

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: P520494

Luminaire Tested: **4WSLA-125-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520494
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-L850-UPL8-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

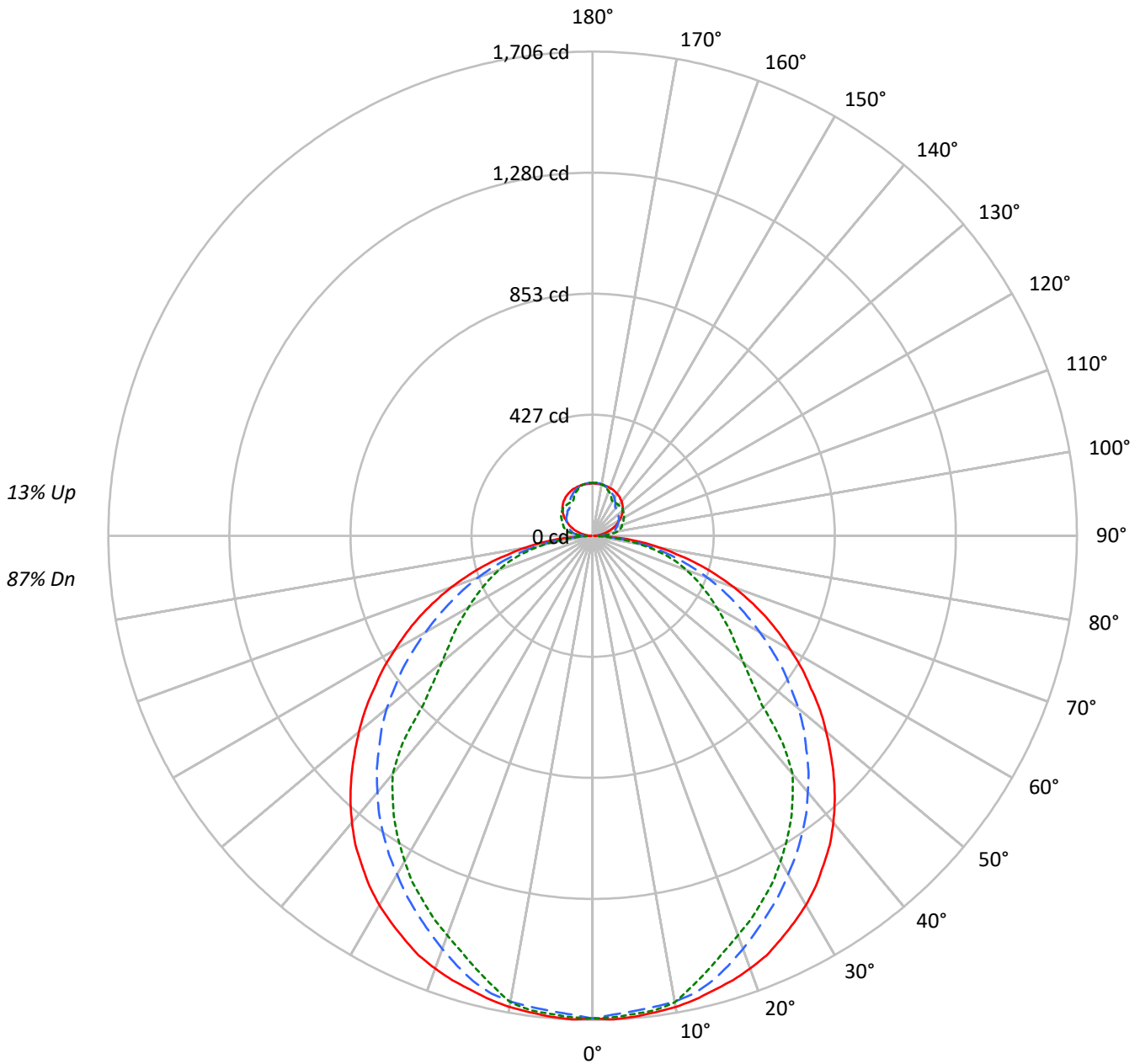
Lumens per Lamp: N/A
Luminaire Lumens: 5293.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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

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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°	9154	9154	9154
5°	9189	9083	9136
10°	9215	9107	9121
15°	9231	9054	8808
20°	9293	8872	8578
25°	9315	8704	8414
30°	9337	8562	8227
35°	9309	8441	8007
40°	9267	8287	7702
45°	9145	8102	6426
50°	8995	7929	5798
55°	8817	7669	5580
60°	8666	7323	5426
65°	8539	7012	5422
70°	8318	6740	5506
75°	7939	6411	5546
80°	7432	5765	5157
85°	6799	4082	3477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	3.0
10°-20°	457.8	8.6
20°-30°	684.0	12.9
30°-40°	816.5	15.4
40°-50°	816.5	15.4
50°-60°	706.7	13.4
60°-70°	542.4	10.2
70°-80°	332.4	6.3
80°-90°	93.6	1.8
90°-100°	52.9	1.0
100°-110°	83.9	1.6
110°-120°	98.1	1.9
120°-130°	105.9	2.0
130°-140°	104.4	2.0
140°-150°	92.4	1.7
150°-160°	76.0	1.4
160°-170°	50.9	1.0
170°-180°	17.7	0.3
0°-30°	1302.7	24.6
0°-40°	2119.2	40.0
0°-60°	3642.4	68.8
0°-90°	4610.7	87.1
90°-120°	234.9	4.4
90°-150°	537.6	10.2
90°-180°	682.0	12.9
0°-180°	5293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1701	1696	1681	1693	1691	162
15°	1657	1654	1625	1596	1581	469
25°	1569	1549	1466	1427	1417	724
35°	1417	1380	1285	1238	1219	887
45°	1202	1167	1064	969	844	926
55°	940	918	817	653	595	842
65°	670	646	551	443	426	662
75°	382	362	308	267	267	403
85°	110	90	66	56	56	115
90°	5	17	27	34	37	8
95°	20	42	56	59	59	19
105°	56	59	83	98	103	59
115°	93	78	98	113	120	91
125°	125	100	113	130	135	111
135°	149	135	125	137	144	115
145°	166	159	140	137	142	104
155°	176	174	164	157	154	81
165°	181	184	179	179	179	51
175°	184	186	186	188	188	18
180°	186	186	186	186	186	



