

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: P520724

Luminaire Tested: **8WSLA-200-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520724
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: 8WSLA-200-L830-UPL15-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

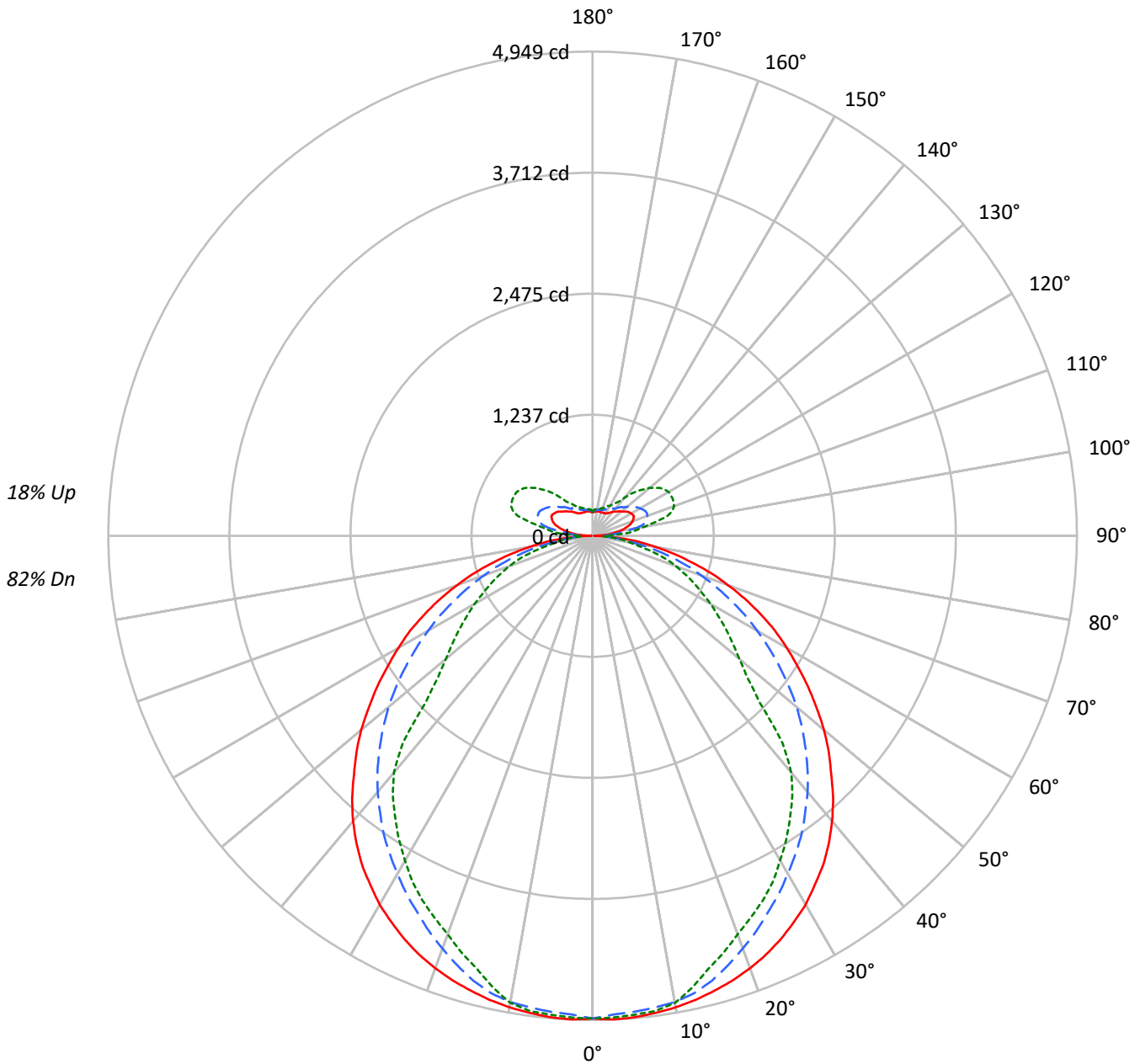
Lumens per Lamp: N/A
Luminaire Lumens: 15979.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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									
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°	13277	13277	13277
5°	13341	13192	13274
10°	13372	13222	13249
15°	13411	13118	12756
20°	13470	12854	12409
25°	13506	12599	12213
30°	13527	12392	11910
35°	13496	12230	11556
40°	13377	12006	11092
45°	13121	11711	9198
50°	12925	11396	8191
55°	12607	10940	7794
60°	12334	10449	7487
65°	12044	9877	7265
70°	11575	9252	7126
75°	10925	8480	6555
80°	10003	7135	5816
85°	8960	6181	5869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.6	2.9
10°-20°	1328.3	8.3
20°-30°	1982.3	12.4
30°-40°	2362.0	14.8
40°-50°	2349.4	14.7
50°-60°	2013.6	12.6
60°-70°	1516.5	9.5
70°-80°	878.3	5.5
80°-90°	264.0	1.7
90°-100°	283.4	1.8
100°-110°	581.9	3.6
110°-120°	615.3	3.9
120°-130°	513.3	3.2
130°-140°	358.6	2.2
140°-150°	223.2	1.4
150°-160°	138.3	0.9
160°-170°	77.9	0.5
170°-180°	25.1	0.2
0°-30°	3778.3	23.6
0°-40°	6140.2	38.4
0°-60°	10503.2	65.7
0°-90°	13161.9	82.4
90°-120°	1480.6	9.3
90°-150°	2575.7	16.1
90°-180°	2817.0	17.6
0°-180°	15979.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4934	4934	4934	4934	4934	
5°	4939	4924	4884	4919	4914	470
15°	4814	4809	4709	4629	4579	1360
25°	4549	4484	4243	4138	4113	2097
35°	4108	3998	3723	3578	3518	2566
45°	3448	3363	3077	2772	2417	2665
55°	2687	2647	2332	1852	1661	2402
65°	1892	1846	1551	1206	1141	1870
75°	1051	1016	816	650	630	1113
85°	290	255	200	190	190	310
90°	15	70	120	150	160	29
95°	160	215	245	360	390	153
105°	375	390	560	751	796	389
115°	465	395	596	821	901	453
125°	430	380	515	756	851	382
135°	350	380	415	560	646	273
145°	285	330	360	385	410	181
155°	260	275	295	320	325	120
165°	255	265	275	285	285	72
175°	250	255	260	265	270	24
180°	245	245	245	245	245	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4933.9	4933.9	4933.9	4933.9	4933.9
2.5°	4948.9	4938.9	4898.8	4938.9	4928.9
5°	4938.9	4923.9	4883.8	4918.9	4913.9
7.5°	4918.9	4908.9	4863.8	4903.8	4898.8
10°	4893.8	4878.8	4838.8	4868.8	4848.8
12.5°	4858.8	4848.8	4788.8	4763.7	4723.7
15°	4813.8	4808.8	4708.7	4628.6	4578.6
17.5°	4763.7	4743.7	4603.6	4508.5	4463.5
