

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: P520545

Luminaire Tested: **4WSLA-175-L930-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520545
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-175-L930-UPL8-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

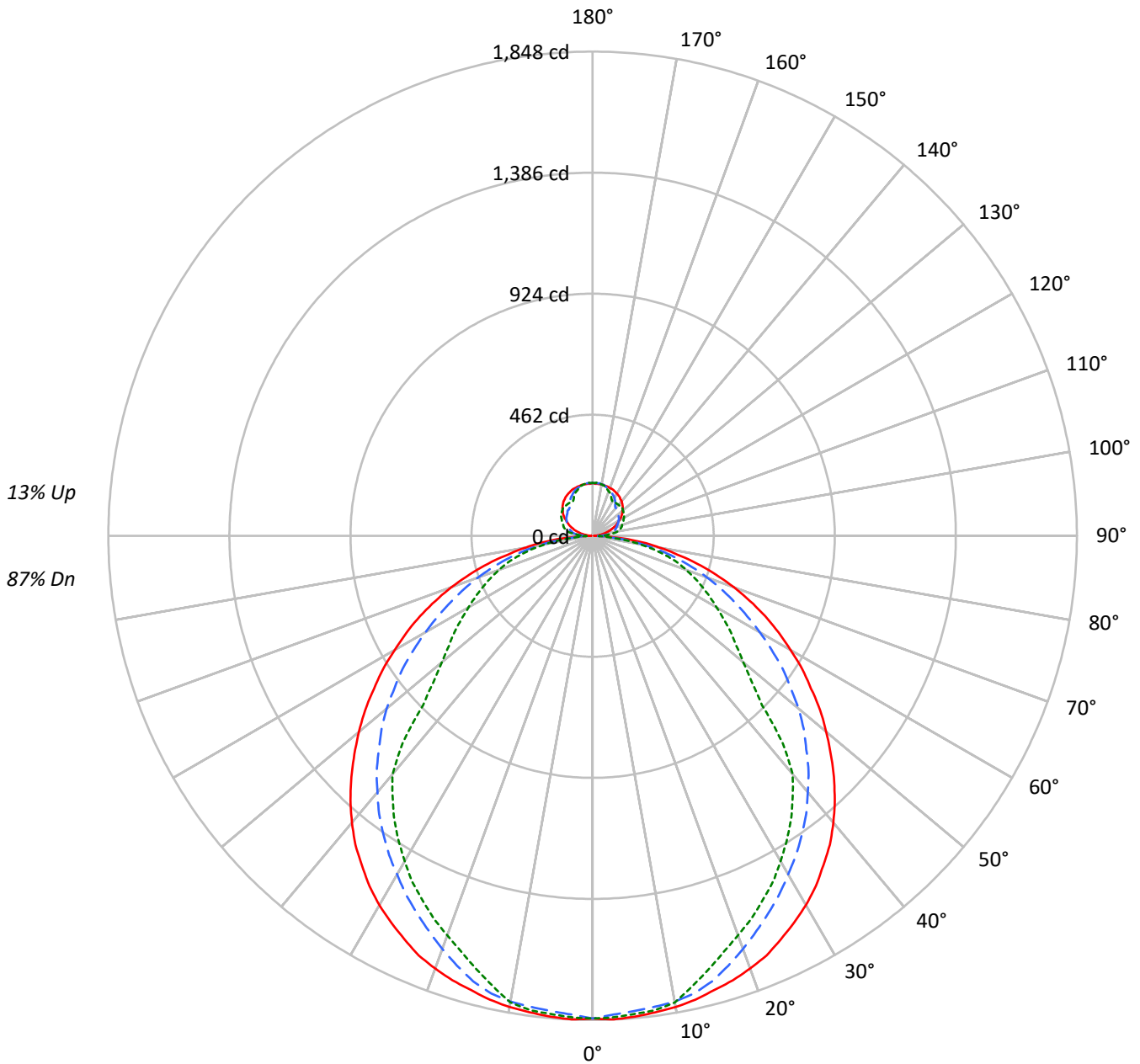
Lumens per Lamp: N/A
Luminaire Lumens: 5734.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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

TEST NUMBER: P520545

CATALOG NUMBER: 4WSLA-175-L930-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520545

CATALOG NUMBER: 4WSLA-175-L930-UPL8-UNV-U

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°	9916	9916	9916
5°	9954	9840	9897
10°	9982	9866	9881
15°	10000	9808	9542
20°	10066	9611	9292
25°	10091	9430	9115
30°	10115	9275	8913
35°	10085	9144	8674
40°	10039	8977	8344
45°	9908	8777	6961
50°	9744	8591	6281
55°	9552	8308	6045
60°	9388	7933	5878
65°	9251	7596	5875
70°	9010	7300	5965
75°	8601	6945	6010
80°	8052	6245	5588
85°	7367	4421	3767



