

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: P520491

Luminaire Tested: **4WSLA-125-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520491
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-125-L840-UPL8-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

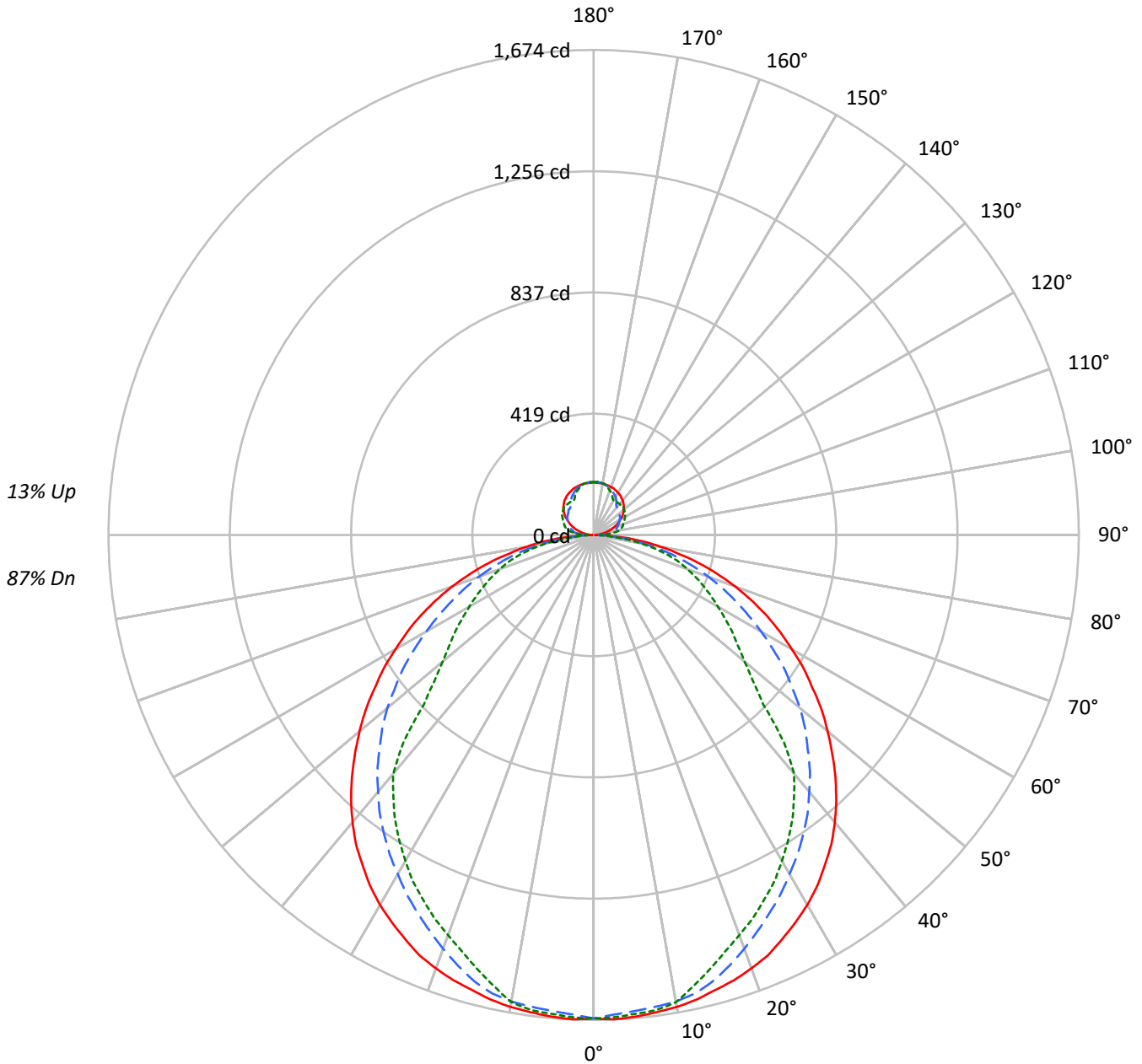
Lumens per Lamp: N/A
Luminaire Lumens: 5194.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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: P520491

CATALOG NUMBER: 4WSLA-125-L840-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520491

CATALOG NUMBER: 4WSLA-125-L840-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°	8982	8982	8982
5°	9017	8913	8964
10°	9042	8937	8950
15°	9058	8884	8644
20°	9119	8706	8417
25°	9141	8542	8257
30°	9163	8402	8073
35°	9135	8283	7857
40°	9093	8132	7558
45°	8974	7951	6306
50°	8827	7781	5690
55°	8652	7526	5475
60°	8505	7186	5325
65°	8379	6881	5321
70°	8162	6612	5404
75°	7790	6292	5442
80°	7293	5656	5061
85°	6675	4001	3409



