

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: P520508

Luminaire Tested: **4WSLA-150-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520508
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-L830-UPL15-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

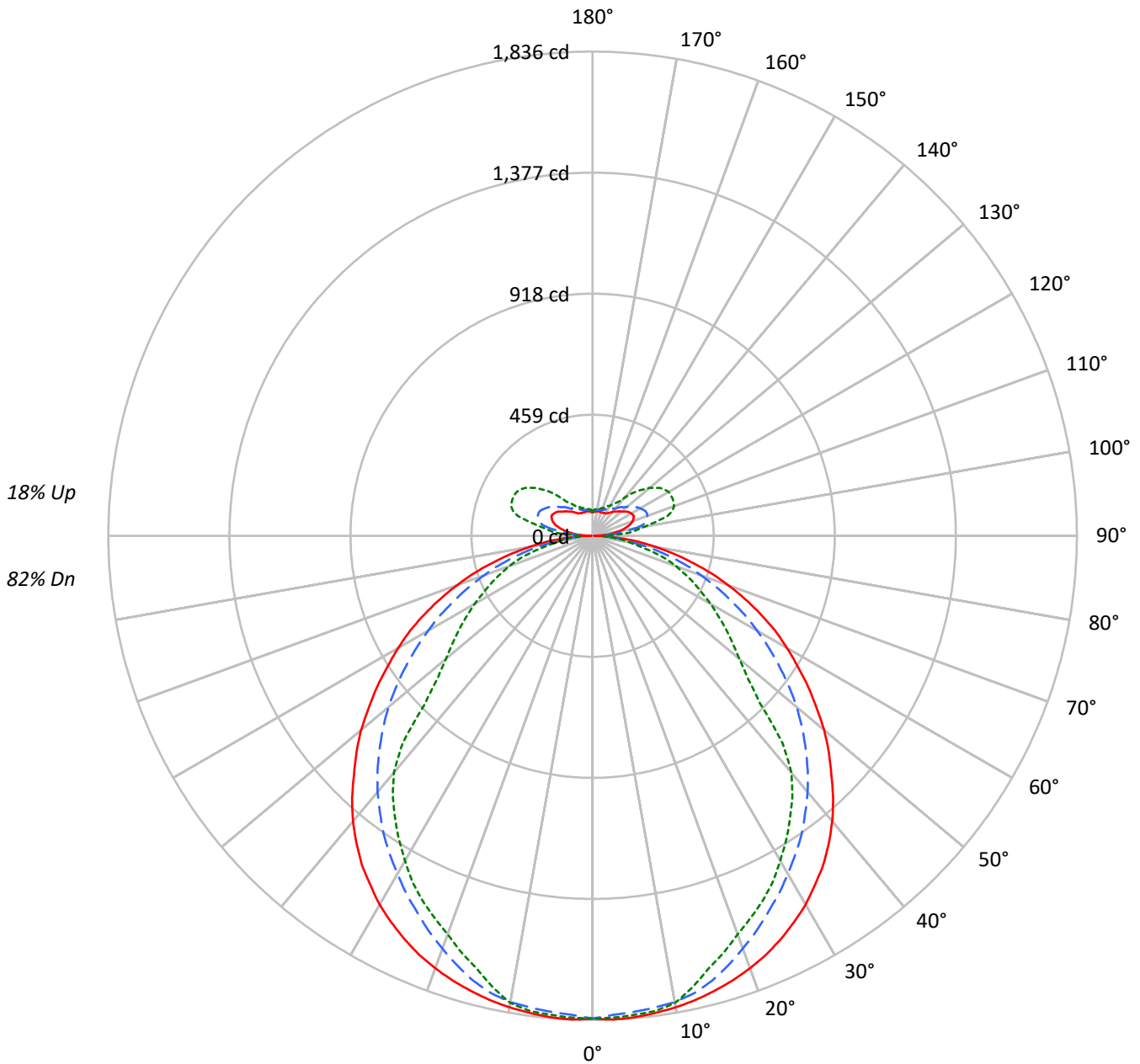
Lumens per Lamp: N/A
Luminaire Lumens: 5929.0 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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				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°	9853	9853	9853
5°	9901	9790	9850
10°	9924	9812	9832
15°	9952	9735	9466
20°	9996	9539	9209
25°	10022	9350	9063
30°	10038	9196	8838
35°	10016	9076	8576
40°	9927	8909	8231
45°	9737	8691	6826
50°	9592	8457	6079
55°	9356	8118	5784
60°	9154	7754	5556
65°	8937	7330	5391
70°	8590	6866	5289
75°	8108	6292	4864
80°	7423	5294	4317
85°	6651	4588	4360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	2.9
10°-20°	492.9	8.3
20°-30°	735.6	12.4
30°-40°	876.4	14.8
40°-50°	871.7	14.7
50°-60°	747.1	12.6
60°-70°	562.7	9.5
70°-80°	325.9	5.5
80°-90°	97.9	1.7
90°-100°	105.1	1.8
100°-110°	215.9	3.6
110°-120°	228.3	3.9
120°-130°	190.5	3.2
130°-140°	133.1	2.2
140°-150°	82.8	1.4
150°-160°	51.3	0.9
160°-170°	28.9	0.5
170°-180°	9.3	0.2
0°-30°	1401.9	23.6
0°-40°	2278.3	38.4
0°-60°	3897.2	65.7
0°-90°	4883.7	82.4
90°-120°	549.4	9.3
90°-150°	955.7	16.1
90°-180°	1045.0	17.6
0°-180°	5929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1833	1827	1812	1825	1823	174
15°	1786	1784	1747	1718	1699	505
25°	1688	1664	1574	1536	1526	778
35°	1524	1484	1381	1328	1305	952
45°	1279	1248	1142	1029	897	989
55°	997	982	865	687	616	891
65°	702	685	576	448	423	694
75°	390	377	303	241	234	413
85°	108	95	74	71	71	115
90°	6	26	45	56	59	11
95°	59	80	91	134	145	57
105°	139	145	208	278	295	144
115°	173	147	221	304	334	168
125°	160	141	191	280	316	142
135°	130	141	154	208	240	101
145°	106	122	134	143	152	67
155°	96	102	110	119	121	45
165°	95	98	102	106	106	27
175°	93	95	96	98	100	9
180°	91	91	91	91	91	



