

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: P520544

Luminaire Tested: **4WSLA-175-L930-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520544
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-175-L930-UPL15-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

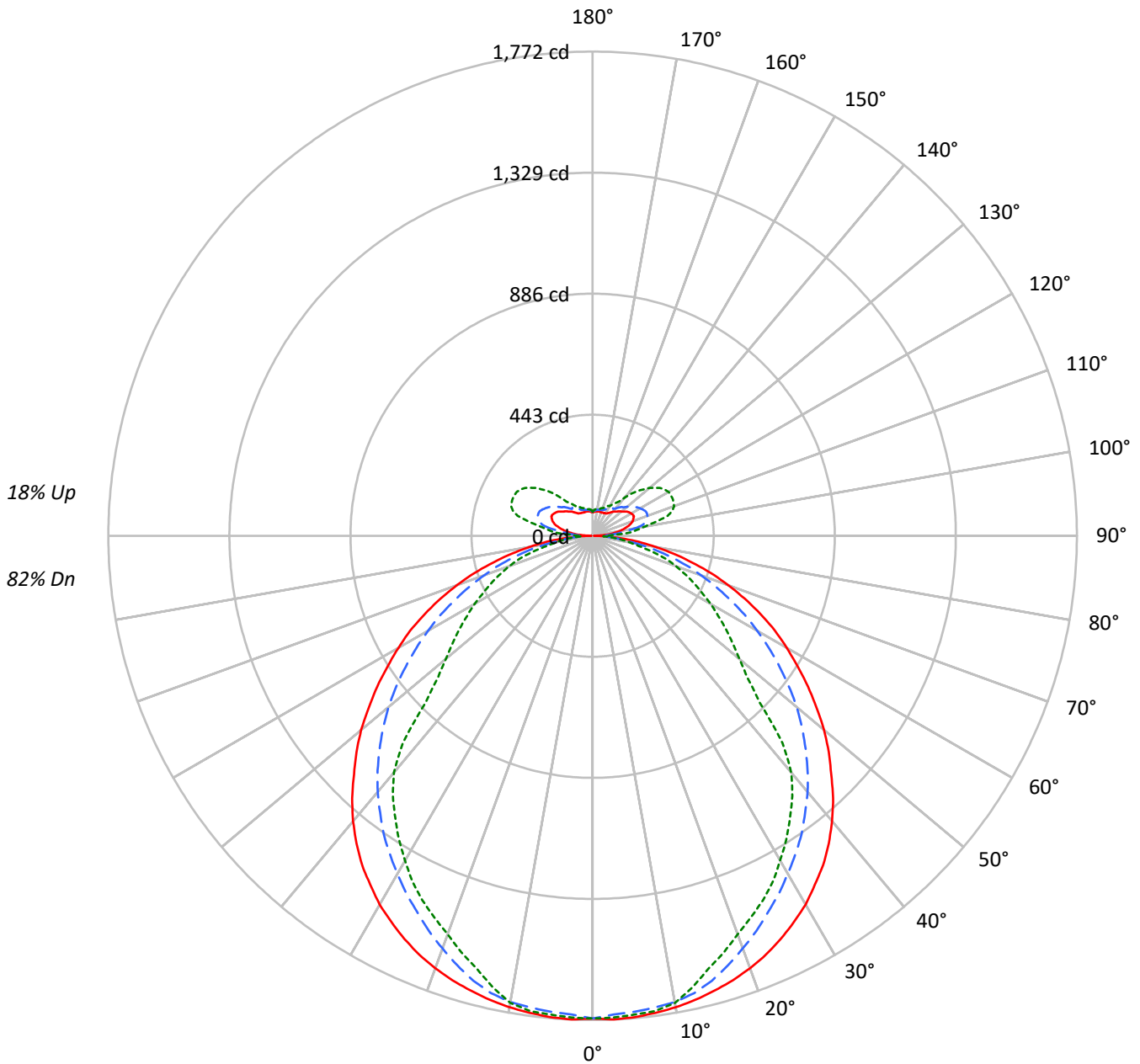
Lumens per Lamp: N/A
Luminaire Lumens: 5721.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 59.5
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°	9507	9507	9507
5°	9553	9447	9505
10°	9576	9468	9487
15°	9603	9394	9134
20°	9645	9204	8886
25°	9671	9022	8745
30°	9687	8874	8528
35°	9664	8757	8275
40°	9579	8597	7942
45°	9395	8386	6586
50°	9255	8160	5865
55°	9028	7834	5581
60°	8832	7482	5362
65°	8624	7073	5202
70°	8288	6625	5103
75°	7823	6072	4693
80°	7163	5108	4166
85°	6416	4428	4205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	2.9
10°-20°	475.6	8.3
20°-30°	709.7	12.4
30°-40°	845.7	14.8
40°-50°	841.2	14.7
50°-60°	720.9	12.6
60°-70°	542.9	9.5
70°-80°	314.4	5.5
80°-90°	94.5	1.7
90°-100°	101.5	1.8
100°-110°	208.3	3.6
110°-120°	220.3	3.9
120°-130°	183.8	3.2
130°-140°	128.4	2.2
140°-150°	79.9	1.4
150°-160°	49.5	0.9
160°-170°	27.9	0.5
170°-180°	9.0	0.2
0°-30°	1352.7	23.6
0°-40°	2198.4	38.4
0°-60°	3760.5	65.7
0°-90°	4712.4	82.4
90°-120°	530.1	9.3
90°-150°	922.2	16.1
90°-180°	1009.0	17.6
0°-180°	5721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1768	1763	1749	1761	1759	168
15°	1724	1722	1686	1657	1639	487
25°	1628	1605	1519	1482	1473	751
35°	1471	1432	1333	1281	1260	919
45°	1234	1204	1102	992	865	954
55°	962	948	835	663	595	860
65°	677	661	555	432	408	669
75°	376	364	292	233	226	399
85°	104	91	72	68	68	111
90°	5	25	43	54	57	11
95°	57	77	88	129	140	55
105°	134	140	201	269	285	139
115°	167	142	213	294	322	162
125°	154	136	184	270	305	137
135°	125	136	149	201	231	98
145°	102	118	129	138	147	65
155°	93	98	106	115	116	43
165°	91	95	98	102	102	26
175°	90	91	93	95	97	9
180°	88	88	88	88	88	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.5	1766.5	1766.5	1766.5	1766.5
2.5°	1771.9	1768.3	1753.9	1768.3	1764.7
5°	1768.3	1762.9	1748.6	1761.1	1759.3
7.5°	1761.1	1757.5	1741.4	1755.7	1753.9
10°	1752.2	1746.8	1732.4	1743.2	1736.0
12.5°	1739.6	1736.0	1714.5	1705.6	1691.2
15°	1723.5	1721.7	1685.9	1657.2	1639.3
17.5°	1705.6	1698.4	1648.2	1614.2	1598.1
20°	1684.1	1673.3	1607.0	1567.6	1551.5
22.5°	1659.0	1642.9	1565.8	1528.2	1512.1
25°	1628.5	1605.2	1519.2	1481.6	1472.7
27.5°	1594.5	1567.6	1476.3	1438.6	1427.9
30°	1558.7	1524.6	1427.9	1392.0	1372.3
32.5°	1513.9	1481.6	1381.3	1340.1	1318.6
35°	1470.9	1431.5	1332.9	1281.0	1259.5
37.5°	1418.9	1379.5	1277.4	1225.4	1200.4
40°	1363.4	1324.0	1223.6	1162.7	1130.5
42.5°	1302.5	1266.6	1164.5	1091.1	1028.4
45°	1234.4	1203.9	1101.8	992.5	865.3
47.5°	1171.7	1143.0	1039.1	897.6	766.8
50°	1105.4	1078.5	974.6	808.0	700.5
52.5°	1031.9	1012.2	904.7	731.0	645.0
55°	962.1	947.7	834.9	662.9	594.8
57.5°	888.6	874.3	765.0	598.4	544.6
60°	820.5	806.2	695.1	541.1	498.1
62.5°	752.5	732.8	627.0	485.5	449.7
65°	677.2	661.1	555.4	431.8	408.5
67.5°	602.0	587.6	489.1	381.6	365.5
70°	526.7	514.2	421.0	333.2	324.3
72.5°	453.3	437.1	360.1	284.9	281.3
75°	376.2	363.7	292.0	232.9	225.7
77.5°	302.8	292.0	229.3	177.4	172.0
80°	231.1	220.4	164.8	129.0	134.4
82.5°	170.2	155.9	111.1	100.3	105.7
85°	103.9	91.4	71.7	68.1	68.1
87.5°	35.8	34.0	32.2	37.6	39.4
90°	5.4	25.1	43.0	53.7	57.3
92.5°	30.5	44.8	59.1	69.9	73.5
95°	57.3	77.0	87.8	129.0	139.7
97.5°	78.8	102.1	114.7	152.3	163.0
100°	100.3	121.8	161.2	180.9	193.5
102.5°	118.2	134.4	189.9	229.3	236.5
105°	134.4	139.7	200.7	268.7	284.9



