

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: P520772

Luminaire Tested: **8WSLA-75-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520772
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-75-L830-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

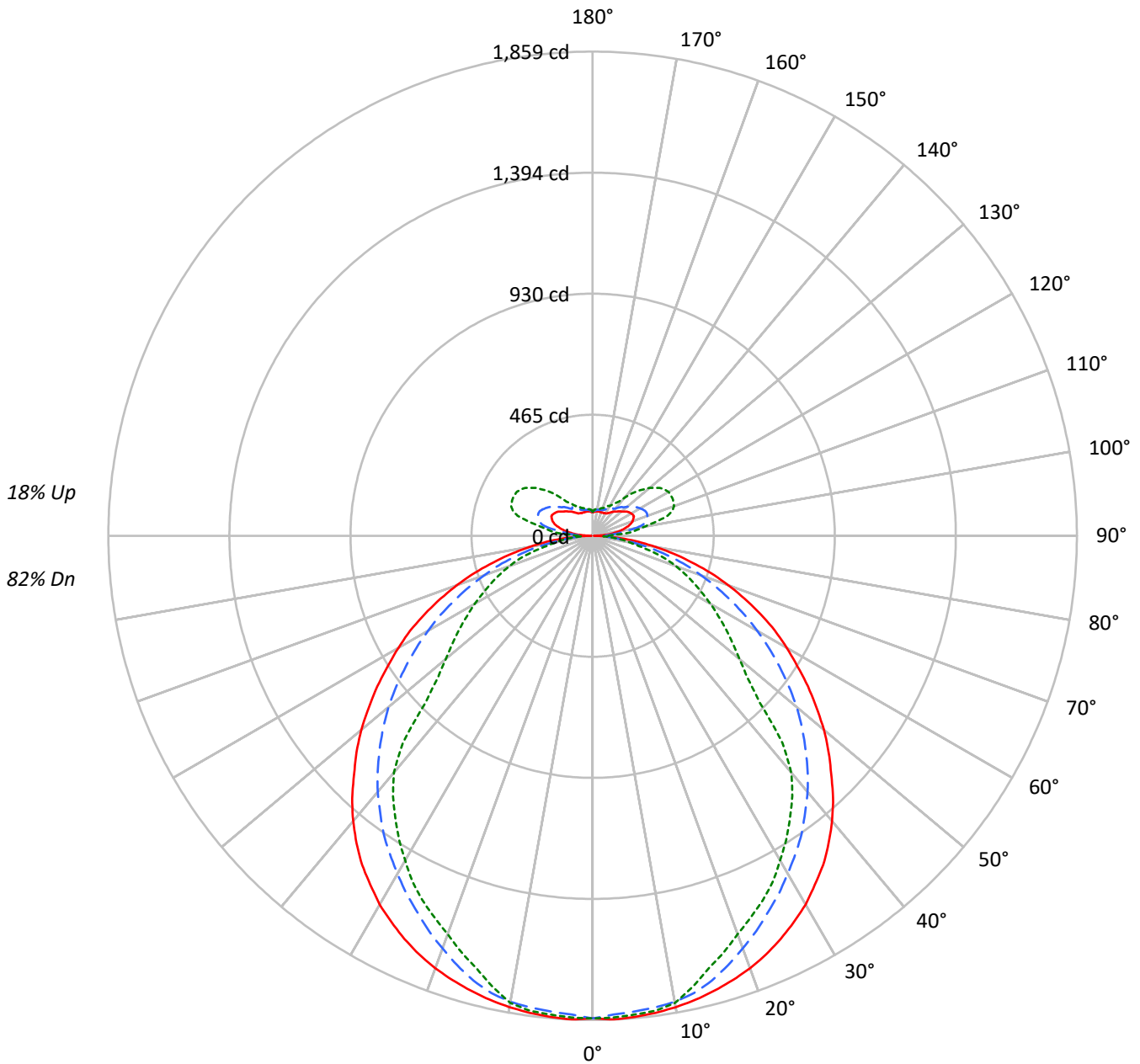
Lumens per Lamp: N/A
Luminaire Lumens: 6000.9 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46.6
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: P520772

CATALOG NUMBER: 8WSLA-75-L830-UPL15-UNV-U

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°	4986	4986	4986
5°	5010	4954	4985
10°	5022	4965	4976
15°	5036	4927	4790
20°	5059	4827	4660
25°	5072	4732	4586
30°	5080	4654	4473
35°	5069	4593	4340
40°	5024	4509	4166
45°	4928	4398	3454
50°	4854	4280	3076
55°	4735	4108	2927
60°	4632	3924	2812
65°	4523	3710	2728
70°	4347	3474	2676
75°	4103	3185	2462
80°	3756	2679	2183
85°	3365	2322	2205



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CATALOG NUMBER: 8WSLA-75-L830-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	2.9
10°-20°	498.8	8.3
20°-30°	744.5	12.4
30°-40°	887.1	14.8
40°-50°	882.3	14.7
50°-60°	756.2	12.6
60°-70°	569.5	9.5
70°-80°	329.8	5.5
80°-90°	99.1	1.7
90°-100°	106.4	1.8
100°-110°	218.5	3.6
110°-120°	231.1	3.9
120°-130°	192.8	3.2
130°-140°	134.7	2.2
140°-150°	83.8	1.4
150°-160°	52.0	0.9
160°-170°	29.3	0.5
170°-180°	9.4	0.2
0°-30°	1418.9	23.6
0°-40°	2306.0	38.4
0°-60°	3944.5	65.7
0°-90°	4943.0	82.4
90°-120°	556.0	9.3
90°-150°	967.3	16.1
90°-180°	1058.0	17.6
0°-180°	6000.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1853	1853	1853	1853	1853	
5°	1855	1849	1834	1847	1845	176
15°	1808	1806	1768	1738	1720	511
25°	1708	1684	1594	1554	1545	788
35°	1543	1502	1398	1344	1321	964
45°	1295	1263	1156	1041	908	1001
55°	1009	994	876	695	624	902
65°	710	693	583	453	428	702
75°	395	382	306	244	237	418
85°	109	96	75	71	71	116
90°	6	26	45	56	60	11
95°	60	81	92	135	147	57
105°	141	147	210	282	299	146
115°	175	148	224	308	338	170
125°	162	143	194	284	320	144
135°	132	143	156	210	242	103
145°	107	124	135	145	154	68
155°	98	103	111	120	122	45
165°	96	100	103	107	107	27
175°	94	96	98	100	102	9
180°	92	92	92	92	92	



