

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: P520511

Luminaire Tested: **4WSLA-150-L835-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520511
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-150-L835-UPL15-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

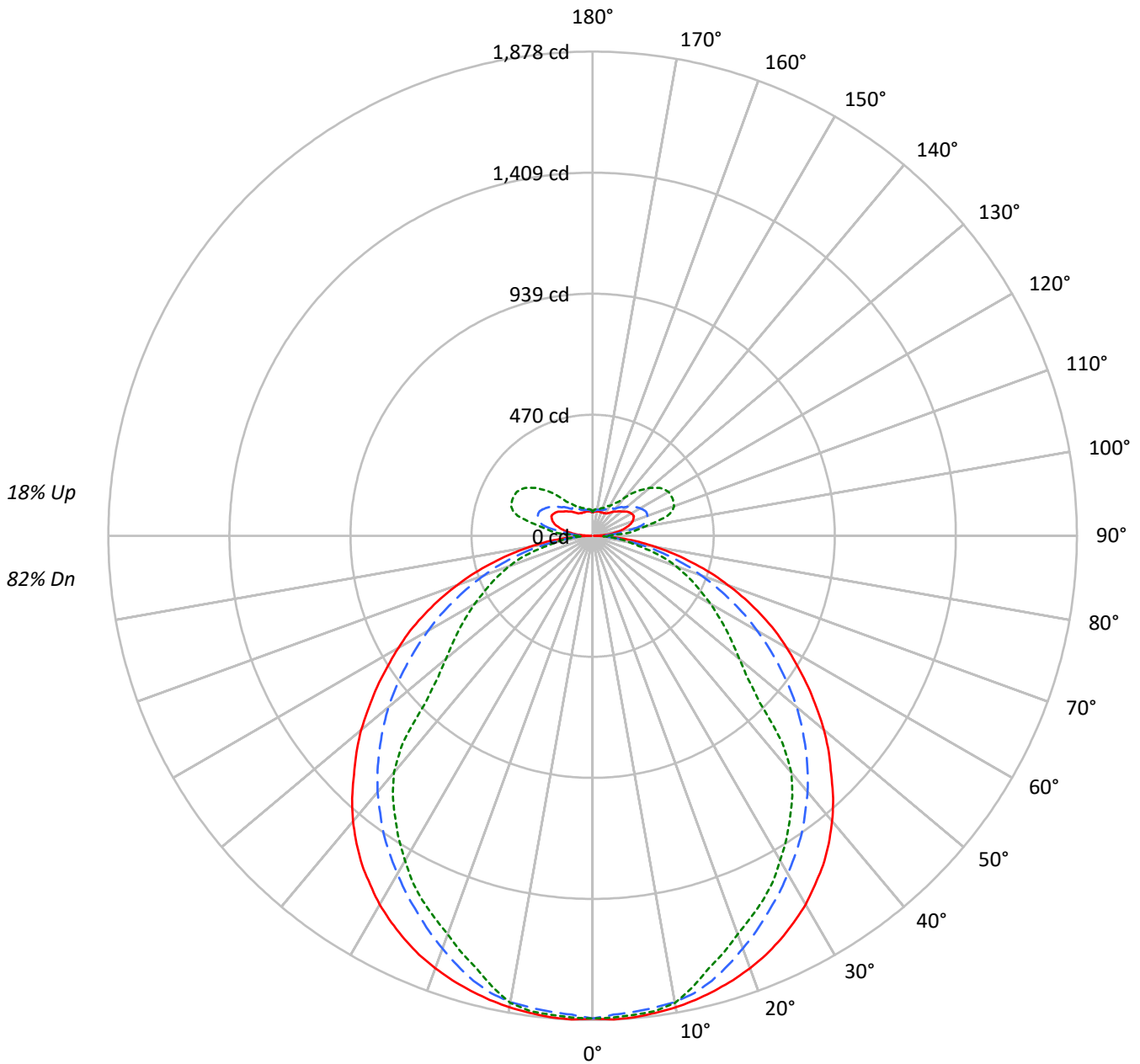
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6063.9 lumens
Efficiency: N/A
Efficacy: 127.1 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): 47.7
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°	10077	10077	10077
5°	10126	10013	10075
10°	10150	10035	10056
15°	10179	9956	9682
20°	10223	9756	9419
25°	10251	9562	9270
30°	10267	9406	9040
35°	10244	9282	8771
40°	10153	9112	8419
45°	9959	8889	6981
50°	9810	8649	6217
55°	9569	8303	5916
60°	9361	7931	5682
65°	9141	7497	5514
70°	8785	7023	5408
75°	8293	6436	4976
80°	7593	5415	4413
85°	6799	4693	4458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	2.9
10°-20°	504.1	8.3
20°-30°	752.3	12.4
30°-40°	896.4	14.8
40°-50°	891.6	14.7
50°-60°	764.1	12.6
60°-70°	575.5	9.5
70°-80°	333.3	5.5
80°-90°	100.2	1.7
90°-100°	107.6	1.8
100°-110°	220.8	3.6
110°-120°	233.5	3.9
120°-130°	194.8	3.2
130°-140°	136.1	2.2
140°-150°	84.7	1.4
150°-160°	52.5	0.9
160°-170°	29.6	0.5
170°-180°	9.5	0.2
0°-30°	1433.8	23.6
0°-40°	2330.2	38.4
0°-60°	3985.9	65.7
0°-90°	4994.9	82.4
90°-120°	561.9	9.3
90°-150°	977.4	16.1
90°-180°	1069.0	17.6
0°-180°	6063.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1874	1869	1853	1867	1865	178
15°	1827	1825	1787	1757	1738	516
25°	1726	1702	1610	1570	1561	796
35°	1559	1517	1413	1358	1335	974
45°	1308	1276	1168	1052	917	1011
55°	1020	1005	885	703	630	912
65°	718	701	589	458	433	710
75°	399	386	310	247	239	422
85°	110	97	76	72	72	117
90°	6	27	46	57	61	11
95°	61	82	93	137	148	58
105°	142	148	213	285	302	148
115°	177	150	226	311	342	172
125°	163	144	196	287	323	145
135°	133	144	158	213	245	104
145°	108	125	137	146	156	69
155°	99	104	112	122	123	46
165°	97	101	104	108	108	27
175°	95	97	99	101	102	9
180°	93	93	93	93	93	



