

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: P520509

Luminaire Tested: **4WSLA-150-L830-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520509
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-L830-UPL8-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

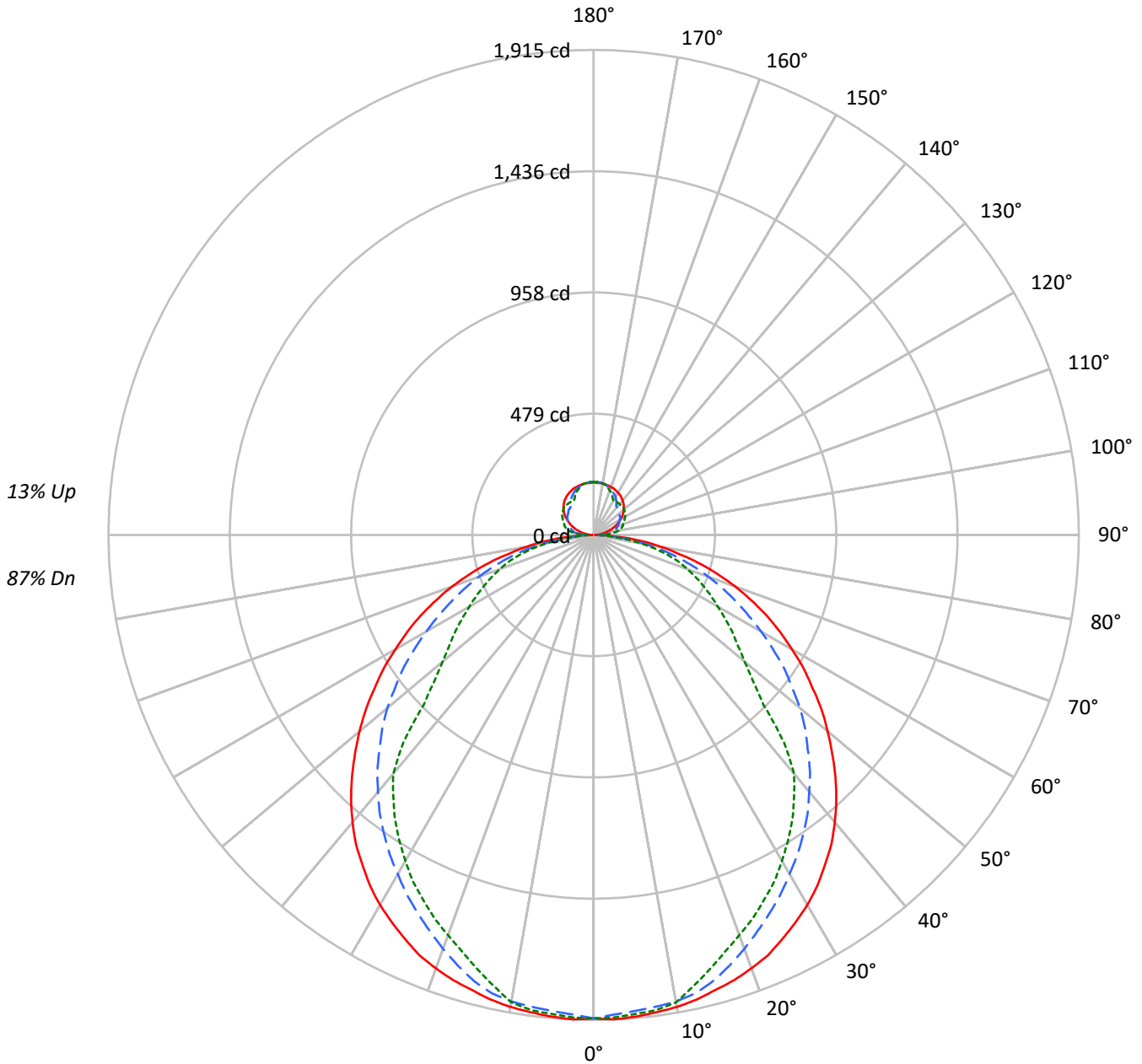
Lumens per Lamp: N/A
Luminaire Lumens: 5941.9 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10276	10276	10276
5°	10315	10196	10256
10°	10344	10224	10239
15°	10363	10164	9888
20°	10432	9960	9629
25°	10457	9772	9446
30°	10483	9612	9236
35°	10450	9476	8989
40°	10403	9303	8646
45°	10267	9095	7214
50°	10098	8902	6510
55°	9898	8610	6264
60°	9728	8220	6091
65°	9585	7871	6087
70°	9338	7566	6181
75°	8912	7197	6226
80°	8343	6471	5790
85°	7632	4582	3903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	3.0
10°-20°	513.9	8.6
20°-30°	767.8	12.9
30°-40°	916.6	15.4
40°-50°	916.7	15.4
50°-60°	793.3	13.4
60°-70°	608.9	10.2
70°-80°	373.1	6.3
80°-90°	105.0	1.8
90°-100°	59.4	1.0
100°-110°	94.2	1.6
110°-120°	110.2	1.9
120°-130°	118.9	2.0
130°-140°	117.2	2.0
140°-150°	103.7	1.7
150°-160°	85.3	1.4
160°-170°	57.1	1.0
170°-180°	19.9	0.3
0°-30°	1462.5	24.6
0°-40°	2379.1	40.0
0°-60°	4089.0	68.8
0°-90°	5176.1	87.1
90°-120°	263.8	4.4
90°-150°	603.5	10.2
90°-180°	766.0	12.9
0°-180°	5941.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1909	1909	1909	1909	1909	
5°	1909	1904	1887	1901	1898	182
15°	1860	1857	1824	1791	1775	526
25°	1761	1739	1646	1602	1591	812
35°	1591	1549	1442	1390	1368	996
45°	1349	1310	1195	1088	948	1040
55°	1055	1030	918	734	668	946
65°	753	725	618	497	478	744
75°	429	407	346	299	299	452
85°	124	102	74	63	63	129
90°	6	19	30	38	41	9
95°	22	47	63	66	66	22
105°	63	66	93	110	115	66
115°	104	88	110	126	135	102
125°	140	113	126	146	151	125
135°	168	151	140	154	162	129
145°	187	179	157	154	159	117
155°	198	195	184	176	173	91
165°	203	206	200	200	200	58
175°	206	209	209	212	212	20
180°	209	209	209	209	209	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1909.3	1909.3	1909.3	1909.3	1909.3
2.5°	1914.8	1909.3	1895.6	1909.3	1906.6
5°	1909.3	1903.8	1887.3	1901.1	1898.3
7.5°	1901.1	1895.6	1879.1	1895.6	1892.8
10°	1892.8	1887.3	1870.8	1881.8	1873.6
12.5°	1879.1	1873.6	1854.4	1840.6	1824.1
15°	1859.9	1857.1	1824.1	1791.2	1774.7
17.5°	1843.4	1835.1	1782.9	1744.5	1725.2
20°	1821.4	1807.7	1739.0	1695.0	1681.3
