

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: P520629

Luminaire Tested: **8WSLA-100-L830-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520629
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-L830-UPL8-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

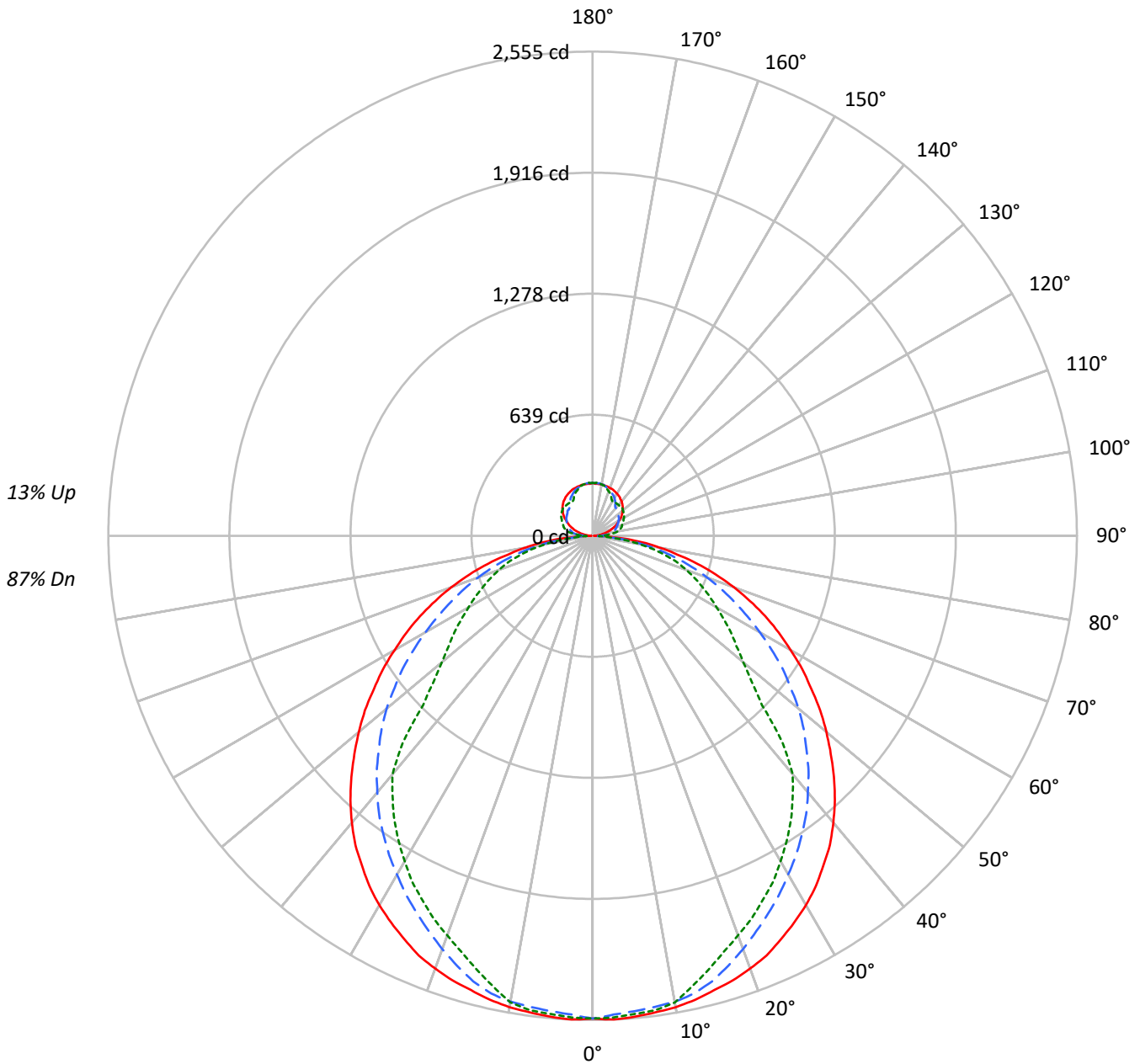
Lumens per Lamp: N/A
Luminaire Lumens: 7929.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (A_{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: P520629

CATALOG NUMBER: 8WSLA-100-L830-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520629

CATALOG NUMBER: 8WSLA-100-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°	6856	6856	6856
5°	6882	6803	6843
10°	6902	6822	6832
15°	6914	6781	6597
20°	6960	6645	6425
25°	6977	6520	6302
30°	6994	6413	6162
35°	6973	6322	5997
40°	6941	6207	5769
45°	6850	6069	4813
50°	6737	5939	4343
55°	6604	5744	4179
60°	6491	5485	4064
65°	6395	5252	4062
70°	6230	5047	4124
75°	5946	4802	4155
80°	5568	4317	3863
85°	5094	3057	2603



TEST NUMBER: P520629

CATALOG NUMBER: 8WSLA-100-L830-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	3.0
10°-20°	685.7	8.6
20°-30°	1024.6	12.9
30°-40°	1223.1	15.4
40°-50°	1223.2	15.4
50°-60°	1058.6	13.4
60°-70°	812.5	10.2
70°-80°	497.9	6.3
80°-90°	140.2	1.8
90°-100°	79.2	1.0
100°-110°	125.7	1.6
110°-120°	147.0	1.9
120°-130°	158.7	2.0
130°-140°	156.4	2.0
140°-150°	138.3	1.7
150°-160°	113.9	1.4
160°-170°	76.2	1.0
170°-180°	26.5	0.3
0°-30°	1951.5	24.6
0°-40°	3174.6	40.0
0°-60°	5456.4	68.8
0°-90°	6907.0	87.1
90°-120°	352.0	4.4
90°-150°	805.4	10.2
90°-180°	1022.0	12.9
0°-180°	7929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2548	2548	2548	2548	2548	
5°	2548	2540	2518	2537	2533	242
15°	2482	2478	2434	2390	2368	702
25°	2350	2320	2196	2137	2122	1084
35°	2122	2068	1925	1855	1826	1329
45°	1800	1749	1595	1452	1265	1388
55°	1408	1375	1224	979	891	1262
65°	1004	968	825	664	638	992
75°	572	542	462	400	400	603
85°	165	136	99	84	84	172
90°	7	26	40	51	55	12
95°	29	62	84	88	88	29
105°	84	88	125	147	154	89
115°	139	117	147	169	180	136
125°	187	150	169	194	202	167
135°	224	202	187	205	216	172
145°	249	238	209	205	213	155
155°	264	260	246	235	231	122
165°	271	275	268	268	268	77
175°	275	279	279	282	282	26
180°	279	279	279	279	279	



