

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: P218307

Luminaire Tested: **4SNLED-LD5-27SL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P218307  
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-LD5-27SL-LW-UNV-L830-CD1-U  
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2690.0 lumens  
Efficiency: N/A  
Efficacy: 121.7 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

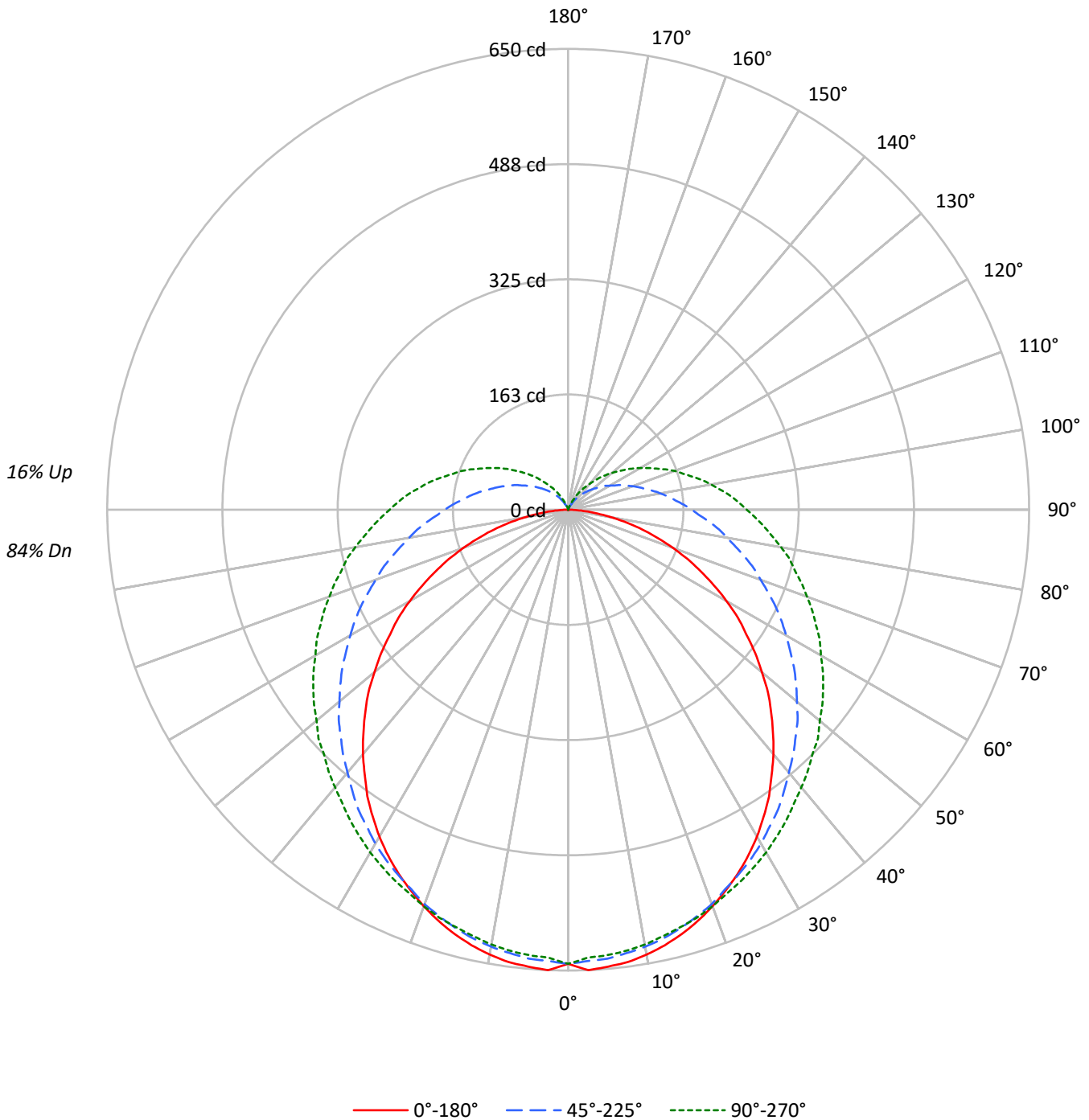
Input Watts (W): 22.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	65
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°	10321	10321	10321
5°	10426	9658	9382
10°	10350	9064	8662
15°	10220	8518	8023
20°	10055	8007	7484
25°	9876	7515	7004
30°	9673	7098	6585
35°	9436	6699	6197
40°	9147	6292	5849
45°	8857	5948	5551
50°	8513	5621	5296
55°	8126	5323	5077
60°	7757	5026	4853
65°	7226	4770	4676
70°	6614	4500	4502
75°	5823	4286	4351
80°	4599	4077	4241
85°	3029	3925	4128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	2.3
10°-20°	173.5	6.4
20°-30°	263.6	9.8
30°-40°	322.7	12.0
40°-50°	348.3	12.9
50°-60°	342.0	12.7
60°-70°	308.0	11.5
70°-80°	255.1	9.5
80°-90°	196.2	7.3
90°-100°	147.9	5.5
100°-110°	108.8	4.0
110°-120°	75.1	2.8
120°-130°	47.6	1.8
130°-140°	26.4	1.0
140°-150°	11.4	0.4
150°-160°	2.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	497.7	18.5
0°-40°	820.4	30.5
0°-60°	1510.7	56.2
0°-90°	2270.0	84.4
90°-120°	331.7	12.3
90°-150°	417.1	15.5
90°-180°	420.0	15.6
0°-180°	2690.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	640	640	640	640	640	
5°	647	644	636	636	631	61
15°	620	618	611	615	610	175
25°	566	566	568	579	578	261
35°	494	498	516	532	536	308
45°	405	423	453	481	487	312
55°	306	340	389	428	439	275
65°	206	253	323	371	386	205
75°	108	173	258	313	331	115
85°	24	106	200	260	278	28
90°	0	82	174	234	252	1
95°	2	64	152	210	229	0
105°	0	40	113	165	181	0
115°	0	26	82	124	137	0
125°	0	16	56	89	98	0
135°	0	10	36	58	64	0
145°	0	3	18	32	36	0
155°	0	2	5	10	11	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°	640.5	640.5	640.5	640.5	640.5
2.5°	650.1	645.3	637.2	637.2	632.4
5°	646.9	643.7	635.6	635.6	630.8
