

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: P218059

Luminaire Tested: **4SNLED-LD5-22SL-LC-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218059  
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-LD5-22SL-LC-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2242.0 lumens  
Efficiency: N/A  
Efficacy: 140.1 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

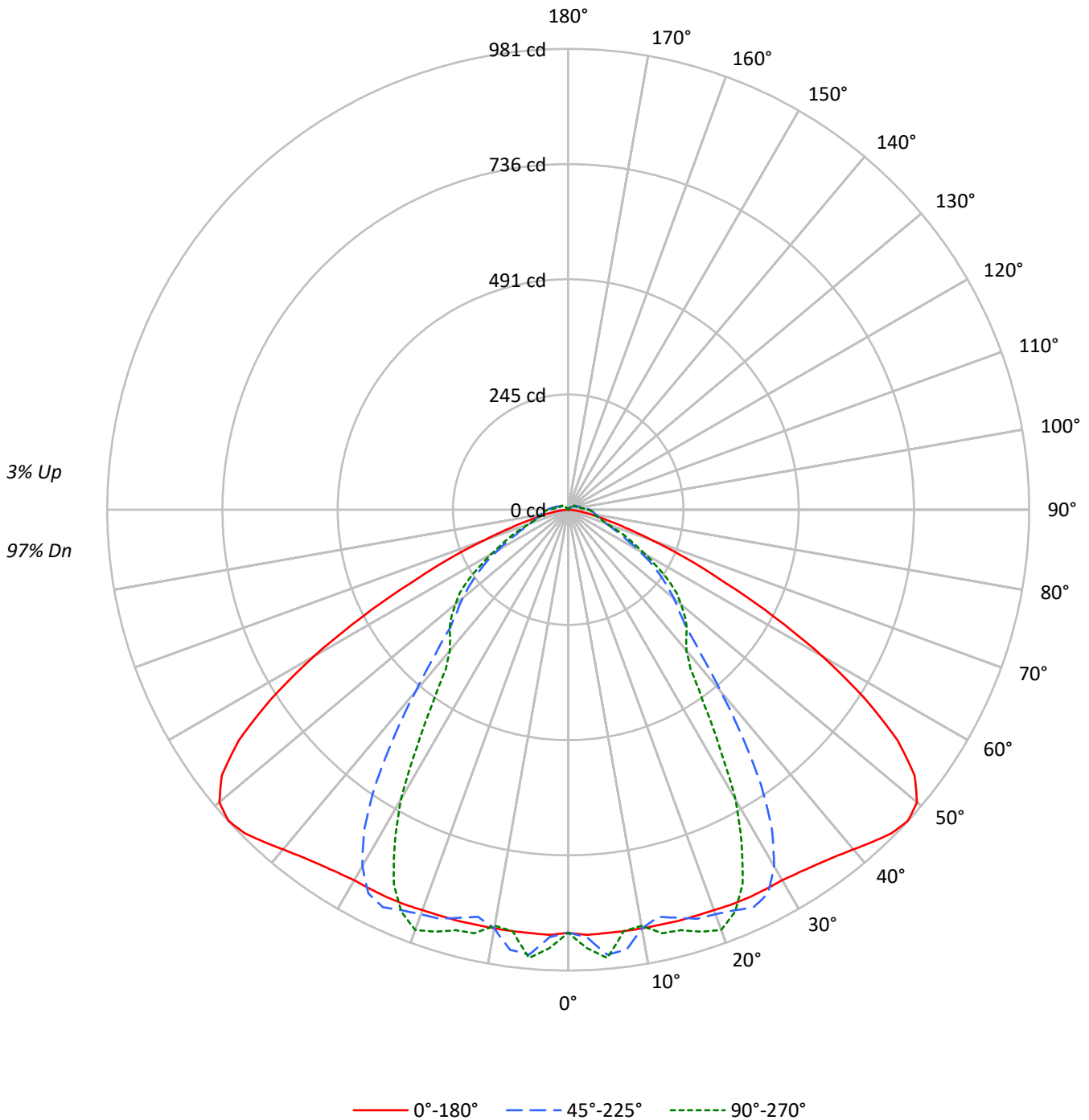
Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P218059

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P218059

CATALOG NUMBER: 4SNLED-LD5-22SL-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	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	57	65	60	57	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°	14507	14507	14507
5°	14584	14447	14243
10°	14698	13104	12506
15°	14947	12526	12192
20°	15324	12390	11967
25°	15881	12354	10652
30°	16544	11438	8388
35°	17624	9287	5812
40°	19183	6560	4473
45°	21300	4665	4064
50°	23142	3919	3581
55°	22684	3219	2985
60°	18820	2436	2232
65°	13004	1763	1641
70°	8094	1340	1125
75°	4573	1142	891
80°	2581	1068	765
85°	1151	1036	767