TEST NUMBER: P520629

CATALOG NUMBER: 8WSLA-100-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2547.8	2547.8	2547.8	2547.8	2547.8
2.5°	2555.1	2547.8	2529.4	2547.8	2544.1
5°	2547.8	2540.4	2518.4	2536.8	2533.1
7.5°	2536.8	2529.4	2507.4	2529.4	2525.8
10°	2525.8	2518.4	2496.5	2511.1	2500.1
12.5°	2507.4	2500.1	2474.5	2456.1	2434.1
15°	2481.8	2478.1	2434.1	2390.1	2368.1
17.5°	2459.8	2448.8	2379.1	2327.8	2302.2
20°	2430.5	2412.1	2320.5	2261.8	2243.5
22.5°	2397.5	2368.1	2258.2	2203.2	2188.5
25°	2349.8	2320.5	2195.9	2137.2	2122.5
27.5°	2302.2	2265.5	2133.5	2074.9	2060.2
30°	2250.8	2199.5	2063.9	2008.9	1983.2
32.5°	2192.2	2140.9	1997.9	1935.6	1906.2
35°	2122.5	2067.5	1924.6	1854.9	1825.6
37.5°	2056.5	1997.9	1851.3	1774.3	1734.0
40°	1975.9	1917.2	1766.9	1682.6	1642.3
42.5°	1891.6	1836.6	1686.3	1583.7	1484.7
45°	1799.9	1748.6	1594.7	1451.7	1264.7
47.5°	1704.6	1660.6	1510.3	1316.0	1136.4
50°	1609.3	1565.3	1418.7	1187.7	1037.4
52.5°	1514.0	1477.3	1316.0	1081.4	956.8
55°	1407.7	1374.7	1224.4	978.8	890.8
57.5°	1312.4	1279.4	1118.1	894.5	821.2
60°	1206.1	1176.7	1019.1	810.2	755.2
62.5°	1107.1	1074.1	920.1	736.8	696.5
65°	1004.4	967.8	824.8	663.5	637.9
67.5°	898.1	861.5	733.2	597.5	582.9
70°	791.8	762.5	641.5	531.6	524.2
72.5°	681.9	648.9	549.9	469.2	469.2
75°	571.9	542.5	461.9	399.6	399.6
77.5°	458.2	443.6	370.3	326.3	329.9
80°	359.3	340.9	278.6	249.3	249.3
82.5°	263.9	241.9	187.0	165.0	172.3
85°	165.0	135.6	99.0	84.3	84.3
87.5°	51.3	40.3	29.3	33.0	33.0
90°	7.3	25.7	40.3	51.3	55.0
92.5°	18.3	47.7	58.7	69.7	73.3
95°	29.3	62.3	84.3	88.0	88.0
97.5°	40.3	69.7	102.6	117.3	117.3
100°	55.0	73.3	110.0	132.0	135.6
102.5°	69.7	80.6	117.3	139.3	146.6
105°	84.3	88.0	124.6	146.6	154.0



TEST NUMBER: P520629

CATALOG NUMBER: 8WSLA-100-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	124.6	110.0	139.3	165.0	172.3
115°	139.3	117.3	146.6	168.6	179.6
117.5°	150.3	128.3	154.0	176.0	183.3
120°	161.3	135.6	157.6	183.3	190.6
122.5°	176.0	143.0	165.0	187.0	198.0
125°	187.0	150.3	168.6	194.3	201.6
127.5°	198.0	165.0	172.3	198.0	205.3
130°	205.3	179.6	176.0	201.6	209.0
132.5°	216.3	190.6	179.6	205.3	212.6
135°	223.6	201.6	187.0	205.3	216.3
137.5°	230.9	212.6	187.0	205.3	212.6
140°	238.3	223.6	190.6	205.3	212.6
142.5°	241.9	230.9	194.3	205.3	212.6
145°	249.3	238.3	209.0	205.3	212.6
147.5°	252.9	245.6	220.0	205.3	212.6
150°	256.6	252.9	230.9	209.0	209.0
152.5°	260.3	256.6	238.3	223.6	216.3
155°	263.9	260.3	245.6	234.6	230.9
157.5°	267.6	267.6	252.9	245.6	241.9
160°	267.6	271.3	260.3	252.9	249.3
162.5°	271.3	274.9	263.9	260.3	256.6
165°	271.3	274.9	267.6	267.6	267.6
167.5°	274.9	278.6	274.9	271.3	271.3
170°	274.9	278.6	274.9	274.9	274.9
172.5°	274.9	278.6	278.6	278.6	278.6
175°	274.9	278.6	278.6	282.3	282.3
177.5°	274.9	278.6	278.6	278.6	278.6
180°	278.6	278.6	278.6	278.6	278.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	99.0	95.3	128.3	154.0	161.3
110°	110.0	102.6	135.6	157.6	165.0



(END OF REPORT)