7.5°	643.7	640.5	630.8	632.4	627.6
10°	637.2	634.0	625.9	627.6	622.7
12.5°	629.2	625.9	619.5	621.1	616.3
15°	619.5	617.9	611.4	614.7	609.8
17.5°	608.2	606.6	601.8	606.6	603.4
20°	595.3	595.3	592.1	598.5	595.3
22.5°	580.8	580.8	579.2	588.8	585.6
25°	566.3	566.3	567.9	579.2	577.6
27.5°	550.1	551.7	556.6	569.5	567.9
30°	532.4	535.6	543.7	558.2	558.2
32.5°	513.0	516.2	529.2	546.9	546.9
35°	493.7	498.5	516.2	532.4	535.6
37.5°	471.1	479.1	500.1	519.5	522.7
40°	450.1	461.4	484.0	506.6	511.4
42.5°	427.5	442.0	469.5	495.3	500.1
45°	404.9	422.7	453.3	480.8	487.2
47.5°	382.3	401.7	438.8	467.8	477.5
50°	356.5	380.7	421.1	454.9	463.0
52.5°	332.3	359.8	404.9	440.4	451.7
55°	306.5	340.4	388.8	427.5	438.8
57.5°	283.9	317.8	371.1	414.6	425.9
60°	258.1	295.2	354.9	398.5	411.4
62.5°	232.3	275.9	338.8	385.6	400.1
65°	206.5	253.3	322.7	371.1	385.6
67.5°	182.3	232.3	304.9	356.5	372.7
70°	156.5	211.3	288.8	342.0	358.1
72.5°	132.3	192.0	274.3	327.5	345.2
75°	108.1	172.6	258.1	313.0	330.7
77.5°	85.5	154.9	242.0	300.1	319.4
80°	61.3	137.1	227.5	285.5	304.9
82.5°	41.9	121.0	214.6	272.6	290.4
85°	24.2	106.5	200.0	259.7	277.5
87.5°	9.7	93.6	185.5	245.2	264.6
90°	0.0	82.3	174.2	233.9	251.7
92.5°	0.0	72.6	162.9	221.0	240.4
95°	1.6	64.5	151.6	209.7	229.1
97.5°	0.0	56.5	142.0	198.4	216.2
100°	0.0	51.6	132.3	187.1	204.9
102.5°	0.0	45.2	122.6	175.8	193.6
105°	0.0	40.3	112.9	164.6	180.7
107.5°	0.0	37.1	104.9	154.9	169.4
110°	0.0	32.3	96.8	145.2	159.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	29.0	88.7	133.9	148.4
115°	0.0	25.8	82.3	124.2	137.1
117.5°	0.0	24.2	74.2	114.5	127.4
120°	0.0	21.0	67.8	106.5	117.8
122.5°	0.0	19.4	62.9	96.8	108.1
125°	0.0	16.1	56.5	88.7	98.4
127.5°	0.0	14.5	50.0	80.7	88.7
130°	0.0	12.9	45.2	72.6	80.7
132.5°	0.0	11.3	40.3	64.5	72.6
135°	0.0	9.7	35.5	58.1	64.5
137.5°	0.0	8.1	30.7	50.0	56.5
140°	0.0	6.5	25.8	43.6	48.4
142.5°	0.0	4.8	22.6	37.1	41.9
145°	0.0	3.2	17.7	32.3	35.5
147.5°	0.0	3.2	14.5	25.8	29.0
150°	0.0	1.6	9.7	21.0	22.6
152.5°	0.0	1.6	8.1	16.1	16.1
155°	0.0	1.6	4.8	9.7	11.3
157.5°	0.0	0.0	3.2	6.5	6.5
160°	0.0	0.0	1.6	3.2	4.8
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)