TEST NUMBER: P218059

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.5	3.9
10°-20°	260.6	11.6
20°-30°	414.1	18.5
30°-40°	446.6	19.9
40°-50°	384.9	17.2
50°-60°	291.4	13.0
60°-70°	157.4	7.0
70°-80°	74.8	3.3
80°-90°	46.9	2.1
90°-100°	29.9	1.3
100°-110°	19.1	0.9
110°-120°	12.8	0.6
120°-130°	8.4	0.4
130°-140°	4.1	0.2
140°-150°	1.7	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	763.3	34.0
0°-40°	1209.8	54.0
0°-60°	1886.1	84.1
0°-90°	2165.2	96.6
90°-120°	61.8	2.8
90°-150°	76.1	3.4
90°-180°	77.0	3.4
0°-180°	2242.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	905	924	951	963	958	86
15°	906	930	899	930	927	257
25°	911	893	934	908	878	421
35°	922	888	716	547	502	581
45°	974	610	356	352	357	750
55°	856	264	235	257	258	744
65°	372	112	119	134	135	382
75°	85	58	69	69	68	100
85°	9	36	53	53	52	13
90°	0	28	46	45	41	0
95°	0	22	37	33	31	0
105°	0	14	25	23	21	0
115°	0	8	17	17	17	0
125°	0	5	12	15	14	0
135°	0	2	7	8	8	0
145°	0	1	3	5	3	0
155°	0	1	1	2	1	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P218059

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	900.3	900.3	900.3	900.3	900.3
2.5°	906.0	907.2	910.6	927.8	934.7
5°	904.9	924.4	950.7	963.4	957.6
7.5°	904.9	945.0	945.0	920.9	904.9
10°	904.9	956.5	904.9	900.3	899.1
12.5°	904.9	949.6	887.7	919.8	923.2
15°	906.0	930.1	899.1	930.1	926.7
17.5°	906.0	907.2	912.9	937.0	941.6
20°	907.2	892.3	916.3	955.3	951.9
22.5°	909.5	890.0	923.2	947.3	926.7
25°	910.6	893.4	933.5	908.3	878.5
27.5°	910.6	898.0	920.9	848.7	799.4
30°	910.6	900.3	876.2	766.1	711.1
32.5°	915.2	898.0	807.4	658.3	598.7
35°	922.1	887.7	715.6	547.1	502.3
37.5°	931.3	860.1	607.8	457.6	427.8
40°	943.9	800.5	504.6	400.3	391.1
42.5°	958.8	713.3	419.8	371.6	371.6
45°	973.7	610.1	355.5	352.1	356.7
47.5°	980.6	509.2	320.0	332.6	337.2
50°	969.1	415.2	293.6	310.8	313.1
52.5°	929.0	331.4	263.8	284.4	290.2
55°	855.6	263.8	235.1	256.9	258.0
57.5°	748.9	209.9	205.3	222.5	221.3
60°	626.2	169.7	172.0	189.2	189.2
62.5°	494.3	137.6	144.5	159.4	158.3
65°	371.6	112.4	119.3	134.2	135.3
67.5°	274.1	92.9	100.9	111.2	109.0
70°	191.5	78.0	86.0	91.7	89.5
72.5°	127.3	66.5	75.7	78.0	76.8
75°	84.9	58.5	68.8	68.8	67.7
77.5°	55.0	51.6	64.2	63.1	60.8
80°	34.4	45.9	59.6	57.3	55.0
82.5°	20.6	40.1	56.2	53.9	51.6
85°	9.2	35.6	52.8	52.8	51.6
87.5°	3.4	32.1	49.3	50.5	48.2
90°	0.0	27.5	45.9	44.7	41.3
92.5°	0.0	25.2	41.3	37.8	35.6
95°	0.0	21.8	36.7	33.3	31.0
97.5°	0.0	19.5	33.3	29.8	27.5
100°	0.0	17.2	29.8	26.4	24.1
102.5°	0.0	14.9	27.5	24.1	22.9
105°	0.0	13.8	25.2	22.9	20.6
107.5°	0.0	12.6	22.9	20.6	19.5
110°	0.0	10.3	20.6	19.5	18.3



TEST NUMBER: P218059

CATALOG NUMBER: 4SNLED-LD5-22SL-LC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	9.2	18.3	18.3	18.3
115°	0.0	8.0	17.2	17.2	17.2
117.5°	0.0	6.9	14.9	17.2	17.2
120°	0.0	6.9	13.8	16.1	16.1
122.5°	0.0	5.7	12.6	16.1	16.1
125°	0.0	4.6	11.5	14.9	13.8
127.5°	0.0	3.4	10.3	12.6	12.6
130°	0.0	3.4	9.2	11.5	10.3
132.5°	0.0	2.3	8.0	9.2	9.2
135°	0.0	2.3	6.9	8.0	8.0
137.5°	0.0	2.3	5.7	6.9	5.7
140°	0.0	1.1	4.6	5.7	4.6
142.5°	0.0	1.1	4.6	5.7	4.6
145°	0.0	1.1	3.4	4.6	3.4
147.5°	0.0	1.1	2.3	3.4	3.4
150°	0.0	1.1	2.3	3.4	2.3
152.5°	0.0	1.1	2.3	2.3	1.1
155°	0.0	1.1	1.1	2.3	1.1
157.5°	0.0	1.1	1.1	1.1	1.1
160°	1.1	1.1	1.1	1.1	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)