

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: P520775

Luminaire Tested: **8WSLA-75-L835-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520775
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-L835-UPL15-UNV-U
Description: 8 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

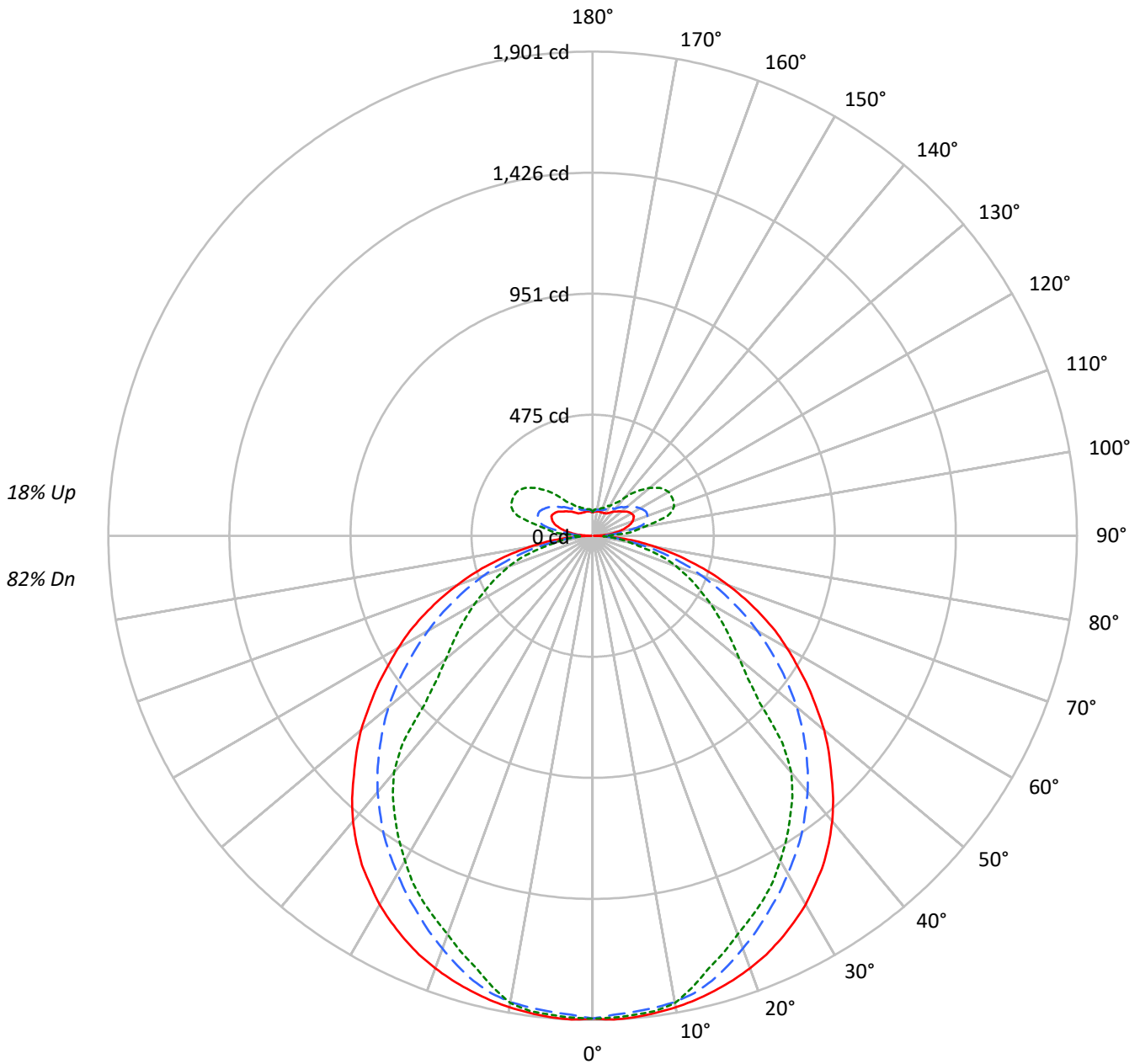
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6139.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

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Luminous Intensity Polar Plot





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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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5101	5101	5101
5°	5126	5068	5100
10°	5138	5080	5090
15°	5152	5040	4901
20°	5175	4938	4768
25°	5189	4841	4692
30°	5197	4761	4576
35°	5185	4699	4440
40°	5139	4612	4261
45°	5041	4499	3534
50°	4966	4378	3147
55°	4844	4203	2995
60°	4739	4014	2876
65°	4627	3795	2791
70°	4447	3555	2738
75°	4197	3258	2518
80°	3843	2741	2235
85°	3443	2374	2257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	2.9
10°-20°	510.3	8.3
20°-30°	761.6	12.4
30°-40°	907.5	14.8
40°-50°	902.6	14.7
50°-60°	773.6	12.6
60°-70°	582.6	9.5
70°-80°	337.4	5.5
80°-90°	101.4	1.7
90°-100°	108.9	1.8
100°-110°	223.6	3.6
110°-120°	236.4	3.9
120°-130°	197.2	3.2
130°-140°	137.8	2.2
140°-150°	85.7	1.4
150°-160°	53.2	0.9
160°-170°	29.9	0.5
170°-180°	9.7	0.2
0°-30°	1451.6	23.6
0°-40°	2359.0	38.4
0°-60°	4035.3	65.7
0°-90°	5056.7	82.4
90°-120°	568.9	9.3
90°-150°	989.6	16.1
90°-180°	1082.0	17.6
0°-180°	6139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1896	1896	1896	1896	1896	
5°	1898	1892	1876	1890	1888	181
15°	1849	1848	1809	1778	1759	523
25°	1748	1722	1630	1590	1580	806
35°	1578	1536	1430	1375	1352	986
45°	1325	1292	1182	1065	929	1024
55°	1032	1017	896	711	638	923
65°	727	709	596	463	438	718
75°	404	390	313	250	242	428
85°	112	98	77	73	73	119
90°	6	27	46	58	62	11
95°	62	83	94	138	150	59
105°	144	150	215	288	306	150
115°	179	152	229	315	346	174
125°	165	146	198	290	327	147
135°	135	146	160	215	248	105
145°	110	127	138	148	158	70
155°	100	106	113	123	125	46
165°	98	102	106	110	110	28
175°	96	98	100	102	104	9
180°	94	94	94	94	94	



