

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: METALUX

Report Number: P218079

Luminaire Tested: **4SNLED-LD5-41SL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35685)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-41SL-LC-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011.0 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.59 / 1.17 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

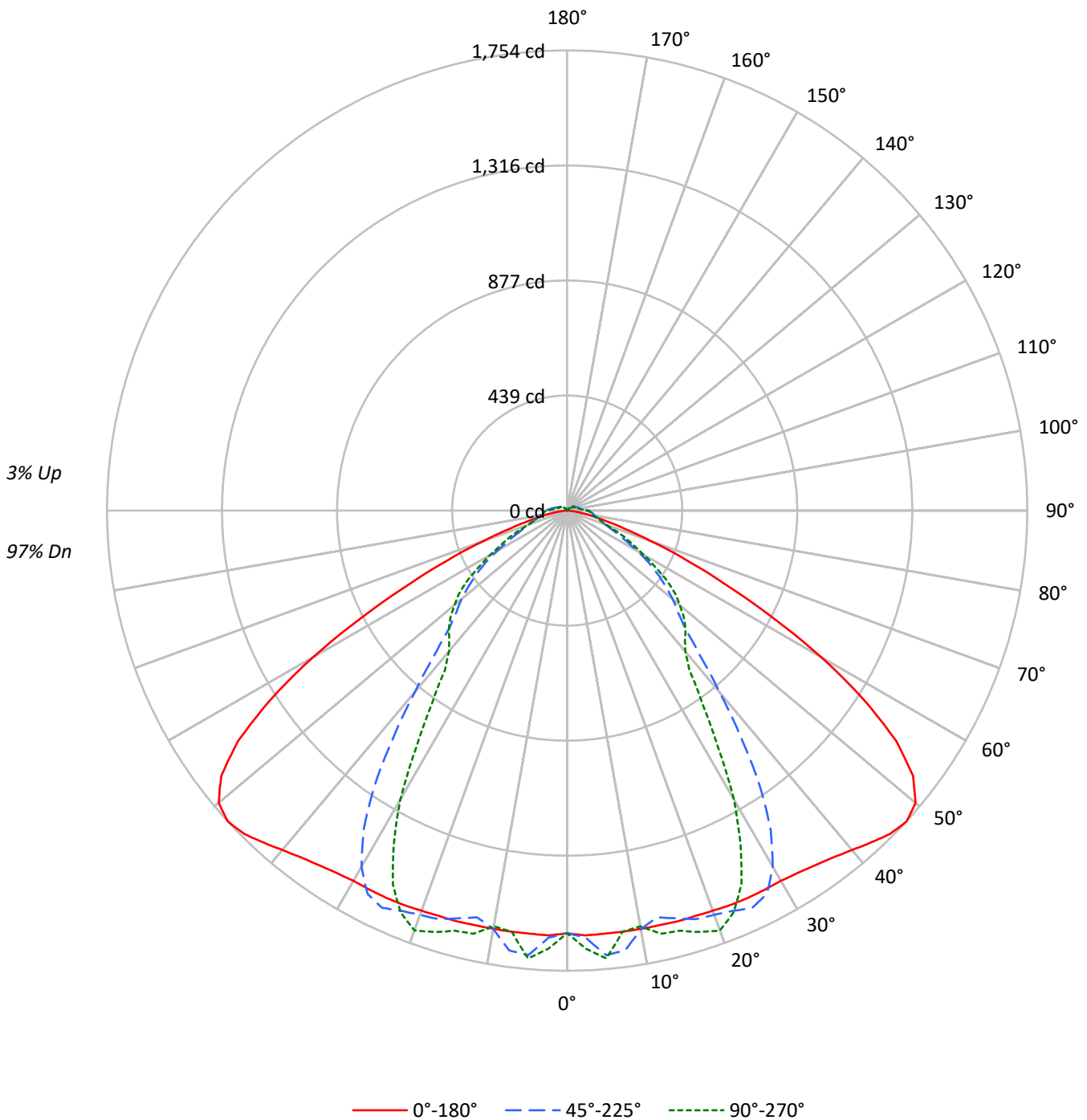
Input Watts (W): 30.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97	
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	89	87	85	89	87	85	83	
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	80	77	74	72	
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	72	68	64	62	
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	60	56	65	60	56	54	
5	79	67	59	53	77	66	58	53	64	57	52	61	55	51	59	54	50	59	54	50	48	
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	54	49	45	54	49	45	43	
7	68	56	48	42	66	55	47	42	53	46	41	51	45	41	50	44	40	50	44	40	38	
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	46	40	36	46	40	36	34	
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	43	37	33	31	
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	40	34	30	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25953	25953	25953
5°	26089	25847	25482
10°	26294	23442	22375
15°	26741	22411	21811
20°	27414	22168	21410
25°	28411	22102	19057
30°	29598	20464	15006
35°	31528	16615	10398
40°	34317	11736	8003
45°	38106	8346	7271
50°	41401	7012	6406
55°	40580	5758	5341
60°	33669	4359	3993
65°	23265	3154	2936
70°	14480	2398	2012
75°	8177	2044	1593
80°	4622	1912	1370
85°	2053	1853	1373



