

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: P520770

Luminaire Tested: **8WSLA-50-L950-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520770
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-L950-UPL8-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

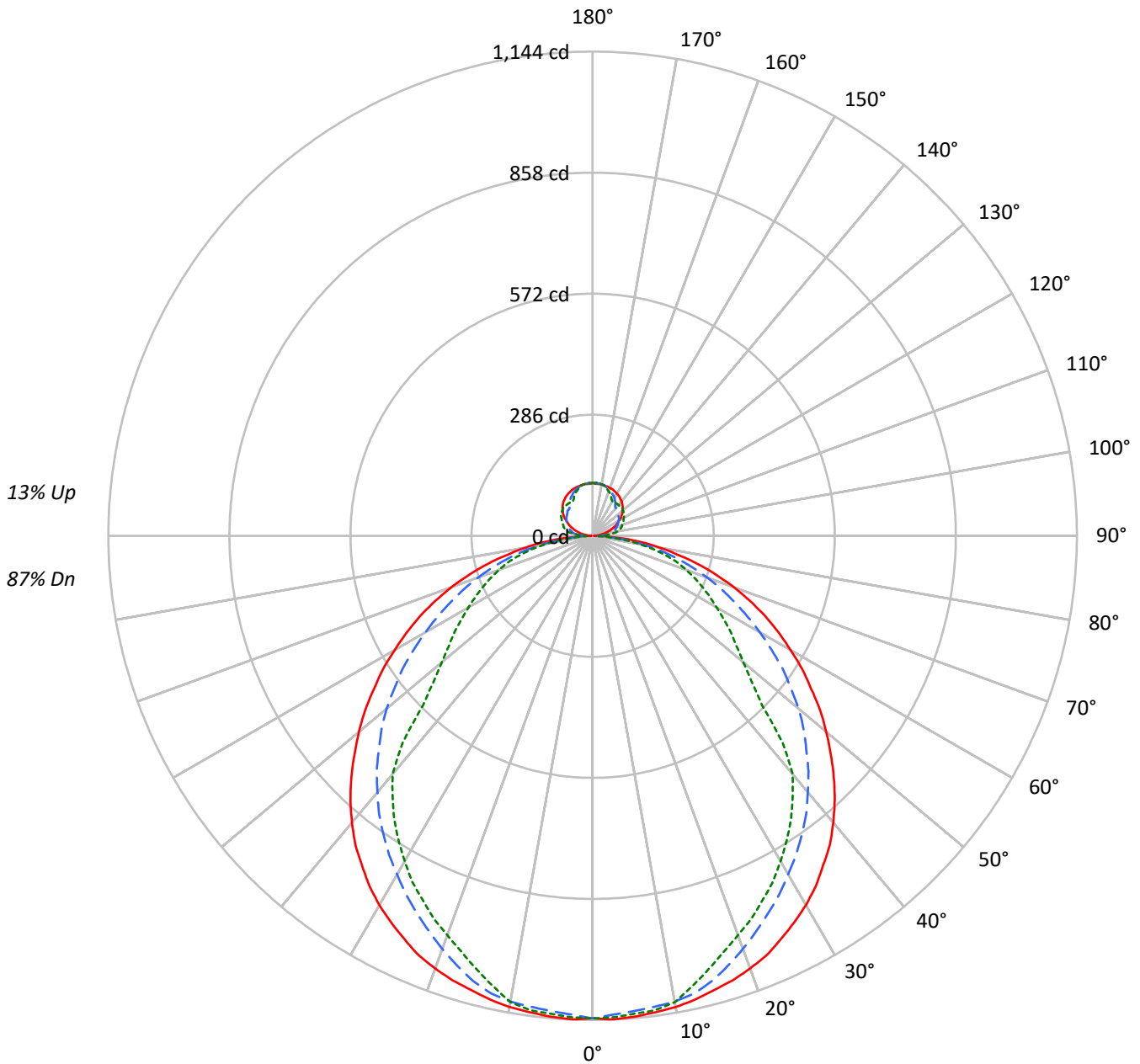
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3549.0 lumens
Efficiency: N/A
Efficacy: 116.4 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°	3069	3069	3069
5°	3081	3045	3063
10°	3089	3053	3058
15°	3095	3035	2953
20°	3115	2974	2876
25°	3123	2918	2821
30°	3131	2871	2758
35°	3121	2830	2684
40°	3107	2778	2582
45°	3066	2716	2154
50°	3015	2658	1944
55°	2956	2571	1871
60°	2905	2455	1819
65°	2863	2351	1818
70°	2788	2259	1846
75°	2662	2149	1860
80°	2492	1932	1729
85°	2279	1368	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	3.0
10°-20°	306.9	8.6
20°-30°	458.6	12.9
30°-40°	547.5	15.4
40°-50°	547.5	15.4
50°-60°	473.8	13.4
60°-70°	363.7	10.2
70°-80°	222.8	6.3
80°-90°	62.7	1.8
90°-100°	35.5	1.0
100°-110°	56.3	1.6
110°-120°	65.8	1.9
120°-130°	71.0	2.0
130°-140°	70.0	2.0
140°-150°	61.9	1.7
150°-160°	51.0	1.4
160°-170°	34.1	1.0
170°-180°	11.9	0.3
0°-30°	873.5	24.6
0°-40°	1420.9	40.0
0°-60°	2442.3	68.8
0°-90°	3091.6	87.1
90°-120°	157.5	4.4
90°-150°	360.5	10.2
90°-180°	457.0	12.9
0°-180°	3549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1140	1137	1127	1136	1134	109
15°	1111	1109	1090	1070	1060	314
25°	1052	1039	983	957	950	485
35°	950	925	861	830	817	595
45°	806	783	714	650	566	621
55°	630	615	548	438	399	565
65°	450	433	369	297	286	444
75°	256	243	207	179	179	270
85°	74	61	44	38	38	77
90°	3	12	18	23	25	5
95°	13	28	38	39	39	13
105°	38	39	56	66	69	40
115°	62	52	66	76	80	61
125°	84	67	76	87	90	75
135°	100	90	84	92	97	77
145°	112	107	94	92	95	70
155°	118	116	110	105	103	55
165°	121	123	120	120	120	34
175°	123	125	125	126	126	12
180°	125	125	125	125	125	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.4	1140.4	1140.4	1140.4	1140.4
2.5°	1143.7	1140.4	1132.2	1140.4	1138.7
5°	1140.4	1137.1	1127.3	1135.5	1133.8
7.5°	1135.5	1132.2	1122.3	1132.2	1130.5
10°	1130.5	1127.3	1117.4	1124.0	1119.0
12.5°	1122.3	1119.0	1107.6	1099.4	1089.5
15°	1110.8	1109.2	1089.5	1069.8	1060.0
17.5°	1101.0	1096.1	1064.9	1041.9	1030.4