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CATALOG NUMBER: 4WSLA-150-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.7	1830.7	1830.7	1830.7	1830.7
2.5°	1836.3	1832.6	1817.7	1832.6	1828.9
5°	1832.6	1827.0	1812.1	1825.1	1823.3
7.5°	1825.1	1821.4	1804.7	1819.6	1817.7
10°	1815.9	1810.3	1795.4	1806.6	1799.1
12.5°	1802.9	1799.1	1776.9	1767.6	1752.7
15°	1786.1	1784.3	1747.2	1717.5	1698.9
17.5°	1767.6	1760.2	1708.2	1672.9	1656.2
20°	1745.3	1734.2	1665.5	1624.6	1607.9
22.5°	1719.3	1702.6	1622.8	1583.8	1567.1
25°	1687.7	1663.6	1574.5	1535.5	1526.2
27.5°	1652.5	1624.6	1529.9	1490.9	1479.8
30°	1615.3	1580.1	1479.8	1442.7	1422.2
32.5°	1568.9	1535.5	1431.5	1388.8	1366.5
35°	1524.4	1483.5	1381.4	1327.5	1305.3
37.5°	1470.5	1429.7	1323.8	1270.0	1244.0
40°	1413.0	1372.1	1268.1	1205.0	1171.6
42.5°	1349.8	1312.7	1206.9	1130.7	1065.7
45°	1279.3	1247.7	1141.9	1028.6	896.8
47.5°	1214.3	1184.6	1076.9	930.2	794.7
50°	1145.6	1117.7	1010.0	837.4	726.0
52.5°	1069.5	1049.0	937.6	757.5	668.4
55°	997.1	982.2	865.2	687.0	616.4
57.5°	920.9	906.1	792.8	620.1	564.4
60°	850.4	835.5	720.4	560.7	516.2
62.5°	779.8	759.4	649.8	503.2	466.0
65°	701.8	685.1	575.6	447.5	423.3
67.5°	623.9	609.0	506.9	395.5	378.8
70°	545.9	532.9	436.3	345.3	336.1
72.5°	469.7	453.0	373.2	295.2	291.5
75°	389.9	376.9	302.6	241.4	233.9
77.5°	313.8	302.6	237.7	183.8	178.2
80°	239.5	228.4	170.8	133.7	139.3
82.5°	176.4	161.5	115.1	104.0	109.5
85°	107.7	94.7	74.3	70.6	70.6
87.5°	37.1	35.3	33.4	39.0	40.8
90°	5.6	26.0	44.6	55.7	59.4
92.5°	31.6	46.4	61.3	72.4	76.1
95°	59.4	79.8	91.0	133.7	144.8
97.5°	81.7	105.8	118.8	157.8	169.0
100°	104.0	126.3	167.1	187.5	200.5
102.5°	122.5	139.3	196.8	237.7	245.1
105°	139.3	144.8	208.0	278.5	295.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.1	148.5	222.8	302.6	332.4
115°	172.7	146.7	220.9	304.5	334.2
117.5°	172.7	146.7	215.4	304.5	334.2
120°	169.0	148.5	208.0	300.8	332.4
122.5°	165.2	144.8	200.5	293.4	324.9
125°	159.7	141.1	191.2	280.4	315.6
127.5°	150.4	144.8	182.0	263.7	298.9
130°	143.0	146.7	170.8	246.9	282.2
132.5°	137.4	143.0	159.7	228.4	259.9
135°	130.0	141.1	154.1	208.0	239.5
137.5°	124.4	135.5	144.8	189.4	215.4
140°	118.8	131.8	135.5	165.2	187.5
142.5°	111.4	126.3	128.1	154.1	163.4
145°	105.8	122.5	133.7	143.0	152.2
147.5°	100.3	115.1	130.0	131.8	141.1
150°	98.4	107.7	124.4	126.3	130.0
152.5°	96.5	104.0	115.1	126.3	128.1
155°	96.5	102.1	109.5	118.8	120.7
157.5°	94.7	102.1	105.8	113.3	115.1
160°	94.7	100.3	104.0	109.5	111.4
162.5°	94.7	100.3	102.1	107.7	109.5
165°	94.7	98.4	102.1	105.8	105.8
167.5°	94.7	98.4	100.3	104.0	104.0
170°	94.7	96.5	100.3	102.1	102.1
172.5°	92.8	96.5	98.4	102.1	102.1
175°	92.8	94.7	96.5	98.4	100.3
177.5°	89.1	94.7	96.5	98.4	96.5
180°	91.0	91.0	91.0	91.0	91.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	152.2	146.7	215.4	293.4	317.5
110°	161.5	148.5	220.9	298.9	328.6



(END OF REPORT)