

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: P520518

Luminaire Tested: **4WSLA-150-L850-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-150-L850-UPL8-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

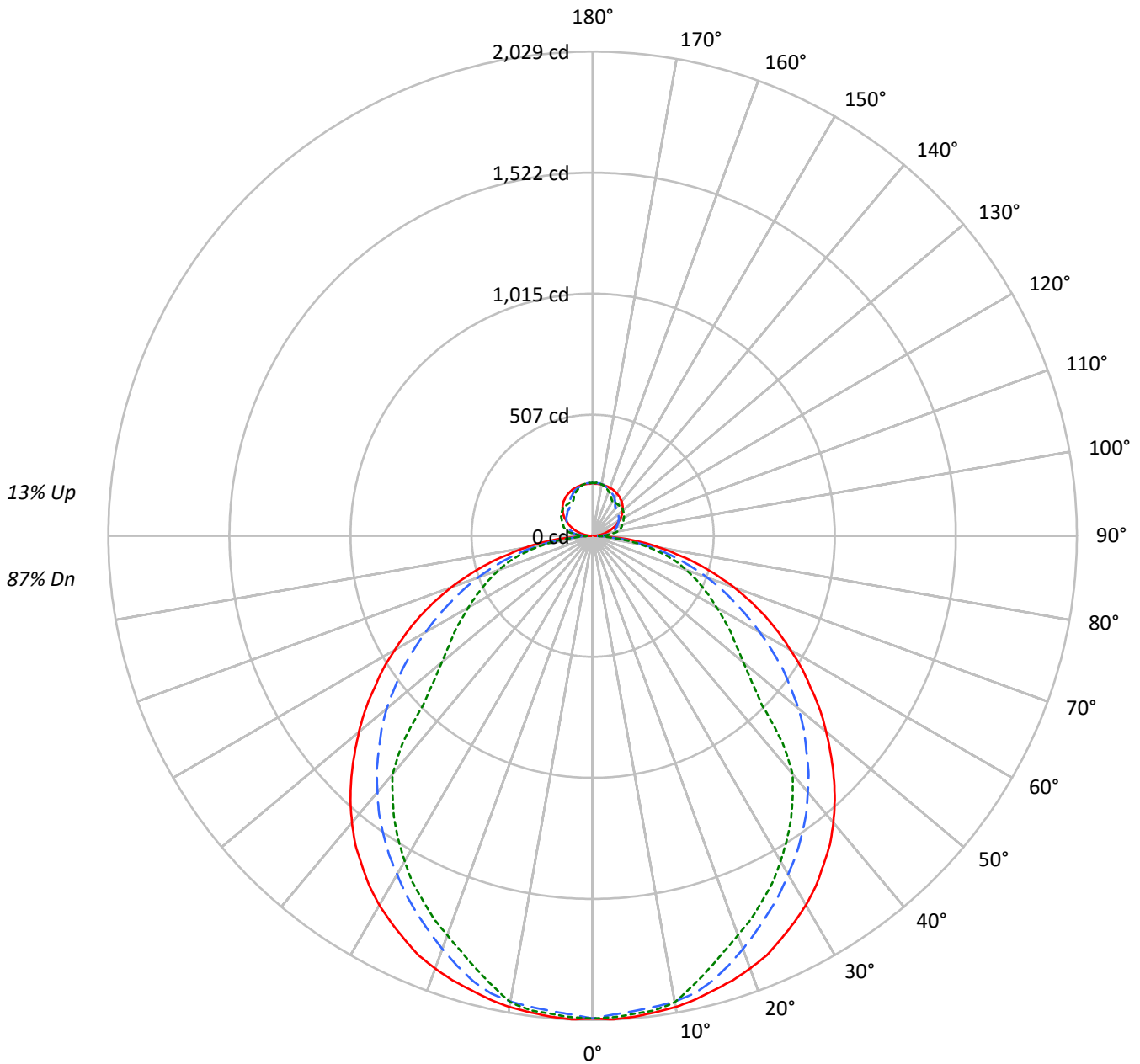
Lumens per Lamp: N/A
Luminaire Lumens: 6295.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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				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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87			87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73			73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61			61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51			51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44			44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38			38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33			33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30			30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24			24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10886	10886	10886
5°	10928	10802	10865
10°	10959	10832	10847
15°	10978	10768	10476
20°	11052	10552	10202
25°	11079	10352	10007
30°	11105	10183	9785
35°	11071	10039	9523
40°	11021	9856	9161
45°	10876	9636	7642
50°	10698	9430	6896
55°	10487	9121	6636
60°	10306	8709	6453
65°	10156	8339	6449
70°	9892	8014	6549
75°	9441	7625	6596
80°	8839	6856	6134
85°	8089	4854	4131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	3.0
10°-20°	544.4	8.6
20°-30°	813.5	12.9
30°-40°	971.0	15.4
40°-50°	971.1	15.4
50°-60°	840.5	13.4
60°-70°	645.1	10.2
70°-80°	395.3	6.3
80°-90°	111.3	1.8
90°-100°	62.9	1.0
100°-110°	99.8	1.6
110°-120°	116.7	1.9
120°-130°	126.0	2.0
130°-140°	124.2	2.0
140°-150°	109.8	1.7
150°-160°	90.4	1.4
160°-170°	60.5	1.0
170°-180°	21.1	0.3
0°-30°	1549.4	24.6
0°-40°	2520.4	40.0
0°-60°	4332.0	68.8
0°-90°	5483.6	87.1
90°-120°	279.4	4.4
90°-150°	639.4	10.2
90°-180°	811.0	12.9
0°-180°	6295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2023	2017	1999	2014	2011	192
15°	1970	1967	1932	1898	1880	557
25°	1866	1842	1743	1697	1685	861
35°	1685	1642	1528	1473	1449	1055
45°	1429	1388	1266	1152	1004	1102
55°	1118	1091	972	777	707	1002
65°	798	768	655	527	506	788
75°	454	431	367	317	317	479
85°	131	108	79	67	67	137
90°	6	20	32	41	44	9
95°	23	50	67	70	70	23
105°	67	70	99	116	122	70
115°	111	93	116	134	143	108
125°	148	119	134	154	160	132
135°	178	160	148	163	172	137
145°	198	189	166	163	169	123
155°	210	207	195	186	183	97
165°	215	218	212	212	212	61
175°	218	221	221	224	224	21
180°	221	221	221	221	221	