20°	1087.9	1079.7	1038.6	1012.4	1004.2
22.5°	1073.1	1060.0	1010.8	986.1	979.6
25°	1051.8	1038.6	982.9	956.6	950.0
27.5°	1030.4	1014.0	955.0	928.7	922.1
30°	1007.5	984.5	923.8	899.2	887.7
32.5°	981.2	958.2	894.3	866.4	853.2
35°	950.0	925.4	861.4	830.3	817.1
37.5°	920.5	894.3	828.6	794.2	776.1
40°	884.4	858.2	790.9	753.1	735.1
42.5°	846.7	822.1	754.8	708.8	664.5
45°	805.6	782.7	713.8	649.8	566.1
47.5°	763.0	743.3	676.0	589.1	508.7
50°	720.3	700.6	635.0	531.6	464.4
52.5°	677.7	661.3	589.1	484.0	428.3
55°	630.1	615.3	548.0	438.1	398.7
57.5°	587.4	572.6	500.5	400.4	367.5
60°	539.8	526.7	456.2	362.6	338.0
62.5°	495.5	480.8	411.8	329.8	311.8
65°	449.6	433.2	369.2	297.0	285.5
67.5°	402.0	385.6	328.2	267.5	260.9
70°	354.4	341.3	287.1	237.9	234.6
72.5°	305.2	290.4	246.1	210.0	210.0
75°	256.0	242.8	206.7	178.9	178.9
77.5°	205.1	198.5	165.7	146.0	147.7
80°	160.8	152.6	124.7	111.6	111.6
82.5°	118.1	108.3	83.7	73.8	77.1
85°	73.8	60.7	44.3	37.7	37.7
87.5°	23.0	18.0	13.1	14.8	14.8
90°	3.3	11.5	18.0	23.0	24.6
92.5°	8.2	21.3	26.3	31.2	32.8
95°	13.1	27.9	37.7	39.4	39.4
97.5°	18.0	31.2	45.9	52.5	52.5
100°	24.6	32.8	49.2	59.1	60.7
102.5°	31.2	36.1	52.5	62.4	65.6
105°	37.7	39.4	55.8	65.6	68.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.8	49.2	62.4	73.8	77.1
115°	62.4	52.5	65.6	75.5	80.4
117.5°	67.3	57.4	68.9	78.8	82.0
120°	72.2	60.7	70.6	82.0	85.3
122.5°	78.8	64.0	73.8	83.7	88.6
125°	83.7	67.3	75.5	87.0	90.2
127.5°	88.6	73.8	77.1	88.6	91.9
130°	91.9	80.4	78.8	90.2	93.5
132.5°	96.8	85.3	80.4	91.9	95.2
135°	100.1	90.2	83.7	91.9	96.8
137.5°	103.4	95.2	83.7	91.9	95.2
140°	106.7	100.1	85.3	91.9	95.2
142.5°	108.3	103.4	87.0	91.9	95.2
145°	111.6	106.7	93.5	91.9	95.2
147.5°	113.2	109.9	98.4	91.9	95.2
150°	114.9	113.2	103.4	93.5	93.5
152.5°	116.5	114.9	106.7	100.1	96.8
155°	118.1	116.5	109.9	105.0	103.4
157.5°	119.8	119.8	113.2	109.9	108.3
160°	119.8	121.4	116.5	113.2	111.6
162.5°	121.4	123.1	118.1	116.5	114.9
165°	121.4	123.1	119.8	119.8	119.8
167.5°	123.1	124.7	123.1	121.4	121.4
170°	123.1	124.7	123.1	123.1	123.1
172.5°	123.1	124.7	124.7	124.7	124.7
175°	123.1	124.7	124.7	126.3	126.3
177.5°	123.1	124.7	124.7	124.7	124.7
180°	124.7	124.7	124.7	124.7	124.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	44.3	42.7	57.4	68.9	72.2
110°	49.2	45.9	60.7	70.6	73.8



(END OF REPORT)