

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: P520701

Luminaire Tested: **8WSLA-175-L830-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520701
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-175-L830-UPL8-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

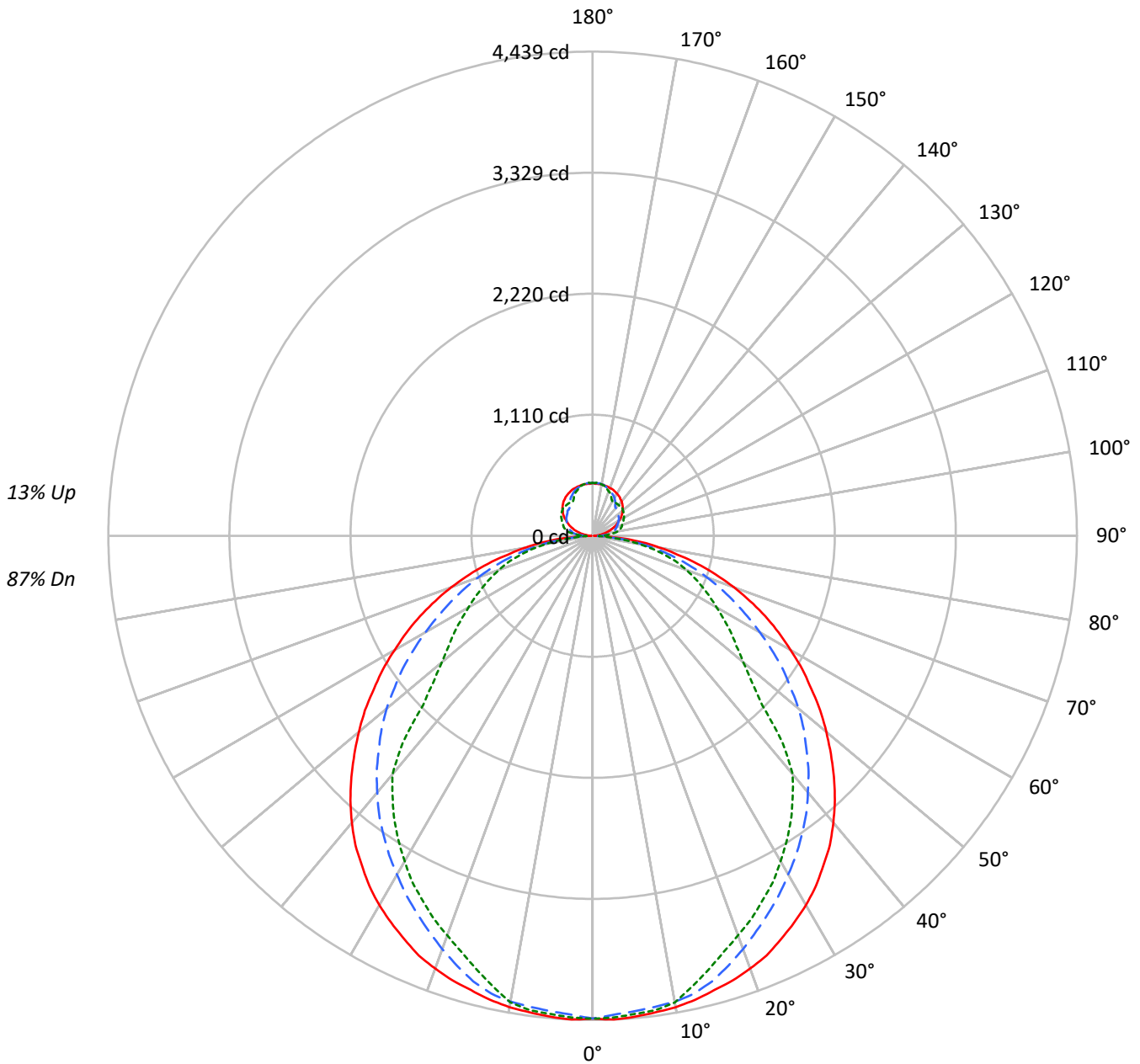
Lumens per Lamp: N/A
Luminaire Lumens: 13776.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 119
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

