

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: P520647

Luminaire Tested: **8WSLA-100-L940-UPL8-UNV-U**

Issue Date: 5/3/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P520647  
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-100-L940-UPL8-UNV-U  
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

**Summary**

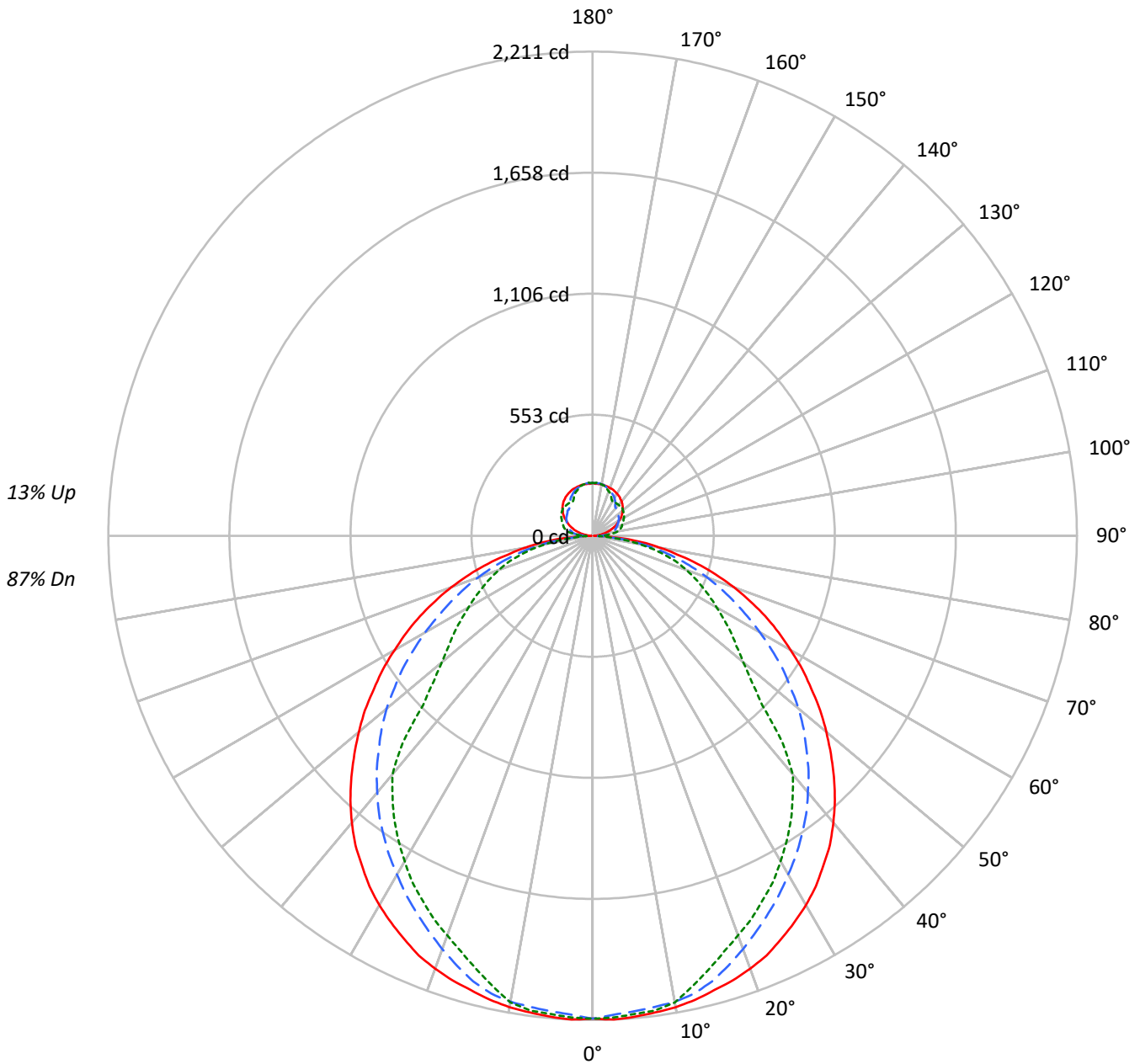
Lumens per Lamp: N/A  
Luminaire Lumens: 6862.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	5933	5933	5933
5°	5956	5887	5922
10°	5973	5904	5912
15°	5984	5869	5710
20°	6023	5751	5560
25°	6038	5643	5454
30°	6053	5550	5333
35°	6034	5472	5190
40°	6007	5372	4993
45°	5928	5252	4165
50°	5830	5140	3759
55°	5716	4971	3617
60°	5618	4747	3517
65°	5535	4545	3515
70°	5392	4368	3570
75°	5146	4156	3595
80°	4818	3736	3343
85°	4409	2646	2254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.7	3.0
10°-20°	593.4	8.6
20°-30°	886.7	12.9
30°-40°	1058.5	15.4
40°-50°	1058.6	15.4
50°-60°	916.2	13.4
60°-70°	703.2	10.2
70°-80°	430.9	6.3
80°-90°	121.3	1.8
90°-100°	68.6	1.0
100°-110°	108.8	1.6
110°-120°	127.2	1.9
120°-130°	137.3	2.0
130°-140°	135.4	2.0
140°-150°	119.7	1.7
150°-160°	98.5	1.4
160°-170°	65.9	1.0
170°-180°	23.0	0.3
0°-30°	1688.9	24.6
0°-40°	2747.4	40.0
0°-60°	4722.1	68.8
0°-90°	5977.5	87.1
90°-120°	304.6	4.4
90°-150°	697.0	10.2
90°-180°	884.0	12.9
0°-180°	6862.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2205	2205	2205	2205	2205	
5°	2205	2199	2180	2195	2192	210
15°	2148	2145	2107	2068	2050	608
25°	2034	2008	1900	1850	1837	938
35°	1837	1789	1666	1605	1580	1150
45°	1558	1513	1380	1256	1094	1201
55°	1218	1190	1060	847	771	1092
65°	869	838	714	574	552	859
75°	495	470	400	346	346	522
85°	143	117	86	73	73	149
90°	6	22	35	44	48	10
95°	25	54	73	76	76	25
105°	73	76	108	127	133	77
115°	121	102	127	146	156	118
125°	162	130	146	168	174	144
135°	194	174	162	178	187	149
145°	216	206	181	178	184	135
155°	228	225	213	203	200	105
165°	235	238	232	232	232	67
175°	238	241	241	244	244	23
180°	241	241	241	241	241	