TEST NUMBER: P520772

CATALOG NUMBER: 8WSLA-75-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1852.9	1852.9	1852.9	1852.9	1852.9
2.5°	1858.6	1854.8	1839.8	1854.8	1851.1
5°	1854.8	1849.2	1834.1	1847.3	1845.4
7.5°	1847.3	1843.5	1826.6	1841.7	1839.8
10°	1837.9	1832.3	1817.2	1828.5	1821.0
12.5°	1824.8	1821.0	1798.4	1789.0	1774.0
15°	1807.8	1806.0	1768.4	1738.3	1719.5
17.5°	1789.0	1781.5	1728.9	1693.2	1676.3
20°	1766.5	1755.2	1685.7	1644.3	1627.4
22.5°	1740.2	1723.3	1642.5	1603.0	1586.1
25°	1708.2	1683.8	1593.6	1554.1	1544.7
27.5°	1672.5	1644.3	1548.5	1509.0	1497.8
30°	1634.9	1599.2	1497.8	1460.2	1439.5
32.5°	1588.0	1554.1	1448.9	1405.7	1383.1
35°	1542.9	1501.5	1398.2	1343.7	1321.1
37.5°	1488.4	1447.0	1339.9	1285.4	1259.1
40°	1430.1	1388.8	1283.5	1219.6	1185.8
42.5°	1366.2	1328.6	1221.5	1144.5	1078.7
45°	1294.8	1262.9	1155.7	1041.1	907.7
47.5°	1229.0	1199.0	1090.0	941.5	804.3
50°	1159.5	1131.3	1022.3	847.5	734.8
52.5°	1082.4	1061.8	949.0	766.7	676.5
55°	1009.2	994.1	875.7	695.3	623.9
57.5°	932.1	917.1	802.4	627.7	571.3
60°	860.7	845.7	729.1	567.5	522.4
62.5°	789.3	768.6	657.7	509.3	471.7
65°	710.4	693.4	582.6	452.9	428.5
67.5°	631.4	616.4	513.0	400.3	383.4
70°	552.5	539.3	441.6	349.5	340.1
72.5°	475.5	458.5	377.7	298.8	295.0
75°	394.6	381.5	306.3	244.3	236.8
77.5°	317.6	306.3	240.5	186.0	180.4
80°	242.4	231.1	172.9	135.3	140.9
82.5°	178.5	163.5	116.5	105.2	110.9
85°	109.0	95.8	75.2	71.4	71.4
87.5°	37.6	35.7	33.8	39.5	41.3
90°	5.6	26.3	45.1	56.4	60.1
92.5°	31.9	47.0	62.0	73.3	77.0
95°	60.1	80.8	92.1	135.3	146.6
97.5°	82.7	107.1	120.3	159.7	171.0
100°	105.2	127.8	169.1	189.8	203.0
102.5°	124.0	140.9	199.2	240.5	248.1
105°	140.9	146.6	210.5	281.9	298.8



TEST NUMBER: P520772

CATALOG NUMBER: 8WSLA-75-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	169.1	150.3	225.5	306.3	336.4
115°	174.8	148.5	223.6	308.2	338.3
117.5°	174.8	148.5	218.0	308.2	338.3
120°	171.0	150.3	210.5	304.4	336.4
122.5°	167.3	146.6	203.0	296.9	328.9
125°	161.6	142.8	193.6	283.8	319.5
127.5°	152.2	146.6	184.2	266.9	302.6
130°	144.7	148.5	172.9	249.9	285.6
132.5°	139.1	144.7	161.6	231.1	263.1
135°	131.5	142.8	156.0	210.5	242.4
137.5°	125.9	137.2	146.6	191.7	218.0
140°	120.3	133.4	137.2	167.3	189.8
142.5°	112.8	127.8	129.7	156.0	165.4
145°	107.1	124.0	135.3	144.7	154.1
147.5°	101.5	116.5	131.5	133.4	142.8
150°	99.6	109.0	125.9	127.8	131.5
152.5°	97.7	105.2	116.5	127.8	129.7
155°	97.7	103.4	110.9	120.3	122.2
157.5°	95.8	103.4	107.1	114.6	116.5
160°	95.8	101.5	105.2	110.9	112.8
162.5°	95.8	101.5	103.4	109.0	110.9
165°	95.8	99.6	103.4	107.1	107.1
167.5°	95.8	99.6	101.5	105.2	105.2
170°	95.8	97.7	101.5	103.4	103.4
172.5°	94.0	97.7	99.6	103.4	103.4
175°	94.0	95.8	97.7	99.6	101.5
177.5°	90.2	95.8	97.7	99.6	97.7
180°	92.1	92.1	92.1	92.1	92.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	154.1	148.5	218.0	296.9	321.4
110°	163.5	150.3	223.6	302.6	332.6



(END OF REPORT)