

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: P218075

Luminaire Tested: **4SNLED-LD5-37SL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218075
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-LD5-37SL-LC-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3684.0 lumens
Efficiency: N/A
Efficacy: 133.0 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

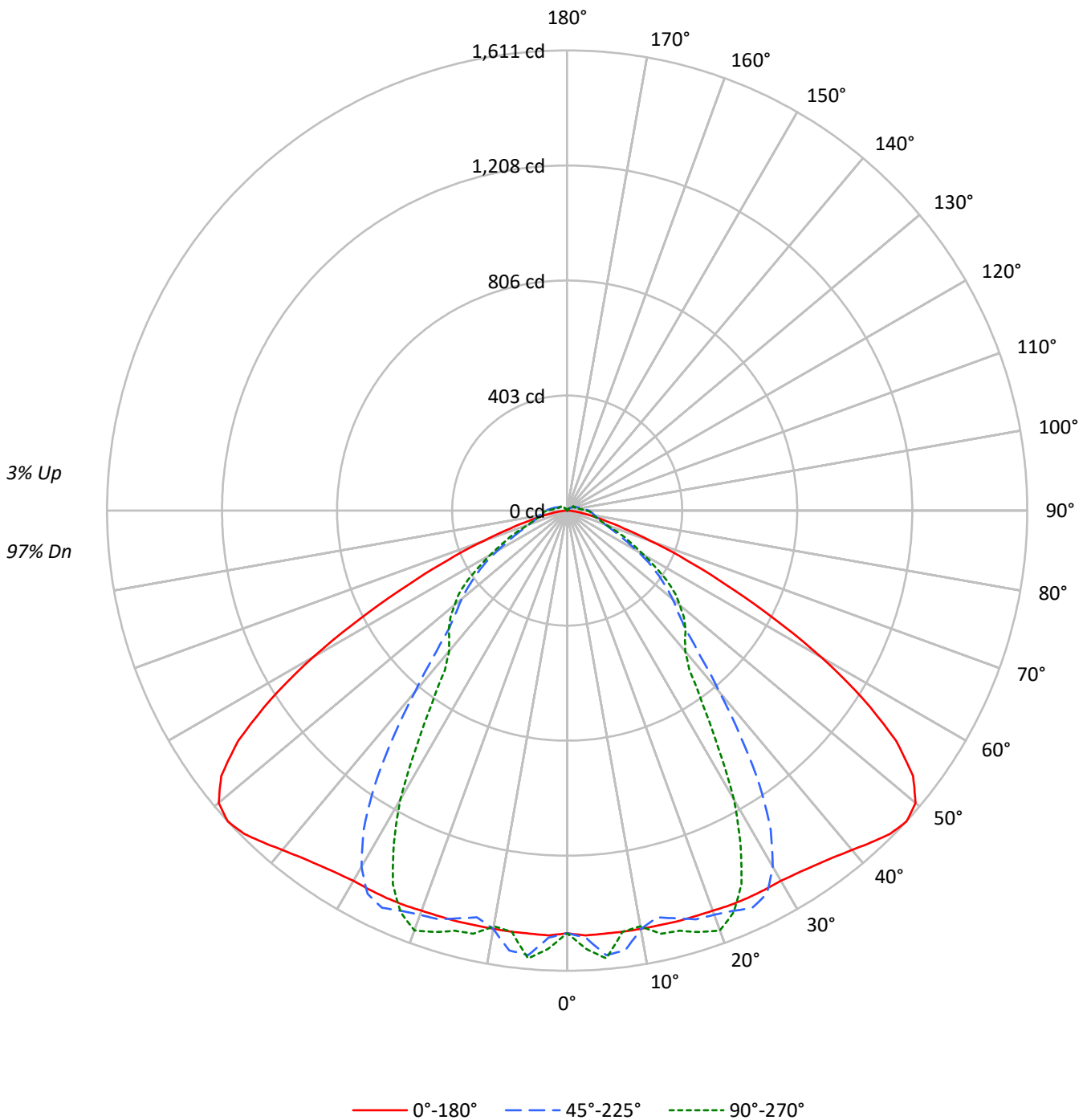
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P218075

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P218075

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L830-CD1-U

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	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	109	105	101	98	106	102	99	96	97	95	92	93	91	89	89	87	85	83
2	100	93	87	82	98	91	85	81	87	82	78	83	79	76	80	77	74	72
3	93	83	76	70	90	81	75	69	78	72	67	75	70	66	72	68	64	62
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	65	60	56	54
5	79	67	59	53	77	66	58	53	64	57	52	61	55	51	59	54	50	48
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	54	49	45	43
7	68	56	48	42	66	55	47	42	53	46	41	51	45	41	50	44	40	38
8	64	51	43	38	62	50	43	37	49	42	37	47	41	37	46	40	36	34
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23837	23837	23837
5°	23963	23739	23406
10°	24151	21532	20550
15°	24562	20583	20034
20°	25178	20361	19664
25°	26095	20301	17503
30°	27186	18796	13782
35°	28957	15260	9550
40°	31519	10779	7350
45°	34998	7666	6678
50°	38027	6440	5885
55°	37271	5289	4906
60°	30923	4003	3667
65°	21368	2897	2697
70°	13301	2202	1848
75°	7514	1878	1463
80°	4239	1756	1259
85°	1890	1702	1261