TEST NUMBER: P520647

CATALOG NUMBER: 8WSLA-100-L940-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2204.9	2204.9	2204.9	2204.9	2204.9
2.5°	2211.3	2204.9	2189.1	2204.9	2201.7
5°	2204.9	2198.6	2179.5	2195.4	2192.2
7.5°	2195.4	2189.1	2170.0	2189.1	2185.9
10°	2185.9	2179.5	2160.5	2173.2	2163.7
12.5°	2170.0	2163.7	2141.5	2125.6	2106.6
15°	2147.8	2144.6	2106.6	2068.5	2049.5
17.5°	2128.8	2119.3	2059.0	2014.6	1992.4
20°	2103.4	2087.5	2008.2	1957.5	1941.6
22.5°	2074.8	2049.5	1954.3	1906.7	1894.0
25°	2033.6	2008.2	1900.4	1849.6	1836.9
27.5°	1992.4	1960.6	1846.4	1795.7	1783.0
30°	1947.9	1903.5	1786.1	1738.6	1716.3
32.5°	1897.2	1852.8	1729.0	1675.1	1649.7
35°	1836.9	1789.3	1665.6	1605.3	1579.9
37.5°	1779.8	1729.0	1602.1	1535.5	1500.6
40°	1710.0	1659.2	1529.2	1456.2	1421.3
42.5°	1637.0	1589.4	1459.4	1370.5	1284.9
45°	1557.7	1513.3	1380.1	1256.3	1094.5
47.5°	1475.2	1437.2	1307.1	1138.9	983.5
50°	1392.7	1354.7	1227.8	1027.9	897.8
52.5°	1310.3	1278.5	1138.9	935.9	828.0
55°	1218.3	1189.7	1059.6	847.1	770.9
57.5°	1135.8	1107.2	967.6	774.1	710.7
60°	1043.8	1018.4	882.0	701.1	653.5
62.5°	958.1	929.6	796.3	637.7	602.8
65°	869.3	837.6	713.8	574.2	552.0
67.5°	777.3	745.5	634.5	517.1	504.4
70°	685.3	659.9	555.2	460.0	453.7
72.5°	590.1	561.5	475.9	406.1	406.1
75°	494.9	469.5	399.7	345.8	345.8
77.5°	396.6	383.9	320.4	282.4	285.5
80°	310.9	295.0	241.1	215.7	215.7
82.5°	228.4	209.4	161.8	142.8	149.1
85°	142.8	117.4	85.7	73.0	73.0
87.5°	44.4	34.9	25.4	28.6	28.6
90°	6.3	22.2	34.9	44.4	47.6
92.5°	15.9	41.2	50.8	60.3	63.5
95°	25.4	53.9	73.0	76.1	76.1
97.5°	34.9	60.3	88.8	101.5	101.5
100°	47.6	63.5	95.2	114.2	117.4
102.5°	60.3	69.8	101.5	120.6	126.9
105°	73.0	76.1	107.9	126.9	133.2



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CATALOG NUMBER: 8WSLA-100-L940-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.9	95.2	120.6	142.8	149.1
115°	120.6	101.5	126.9	145.9	155.5
117.5°	130.1	111.0	133.2	152.3	158.6
120°	139.6	117.4	136.4	158.6	165.0
122.5°	152.3	123.7	142.8	161.8	171.3
125°	161.8	130.1	145.9	168.1	174.5
127.5°	171.3	142.8	149.1	171.3	177.7
130°	177.7	155.5	152.3	174.5	180.8
132.5°	187.2	165.0	155.5	177.7	184.0
135°	193.5	174.5	161.8	177.7	187.2
137.5°	199.9	184.0	161.8	177.7	184.0
140°	206.2	193.5	165.0	177.7	184.0
142.5°	209.4	199.9	168.1	177.7	184.0
145°	215.7	206.2	180.8	177.7	184.0
147.5°	218.9	212.6	190.4	177.7	184.0
150°	222.1	218.9	199.9	180.8	180.8
152.5°	225.3	222.1	206.2	193.5	187.2
155°	228.4	225.3	212.6	203.0	199.9
157.5°	231.6	231.6	218.9	212.6	209.4
160°	231.6	234.8	225.3	218.9	215.7
162.5°	234.8	237.9	228.4	225.3	222.1
165°	234.8	237.9	231.6	231.6	231.6
167.5°	237.9	241.1	237.9	234.8	234.8
170°	237.9	241.1	237.9	237.9	237.9
172.5°	237.9	241.1	241.1	241.1	241.1
175°	237.9	241.1	241.1	244.3	244.3
177.5°	237.9	241.1	241.1	241.1	241.1
180°	241.1	241.1	241.1	241.1	241.1



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	85.7	82.5	111.0	133.2	139.6
110°	95.2	88.8	117.4	136.4	142.8



(END OF REPORT)