

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: P520743

Luminaire Tested: **8WSLA-200-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520743
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-200-L940-UPL8-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

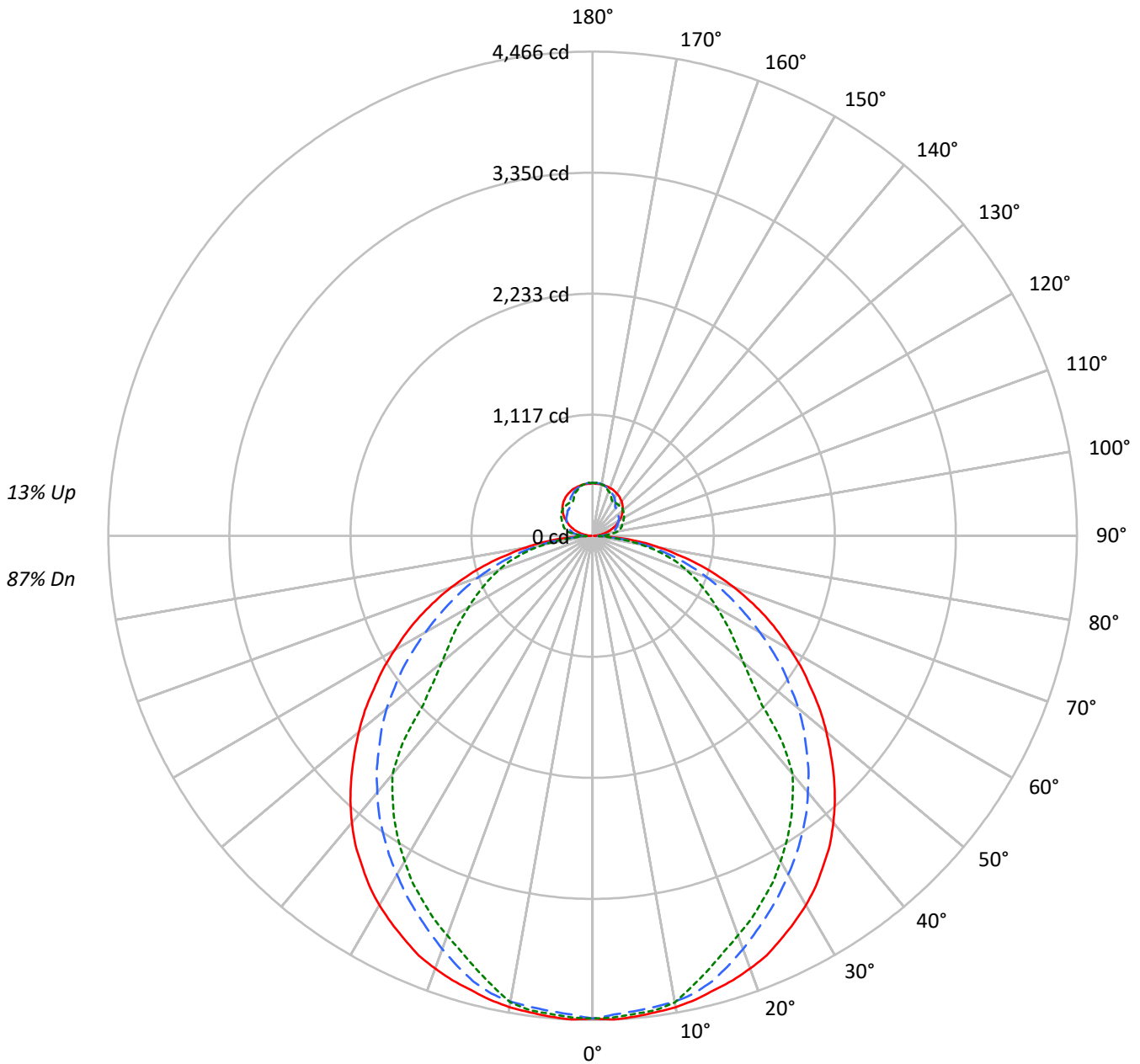
Lumens per Lamp: N/A
Luminaire Lumens: 13859.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 152.3
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				20				20	
RC	80				70				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				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11983	11983	11983
5°	12029	11891	11960
10°	12063	11923	11941
15°	12085	11853	11532
20°	12165	11615	11230
25°	12195	11396	11016
30°	12225	11209	10771
35°	12188	11051	10482
40°	12132	10849	10084
45°	11973	10607	8413
50°	11776	10381	7591
55°	11544	10040	7305
60°	11346	9587	7104
65°	11179	9180	7099
70°	10889	8822	7209
75°	10393	8394	7261
80°	9730	7547	6752
85°	8901	5341	4551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.6	3.0
10°-20°	1198.6	8.6
20°-30°	1790.9	12.9
30°-40°	2137.8	15.4
40°-50°	2138.0	15.4
50°-60°	1850.3	13.4
60°-70°	1420.2	10.2
70°-80°	870.2	6.3
80°-90°	245.0	1.8
90°-100°	138.5	1.0
100°-110°	219.8	1.6
110°-120°	257.0	1.9
120°-130°	277.4	2.0
130°-140°	273.3	2.0
140°-150°	241.8	1.7
150°-160°	199.0	1.4
160°-170°	133.2	1.0
170°-180°	46.4	0.3
0°-30°	3411.0	24.6
0°-40°	5548.9	40.0
0°-60°	9537.2	68.8
0°-90°	12072.7	87.1
90°-120°	615.2	4.4
90°-150°	1407.7	10.2
90°-180°	1786.0	12.9
0°-180°	13859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4453	4453	4453	4453	4453	
5°	4453	4440	4402	4434	4428	424
15°	4338	4332	4255	4178	4139	1227
25°	4107	4056	3838	3736	3710	1895
35°	3710	3614	3364	3242	3191	2323
45°	3146	3056	2787	2537	2211	2426
55°	2460	2403	2140	1711	1557	2206
65°	1756	1692	1442	1160	1115	1734
75°	1000	948	807	698	698	1054
85°	288	237	173	147	147	301
90°	13	45	70	90	96	20
95°	51	109	147	154	154	51
105°	147	154	218	256	269	155
115°	244	205	256	295	314	238
125°	327	263	295	340	352	291
135°	391	352	327	359	378	301
145°	436	416	365	359	372	272
155°	461	455	429	410	404	213
165°	474	481	468	468	468	135
175°	481	487	487	493	493	46
180°	487	487	487	487	487	