22.5°	1796.7	1774.7	1692.3	1651.1	1640.1
25°	1761.0	1739.0	1645.6	1601.6	1590.6
27.5°	1725.2	1697.8	1598.9	1554.9	1543.9
30°	1686.8	1648.3	1546.7	1505.5	1486.2
32.5°	1642.8	1604.4	1497.2	1450.5	1428.5
35°	1590.6	1549.4	1442.3	1390.1	1368.1
37.5°	1541.2	1497.2	1387.3	1329.6	1299.4
40°	1480.7	1436.8	1324.2	1261.0	1230.7
42.5°	1417.6	1376.3	1263.7	1186.8	1112.6
45°	1348.9	1310.4	1195.0	1087.9	947.8
47.5°	1277.4	1244.5	1131.8	986.2	851.6
50°	1206.0	1173.1	1063.2	890.1	777.5
52.5°	1134.6	1107.1	986.2	810.4	717.0
55°	1054.9	1030.2	917.6	733.5	667.6
57.5°	983.5	958.8	837.9	670.3	615.4
60°	903.8	881.9	763.7	607.1	565.9
62.5°	829.7	804.9	689.5	552.2	522.0
65°	752.7	725.3	618.1	497.2	478.0
67.5°	673.1	645.6	549.4	447.8	436.8
70°	593.4	571.4	480.8	398.3	392.8
72.5°	511.0	486.3	412.1	351.6	351.6
75°	428.6	406.6	346.1	299.4	299.4
77.5°	343.4	332.4	277.5	244.5	247.2
80°	269.2	255.5	208.8	186.8	186.8
82.5°	197.8	181.3	140.1	123.6	129.1
85°	123.6	101.6	74.2	63.2	63.2
87.5°	38.5	30.2	22.0	24.7	24.7
90°	5.5	19.2	30.2	38.5	41.2
92.5°	13.7	35.7	44.0	52.2	54.9
95°	22.0	46.7	63.2	65.9	65.9
97.5°	30.2	52.2	76.9	87.9	87.9
100°	41.2	54.9	82.4	98.9	101.6
102.5°	52.2	60.4	87.9	104.4	109.9
105°	63.2	65.9	93.4	109.9	115.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.4	82.4	104.4	123.6	129.1
115°	104.4	87.9	109.9	126.4	134.6
117.5°	112.6	96.2	115.4	131.9	137.4
120°	120.9	101.6	118.1	137.4	142.9
122.5°	131.9	107.1	123.6	140.1	148.3
125°	140.1	112.6	126.4	145.6	151.1
127.5°	148.3	123.6	129.1	148.3	153.8
130°	153.8	134.6	131.9	151.1	156.6
132.5°	162.1	142.9	134.6	153.8	159.3
135°	167.6	151.1	140.1	153.8	162.1
137.5°	173.1	159.3	140.1	153.8	159.3
140°	178.6	167.6	142.9	153.8	159.3
142.5°	181.3	173.1	145.6	153.8	159.3
145°	186.8	178.6	156.6	153.8	159.3
147.5°	189.6	184.1	164.8	153.8	159.3
150°	192.3	189.6	173.1	156.6	156.6
152.5°	195.1	192.3	178.6	167.6	162.1
155°	197.8	195.1	184.1	175.8	173.1
157.5°	200.5	200.5	189.6	184.1	181.3
160°	200.5	203.3	195.1	189.6	186.8
162.5°	203.3	206.0	197.8	195.1	192.3
165°	203.3	206.0	200.5	200.5	200.5
167.5°	206.0	208.8	206.0	203.3	203.3
170°	206.0	208.8	206.0	206.0	206.0
172.5°	206.0	208.8	208.8	208.8	208.8
175°	206.0	208.8	208.8	211.5	211.5
177.5°	206.0	208.8	208.8	208.8	208.8
180°	208.8	208.8	208.8	208.8	208.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	74.2	71.4	96.2	115.4	120.9
110°	82.4	76.9	101.6	118.1	123.6



(END OF REPORT)