TEST NUMBER: P520491

CATALOG NUMBER: 4WSLA-125-L840-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	3.0
10°-20°	449.2	8.6
20°-30°	671.2	12.9
30°-40°	801.2	15.4
40°-50°	801.3	15.4
50°-60°	693.5	13.4
60°-70°	532.3	10.2
70°-80°	326.1	6.3
80°-90°	91.8	1.8
90°-100°	51.9	1.0
100°-110°	82.4	1.6
110°-120°	96.3	1.9
120°-130°	104.0	2.0
130°-140°	102.5	2.0
140°-150°	90.6	1.7
150°-160°	74.6	1.4
160°-170°	49.9	1.0
170°-180°	17.4	0.3
0°-30°	1278.4	24.6
0°-40°	2079.6	40.0
0°-60°	3574.3	68.8
0°-90°	4524.5	87.1
90°-120°	230.5	4.4
90°-150°	527.6	10.2
90°-180°	670.0	12.9
0°-180°	5194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1669	1664	1650	1662	1659	159
15°	1626	1623	1594	1566	1551	460
25°	1539	1520	1438	1400	1390	710
35°	1390	1354	1261	1215	1196	871
45°	1179	1146	1045	951	828	909
55°	922	900	802	641	584	827
65°	658	634	540	435	418	650
75°	375	355	303	262	262	395
85°	108	89	65	55	55	113
90°	5	17	26	34	36	8
95°	19	41	55	58	58	19
105°	55	58	82	96	101	58
115°	91	77	96	110	118	89
125°	122	98	110	127	132	109
135°	146	132	122	134	142	113
145°	163	156	137	134	139	102
155°	173	170	161	154	151	80
165°	178	180	175	175	175	50
175°	180	182	182	185	185	17
180°	182	182	182	182	182	



TEST NUMBER: P520491

CATALOG NUMBER: 4WSLA-125-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.0	1669.0	1669.0	1669.0	1669.0
2.5°	1673.8	1669.0	1656.9	1669.0	1666.6
5°	1669.0	1664.2	1649.7	1661.8	1659.3
7.5°	1661.8	1656.9	1642.5	1656.9	1654.5
10°	1654.5	1649.7	1635.3	1644.9	1637.7
12.5°	1642.5	1637.7	1620.9	1608.9	1594.5
15°	1625.7	1623.3	1594.5	1565.7	1551.3
17.5°	1611.3	1604.1	1558.5	1524.9	1508.1
20°	1592.1	1580.1	1520.1	1481.6	1469.6
22.5°	1570.5	1551.3	1479.2	1443.2	1433.6
25°	1539.3	1520.1	1438.4	1400.0	1390.4
27.5°	1508.1	1484.0	1397.6	1359.2	1349.6
30°	1474.4	1440.8	1352.0	1316.0	1299.1
32.5°	1436.0	1402.4	1308.7	1267.9	1248.7
35°	1390.4	1354.4	1260.7	1215.1	1195.9
37.5°	1347.2	1308.7	1212.7	1162.3	1135.8
40°	1294.3	1255.9	1157.5	1102.2	1075.8
42.5°	1239.1	1203.1	1104.6	1037.4	972.6
45°	1179.1	1145.5	1044.6	950.9	828.5
47.5°	1116.6	1087.8	989.4	862.1	744.4
50°	1054.2	1025.4	929.3	778.0	679.6
52.5°	991.8	967.8	862.1	708.4	626.8
55°	922.1	900.5	802.1	641.2	583.5
57.5°	859.7	838.1	732.4	585.9	537.9
60°	790.1	770.8	667.6	530.7	494.7
62.5°	725.2	703.6	602.7	482.7	456.3
65°	658.0	634.0	540.3	434.6	417.8
67.5°	588.3	564.3	480.3	391.4	381.8
70°	518.7	499.5	420.2	348.2	343.4
72.5°	446.7	425.0	360.2	307.4	307.4
75°	374.6	355.4	302.6	261.7	261.7
77.5°	300.2	290.6	242.5	213.7	216.1
80°	235.3	223.3	182.5	163.3	163.3
82.5°	172.9	158.5	122.5	108.1	112.9
85°	108.1	88.9	64.8	55.2	55.2
87.5°	33.6	26.4	19.2	21.6	21.6
90°	4.8	16.8	26.4	33.6	36.0
92.5°	12.0	31.2	38.4	45.6	48.0
95°	19.2	40.8	55.2	57.6	57.6
97.5°	26.4	45.6	67.2	76.8	76.8
100°	36.0	48.0	72.0	86.4	88.9
102.5°	45.6	52.8	76.8	91.3	96.1
105°	55.2	57.6	81.6	96.1	100.9



TEST NUMBER: P520491

CATALOG NUMBER: 4WSLA-125-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	81.6	72.0	91.3	108.1	112.9
115°	91.3	76.8	96.1	110.5	117.7
117.5°	98.5	84.0	100.9	115.3	120.1
120°	105.7	88.9	103.3	120.1	124.9
122.5°	115.3	93.7	108.1	122.5	129.7
125°	122.5	98.5	110.5	127.3	132.1
127.5°	129.7	108.1	112.9	129.7	134.5
130°	134.5	117.7	115.3	132.1	136.9
132.5°	141.7	124.9	117.7	134.5	139.3
135°	146.5	132.1	122.5	134.5	141.7
137.5°	151.3	139.3	122.5	134.5	139.3
140°	156.1	146.5	124.9	134.5	139.3
142.5°	158.5	151.3	127.3	134.5	139.3
145°	163.3	156.1	136.9	134.5	139.3
147.5°	165.7	160.9	144.1	134.5	139.3
150°	168.1	165.7	151.3	136.9	136.9
152.5°	170.5	168.1	156.1	146.5	141.7
155°	172.9	170.5	160.9	153.7	151.3
157.5°	175.3	175.3	165.7	160.9	158.5
160°	175.3	177.7	170.5	165.7	163.3
162.5°	177.7	180.1	172.9	170.5	168.1
165°	177.7	180.1	175.3	175.3	175.3
167.5°	180.1	182.5	180.1	177.7	177.7
170°	180.1	182.5	180.1	180.1	180.1
172.5°	180.1	182.5	182.5	182.5	182.5
175°	180.1	182.5	182.5	184.9	184.9
177.5°	180.1	182.5	182.5	182.5	182.5
180°	182.5	182.5	182.5	182.5	182.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	64.8	62.4	84.0	100.9	105.7
110°	72.0	67.2	88.9	103.3	108.1



(END OF REPORT)