20°	4703.7	4673.7	4488.5	4378.4	4333.4
22.5°	4633.6	4588.6	4373.4	4268.3	4223.3
25°	4548.6	4483.5	4243.3	4138.2	4113.2
27.5°	4453.5	4378.4	4123.2	4018.2	3988.1
30°	4353.4	4258.3	3988.1	3888.1	3833.0
32.5°	4228.3	4138.2	3858.0	3742.9	3682.9
35°	4108.2	3998.1	3722.9	3577.8	3517.8
37.5°	3963.1	3853.0	3567.8	3422.7	3352.6
40°	3808.0	3697.9	3417.7	3247.5	3157.5
42.5°	3637.9	3537.8	3252.6	3047.4	2872.3
45°	3447.7	3362.6	3077.4	2772.2	2416.9
47.5°	3272.6	3192.5	2902.3	2507.0	2141.7
50°	3087.4	3012.4	2722.1	2256.8	1956.5
52.5°	2882.3	2827.2	2527.0	2041.6	1801.4
55°	2687.1	2647.1	2331.8	1851.5	1661.3
57.5°	2481.9	2441.9	2136.7	1671.3	1521.2
60°	2291.8	2251.8	1941.5	1511.2	1391.1
62.5°	2101.6	2046.6	1751.4	1356.1	1256.0
65°	1891.5	1846.4	1551.2	1205.9	1140.9
67.5°	1681.3	1641.3	1366.1	1065.8	1020.8
70°	1471.2	1436.1	1175.9	930.7	905.7
72.5°	1266.0	1221.0	1005.8	795.6	785.6
75°	1050.8	1015.8	815.6	650.5	630.5
77.5°	845.7	815.6	640.5	495.4	480.4
80°	645.5	615.5	460.4	360.3	375.3
82.5°	475.4	435.3	310.2	280.2	295.2
85°	290.2	255.2	200.2	190.1	190.1
87.5°	100.1	95.1	90.1	105.1	110.1
90°	15.0	70.1	120.1	150.1	160.1
92.5°	85.1	125.1	165.1	195.2	205.2
95°	160.1	215.2	245.2	360.3	390.3
97.5°	220.2	285.2	320.3	425.3	455.4
100°	280.2	340.3	450.4	505.4	540.4
102.5°	330.3	375.3	530.4	640.5	660.5
105°	375.3	390.3	560.4	750.6	795.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	450.4	400.3	600.5	815.6	895.7
115°	465.4	395.3	595.5	820.6	900.7
117.5°	465.4	395.3	580.5	820.6	900.7
120°	455.4	400.3	560.4	810.6	895.7
122.5°	445.3	390.3	540.4	790.6	875.7
125°	430.3	380.3	515.4	755.6	850.7
127.5°	405.3	390.3	490.4	710.6	805.6
130°	385.3	395.3	460.4	665.5	760.6
132.5°	370.3	385.3	430.3	615.5	700.5
135°	350.3	380.3	415.3	560.4	645.5
137.5°	335.3	365.3	390.3	510.4	580.5
140°	320.3	355.3	365.3	445.3	505.4
142.5°	300.2	340.3	345.3	415.3	440.3
145°	285.2	330.3	360.3	385.3	410.3
147.5°	270.2	310.2	350.3	355.3	380.3
150°	265.2	290.2	335.3	340.3	350.3
152.5°	260.2	280.2	310.2	340.3	345.3
155°	260.2	275.2	295.2	320.3	325.3
157.5°	255.2	275.2	285.2	305.2	310.2
160°	255.2	270.2	280.2	295.2	300.2
162.5°	255.2	270.2	275.2	290.2	295.2
165°	255.2	265.2	275.2	285.2	285.2
167.5°	255.2	265.2	270.2	280.2	280.2
170°	255.2	260.2	270.2	275.2	275.2
172.5°	250.2	260.2	265.2	275.2	275.2
175°	250.2	255.2	260.2	265.2	270.2
177.5°	240.2	255.2	260.2	265.2	260.2
180°	245.2	245.2	245.2	245.2	245.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	410.3	395.3	580.5	790.6	855.7
110°	435.3	400.3	595.5	805.6	885.7



(END OF REPORT)