

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: P520755

Luminaire Tested: **8WSLA-50-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520755
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-L840-UPL8-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

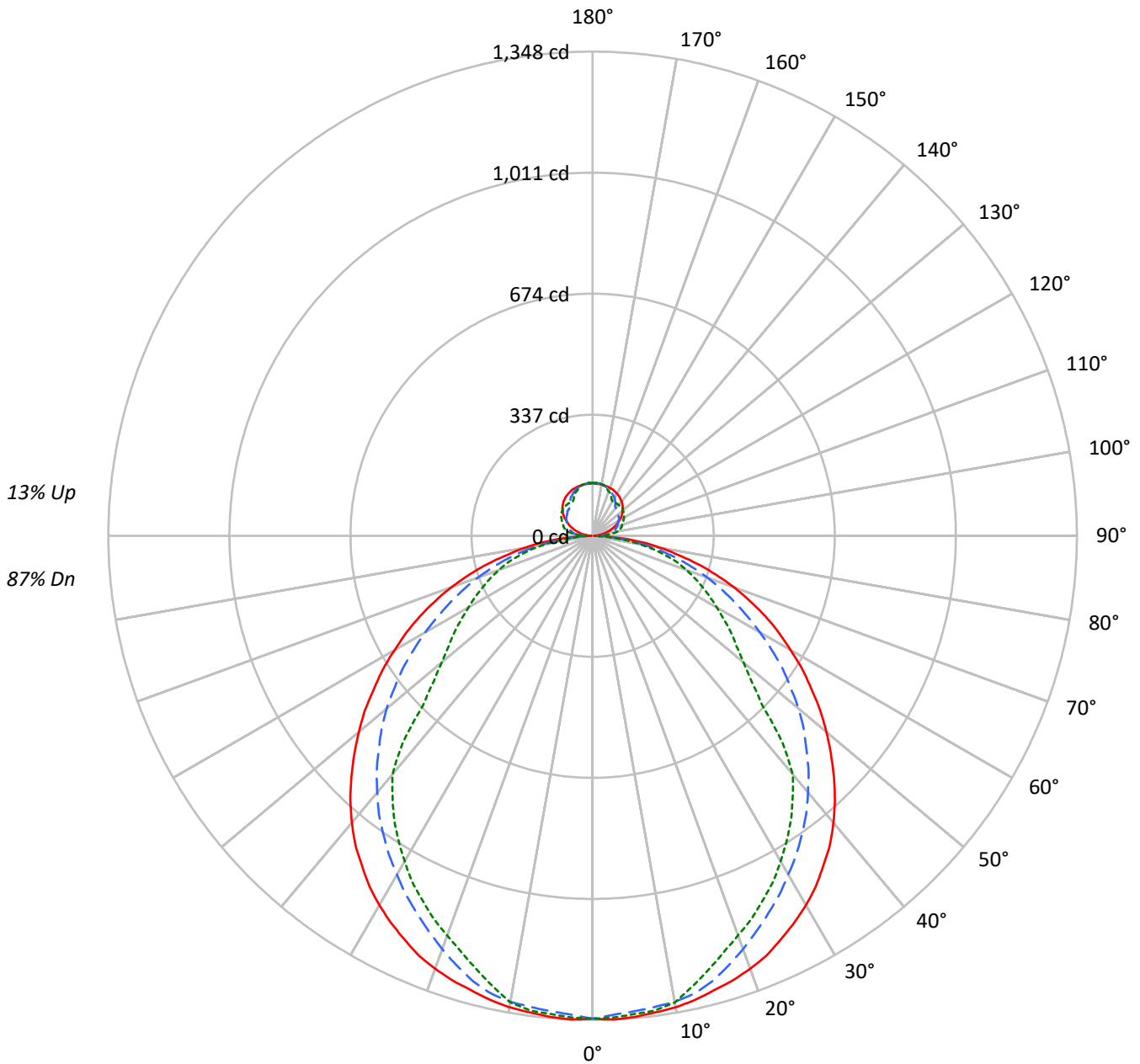
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4184.0 lumens
Efficiency: N/A
Efficacy: 137.2 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°	3618	3618	3618
5°	3632	3590	3611
10°	3642	3600	3605
15°	3648	3578	3481
20°	3673	3507	3390
25°	3682	3440	3325
30°	3691	3384	3252
35°	3679	3336	3165
40°	3662	3275	3044
45°	3615	3202	2540
50°	3555	3134	2292
55°	3485	3031	2206
60°	3425	2894	2145
65°	3375	2771	2143
70°	3287	2663	2176
75°	3138	2534	2193
80°	2938	2278	2038
85°	2686	1612	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	3.0
10°-20°	361.8	8.6
20°-30°	540.7	12.9
30°-40°	645.4	15.4
40°-50°	645.5	15.4
50°-60°	558.6	13.4
60°-70°	428.8	10.2
70°-80°	262.7	6.3
80°-90°	74.0	1.8
90°-100°	41.8	1.0
100°-110°	66.4	1.6
110°-120°	77.6	1.9
120°-130°	83.7	2.0
130°-140°	82.5	2.0
140°-150°	73.0	1.7
150°-160°	60.1	1.4
160°-170°	40.2	1.0
170°-180°	14.0	0.3
0°-30°	1029.8	24.6
0°-40°	1675.2	40.0
0°-60°	2879.3	68.8
0°-90°	3644.7	87.1
90°-120°	185.7	4.4
90°-150°	425.0	10.2
90°-180°	539.0	12.9
0°-180°	4184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1344	1340	1329	1339	1337	128
15°	1310	1308	1284	1261	1250	370
25°	1240	1224	1159	1128	1120	572
35°	1120	1091	1016	979	963	701
45°	950	923	842	766	667	732
55°	743	725	646	516	470	666
65°	530	511	435	350	337	524
75°	302	286	244	211	211	318
85°	87	72	52	44	44	91
90°	4	14	21	27	29	6
95°	16	33	44	46	46	15
105°	44	46	66	77	81	47
115°	74	62	77	89	95	72
125°	99	79	89	102	106	88
135°	118	106	99	108	114	91
145°	132	126	110	108	112	82
155°	139	137	130	124	122	64
165°	143	145	141	141	141	41
175°	145	147	147	149	149	14
180°	147	147	147	147	147	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1344.4	1344.4	1344.4	1344.4	1344.4
2.5°	1348.3	1344.4	1334.7	1344.4	1342.5
5°	1344.4	1340.5	1328.9	1338.6	1336.7
7.5°	1338.6	1334.7	1323.1	1334.7	1332.8
10°	1332.8	1328.9	1317.3	1325.1	1319.3
12.5°	1323.1	1319.3	1305.7	1296.1	1284.5
15°	1309.6	1307.7	1284.5	1261.2	1249.6
17.5°	1298.0	1292.2	1255.4	1228.4	1214.8
20°	1282.5	1272.8	1224.5	1193.5	1183.9