TEST NUMBER: P520775

CATALOG NUMBER: 8WSLA-75-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1895.6	1895.6	1895.6	1895.6	1895.6
2.5°	1901.3	1897.5	1882.1	1897.5	1893.6
5°	1897.5	1891.7	1876.3	1889.8	1887.9
7.5°	1889.8	1885.9	1868.6	1884.0	1882.1
10°	1880.2	1874.4	1859.0	1870.6	1862.9
12.5°	1866.7	1862.9	1839.8	1830.2	1814.8
15°	1849.4	1847.5	1809.0	1778.3	1759.1
17.5°	1830.2	1822.5	1768.7	1732.1	1714.8
20°	1807.1	1795.6	1724.5	1682.2	1664.9
22.5°	1780.2	1762.9	1680.2	1639.9	1622.6
25°	1747.5	1722.5	1630.3	1589.9	1580.3
27.5°	1711.0	1682.2	1584.1	1543.7	1532.2
30°	1672.5	1636.0	1532.2	1493.8	1472.6
32.5°	1624.5	1589.9	1482.2	1438.0	1414.9
35°	1578.3	1536.1	1430.3	1374.6	1351.5
37.5°	1522.6	1480.3	1370.7	1315.0	1288.1
40°	1463.0	1420.7	1313.0	1247.7	1213.1
42.5°	1397.6	1359.2	1249.6	1170.8	1103.5
45°	1324.6	1291.9	1182.3	1065.0	928.6
47.5°	1257.3	1226.5	1115.0	963.2	822.8
50°	1186.2	1157.3	1045.8	867.0	751.7
52.5°	1107.3	1086.2	970.8	784.4	692.1
55°	1032.4	1017.0	895.9	711.3	638.3
57.5°	953.5	938.2	820.9	642.1	584.4
60°	880.5	865.1	745.9	580.6	534.4
62.5°	807.4	786.3	672.9	521.0	482.5
65°	726.7	709.4	596.0	463.3	438.3
67.5°	645.9	630.6	524.8	409.5	392.2
70°	565.2	551.7	451.8	357.6	348.0
72.5°	486.4	469.1	386.4	305.7	301.8
75°	403.7	390.3	313.4	249.9	242.2
77.5°	324.9	313.4	246.1	190.3	184.6
80°	248.0	236.5	176.9	138.4	144.2
82.5°	182.6	167.3	119.2	107.7	113.4
85°	111.5	98.0	76.9	73.1	73.1
87.5°	38.4	36.5	34.6	40.4	42.3
90°	5.8	26.9	46.1	57.7	61.5
92.5°	32.7	48.1	63.4	75.0	78.8
95°	61.5	82.7	94.2	138.4	150.0
97.5°	84.6	109.6	123.0	163.4	174.9
100°	107.7	130.7	173.0	194.2	207.6
102.5°	126.9	144.2	203.8	246.1	253.8
105°	144.2	150.0	215.3	288.4	305.7



TEST NUMBER: P520775

CATALOG NUMBER: 8WSLA-75-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.0	153.8	230.7	313.4	344.1
115°	178.8	151.9	228.8	315.3	346.0
117.5°	178.8	151.9	223.0	315.3	346.0
120°	174.9	153.8	215.3	311.4	344.1
122.5°	171.1	150.0	207.6	303.7	336.4
125°	165.3	146.1	198.0	290.3	326.8
127.5°	155.7	150.0	188.4	273.0	309.5
130°	148.0	151.9	176.9	255.7	292.2
132.5°	142.3	148.0	165.3	236.5	269.1
135°	134.6	146.1	159.6	215.3	248.0
137.5°	128.8	140.3	150.0	196.1	223.0
140°	123.0	136.5	140.3	171.1	194.2
142.5°	115.3	130.7	132.7	159.6	169.2
145°	109.6	126.9	138.4	148.0	157.6
147.5°	103.8	119.2	134.6	136.5	146.1
150°	101.9	111.5	128.8	130.7	134.6
152.5°	100.0	107.7	119.2	130.7	132.7
155°	100.0	105.7	113.4	123.0	125.0
157.5°	98.0	105.7	109.6	117.3	119.2
160°	98.0	103.8	107.7	113.4	115.3
162.5°	98.0	103.8	105.7	111.5	113.4
165°	98.0	101.9	105.7	109.6	109.6
167.5°	98.0	101.9	103.8	107.7	107.7
170°	98.0	100.0	103.8	105.7	105.7
172.5°	96.1	100.0	101.9	105.7	105.7
175°	96.1	98.0	100.0	101.9	103.8
177.5°	92.3	98.0	100.0	101.9	100.0
180°	94.2	94.2	94.2	94.2	94.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	157.6	151.9	223.0	303.7	328.7
110°	167.3	153.8	228.8	309.5	340.3



(END OF REPORT)