TEST NUMBER: P520511

CATALOG NUMBER: 4WSLA-150-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1872.4	1872.4	1872.4	1872.4	1872.4
2.5°	1878.1	1874.3	1859.1	1874.3	1870.5
5°	1874.3	1868.6	1853.4	1866.7	1864.8
7.5°	1866.7	1862.9	1845.8	1861.0	1859.1
10°	1857.2	1851.5	1836.3	1847.7	1840.1
12.5°	1843.9	1840.1	1817.3	1807.8	1792.6
15°	1826.8	1824.9	1786.9	1756.6	1737.6
17.5°	1807.8	1800.2	1747.1	1711.0	1693.9
20°	1785.0	1773.6	1703.4	1661.6	1644.5
22.5°	1758.5	1741.4	1659.7	1619.8	1602.7
25°	1726.2	1701.5	1610.3	1570.5	1561.0
27.5°	1690.1	1661.6	1564.8	1524.9	1513.5
30°	1652.1	1616.0	1513.5	1475.5	1454.6
32.5°	1604.6	1570.5	1464.1	1420.4	1397.6
35°	1559.1	1517.3	1412.8	1357.8	1335.0
37.5°	1504.0	1462.2	1354.0	1298.9	1272.3
40°	1445.1	1403.3	1297.0	1232.4	1198.3
42.5°	1380.6	1342.6	1234.3	1156.5	1090.0
45°	1308.4	1276.1	1167.9	1052.0	917.2
47.5°	1241.9	1211.5	1101.4	951.4	812.8
50°	1171.7	1143.2	1033.0	856.4	742.5
52.5°	1093.8	1072.9	959.0	774.8	683.6
55°	1019.8	1004.6	884.9	702.6	630.5
57.5°	941.9	926.7	810.9	634.3	577.3
60°	869.7	854.5	736.8	573.5	527.9
62.5°	797.6	776.7	664.6	514.6	476.6
65°	717.8	700.7	588.7	457.7	433.0
67.5°	638.1	622.9	518.4	404.5	387.4
70°	558.3	545.0	446.3	353.2	343.7
72.5°	480.4	463.4	381.7	301.9	298.1
75°	398.8	385.5	309.5	246.9	239.3
77.5°	320.9	309.5	243.1	188.0	182.3
80°	245.0	233.6	174.7	136.7	142.4
82.5°	180.4	165.2	117.7	106.3	112.0
85°	110.1	96.8	76.0	72.2	72.2
87.5°	38.0	36.1	34.2	39.9	41.8
90°	5.7	26.6	45.6	57.0	60.8
92.5°	32.3	47.5	62.7	74.1	77.9
95°	60.8	81.7	93.1	136.7	148.1
97.5°	83.6	108.2	121.5	161.4	172.8
100°	106.3	129.1	170.9	191.8	205.1
102.5°	125.3	142.4	201.3	243.1	250.7
105°	142.4	148.1	212.7	284.8	301.9



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CATALOG NUMBER: 4WSLA-150-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.9	151.9	227.9	309.5	339.9
115°	176.6	150.0	226.0	311.4	341.8
117.5°	176.6	150.0	220.3	311.4	341.8
120°	172.8	151.9	212.7	307.6	339.9
122.5°	169.0	148.1	205.1	300.0	332.3
125°	163.3	144.3	195.6	286.7	322.8
127.5°	153.8	148.1	186.1	269.7	305.7
130°	146.2	150.0	174.7	252.6	288.6
132.5°	140.5	146.2	163.3	233.6	265.9
135°	132.9	144.3	157.6	212.7	245.0
137.5°	127.2	138.6	148.1	193.7	220.3
140°	121.5	134.8	138.6	169.0	191.8
142.5°	113.9	129.1	131.0	157.6	167.1
145°	108.2	125.3	136.7	146.2	155.7
147.5°	102.5	117.7	132.9	134.8	144.3
150°	100.6	110.1	127.2	129.1	132.9
152.5°	98.7	106.3	117.7	129.1	131.0
155°	98.7	104.4	112.0	121.5	123.4
157.5°	96.8	104.4	108.2	115.8	117.7
160°	96.8	102.5	106.3	112.0	113.9
162.5°	96.8	102.5	104.4	110.1	112.0
165°	96.8	100.6	104.4	108.2	108.2
167.5°	96.8	100.6	102.5	106.3	106.3
170°	96.8	98.7	102.5	104.4	104.4
172.5°	94.9	98.7	100.6	104.4	104.4
175°	94.9	96.8	98.7	100.6	102.5
177.5°	91.2	96.8	98.7	100.6	98.7
180°	93.1	93.1	93.1	93.1	93.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	155.7	150.0	220.3	300.0	324.7
110°	165.2	151.9	226.0	305.7	336.1



(END OF REPORT)