TEST NUMBER: P520545

CATALOG NUMBER: 4WSLA-175-L930-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	3.0
10°-20°	495.9	8.6
20°-30°	741.0	12.9
30°-40°	884.5	15.4
40°-50°	884.6	15.4
50°-60°	765.6	13.4
60°-70°	587.6	10.2
70°-80°	360.1	6.3
80°-90°	101.4	1.8
90°-100°	57.3	1.0
100°-110°	90.9	1.6
110°-120°	106.3	1.9
120°-130°	114.8	2.0
130°-140°	113.1	2.0
140°-150°	100.1	1.7
150°-160°	82.3	1.4
160°-170°	55.1	1.0
170°-180°	19.2	0.3
0°-30°	1411.3	24.6
0°-40°	2295.8	40.0
0°-60°	3945.9	68.8
0°-90°	4994.9	87.1
90°-120°	254.5	4.4
90°-150°	582.4	10.2
90°-180°	739.0	12.9
0°-180°	5734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1842	1837	1821	1834	1832	175
15°	1795	1792	1760	1728	1713	508
25°	1699	1678	1588	1546	1535	784
35°	1535	1495	1392	1341	1320	961
45°	1302	1264	1153	1050	915	1004
55°	1018	994	885	708	644	913
65°	726	700	596	480	461	717
75°	414	392	334	289	289	436
85°	119	98	72	61	61	125
90°	5	19	29	37	40	8
95°	21	45	61	64	64	21
105°	61	64	90	106	111	64
115°	101	85	106	122	130	98
125°	135	109	122	140	146	120
135°	162	146	135	148	156	125
145°	180	172	151	148	154	112
155°	191	188	178	170	167	88
165°	196	199	194	194	194	56
175°	199	202	202	204	204	19
180°	202	202	202	202	202	



TEST NUMBER: P520545

CATALOG NUMBER: 4WSLA-175-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.5	1842.5	1842.5	1842.5	1842.5
2.5°	1847.8	1842.5	1829.2	1842.5	1839.8
5°	1842.5	1837.2	1821.3	1834.5	1831.9
7.5°	1834.5	1829.2	1813.3	1829.2	1826.6
10°	1826.6	1821.3	1805.4	1816.0	1808.0
12.5°	1813.3	1808.0	1789.4	1776.2	1760.3
15°	1794.8	1792.1	1760.3	1728.5	1712.6
17.5°	1778.8	1770.9	1720.5	1683.4	1664.8
20°	1757.6	1744.4	1678.1	1635.7	1622.4
22.5°	1733.8	1712.6	1633.0	1593.3	1582.7
25°	1699.3	1678.1	1588.0	1545.6	1534.9
27.5°	1664.8	1638.3	1542.9	1500.5	1489.9
30°	1627.7	1590.6	1492.5	1452.8	1434.2
32.5°	1585.3	1548.2	1444.8	1399.7	1378.5
35°	1534.9	1495.2	1391.8	1341.4	1320.2
37.5°	1487.2	1444.8	1338.8	1283.1	1253.9
40°	1428.9	1386.5	1277.8	1216.8	1187.7
42.5°	1367.9	1328.2	1219.5	1145.2	1073.7
45°	1301.7	1264.5	1153.2	1049.8	914.6
47.5°	1232.7	1200.9	1092.2	951.7	821.8
50°	1163.8	1132.0	1026.0	858.9	750.2
52.5°	1094.9	1068.4	951.7	782.1	691.9
55°	1018.0	994.1	885.4	707.8	644.2
57.5°	949.1	925.2	808.6	646.9	593.8
60°	872.2	851.0	737.0	585.9	546.1
62.5°	800.6	776.8	665.4	532.9	503.7
65°	726.4	699.9	596.5	479.8	461.3
67.5°	649.5	623.0	530.2	432.1	421.5
70°	572.6	551.4	463.9	384.4	379.1
72.5°	493.1	469.2	397.7	339.3	339.3
75°	413.6	392.4	334.0	289.0	289.0
77.5°	331.4	320.8	267.8	235.9	238.6
80°	259.8	246.5	201.5	180.3	180.3
82.5°	190.9	175.0	135.2	119.3	124.6
85°	119.3	98.1	71.6	61.0	61.0
87.5°	37.1	29.2	21.2	23.9	23.9
90°	5.3	18.6	29.2	37.1	39.8
92.5°	13.3	34.5	42.4	50.4	53.0
95°	21.2	45.1	61.0	63.6	63.6
97.5°	29.2	50.4	74.2	84.8	84.8
100°	39.8	53.0	79.5	95.4	98.1
102.5°	50.4	58.3	84.8	100.7	106.0
105°	61.0	63.6	90.1	106.0	111.3



TEST NUMBER: P520545

CATALOG NUMBER: 4WSLA-175-L930-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	90.1	79.5	100.7	119.3	124.6
115°	100.7	84.8	106.0	121.9	129.9
117.5°	108.7	92.8	111.3	127.2	132.6
120°	116.6	98.1	114.0	132.6	137.9
122.5°	127.2	103.4	119.3	135.2	143.2
125°	135.2	108.7	121.9	140.5	145.8
127.5°	143.2	119.3	124.6	143.2	148.5
130°	148.5	129.9	127.2	145.8	151.1
132.5°	156.4	137.9	129.9	148.5	153.8
135°	161.7	145.8	135.2	148.5	156.4
137.5°	167.0	153.8	135.2	148.5	153.8
140°	172.3	161.7	137.9	148.5	153.8
142.5°	175.0	167.0	140.5	148.5	153.8
145°	180.3	172.3	151.1	148.5	153.8
147.5°	182.9	177.6	159.1	148.5	153.8
150°	185.6	182.9	167.0	151.1	151.1
152.5°	188.2	185.6	172.3	161.7	156.4
155°	190.9	188.2	177.6	169.7	167.0
157.5°	193.5	193.5	182.9	177.6	175.0
160°	193.5	196.2	188.2	182.9	180.3
162.5°	196.2	198.8	190.9	188.2	185.6
165°	196.2	198.8	193.5	193.5	193.5
167.5°	198.8	201.5	198.8	196.2	196.2
170°	198.8	201.5	198.8	198.8	198.8
172.5°	198.8	201.5	201.5	201.5	201.5
175°	198.8	201.5	201.5	204.1	204.1
177.5°	198.8	201.5	201.5	201.5	201.5
180°	201.5	201.5	201.5	201.5	201.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	71.6	68.9	92.8	111.3	116.6
110°	79.5	74.2	98.1	114.0	119.3



(END OF REPORT)