

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: P520628

Luminaire Tested: **8WSLA-100-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520628
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-100-L830-UPL15-UNV-U
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

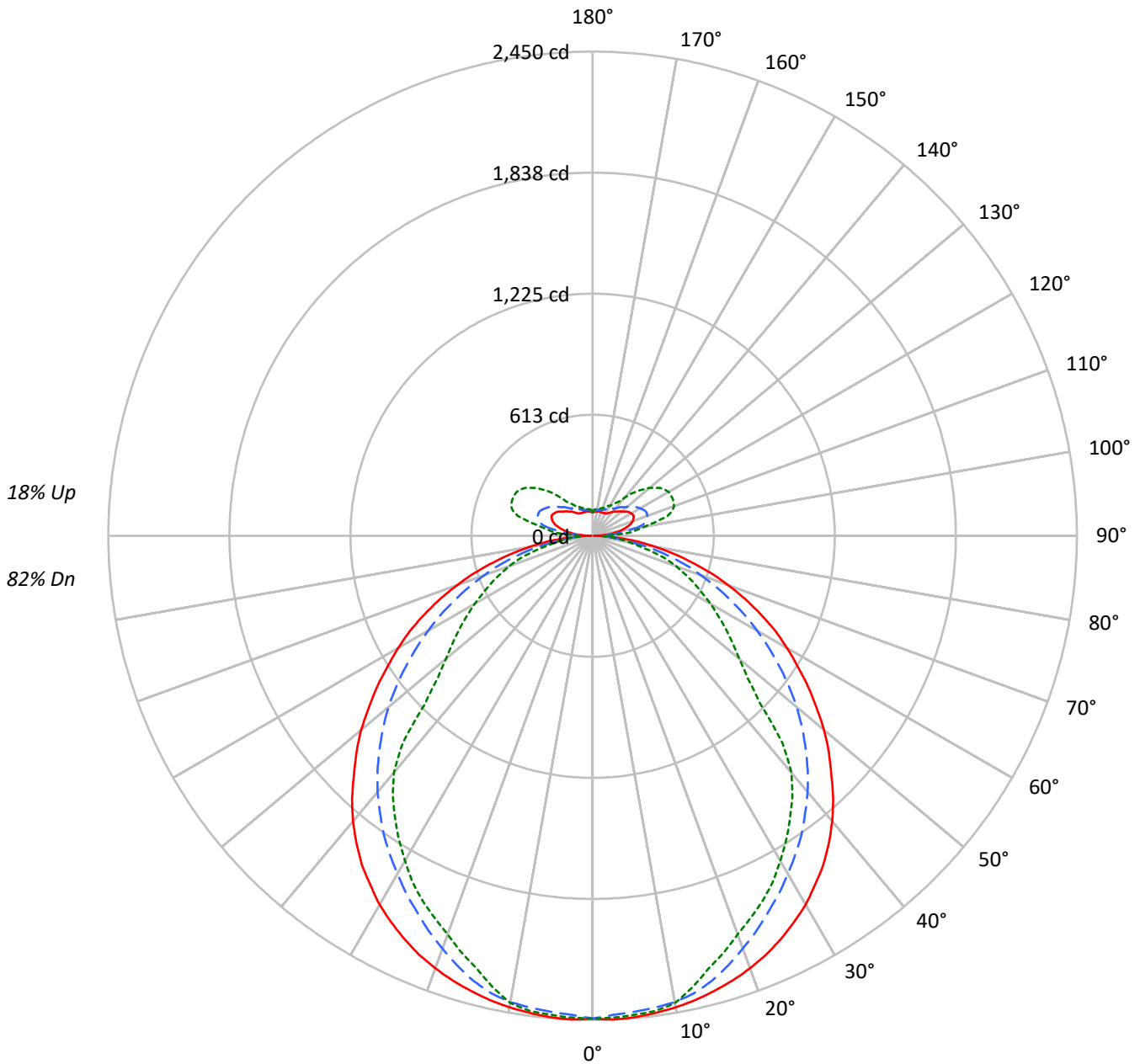
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7912.0 lumens
Efficiency: N/A
Efficacy: 124.8 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): 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

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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	6495	6316
20°	6670	6365	6145
25°	6687	6239	6047
30°	6698	6136	5897
35°	6683	6056	5722
40°	6623	5945	5492
45°	6497	5799	4554
50°	6400	5643	4056
55°	6242	5417	3859
60°	6107	5174	3707
65°	5964	4891	3597
70°	5731	4581	3529
75°	5410	4199	3246
80°	4953	3532	2879
85°	4437	3060	2908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	2.9
10°-20°	657.7	8.3
20°-30°	981.6	12.4
30°-40°	1169.5	14.8
40°-50°	1163.3	14.7
50°-60°	997.0	12.6
60°-70°	750.9	9.5
70°-80°	434.9	5.5
80°-90°	130.7	1.7
90°-100°	140.3	1.8
100°-110°	288.1	3.6
110°-120°	304.7	3.9
120°-130°	254.2	3.2
130°-140°	177.5	2.2
140°-150°	110.5	1.4
150°-160°	68.5	0.9
160°-170°	38.6	0.5
170°-180°	12.4	0.2
0°-30°	1870.8	23.6
0°-40°	3040.4	38.4
0°-60°	5200.7	65.7
0°-90°	6517.1	82.4
90°-120°	733.1	9.3
90°-150°	1275.3	16.1
90°-180°	1395.0	17.6
0°-180°	7912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2443	2443	2443	2443	2443	
5°	2446	2438	2418	2436	2433	233
15°	2384	2381	2332	2292	2267	674
25°	2252	2220	2101	2049	2037	1038
35°	2034	1980	1843	1772	1742	1271
45°	1707	1665	1524	1373	1197	1320
55°	1330	1311	1155	917	823	1189
65°	937	914	768	597	565	926
75°	520	503	404	322	312	551
85°	144	126	99	94	94	153
90°	7	35	60	74	79	15
95°	79	106	121	178	193	76
105°	186	193	278	372	394	193
115°	230	196	295	406	446	224
125°	213	188	255	374	421	189
135°	173	188	206	278	320	135
145°	141	164	178	191	203	90
155°	129	136	146	159	161	59
165°	126	131	136	141	141	36
175°	124	126	129	131	134	12
180°	121	121	121	121	121	