TEST NUMBER: P520701

CATALOG NUMBER: 8WSLA-175-L830-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520701

CATALOG NUMBER: 8WSLA-175-L830-UPL8-UNV-U

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°	11912	11912	11912
5°	11957	11820	11889
10°	11991	11852	11869
15°	12013	11782	11463
20°	12092	11545	11162
25°	12122	11328	10949
30°	12152	11142	10707
35°	12114	10985	10420
40°	12060	10784	10023
45°	11901	10544	8362
50°	11706	10319	7546
55°	11475	9980	7261
60°	11277	9529	7061
65°	11112	9125	7056
70°	10824	8770	7166
75°	10331	8344	7218
80°	9673	7502	6712
85°	8849	5311	4523



TEST NUMBER: P520701

CATALOG NUMBER: 8WSLA-175-L830-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	3.0
10°-20°	1191.4	8.6
20°-30°	1780.2	12.9
30°-40°	2125.0	15.4
40°-50°	2125.2	15.4
50°-60°	1839.3	13.4
60°-70°	1411.7	10.2
70°-80°	865.0	6.3
80°-90°	243.5	1.8
90°-100°	137.6	1.0
100°-110°	218.5	1.6
110°-120°	255.4	1.9
120°-130°	275.7	2.0
130°-140°	271.7	2.0
140°-150°	240.4	1.7
150°-160°	197.8	1.4
160°-170°	132.4	1.0
170°-180°	46.1	0.3
0°-30°	3390.6	24.6
0°-40°	5515.6	40.0
0°-60°	9480.1	68.8
0°-90°	12000.4	87.1
90°-120°	611.5	4.4
90°-150°	1399.3	10.2
90°-180°	1776.0	12.9
0°-180°	13776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4427	4427	4427	4427	4427	
5°	4427	4414	4376	4407	4401	421
15°	4312	4306	4229	4153	4114	1220
25°	4083	4032	3815	3713	3688	1884
35°	3688	3592	3344	3223	3172	2309
45°	3127	3038	2771	2522	2197	2411
55°	2446	2388	2127	1701	1548	2193
65°	1745	1682	1433	1153	1108	1724
75°	994	943	802	694	694	1048
85°	287	236	172	146	146	300
90°	13	45	70	89	96	20
95°	51	108	146	153	153	50
105°	146	153	217	255	268	154
115°	242	204	255	293	312	237
125°	325	261	293	338	350	289
135°	388	350	325	357	376	300
145°	433	414	363	357	369	270
155°	459	452	427	408	401	212
165°	471	478	465	465	465	134
175°	478	484	484	490	490	46
180°	484	484	484	484	484	



