

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: P520460

Luminaire Tested: **4WSLA-100-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

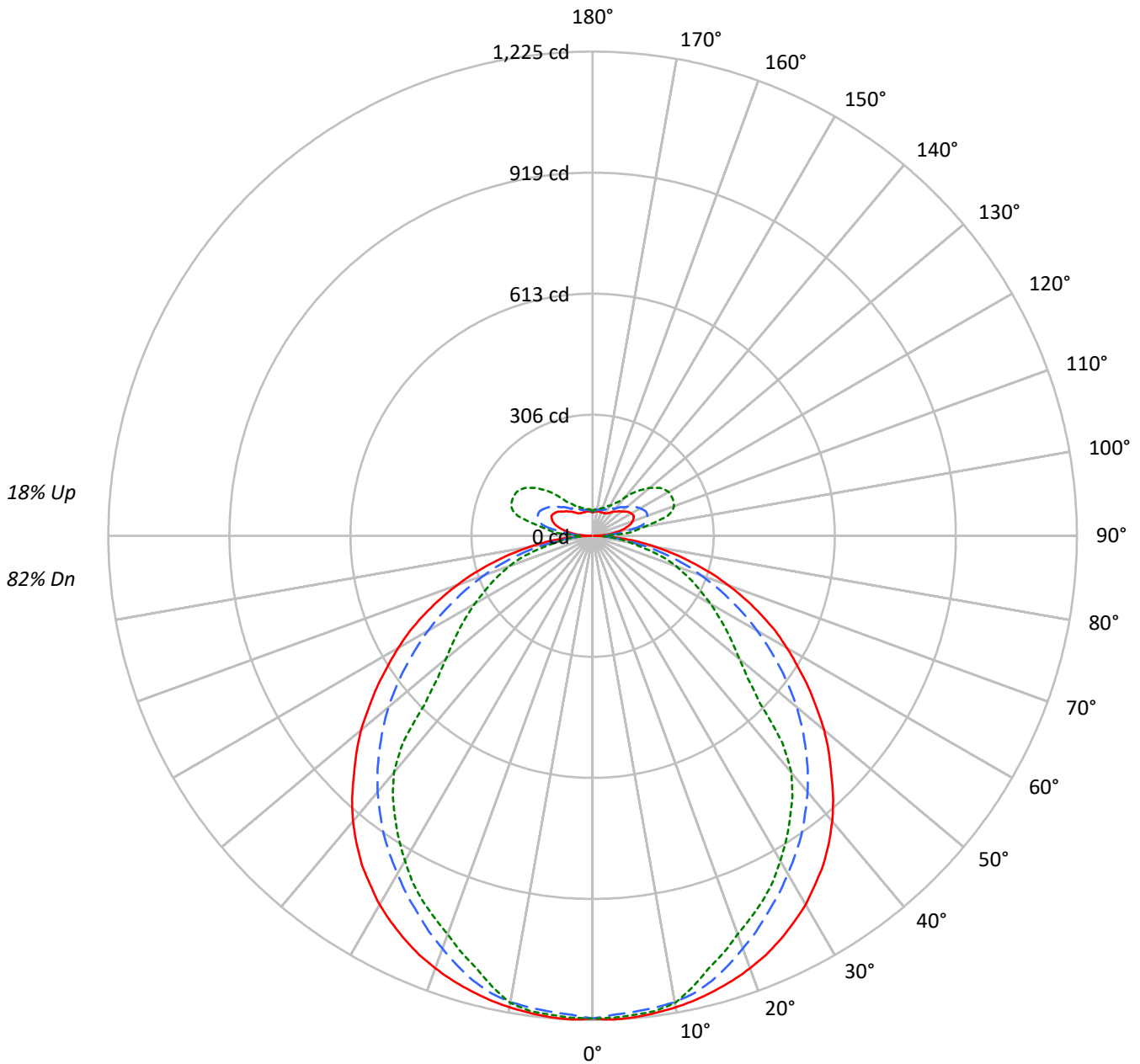
Test Method: LM-79-08  
Report Number: P520460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 4WSLA-100-L830-UPL15-UNV-U  
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3956.0 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 31.6  
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	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°	6574	6574	6574
5°	6606	6532	6572
10°	6621	6547	6560
15°	6640	6496	6316
20°	6670	6364	6144
25°	6687	6238	6047
30°	6698	6136	5898
35°	6683	6056	5722
40°	6624	5944	5492
45°	6497	5799	4555
50°	6400	5642	4056
55°	6243	5417	3859
60°	6107	5174	3707
65°	5964	4890	3598
70°	5731	4581	3528
75°	5411	4198	3246
80°	4953	3533	2879
85°	4440	3063	2908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.8	2.9
10°-20°	328.9	8.3
20°-30°	490.8	12.4
30°-40°	584.8	14.8
40°-50°	581.7	14.7
50°-60°	498.5	12.6
60°-70°	375.4	9.5
70°-80°	217.4	5.5
80°-90°	65.4	1.7
90°-100°	70.2	1.8
100°-110°	144.1	3.6
110°-120°	152.3	3.9
120°-130°	127.1	3.2
130°-140°	88.8	2.2
140°-150°	55.3	1.4
150°-160°	34.2	0.9
160°-170°	19.3	0.5
170°-180°	6.2	0.2
0°-30°	935.4	23.6
0°-40°	1520.2	38.4
0°-60°	2600.3	65.7
0°-90°	3258.6	82.4
90°-120°	366.6	9.3
90°-150°	637.7	16.1
90°-180°	697.0	17.6
0°-180°	3956.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1222	1222	1222	1222	1222	
5°	1223	1219	1209	1218	1216	116
15°	1192	1190	1166	1146	1134	337
25°	1126	1110	1050	1024	1018	519
35°	1017	990	922	886	871	635
45°	854	832	762	686	598	660
55°	665	655	577	458	411	595
65°	468	457	384	299	282	463
75°	260	252	202	161	156	276
85°	72	63	50	47	47	77
90°	4	17	30	37	40	7
95°	40	53	61	89	97	38
105°	93	97	139	186	197	96
115°	115	98	147	203	223	112
125°	106	94	128	187	211	95
135°	87	94	103	139	160	68
145°	71	82	89	95	102	45
155°	64	68	73	79	80	30
165°	63	66	68	71	71	18
175°	62	63	64	66	67	6
180°	61	61	61	61	61	



