

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: P520766

Luminaire Tested: **8WSLA-50-L940-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520766
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-L940-UPL15-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

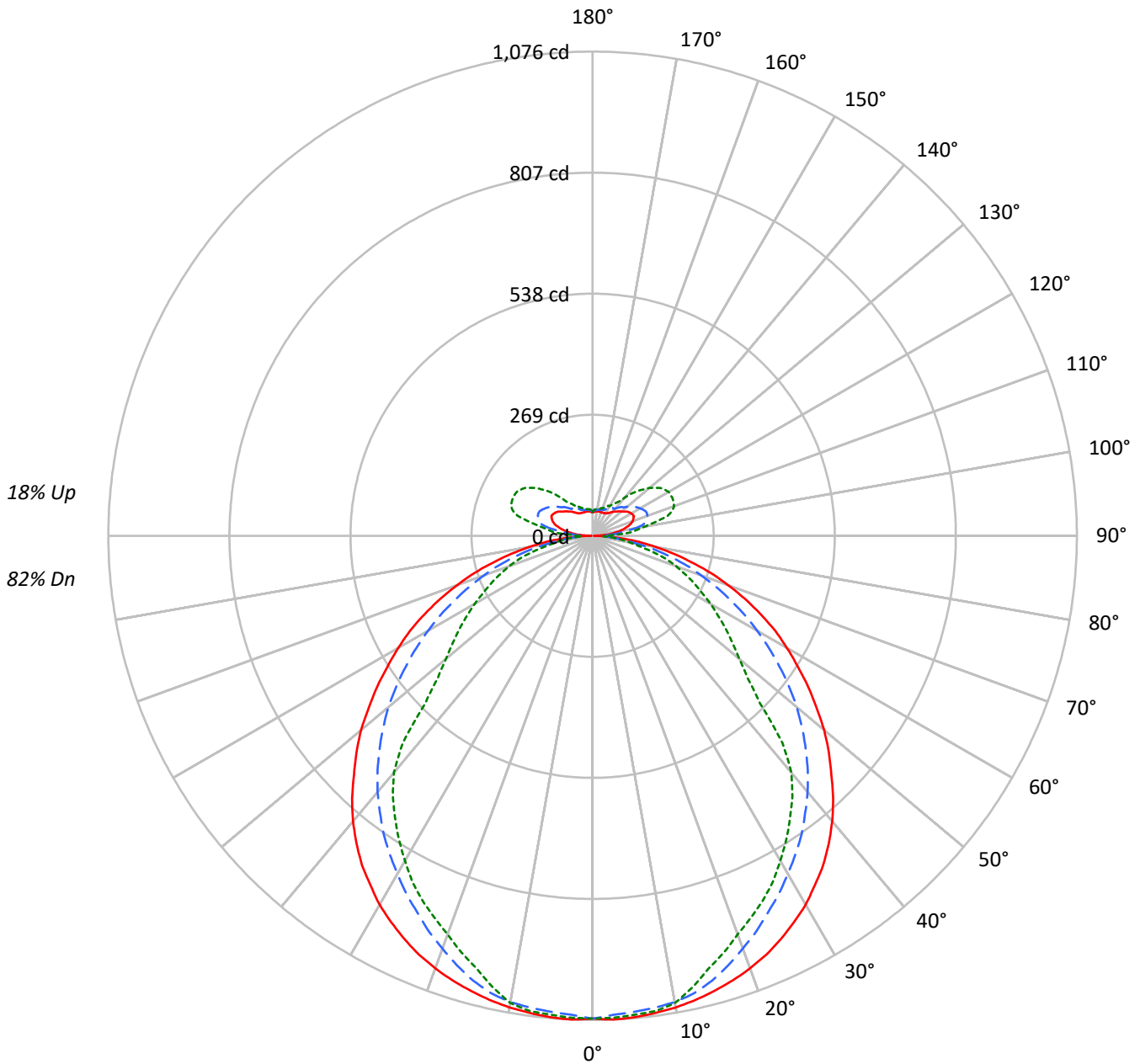
Lumens per Lamp: N/A
Luminaire Lumens: 3475.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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°	2887	2887	2887
5°	2901	2869	2887
10°	2908	2875	2881
15°	2917	2853	2774
20°	2929	2795	2699
25°	2937	2740	2656
30°	2942	2695	2590
35°	2935	2660	2513
40°	2909	2611	2412
45°	2853	2547	2000
50°	2811	2478	1781
55°	2742	2379	1695
60°	2682	2272	1628
65°	2619	2148	1580
70°	2517	2012	1550
75°	2376	1844	1425
80°	2176	1551	1265
85°	1948	1343	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	2.9
10°-20°	288.9	8.3
20°-30°	431.1	12.4
30°-40°	513.7	14.8
40°-50°	510.9	14.7
50°-60°	437.9	12.6
60°-70°	329.8	9.5
70°-80°	191.0	5.5
80°-90°	57.4	1.7
90°-100°	61.6	1.8
100°-110°	126.6	3.6
110°-120°	133.8	3.9
120°-130°	111.6	3.2
130°-140°	78.0	2.2
140°-150°	48.5	1.4
150°-160°	30.1	0.9
160°-170°	16.9	0.5
170°-180°	5.5	0.2
0°-30°	821.7	23.6
0°-40°	1335.3	38.4
0°-60°	2284.2	65.7
0°-90°	2862.4	82.4
90°-120°	322.0	9.3
90°-150°	560.1	16.1
90°-180°	613.0	17.6
0°-180°	3475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1074	1071	1062	1070	1069	102
15°	1047	1046	1024	1007	996	296
25°	989	975	923	900	894	456
35°	893	870	810	778	765	558
45°	750	731	669	603	526	580
55°	584	576	507	403	361	522
65°	411	402	337	262	248	407
75°	228	221	177	142	137	242
85°	63	56	44	41	41	67
90°	3	15	26	33	35	6
95°	35	47	53	78	85	33
105°	82	85	122	163	173	85
115°	101	86	130	178	196	99
125°	94	83	112	164	185	83
135°	76	83	90	122	140	59
145°	62	72	78	84	89	39
155°	57	60	64	70	71	26
165°	56	58	60	62	62	16
175°	54	56	57	58	59	5
180°	53	53	53	53	53	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.0	1073.0	1073.0	1073.0	1073.0
2.5°	1076.2	1074.1	1065.4	1074.1	1071.9
5°	1074.1	1070.8	1062.1	1069.7	1068.6
7.5°	1069.7	1067.5	1057.7	1066.5	1065.4
10°	1064.3	1061.0	1052.3	1058.8	1054.5
12.5°	1056.7	1054.5	1041.4	1036.0	1027.3
15°	1046.9	1045.8	1024.0	1006.6	995.7
17.5°	1036.0	1031.6	1001.2	980.5	970.7