22.5°	1265.1	1249.6	1191.6	1162.6	1154.8
25°	1240.0	1224.5	1158.7	1127.8	1120.0
27.5°	1214.8	1195.5	1125.8	1094.9	1087.1
30°	1187.7	1160.6	1089.1	1060.1	1046.5
32.5°	1156.8	1129.7	1054.3	1021.4	1005.9
35°	1120.0	1091.0	1015.6	978.8	963.3
37.5°	1085.2	1054.3	976.9	936.3	915.0
40°	1042.6	1011.7	932.4	887.9	866.6
42.5°	998.2	969.1	889.8	835.7	783.4
45°	949.8	922.7	841.5	766.0	667.4
47.5°	899.5	876.3	797.0	694.5	599.7
50°	849.2	826.0	748.6	626.8	547.4
52.5°	798.9	779.6	694.5	570.7	504.9
55°	742.8	725.4	646.1	516.5	470.1
57.5°	692.5	675.1	590.0	472.0	433.3
60°	636.4	620.9	537.8	427.5	398.5
62.5°	584.2	566.8	485.5	388.8	367.5
65°	530.0	510.7	435.2	350.1	336.6
67.5°	473.9	454.6	386.9	315.3	307.6
70°	417.8	402.4	338.5	280.5	276.6
72.5°	359.8	342.4	290.2	247.6	247.6
75°	301.8	286.3	243.7	210.9	210.9
77.5°	241.8	234.1	195.4	172.2	174.1
80°	189.6	179.9	147.0	131.5	131.5
82.5°	139.3	127.7	98.7	87.0	90.9
85°	87.0	71.6	52.2	44.5	44.5
87.5°	27.1	21.3	15.5	17.4	17.4
90°	3.9	13.5	21.3	27.1	29.0
92.5°	9.7	25.1	31.0	36.8	38.7
95°	15.5	32.9	44.5	46.4	46.4
97.5°	21.3	36.8	54.2	61.9	61.9
100°	29.0	38.7	58.0	69.6	71.6
102.5°	36.8	42.6	61.9	73.5	77.4
105°	44.5	46.4	65.8	77.4	81.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.8	58.0	73.5	87.0	90.9
115°	73.5	61.9	77.4	89.0	94.8
117.5°	79.3	67.7	81.2	92.9	96.7
120°	85.1	71.6	83.2	96.7	100.6
122.5°	92.9	75.4	87.0	98.7	104.5
125°	98.7	79.3	89.0	102.5	106.4
127.5°	104.5	87.0	90.9	104.5	108.3
130°	108.3	94.8	92.9	106.4	110.3
132.5°	114.1	100.6	94.8	108.3	112.2
135°	118.0	106.4	98.7	108.3	114.1
137.5°	121.9	112.2	98.7	108.3	112.2
140°	125.7	118.0	100.6	108.3	112.2
142.5°	127.7	121.9	102.5	108.3	112.2
145°	131.5	125.7	110.3	108.3	112.2
147.5°	133.5	129.6	116.1	108.3	112.2
150°	135.4	133.5	121.9	110.3	110.3
152.5°	137.3	135.4	125.7	118.0	114.1
155°	139.3	137.3	129.6	123.8	121.9
157.5°	141.2	141.2	133.5	129.6	127.7
160°	141.2	143.1	137.3	133.5	131.5
162.5°	143.1	145.1	139.3	137.3	135.4
165°	143.1	145.1	141.2	141.2	141.2
167.5°	145.1	147.0	145.1	143.1	143.1
170°	145.1	147.0	145.1	145.1	145.1
172.5°	145.1	147.0	147.0	147.0	147.0
175°	145.1	147.0	147.0	148.9	148.9
177.5°	145.1	147.0	147.0	147.0	147.0
180°	147.0	147.0	147.0	147.0	147.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	52.2	50.3	67.7	81.2	85.1
110°	58.0	54.2	71.6	83.2	87.0



(END OF REPORT)