

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: P218335

Luminaire Tested: **4SNLED-LD5-47SL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218335  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35687)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-47SL-LW-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4667.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.3 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

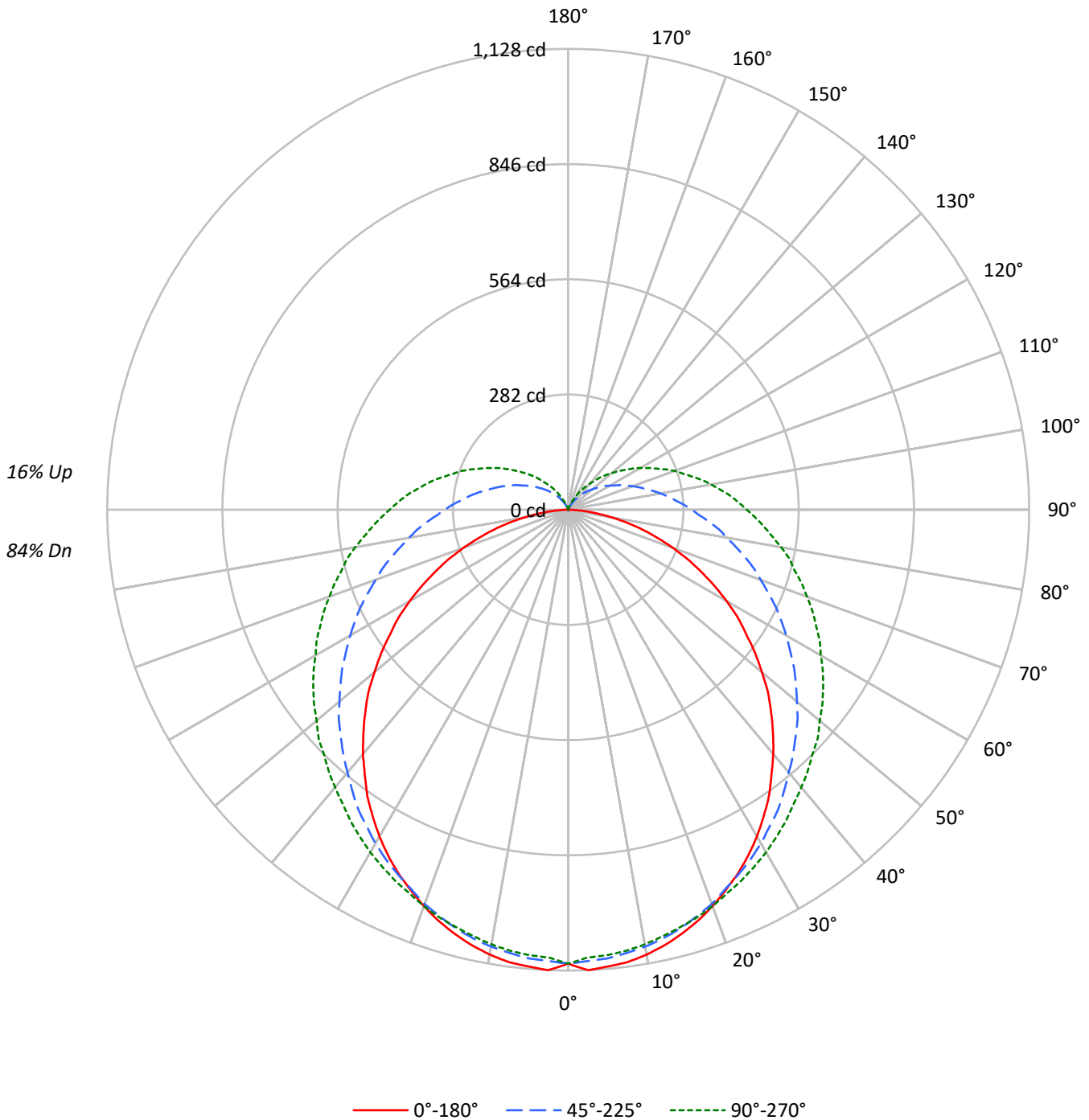
Input Watts (W): 42.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P218335

CATALOG NUMBER: 4SNLED-LD5-47SL-LW-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P218335

CATALOG NUMBER: 4SNLED-LD5-47SL-LW-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	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84
1	102	96	91	86	98	93	88	83	85	81	78	79	76	73	73	70	68	64
2	92	83	75	68	88	79	72	66	73	67	62	67	63	58	62	58	55	52
3	83	72	63	56	79	69	61	54	64	57	51	59	53	48	54	49	45	42
4	76	63	54	46	72	61	52	45	56	49	43	52	46	41	48	43	38	36
5	70	56	46	39	66	54	45	39	50	42	37	46	40	35	43	37	33	30
6	64	50	41	34	61	48	40	33	45	37	32	42	35	30	39	33	29	26
7	59	45	36	30	57	44	35	29	41	33	28	38	31	27	35	30	25	23
8	55	41	32	26	53	40	32	26	37	30	25	35	28	24	32	27	23	21
9	51	38	29	24	49	36	29	23	34	27	22	32	26	21	30	24	20	18
10	48	35	27	21	46	34	26	21	32	25	20	30	24	19	28	22	18	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17905	17905	17905
5°	18089	16758	16278
10°	17958	15727	15028
15°	17732	14779	13920
20°	17445	13890	12984
25°	17133	13038	12150
30°	16780	12313	11423
35°	16370	11624	10751
40°	15870	10916	10149
45°	15367	10320	9631
50°	14772	9752	9188
55°	14099	9234	8808
60°	13458	8720	8419
65°	12539	8274	8111
70°	11475	7806	7812
75°	10100	7436	7549
80°	7983	7074	7358
85°	5257	6813	7160