TEST NUMBER: P520494

CATALOG NUMBER: 4WSLA-125-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1705.7	1700.8	1688.5	1700.8	1698.3
5°	1700.8	1695.9	1681.2	1693.4	1691.0
7.5°	1693.4	1688.5	1673.8	1688.5	1686.1
10°	1686.1	1681.2	1666.5	1676.3	1669.0
12.5°	1673.8	1669.0	1651.8	1639.6	1624.9
15°	1656.7	1654.3	1624.9	1595.5	1580.9
17.5°	1642.0	1634.7	1588.2	1553.9	1536.8
20°	1622.5	1610.2	1549.0	1509.9	1497.7
22.5°	1600.4	1580.9	1507.4	1470.7	1460.9
25°	1568.6	1549.0	1465.8	1426.7	1416.9
27.5°	1536.8	1512.3	1424.2	1385.1	1375.3
30°	1502.5	1468.3	1377.7	1341.0	1323.9
32.5°	1463.4	1429.1	1333.7	1292.1	1272.5
35°	1416.9	1380.2	1284.8	1238.3	1218.7
37.5°	1372.8	1333.7	1235.8	1184.4	1157.5
40°	1319.0	1279.9	1179.5	1123.2	1096.3
42.5°	1262.7	1226.0	1125.7	1057.2	991.1
45°	1201.5	1167.3	1064.5	969.1	844.3
47.5°	1137.9	1108.6	1008.2	878.5	758.6
50°	1074.3	1044.9	947.0	792.9	692.5
52.5°	1010.7	986.2	878.5	721.9	638.7
55°	939.7	917.7	817.3	653.4	594.7
57.5°	876.1	854.1	746.4	597.1	548.2
60°	805.1	785.5	680.3	540.8	504.1
62.5°	739.0	717.0	614.2	491.9	465.0
65°	670.5	646.0	550.6	442.9	425.8
67.5°	599.6	575.1	489.4	398.9	389.1
70°	528.6	509.0	428.3	354.8	349.9
72.5°	455.2	433.1	367.1	313.2	313.2
75°	381.8	362.2	308.3	266.7	266.7
77.5°	305.9	296.1	247.2	217.8	220.2
80°	239.8	227.6	186.0	166.4	166.4
82.5°	176.2	161.5	124.8	110.1	115.0
85°	110.1	90.5	66.1	56.3	56.3
87.5°	34.3	26.9	19.6	22.0	22.0
90°	4.9	17.1	26.9	34.3	36.7
92.5°	12.2	31.8	39.2	46.5	48.9
95°	19.6	41.6	56.3	58.7	58.7
97.5°	26.9	46.5	68.5	78.3	78.3
100°	36.7	48.9	73.4	88.1	90.5
102.5°	46.5	53.8	78.3	93.0	97.9
105°	56.3	58.7	83.2	97.9	102.8



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CATALOG NUMBER: 4WSLA-125-L850-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	83.2	73.4	93.0	110.1	115.0
115°	93.0	78.3	97.9	112.6	119.9
117.5°	100.3	85.7	102.8	117.5	122.4
120°	107.7	90.5	105.2	122.4	127.3
122.5°	117.5	95.4	110.1	124.8	132.1
125°	124.8	100.3	112.6	129.7	134.6
127.5°	132.1	110.1	115.0	132.1	137.0
130°	137.0	119.9	117.5	134.6	139.5
132.5°	144.4	127.3	119.9	137.0	141.9
135°	149.3	134.6	124.8	137.0	144.4
137.5°	154.2	141.9	124.8	137.0	141.9
140°	159.1	149.3	127.3	137.0	141.9
142.5°	161.5	154.2	129.7	137.0	141.9
145°	166.4	159.1	139.5	137.0	141.9
147.5°	168.9	164.0	146.8	137.0	141.9
150°	171.3	168.9	154.2	139.5	139.5
152.5°	173.7	171.3	159.1	149.3	144.4
155°	176.2	173.7	164.0	156.6	154.2
157.5°	178.6	178.6	168.9	164.0	161.5
160°	178.6	181.1	173.7	168.9	166.4
162.5°	181.1	183.5	176.2	173.7	171.3
165°	181.1	183.5	178.6	178.6	178.6
167.5°	183.5	186.0	183.5	181.1	181.1
170°	183.5	186.0	183.5	183.5	183.5
172.5°	183.5	186.0	186.0	186.0	186.0
175°	183.5	186.0	186.0	188.4	188.4
177.5°	183.5	186.0	186.0	186.0	186.0
180°	186.0	186.0	186.0	186.0	186.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	66.1	63.6	85.7	102.8	107.7
110°	73.4	68.5	90.5	105.2	110.1



(END OF REPORT)