TEST NUMBER: P520518

CATALOG NUMBER: 4WSLA-150-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.7	2022.7	2022.7	2022.7	2022.7
2.5°	2028.6	2022.7	2008.2	2022.7	2019.8
5°	2022.7	2016.9	1999.4	2014.0	2011.1
7.5°	2014.0	2008.2	1990.7	2008.2	2005.3
10°	2005.3	1999.4	1982.0	1993.6	1984.9
12.5°	1990.7	1984.9	1964.5	1950.0	1932.5
15°	1970.3	1967.4	1932.5	1897.6	1880.1
17.5°	1952.9	1944.2	1888.9	1848.1	1827.7
20°	1929.6	1915.0	1842.3	1795.7	1781.2
22.5°	1903.4	1880.1	1792.8	1749.2	1737.5
25°	1865.6	1842.3	1743.3	1696.8	1685.1
27.5°	1827.7	1798.6	1693.9	1647.3	1635.6
30°	1787.0	1746.2	1638.6	1594.9	1574.5
32.5°	1740.4	1699.7	1586.2	1536.7	1513.4
35°	1685.1	1641.5	1528.0	1472.7	1449.4
37.5°	1632.7	1586.2	1469.8	1408.6	1376.6
40°	1568.7	1522.1	1402.8	1335.9	1303.9
42.5°	1501.8	1458.1	1338.8	1257.3	1178.7
45°	1429.0	1388.3	1266.0	1152.5	1004.1
47.5°	1353.3	1318.4	1199.1	1044.8	902.2
50°	1277.7	1242.7	1126.3	943.0	823.6
52.5°	1202.0	1172.9	1044.8	858.6	759.6
55°	1117.6	1091.4	972.1	777.1	707.2
57.5°	1041.9	1015.7	887.7	710.1	651.9
60°	957.5	934.2	809.1	643.2	599.5
62.5°	878.9	852.7	730.5	585.0	553.0
65°	797.5	768.3	654.8	526.8	506.4
67.5°	713.0	683.9	582.1	474.4	462.8
70°	628.6	605.4	509.3	422.0	416.2
72.5°	541.3	515.1	436.6	372.5	372.5
75°	454.0	430.7	366.7	317.2	317.2
77.5°	363.8	352.2	294.0	259.0	261.9
80°	285.2	270.7	221.2	197.9	197.9
82.5°	209.5	192.1	148.4	131.0	136.8
85°	131.0	107.7	78.6	66.9	66.9
87.5°	40.7	32.0	23.3	26.2	26.2
90°	5.8	20.4	32.0	40.7	43.7
92.5°	14.6	37.8	46.6	55.3	58.2
95°	23.3	49.5	66.9	69.8	69.8
97.5°	32.0	55.3	81.5	93.1	93.1
100°	43.7	58.2	87.3	104.8	107.7
102.5°	55.3	64.0	93.1	110.6	116.4
105°	66.9	69.8	99.0	116.4	122.2



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CATALOG NUMBER: 4WSLA-150-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.0	87.3	110.6	131.0	136.8
115°	110.6	93.1	116.4	133.9	142.6
117.5°	119.3	101.9	122.2	139.7	145.5
120°	128.1	107.7	125.1	145.5	151.3
122.5°	139.7	113.5	131.0	148.4	157.2
125°	148.4	119.3	133.9	154.3	160.1
127.5°	157.2	131.0	136.8	157.2	163.0
130°	163.0	142.6	139.7	160.1	165.9
132.5°	171.7	151.3	142.6	163.0	168.8
135°	177.5	160.1	148.4	163.0	171.7
137.5°	183.4	168.8	148.4	163.0	168.8
140°	189.2	177.5	151.3	163.0	168.8
142.5°	192.1	183.4	154.3	163.0	168.8
145°	197.9	189.2	165.9	163.0	168.8
147.5°	200.8	195.0	174.6	163.0	168.8
150°	203.7	200.8	183.4	165.9	165.9
152.5°	206.6	203.7	189.2	177.5	171.7
155°	209.5	206.6	195.0	186.3	183.4
157.5°	212.5	212.5	200.8	195.0	192.1
160°	212.5	215.4	206.6	200.8	197.9
162.5°	215.4	218.3	209.5	206.6	203.7
165°	215.4	218.3	212.5	212.5	212.5
167.5°	218.3	221.2	218.3	215.4	215.4
170°	218.3	221.2	218.3	218.3	218.3
172.5°	218.3	221.2	221.2	221.2	221.2
175°	218.3	221.2	221.2	224.1	224.1
177.5°	218.3	221.2	221.2	221.2	221.2
180°	221.2	221.2	221.2	221.2	221.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	78.6	75.7	101.9	122.2	128.1
110°	87.3	81.5	107.7	125.1	131.0



(END OF REPORT)