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	3.9
10°-20°	466.3	11.6
20°-30°	740.9	18.5
30°-40°	798.9	19.9
40°-50°	688.6	17.2
50°-60°	521.3	13.0
60°-70°	281.6	7.0
70°-80°	133.7	3.3
80°-90°	84.0	2.1
90°-100°	53.4	1.3
100°-110°	34.2	0.9
110°-120°	22.9	0.6
120°-130°	15.1	0.4
130°-140°	7.4	0.2
140°-150°	3.2	0.1
150°-160°	1.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1365.5	34.0
0°-40°	2164.4	54.0
0°-60°	3374.3	84.1
0°-90°	3873.6	96.6
90°-120°	110.5	2.8
90°-150°	136.2	3.4
90°-180°	137.0	3.4
0°-180°	4011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1619	1654	1701	1724	1713	155
15°	1621	1664	1609	1664	1658	459
25°	1629	1598	1670	1625	1572	754
35°	1650	1588	1280	979	899	1039
45°	1742	1092	636	630	638	1341
55°	1531	472	421	460	462	1331
65°	665	201	213	240	242	683
75°	152	105	123	123	121	179
85°	16	64	94	94	92	24
90°	0	49	82	80	74	1
95°	0	39	66	60	55	0
105°	0	25	45	41	37	0
115°	0	14	31	31	31	0
125°	0	8	20	27	25	0
135°	0	4	12	14	14	0
145°	0	2	6	8	6	0
155°	0	2	2	4	2	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1610.6	1610.6	1610.6	1610.6	1610.6
2.5°	1620.9	1623.0	1629.1	1659.9	1672.2
5°	1618.8	1653.7	1700.9	1723.5	1713.2
7.5°	1618.8	1690.7	1690.7	1647.6	1618.8
10°	1618.8	1711.2	1618.8	1610.6	1608.6
12.5°	1618.8	1698.9	1588.1	1645.5	1651.7
15°	1620.9	1664.0	1608.6	1664.0	1657.8
17.5°	1620.9	1623.0	1633.2	1676.3	1684.5
20°	1623.0	1596.3	1639.4	1709.1	1703.0
22.5°	1627.1	1592.2	1651.7	1694.8	1657.8
25°	1629.1	1598.3	1670.1	1625.0	1571.7
27.5°	1629.1	1606.5	1647.6	1518.3	1430.1
30°	1629.1	1610.6	1567.6	1370.6	1272.1
32.5°	1637.3	1606.5	1444.4	1177.7	1071.0
35°	1649.6	1588.1	1280.3	978.7	898.7
37.5°	1666.0	1538.8	1087.4	818.7	765.3
40°	1688.6	1432.1	902.8	716.1	699.7
42.5°	1715.3	1276.2	750.9	664.8	664.8
45°	1742.0	1091.5	636.0	629.9	638.1
47.5°	1754.3	911.0	572.4	595.0	603.2
50°	1733.7	742.7	525.3	556.0	560.1
52.5°	1661.9	593.0	471.9	508.8	519.1
55°	1530.6	471.9	420.6	459.6	461.6
57.5°	1339.8	375.5	367.3	398.0	396.0
60°	1120.3	303.7	307.8	338.5	338.5
62.5°	884.3	246.2	258.5	285.2	283.1
65°	664.8	201.1	213.4	240.1	242.1
67.5°	490.4	166.2	180.6	199.0	194.9
70°	342.6	139.5	153.9	164.1	160.0
72.5°	227.7	119.0	135.4	139.5	137.5
75°	151.8	104.6	123.1	123.1	121.1
77.5°	98.5	92.3	114.9	112.8	108.7
80°	61.6	82.1	106.7	102.6	98.5
82.5°	36.9	71.8	100.5	96.4	92.3
85°	16.4	63.6	94.4	94.4	92.3
87.5°	6.2	57.4	88.2	90.3	86.2
90°	0.0	49.2	82.1	80.0	73.9
92.5°	0.0	45.1	73.9	67.7	63.6
95°	0.0	39.0	65.7	59.5	55.4
97.5°	0.0	34.9	59.5	53.3	49.2
100°	0.0	30.8	53.3	47.2	43.1
102.5°	0.0	26.7	49.2	43.1	41.0
105°	0.0	24.6	45.1	41.0	36.9
107.5°	0.0	22.6	41.0	36.9	34.9
110°	0.0	18.5	36.9	34.9	32.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.4	32.8	32.8	32.8
115°	0.0	14.4	30.8	30.8	30.8
117.5°	0.0	12.3	26.7	30.8	30.8
120°	0.0	12.3	24.6	28.7	28.7
122.5°	0.0	10.3	22.6	28.7	28.7
125°	0.0	8.2	20.5	26.7	24.6
127.5°	0.0	6.2	18.5	22.6	22.6
130°	0.0	6.2	16.4	20.5	18.5
132.5°	0.0	4.1	14.4	16.4	16.4
135°	0.0	4.1	12.3	14.4	14.4
137.5°	0.0	4.1	10.3	12.3	10.3
140°	0.0	2.1	8.2	10.3	8.2
142.5°	0.0	2.1	8.2	10.3	8.2
145°	0.0	2.1	6.2	8.2	6.2
147.5°	0.0	2.1	4.1	6.2	6.2
150°	0.0	2.1	4.1	6.2	4.1
152.5°	0.0	2.1	4.1	4.1	2.1
155°	0.0	2.1	2.1	4.1	2.1
157.5°	0.0	2.1	2.1	2.1	2.1
160°	2.1	2.1	2.1	2.1	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)