TEST NUMBER: P520628

CATALOG NUMBER: 8WSLA-100-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2443.0	2443.0	2443.0	2443.0	2443.0
2.5°	2450.4	2445.5	2425.7	2445.5	2440.5
5°	2445.5	2438.1	2418.2	2435.6	2433.1
7.5°	2435.6	2430.6	2408.3	2428.1	2425.7
10°	2423.2	2415.8	2395.9	2410.8	2400.9
12.5°	2405.8	2400.9	2371.2	2358.8	2338.9
15°	2383.5	2381.1	2331.5	2291.9	2267.1
17.5°	2358.8	2348.9	2279.5	2232.4	2210.1
20°	2329.0	2314.2	2222.5	2168.0	2145.7
22.5°	2294.3	2272.0	2165.5	2113.5	2091.2
25°	2252.2	2220.0	2101.1	2049.1	2036.7
27.5°	2205.1	2168.0	2041.6	1989.6	1974.7
30°	2155.6	2108.5	1974.7	1925.2	1897.9
32.5°	2093.7	2049.1	1910.3	1853.3	1823.6
35°	2034.2	1979.7	1843.4	1771.6	1741.8
37.5°	1962.3	1907.8	1766.6	1694.7	1660.1
40°	1885.5	1831.0	1692.3	1608.0	1563.4
42.5°	1801.3	1751.7	1610.5	1508.9	1422.2
45°	1707.1	1665.0	1523.8	1372.6	1196.7
47.5°	1620.4	1580.8	1437.1	1241.3	1060.5
50°	1528.7	1491.6	1347.9	1117.4	968.8
52.5°	1427.2	1399.9	1251.2	1010.9	892.0
55°	1330.5	1310.7	1154.6	916.7	822.6
57.5°	1228.9	1209.1	1058.0	827.5	753.2
60°	1134.8	1115.0	961.3	748.3	688.8
62.5°	1040.6	1013.4	867.2	671.5	621.9
65°	936.6	914.3	768.1	597.1	564.9
67.5°	832.5	812.7	676.4	527.7	505.4
70°	728.4	711.1	582.3	460.9	448.5
72.5°	626.9	604.6	498.0	394.0	389.0
75°	520.3	503.0	403.9	322.1	312.2
77.5°	418.7	403.9	317.1	245.3	237.9
80°	319.6	304.8	227.9	178.4	185.8
82.5°	235.4	215.6	153.6	138.8	146.2
85°	143.7	126.4	99.1	94.2	94.2
87.5°	49.6	47.1	44.6	52.0	54.5
90°	7.4	34.7	59.5	74.3	79.3
92.5°	42.1	61.9	81.8	96.6	101.6
95°	79.3	106.5	121.4	178.4	193.3
97.5°	109.0	141.2	158.6	210.6	225.5
100°	138.8	168.5	223.0	250.2	267.6
102.5°	163.5	185.8	262.6	317.1	327.1
105°	185.8	193.3	277.5	371.7	394.0



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CATALOG NUMBER: 8WSLA-100-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.0	198.2	297.3	403.9	443.5
115°	230.4	195.7	294.8	406.3	446.0
117.5°	230.4	195.7	287.4	406.3	446.0
120°	225.5	198.2	277.5	401.4	443.5
122.5°	220.5	193.3	267.6	391.5	433.6
125°	213.1	188.3	255.2	374.1	421.2
127.5°	200.7	193.3	242.8	351.8	398.9
130°	190.8	195.7	227.9	329.5	376.6
132.5°	183.3	190.8	213.1	304.8	346.9
135°	173.4	188.3	205.6	277.5	319.6
137.5°	166.0	180.9	193.3	252.7	287.4
140°	158.6	175.9	180.9	220.5	250.2
142.5°	148.7	168.5	171.0	205.6	218.0
145°	141.2	163.5	178.4	190.8	203.2
147.5°	133.8	153.6	173.4	175.9	188.3
150°	131.3	143.7	166.0	168.5	173.4
152.5°	128.8	138.8	153.6	168.5	171.0
155°	128.8	136.3	146.2	158.6	161.1
157.5°	126.4	136.3	141.2	151.1	153.6
160°	126.4	133.8	138.8	146.2	148.7
162.5°	126.4	133.8	136.3	143.7	146.2
165°	126.4	131.3	136.3	141.2	141.2
167.5°	126.4	131.3	133.8	138.8	138.8
170°	126.4	128.8	133.8	136.3	136.3
172.5°	123.9	128.8	131.3	136.3	136.3
175°	123.9	126.4	128.8	131.3	133.8
177.5°	118.9	126.4	128.8	131.3	128.8
180°	121.4	121.4	121.4	121.4	121.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	203.2	195.7	287.4	391.5	423.7
110°	215.6	198.2	294.8	398.9	438.6



(END OF REPORT)