TEST NUMBER: P218075

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.9
10°-20°	428.3	11.6
20°-30°	680.5	18.5
30°-40°	733.8	19.9
40°-50°	632.4	17.2
50°-60°	478.8	13.0
60°-70°	258.6	7.0
70°-80°	122.8	3.3
80°-90°	77.1	2.1
90°-100°	49.1	1.3
100°-110°	31.4	0.9
110°-120°	21.0	0.6
120°-130°	13.9	0.4
130°-140°	6.8	0.2
140°-150°	2.9	0.1
150°-160°	1.1	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1254.2	34.0
0°-40°	1988.0	54.0
0°-60°	3099.2	84.1
0°-90°	3557.8	96.6
90°-120°	101.5	2.8
90°-150°	125.1	3.4
90°-180°	126.0	3.4
0°-180°	3684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1487	1519	1562	1583	1574	142
15°	1489	1528	1477	1528	1523	422
25°	1496	1468	1534	1492	1444	692
35°	1515	1459	1176	899	825	954
45°	1600	1003	584	578	586	1232
55°	1406	433	386	422	424	1223
65°	611	185	196	220	222	627
75°	140	96	113	113	111	164
85°	15	58	87	87	85	22
90°	0	45	75	74	68	1
95°	0	36	60	55	51	0
105°	0	23	42	38	34	0
115°	0	13	28	28	28	0
125°	0	8	19	24	23	0
135°	0	4	11	13	13	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



TEST NUMBER: P218075

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1479.3	1479.3	1479.3	1479.3	1479.3
2.5°	1488.8	1490.6	1496.3	1524.6	1535.9
5°	1486.9	1518.9	1562.2	1583.0	1573.6
7.5°	1486.9	1552.8	1552.8	1513.3	1486.9
10°	1486.9	1571.7	1486.9	1479.3	1477.4
12.5°	1486.9	1560.4	1458.6	1511.4	1517.0
15°	1488.8	1528.3	1477.4	1528.3	1522.7
17.5°	1488.8	1490.6	1500.1	1539.6	1547.2
20°	1490.6	1466.1	1505.7	1569.8	1564.1
22.5°	1494.4	1462.4	1517.0	1556.6	1522.7
25°	1496.3	1468.0	1534.0	1492.5	1443.5
27.5°	1496.3	1475.6	1513.3	1394.5	1313.5
30°	1496.3	1479.3	1439.8	1258.8	1168.4
32.5°	1503.8	1475.6	1326.7	1081.7	983.7
35°	1515.1	1458.6	1175.9	898.9	825.4
37.5°	1530.2	1413.4	998.8	751.9	702.9
40°	1550.9	1315.4	829.2	657.7	642.6
42.5°	1575.4	1172.2	689.7	610.6	610.6
45°	1599.9	1002.6	584.2	578.5	586.1
47.5°	1611.2	836.7	525.8	546.5	554.0
50°	1592.4	682.2	482.4	510.7	514.5
52.5°	1526.4	544.6	433.4	467.4	476.8
55°	1405.8	433.4	386.3	422.1	424.0
57.5°	1230.6	344.9	337.3	365.6	363.7
60°	1028.9	278.9	282.7	310.9	310.9
62.5°	812.2	226.1	237.4	261.9	260.1
65°	610.6	184.7	196.0	220.5	222.4
67.5°	450.4	152.6	165.8	182.8	179.0
70°	314.7	128.1	141.3	150.8	147.0
72.5°	209.2	109.3	124.4	128.1	126.3
75°	139.5	96.1	113.1	113.1	111.2
77.5°	90.5	84.8	105.5	103.6	99.9
80°	56.5	75.4	98.0	94.2	90.5
82.5°	33.9	66.0	92.3	88.6	84.8
85°	15.1	58.4	86.7	86.7	84.8
87.5°	5.7	52.8	81.0	82.9	79.1
90°	0.0	45.2	75.4	73.5	67.8
92.5°	0.0	41.5	67.8	62.2	58.4
95°	0.0	35.8	60.3	54.7	50.9
97.5°	0.0	32.0	54.7	49.0	45.2
100°	0.0	28.3	49.0	43.3	39.6
102.5°	0.0	24.5	45.2	39.6	37.7
105°	0.0	22.6	41.5	37.7	33.9
107.5°	0.0	20.7	37.7	33.9	32.0
110°	0.0	17.0	33.9	32.0	30.2



TEST NUMBER: P218075

CATALOG NUMBER: 4SNLED-LD5-37SL-LC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	15.1	30.2	30.2	30.2
115°	0.0	13.2	28.3	28.3	28.3
117.5°	0.0	11.3	24.5	28.3	28.3
120°	0.0	11.3	22.6	26.4	26.4
122.5°	0.0	9.4	20.7	26.4	26.4
125°	0.0	7.5	18.8	24.5	22.6
127.5°	0.0	5.7	17.0	20.7	20.7
130°	0.0	5.7	15.1	18.8	17.0
132.5°	0.0	3.8	13.2	15.1	15.1
135°	0.0	3.8	11.3	13.2	13.2
137.5°	0.0	3.8	9.4	11.3	9.4
140°	0.0	1.9	7.5	9.4	7.5
142.5°	0.0	1.9	7.5	9.4	7.5
145°	0.0	1.9	5.7	7.5	5.7
147.5°	0.0	1.9	3.8	5.7	5.7
150°	0.0	1.9	3.8	5.7	3.8
152.5°	0.0	1.9	3.8	3.8	1.9
155°	0.0	1.9	1.9	3.8	1.9
157.5°	0.0	1.9	1.9	1.9	1.9
160°	1.9	1.9	1.9	1.9	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)