20°	1022.9	1016.4	976.1	952.2	942.4
22.5°	1007.7	997.9	951.1	928.3	918.5
25°	989.2	975.0	922.8	900.0	894.5
27.5°	968.5	952.2	896.7	873.8	867.3
30°	946.8	926.1	867.3	845.5	833.6
32.5°	919.5	900.0	839.0	814.0	800.9
35°	893.4	869.5	809.6	778.1	765.0
37.5°	861.9	837.9	775.9	744.3	729.1
40°	828.1	804.2	743.3	706.3	686.7
42.5°	791.1	769.4	707.3	662.7	624.6
45°	749.8	731.3	669.3	602.9	525.6
47.5°	711.7	694.3	631.2	545.2	465.8
50°	671.4	655.1	592.0	490.8	425.5
52.5°	626.8	614.8	549.6	444.0	391.8
55°	584.4	575.7	507.1	402.6	361.3
57.5°	539.8	531.1	464.7	363.5	330.8
60°	498.4	489.7	422.2	328.6	302.5
62.5°	457.1	445.1	380.9	294.9	273.1
65°	411.3	401.6	337.3	262.3	248.1
67.5°	365.6	356.9	297.1	231.8	222.0
70°	319.9	312.3	255.7	202.4	197.0
72.5°	275.3	265.5	218.7	173.0	170.9
75°	228.5	220.9	177.4	141.5	137.1
77.5°	183.9	177.4	139.3	107.7	104.5
80°	140.4	133.9	100.1	78.4	81.6
82.5°	103.4	94.7	67.5	60.9	64.2
85°	63.1	55.5	43.5	41.4	41.4
87.5°	21.8	20.7	19.6	22.9	23.9
90°	3.3	15.2	26.1	32.6	34.8
92.5°	18.5	27.2	35.9	42.4	44.6
95°	34.8	46.8	53.3	78.4	84.9
97.5°	47.9	62.0	69.6	92.5	99.0
100°	60.9	74.0	97.9	109.9	117.5
102.5°	71.8	81.6	115.4	139.3	143.6
105°	81.6	84.9	121.9	163.2	173.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.9	87.1	130.6	177.4	194.8
115°	101.2	86.0	129.5	178.5	195.9
117.5°	101.2	86.0	126.2	178.5	195.9
120°	99.0	87.1	121.9	176.3	194.8
122.5°	96.9	84.9	117.5	171.9	190.4
125°	93.6	82.7	112.1	164.3	185.0
127.5°	88.1	84.9	106.6	154.5	175.2
130°	83.8	86.0	100.1	144.7	165.4
132.5°	80.5	83.8	93.6	133.9	152.4
135°	76.2	82.7	90.3	121.9	140.4
137.5°	72.9	79.4	84.9	111.0	126.2
140°	69.6	77.3	79.4	96.9	109.9
142.5°	65.3	74.0	75.1	90.3	95.8
145°	62.0	71.8	78.4	83.8	89.2
147.5°	58.8	67.5	76.2	77.3	82.7
150°	57.7	63.1	72.9	74.0	76.2
152.5°	56.6	60.9	67.5	74.0	75.1
155°	56.6	59.9	64.2	69.6	70.7
157.5°	55.5	59.9	62.0	66.4	67.5
160°	55.5	58.8	60.9	64.2	65.3
162.5°	55.5	58.8	59.9	63.1	64.2
165°	55.5	57.7	59.9	62.0	62.0
167.5°	55.5	57.7	58.8	60.9	60.9
170°	55.5	56.6	58.8	59.9	59.9
172.5°	54.4	56.6	57.7	59.9	59.9
175°	54.4	55.5	56.6	57.7	58.8
177.5°	52.2	55.5	56.6	57.7	56.6
180°	53.3	53.3	53.3	53.3	53.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	89.2	86.0	126.2	171.9	186.1
110°	94.7	87.1	129.5	175.2	192.6



(END OF REPORT)