

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: P218295

Luminaire Tested: **4SNLED-LD5-16SL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218295
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-LD5-16SL-LW-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1644.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

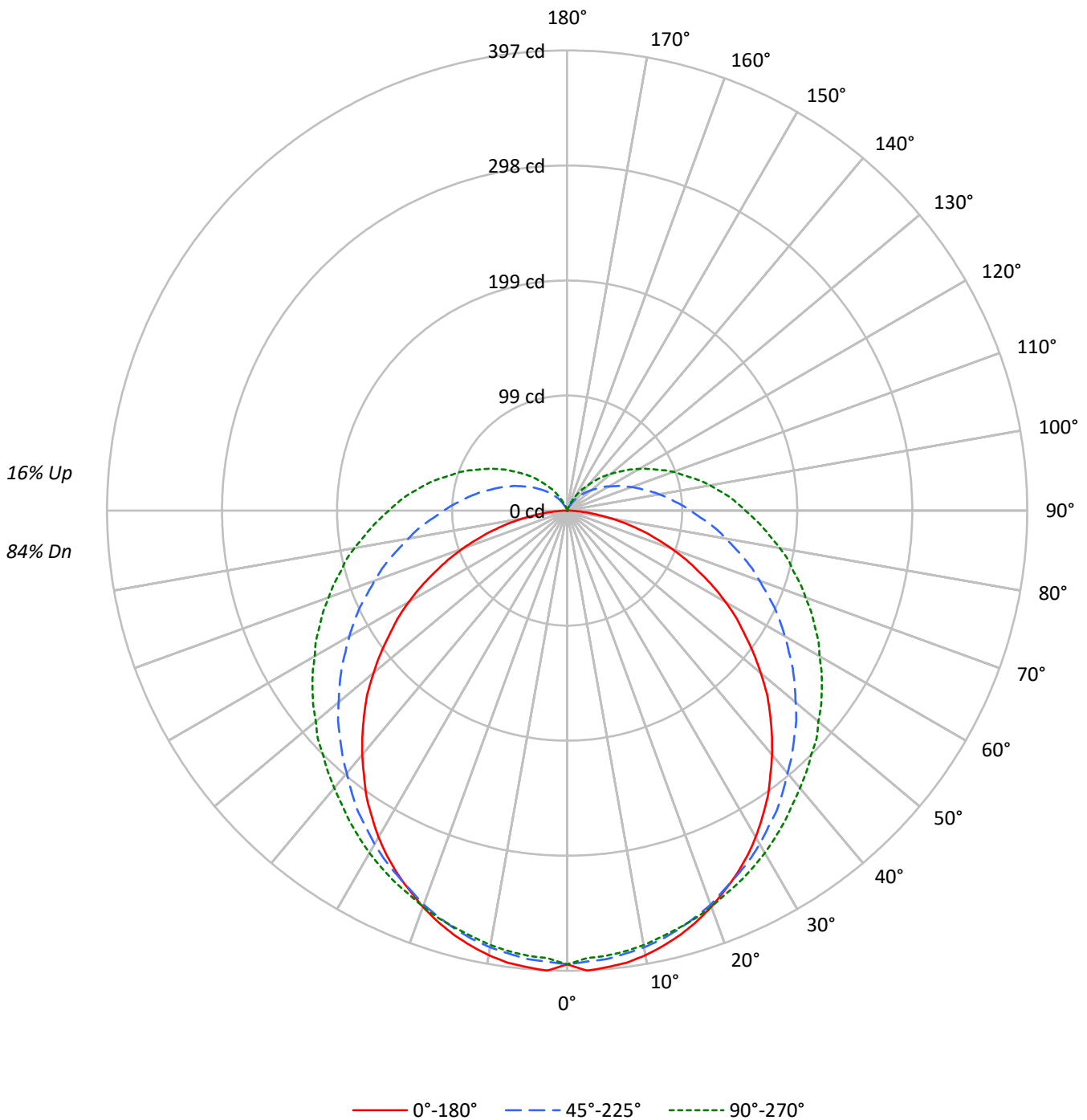
Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6307	6307	6307
5°	6372	5904	5734
10°	6327	5541	5294
15°	6246	5206	4904
20°	6145	4892	4574
25°	6036	4593	4280
30°	5912	4338	4024
35°	5766	4094	3787
40°	5591	3845	3574
45°	5414	3636	3393
50°	5203	3435	3237
55°	4966	3253	3103
60°	4743	3071	2966
65°	4416	2915	2857
70°	4041	2750	2752
75°	3561	2620	2659
80°	2814	2491	2591
85°	1852	2400	2523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	2.3
10°-20°	106.0	6.4
20°-30°	161.1	9.8
30°-40°	197.2	12.0
40°-50°	212.9	12.9
50°-60°	209.0	12.7
60°-70°	188.2	11.5
70°-80°	155.9	9.5
80°-90°	119.9	7.3
90°-100°	90.4	5.5
100°-110°	66.5	4.0
110°-120°	45.9	2.8
120°-130°	29.1	1.8
130°-140°	16.1	1.0
140°-150°	7.0	0.4
150°-160°	1.7	0.1
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	304.2	18.5
0°-40°	501.4	30.5
0°-60°	923.3	56.2
0°-90°	1387.3	84.4
90°-120°	202.8	12.3
90°-150°	254.9	15.5
90°-180°	257.0	15.6
0°-180°	1644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	391	391	391	391	391	
5°	395	393	388	388	386	38
15°	379	378	374	376	373	107
25°	346	346	347	354	353	159
35°	302	305	316	325	327	188
45°	248	258	277	294	298	191
55°	187	208	238	261	268	168
65°	126	155	197	227	236	125
75°	66	106	158	191	202	70
85°	15	65	122	159	170	17
90°	0	50	106	143	154	1
95°	1	39	93	128	140	0
105°	0	25	69	101	110	0
115°	0	16	50	76	84	0
125°	0	10	34	54	60	0
135°	0	6	22	36	39	0
145°	0	2	11	20	22	0
155°	0	1	3	6	7	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°	391.4	391.4	391.4	391.4	391.4