TEST NUMBER: P520701

CATALOG NUMBER: 8WSLA-175-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4426.6	4426.6	4426.6	4426.6	4426.6
2.5°	4439.3	4426.6	4394.7	4426.6	4420.2
5°	4426.6	4413.8	4375.6	4407.4	4401.1
7.5°	4407.4	4394.7	4356.5	4394.7	4388.3
10°	4388.3	4375.6	4337.4	4362.9	4343.8
12.5°	4356.5	4343.8	4299.2	4267.3	4229.1
15°	4311.9	4305.5	4229.1	4152.7	4114.5
17.5°	4273.7	4254.6	4133.6	4044.4	3999.8
20°	4222.7	4190.9	4031.7	3929.8	3897.9
22.5°	4165.4	4114.5	3923.4	3827.9	3802.4
25°	4082.6	4031.7	3815.1	3713.2	3687.7
27.5°	3999.8	3936.1	3706.8	3604.9	3579.5
30°	3910.7	3821.5	3585.8	3490.3	3445.7
32.5°	3808.7	3719.6	3471.2	3362.9	3312.0
35°	3687.7	3592.2	3343.8	3222.8	3171.8
37.5°	3573.1	3471.2	3216.4	3082.7	3012.6
40°	3433.0	3331.1	3069.9	2923.4	2853.4
42.5°	3286.5	3190.9	2929.8	2751.5	2579.5
45°	3127.2	3038.1	2770.6	2522.2	2197.4
47.5°	2961.7	2885.2	2624.1	2286.5	1974.4
50°	2796.1	2719.6	2464.9	2063.6	1802.5
52.5°	2630.5	2566.8	2286.5	1878.9	1662.3
55°	2445.8	2388.4	2127.3	1700.6	1547.7
57.5°	2280.2	2222.8	1942.6	1554.1	1426.7
60°	2095.4	2044.5	1770.6	1407.6	1312.0
62.5°	1923.5	1866.2	1598.7	1280.2	1210.1
65°	1745.1	1681.5	1433.1	1152.8	1108.2
67.5°	1560.4	1496.7	1273.8	1038.2	1012.7
70°	1375.7	1324.8	1114.6	923.5	910.8
72.5°	1184.7	1127.3	955.4	815.3	815.3
75°	993.6	942.6	802.5	694.2	694.2
77.5°	796.1	770.7	643.3	566.9	573.2
80°	624.2	592.3	484.1	433.1	433.1
82.5°	458.6	420.4	324.8	286.6	299.3
85°	286.6	235.7	172.0	146.5	146.5
87.5°	89.2	70.1	51.0	57.3	57.3
90°	12.7	44.6	70.1	89.2	95.5
92.5°	31.8	82.8	101.9	121.0	127.4
95°	51.0	108.3	146.5	152.9	152.9
97.5°	70.1	121.0	178.3	203.8	203.8
100°	95.5	127.4	191.1	229.3	235.7
102.5°	121.0	140.1	203.8	242.0	254.8
105°	146.5	152.9	216.6	254.8	267.5



TEST NUMBER: P520701

CATALOG NUMBER: 8WSLA-175-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	216.6	191.1	242.0	286.6	299.3
115°	242.0	203.8	254.8	293.0	312.1
117.5°	261.1	222.9	267.5	305.7	318.5
120°	280.2	235.7	273.9	318.5	331.2
122.5°	305.7	248.4	286.6	324.8	343.9
125°	324.8	261.1	293.0	337.6	350.3
127.5°	343.9	286.6	299.3	343.9	356.7
130°	356.7	312.1	305.7	350.3	363.0
132.5°	375.8	331.2	312.1	356.7	369.4
135°	388.5	350.3	324.8	356.7	375.8
137.5°	401.3	369.4	324.8	356.7	369.4
140°	414.0	388.5	331.2	356.7	369.4
142.5°	420.4	401.3	337.6	356.7	369.4
145°	433.1	414.0	363.0	356.7	369.4
147.5°	439.5	426.7	382.1	356.7	369.4
150°	445.8	439.5	401.3	363.0	363.0
152.5°	452.2	445.8	414.0	388.5	375.8
155°	458.6	452.2	426.7	407.6	401.3
157.5°	464.9	464.9	439.5	426.7	420.4
160°	464.9	471.3	452.2	439.5	433.1
162.5°	471.3	477.7	458.6	452.2	445.8
165°	471.3	477.7	464.9	464.9	464.9
167.5°	477.7	484.1	477.7	471.3	471.3
170°	477.7	484.1	477.7	477.7	477.7
172.5°	477.7	484.1	484.1	484.1	484.1
175°	477.7	484.1	484.1	490.4	490.4
177.5°	477.7	484.1	484.1	484.1	484.1
180°	484.1	484.1	484.1	484.1	484.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	172.0	165.6	222.9	267.5	280.2
110°	191.1	178.3	235.7	273.9	286.6



(END OF REPORT)