TEST NUMBER: P520743

CATALOG NUMBER: 8WSLA-200-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4453.2	4453.2	4453.2	4453.2	4453.2
2.5°	4466.0	4453.2	4421.2	4453.2	4446.8
5°	4453.2	4440.4	4402.0	4434.0	4427.6
7.5°	4434.0	4421.2	4382.7	4421.2	4414.8
10°	4414.8	4402.0	4363.5	4389.1	4369.9
12.5°	4382.7	4369.9	4325.1	4293.0	4254.6
15°	4337.9	4331.5	4254.6	4177.7	4139.3
17.5°	4299.4	4280.2	4158.5	4068.8	4023.9
20°	4248.2	4216.1	4056.0	3953.4	3921.4
22.5°	4190.5	4139.3	3947.0	3850.9	3825.3
25°	4107.2	4056.0	3838.1	3735.6	3710.0
27.5°	4023.9	3959.8	3729.2	3626.7	3601.0
30°	3934.2	3844.5	3607.4	3511.3	3466.5
32.5°	3831.7	3742.0	3492.1	3383.2	3331.9
35°	3710.0	3613.8	3363.9	3242.2	3190.9
37.5°	3594.6	3492.1	3235.8	3101.2	3030.8
40°	3453.7	3351.1	3088.4	2941.0	2870.6
42.5°	3306.3	3210.2	2947.5	2768.0	2595.0
45°	3146.1	3056.4	2787.3	2537.4	2210.6
47.5°	2979.5	2902.6	2639.9	2300.3	1986.3
50°	2812.9	2736.0	2479.7	2076.0	1813.3
52.5°	2646.3	2582.2	2300.3	1890.2	1672.4
55°	2460.5	2402.8	2140.1	1710.8	1557.0
57.5°	2293.9	2236.2	1954.3	1563.4	1435.3
60°	2108.1	2056.8	1781.3	1416.1	1319.9
62.5°	1935.1	1877.4	1608.3	1287.9	1217.4
65°	1755.7	1691.6	1441.7	1159.8	1114.9
67.5°	1569.8	1505.8	1281.5	1044.4	1018.8
70°	1384.0	1332.8	1121.3	929.1	916.3
72.5°	1191.8	1134.1	961.1	820.2	820.2
75°	999.6	948.3	807.3	698.4	698.4
77.5°	800.9	775.3	647.2	570.3	576.7
80°	627.9	595.9	487.0	435.7	435.7
82.5°	461.3	422.9	326.8	288.3	301.2
85°	288.3	237.1	173.0	147.4	147.4
87.5°	89.7	70.5	51.3	57.7	57.7
90°	12.8	44.9	70.5	89.7	96.1
92.5°	32.0	83.3	102.5	121.7	128.2
95°	51.3	108.9	147.4	153.8	153.8
97.5°	70.5	121.7	179.4	205.0	205.0
100°	96.1	128.2	192.2	230.7	237.1
102.5°	121.7	141.0	205.0	243.5	256.3
105°	147.4	153.8	217.9	256.3	269.1



TEST NUMBER: P520743

CATALOG NUMBER: 8WSLA-200-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.9	192.2	243.5	288.3	301.2
115°	243.5	205.0	256.3	294.7	314.0
117.5°	262.7	224.3	269.1	307.6	320.4
120°	281.9	237.1	275.5	320.4	333.2
122.5°	307.6	249.9	288.3	326.8	346.0
125°	326.8	262.7	294.7	339.6	352.4
127.5°	346.0	288.3	301.2	346.0	358.8
130°	358.8	314.0	307.6	352.4	365.2
132.5°	378.0	333.2	314.0	358.8	371.6
135°	390.9	352.4	326.8	358.8	378.0
137.5°	403.7	371.6	326.8	358.8	371.6
140°	416.5	390.9	333.2	358.8	371.6
142.5°	422.9	403.7	339.6	358.8	371.6
145°	435.7	416.5	365.2	358.8	371.6
147.5°	442.1	429.3	384.5	358.8	371.6
150°	448.5	442.1	403.7	365.2	365.2
152.5°	454.9	448.5	416.5	390.9	378.0
155°	461.3	454.9	429.3	410.1	403.7
157.5°	467.7	467.7	442.1	429.3	422.9
160°	467.7	474.2	454.9	442.1	435.7
162.5°	474.2	480.6	461.3	454.9	448.5
165°	474.2	480.6	467.7	467.7	467.7
167.5°	480.6	487.0	480.6	474.2	474.2
170°	480.6	487.0	480.6	480.6	480.6
172.5°	480.6	487.0	487.0	487.0	487.0
175°	480.6	487.0	487.0	493.4	493.4
177.5°	480.6	487.0	487.0	487.0	487.0
180°	487.0	487.0	487.0	487.0	487.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	173.0	166.6	224.3	269.1	281.9
110°	192.2	179.4	237.1	275.5	288.3



(END OF REPORT)