TEST NUMBER: P520544

CATALOG NUMBER: 4WSLA-175-L930-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.2	143.3	215.0	292.0	320.7
115°	166.6	141.5	213.2	293.8	322.5
117.5°	166.6	141.5	207.8	293.8	322.5
120°	163.0	143.3	200.7	290.2	320.7
122.5°	159.4	139.7	193.5	283.1	313.5
125°	154.1	136.2	184.5	270.5	304.6
127.5°	145.1	139.7	175.6	254.4	288.4
130°	138.0	141.5	164.8	238.3	272.3
132.5°	132.6	138.0	154.1	220.4	250.8
135°	125.4	136.2	148.7	200.7	231.1
137.5°	120.0	130.8	139.7	182.7	207.8
140°	114.7	127.2	130.8	159.4	180.9
142.5°	107.5	121.8	123.6	148.7	157.7
145°	102.1	118.2	129.0	138.0	146.9
147.5°	96.7	111.1	125.4	127.2	136.2
150°	95.0	103.9	120.0	121.8	125.4
152.5°	93.2	100.3	111.1	121.8	123.6
155°	93.2	98.5	105.7	114.7	116.5
157.5°	91.4	98.5	102.1	109.3	111.1
160°	91.4	96.7	100.3	105.7	107.5
162.5°	91.4	96.7	98.5	103.9	105.7
165°	91.4	95.0	98.5	102.1	102.1
167.5°	91.4	95.0	96.7	100.3	100.3
170°	91.4	93.2	96.7	98.5	98.5
172.5°	89.6	93.2	95.0	98.5	98.5
175°	89.6	91.4	93.2	95.0	96.7
177.5°	86.0	91.4	93.2	95.0	93.2
180°	87.8	87.8	87.8	87.8	87.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	146.9	141.5	207.8	283.1	306.4
110°	155.9	143.3	213.2	288.4	317.1



(END OF REPORT)