TEST NUMBER: P520460

CATALOG NUMBER: 4WSLA-100-L830-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1221.5	1221.5	1221.5	1221.5	1221.5
2.5°	1225.2	1222.7	1212.8	1222.7	1220.3
5°	1222.7	1219.0	1209.1	1217.8	1216.5
7.5°	1217.8	1215.3	1204.2	1214.1	1212.8
10°	1211.6	1207.9	1198.0	1205.4	1200.4
12.5°	1202.9	1200.4	1185.6	1179.4	1169.5
15°	1191.8	1190.5	1165.8	1145.9	1133.5
17.5°	1179.4	1174.4	1139.7	1116.2	1105.1
20°	1164.5	1157.1	1111.2	1084.0	1072.8
22.5°	1147.2	1136.0	1082.8	1056.7	1045.6
25°	1126.1	1110.0	1050.5	1024.5	1018.3
27.5°	1102.6	1084.0	1020.8	994.8	987.4
30°	1077.8	1054.3	987.4	962.6	949.0
32.5°	1046.8	1024.5	955.2	926.7	911.8
35°	1017.1	989.8	921.7	885.8	870.9
37.5°	981.2	953.9	883.3	847.4	830.0
40°	942.8	915.5	846.1	804.0	781.7
42.5°	900.6	875.9	805.3	754.5	711.1
45°	853.6	832.5	761.9	686.3	598.4
47.5°	810.2	790.4	718.5	620.7	530.2
50°	764.4	745.8	673.9	558.7	484.4
52.5°	713.6	699.9	625.6	505.4	446.0
55°	665.3	655.4	577.3	458.4	411.3
57.5°	614.5	604.6	529.0	413.8	376.6
60°	567.4	557.5	480.7	374.1	344.4
62.5°	520.3	506.7	433.6	335.7	311.0
65°	468.3	457.1	384.0	298.6	282.5
67.5°	416.3	406.3	338.2	263.9	252.7
70°	364.2	355.5	291.1	230.4	224.2
72.5°	313.4	302.3	249.0	197.0	194.5
75°	260.2	251.5	201.9	161.1	156.1
77.5°	209.4	201.9	158.6	122.6	118.9
80°	159.8	152.4	114.0	89.2	92.9
82.5°	117.7	107.8	76.8	69.4	73.1
85°	71.9	63.2	49.6	47.1	47.1
87.5°	24.8	23.5	22.3	26.0	27.3
90°	3.7	17.3	29.7	37.2	39.6
92.5°	21.1	31.0	40.9	48.3	50.8
95°	39.6	53.3	60.7	89.2	96.6
97.5°	54.5	70.6	79.3	105.3	112.7
100°	69.4	84.2	111.5	125.1	133.8
102.5°	81.8	92.9	131.3	158.6	163.5
105°	92.9	96.6	138.8	185.8	197.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	111.5	99.1	148.7	201.9	221.8
115°	115.2	97.9	147.4	203.2	223.0
117.5°	115.2	97.9	143.7	203.2	223.0
120°	112.7	99.1	138.8	200.7	221.8
122.5°	110.3	96.6	133.8	195.7	216.8
125°	106.5	94.2	127.6	187.1	210.6
127.5°	100.3	96.6	121.4	175.9	199.5
130°	95.4	97.9	114.0	164.8	188.3
132.5°	91.7	95.4	106.5	152.4	173.4
135°	86.7	94.2	102.8	138.8	159.8
137.5°	83.0	90.4	96.6	126.4	143.7
140°	79.3	88.0	90.4	110.3	125.1
142.5°	74.3	84.2	85.5	102.8	109.0
145°	70.6	81.8	89.2	95.4	101.6
147.5°	66.9	76.8	86.7	88.0	94.2
150°	65.7	71.9	83.0	84.2	86.7
152.5°	64.4	69.4	76.8	84.2	85.5
155°	64.4	68.1	73.1	79.3	80.5
157.5°	63.2	68.1	70.6	75.6	76.8
160°	63.2	66.9	69.4	73.1	74.3
162.5°	63.2	66.9	68.1	71.9	73.1
165°	63.2	65.7	68.1	70.6	70.6
167.5°	63.2	65.7	66.9	69.4	69.4
170°	63.2	64.4	66.9	68.1	68.1
172.5°	61.9	64.4	65.7	68.1	68.1
175°	61.9	63.2	64.4	65.7	66.9
177.5°	59.5	63.2	64.4	65.7	64.4
180°	60.7	60.7	60.7	60.7	60.7



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	101.6	97.9	143.7	195.7	211.8
110°	107.8	99.1	147.4	199.5	219.3



(END OF REPORT)