TEST NUMBER: P218335

CATALOG NUMBER: 4SNLED-LD5-47SL-LW-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.2	2.3
10°-20°	300.9	6.4
20°-30°	457.4	9.8
30°-40°	559.8	12.0
40°-50°	604.4	12.9
50°-60°	593.3	12.7
60°-70°	534.4	11.5
70°-80°	442.5	9.5
80°-90°	340.3	7.3
90°-100°	256.6	5.5
100°-110°	188.8	4.0
110°-120°	130.2	2.8
120°-130°	82.6	1.8
130°-140°	45.7	1.0
140°-150°	19.8	0.4
150°-160°	4.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	863.5	18.5
0°-40°	1423.3	30.5
0°-60°	2621.0	56.2
0°-90°	3938.2	84.4
90°-120°	575.6	12.3
90°-150°	723.7	15.5
90°-180°	729.0	15.6
0°-180°	4667.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1122	1117	1103	1103	1094	107
15°	1075	1072	1061	1066	1058	303
25°	982	982	985	1005	1002	452
35°	856	865	896	924	929	535
45°	702	733	786	834	845	542
55°	532	591	674	742	761	477
65°	358	439	560	644	669	356
75°	188	300	448	543	574	199
85°	42	185	347	451	481	48
90°	0	143	302	406	437	2
95°	3	112	263	364	397	1
105°	0	70	196	286	314	0
115°	0	45	143	216	238	0
125°	0	28	98	154	171	0
135°	0	17	62	101	112	0
145°	0	6	31	56	62	0
155°	0	3	8	17	20	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P218335

CATALOG NUMBER: 4SNLED-LD5-47SL-LW-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1111.2	1111.2	1111.2	1111.2	1111.2
2.5°	1128.0	1119.6	1105.6	1105.6	1097.2
5°	1122.4	1116.8	1102.8	1102.8	1094.4
7.5°	1116.8	1111.2	1094.4	1097.2	1088.8
10°	1105.6	1100.0	1086.0	1088.8	1080.4
12.5°	1091.6	1086.0	1074.8	1077.6	1069.2
15°	1074.8	1072.0	1060.8	1066.4	1058.0
17.5°	1055.2	1052.4	1044.0	1052.4	1046.8
20°	1032.8	1032.8	1027.2	1038.4	1032.8
22.5°	1007.6	1007.6	1004.8	1021.6	1016.0
25°	982.4	982.4	985.2	1004.8	1002.0
27.5°	954.4	957.2	965.6	988.0	985.2
30°	923.6	929.2	943.2	968.4	968.4
32.5°	890.1	895.7	918.1	948.8	948.8
35°	856.5	864.9	895.7	923.6	929.2
37.5°	817.3	831.3	867.7	901.3	906.9
40°	780.9	800.5	839.7	878.9	887.3
42.5°	741.7	766.9	814.5	859.3	867.7
45°	702.5	733.3	786.5	834.1	845.3
47.5°	663.3	696.9	761.3	811.7	828.5
50°	618.6	660.5	730.5	789.3	803.3
52.5°	576.6	624.2	702.5	764.1	783.7
55°	531.8	590.6	674.5	741.7	761.3
57.5°	492.6	551.4	643.8	719.3	738.9
60°	447.8	512.2	615.8	691.3	713.7
62.5°	403.0	478.6	587.8	668.9	694.1
65°	358.3	439.4	559.8	643.8	668.9
67.5°	316.3	403.0	529.0	618.6	646.6
70°	271.5	366.7	501.0	593.4	621.4
72.5°	229.5	333.1	475.8	568.2	599.0
75°	187.5	299.5	447.8	543.0	573.8
77.5°	148.3	268.7	419.8	520.6	554.2
80°	106.4	237.9	394.7	495.4	529.0
82.5°	72.8	209.9	372.3	473.0	503.8
85°	42.0	184.7	347.1	450.6	481.4
87.5°	16.8	162.3	321.9	425.4	459.0
90°	0.0	142.7	302.3	405.8	436.6
92.5°	0.0	126.0	282.7	383.5	417.0
95°	2.8	112.0	263.1	363.9	397.4
97.5°	0.0	98.0	246.3	344.3	375.1
100°	0.0	89.6	229.5	324.7	355.5
102.5°	0.0	78.4	212.7	305.1	335.9
105°	0.0	70.0	195.9	285.5	313.5
107.5°	0.0	64.4	181.9	268.7	293.9
110°	0.0	56.0	167.9	251.9	277.1



TEST NUMBER: P218335

CATALOG NUMBER: 4SNLED-LD5-47SL-LW-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	50.4	153.9	232.3	257.5
115°	0.0	44.8	142.7	215.5	237.9
117.5°	0.0	42.0	128.8	198.7	221.1
120°	0.0	36.4	117.6	184.7	204.3
122.5°	0.0	33.6	109.2	167.9	187.5
125°	0.0	28.0	98.0	153.9	170.7
127.5°	0.0	25.2	86.8	139.9	153.9
130°	0.0	22.4	78.4	126.0	139.9
132.5°	0.0	19.6	70.0	112.0	126.0
135°	0.0	16.8	61.6	100.8	112.0
137.5°	0.0	14.0	53.2	86.8	98.0
140°	0.0	11.2	44.8	75.6	84.0
142.5°	0.0	8.4	39.2	64.4	72.8
145°	0.0	5.6	30.8	56.0	61.6
147.5°	0.0	5.6	25.2	44.8	50.4
150°	0.0	2.8	16.8	36.4	39.2
152.5°	0.0	2.8	14.0	28.0	28.0
155°	0.0	2.8	8.4	16.8	19.6
157.5°	0.0	0.0	5.6	11.2	11.2
160°	0.0	0.0	2.8	5.6	8.4
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)