6	780.7	680.1
47.5°	916.7	893.0	812.2	707.7	611.1
50°	865.4	841.8	762.9	638.7	557.9
52.5°	814.2	794.5	707.7	581.6	514.5
55°	757.0	739.3	658.4	526.4	479.1
57.5°	705.8	688.0	601.3	481.0	441.6
60°	648.6	632.8	548.0	435.7	406.1
62.5°	595.4	577.6	494.8	396.3	374.6
65°	540.2	520.4	443.6	356.8	343.0
67.5°	483.0	463.3	394.3	321.3	313.5
70°	425.8	410.1	345.0	285.9	281.9
72.5°	366.7	348.9	295.7	252.3	252.3
75°	307.5	291.8	248.4	214.9	214.9
77.5°	246.4	238.5	199.1	175.5	177.4
80°	193.2	183.3	149.8	134.1	134.1
82.5°	141.9	130.1	100.5	88.7	92.7
85°	88.7	72.9	53.2	45.3	45.3
87.5°	27.6	21.7	15.8	17.7	17.7
90°	3.9	13.8	21.7	27.6	29.6
92.5°	9.9	25.6	31.5	37.5	39.4
95°	15.8	33.5	45.3	47.3	47.3
97.5°	21.7	37.5	55.2	63.1	63.1
100°	29.6	39.4	59.1	71.0	72.9
102.5°	37.5	43.4	63.1	74.9	78.9
105°	45.3	47.3	67.0	78.9	82.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.0	59.1	74.9	88.7	92.7
115°	74.9	63.1	78.9	90.7	96.6
117.5°	80.8	69.0	82.8	94.6	98.6
120°	86.7	72.9	84.8	98.6	102.5
122.5°	94.6	76.9	88.7	100.5	106.5
125°	100.5	80.8	90.7	104.5	108.4
127.5°	106.5	88.7	92.7	106.5	110.4
130°	110.4	96.6	94.6	108.4	112.4
132.5°	116.3	102.5	96.6	110.4	114.3
135°	120.3	108.4	100.5	110.4	116.3
137.5°	124.2	114.3	100.5	110.4	114.3
140°	128.1	120.3	102.5	110.4	114.3
142.5°	130.1	124.2	104.5	110.4	114.3
145°	134.1	128.1	112.4	110.4	114.3
147.5°	136.0	132.1	118.3	110.4	114.3
150°	138.0	136.0	124.2	112.4	112.4
152.5°	140.0	138.0	128.1	120.3	116.3
155°	141.9	140.0	132.1	126.2	124.2
157.5°	143.9	143.9	136.0	132.1	130.1
160°	143.9	145.9	140.0	136.0	134.1
162.5°	145.9	147.9	141.9	140.0	138.0
165°	145.9	147.9	143.9	143.9	143.9
167.5°	147.9	149.8	147.9	145.9	145.9
170°	147.9	149.8	147.9	147.9	147.9
172.5°	147.9	149.8	149.8	149.8	149.8
175°	147.9	149.8	149.8	151.8	151.8
177.5°	147.9	149.8	149.8	149.8	149.8
180°	149.8	149.8	149.8	149.8	149.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	53.2	51.3	69.0	82.8	86.7
110°	59.1	55.2	72.9	84.8	88.7



(END OF REPORT)