2.5°	397.3	394.4	389.5	389.5	386.5
5°	395.4	393.4	388.5	388.5	385.5
7.5°	393.4	391.4	385.5	386.5	383.5
10°	389.5	387.5	382.6	383.5	380.6
12.5°	384.5	382.6	378.6	379.6	376.6
15°	378.6	377.6	373.7	375.6	372.7
17.5°	371.7	370.7	367.8	370.7	368.7
20°	363.8	363.8	361.8	365.8	363.8
22.5°	354.9	354.9	354.0	359.9	357.9
25°	346.1	346.1	347.1	354.0	353.0
27.5°	336.2	337.2	340.2	348.0	347.1
30°	325.4	327.3	332.3	341.1	341.1
32.5°	313.5	315.5	323.4	334.2	334.2
35°	301.7	304.7	315.5	325.4	327.3
37.5°	287.9	292.8	305.6	317.5	319.4
40°	275.1	282.0	295.8	309.6	312.5
42.5°	261.3	270.2	286.9	302.7	305.6
45°	247.5	258.3	277.1	293.8	297.8
47.5°	233.7	245.5	268.2	285.9	291.8
50°	217.9	232.7	257.3	278.0	283.0
52.5°	203.1	219.9	247.5	269.2	276.1
55°	187.3	208.0	237.6	261.3	268.2
57.5°	173.5	194.2	226.8	253.4	260.3
60°	157.8	180.4	216.9	243.5	251.4
62.5°	142.0	168.6	207.1	235.6	244.5
65°	126.2	154.8	197.2	226.8	235.6
67.5°	111.4	142.0	186.3	217.9	227.8
70°	95.6	129.2	176.5	209.0	218.9
72.5°	80.8	117.3	167.6	200.1	211.0
75°	66.1	105.5	157.8	191.3	202.1
77.5°	52.3	94.7	147.9	183.4	195.2
80°	37.5	83.8	139.0	174.5	186.3
82.5°	25.6	73.9	131.1	166.6	177.5
85°	14.8	65.1	122.3	158.7	169.6
87.5°	5.9	57.2	113.4	149.9	161.7
90°	0.0	50.3	106.5	143.0	153.8
92.5°	0.0	44.4	99.6	135.1	146.9
95°	1.0	39.4	92.7	128.2	140.0
97.5°	0.0	34.5	86.8	121.3	132.1
100°	0.0	31.6	80.8	114.4	125.2
102.5°	0.0	27.6	74.9	107.5	118.3
105°	0.0	24.6	69.0	100.6	110.4
107.5°	0.0	22.7	64.1	94.7	103.5
110°	0.0	19.7	59.2	88.7	97.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	17.7	54.2	81.8	90.7
115°	0.0	15.8	50.3	75.9	83.8
117.5°	0.0	14.8	45.4	70.0	77.9
120°	0.0	12.8	41.4	65.1	72.0
122.5°	0.0	11.8	38.5	59.2	66.1
125°	0.0	9.9	34.5	54.2	60.1
127.5°	0.0	8.9	30.6	49.3	54.2
130°	0.0	7.9	27.6	44.4	49.3
132.5°	0.0	6.9	24.6	39.4	44.4
135°	0.0	5.9	21.7	35.5	39.4
137.5°	0.0	4.9	18.7	30.6	34.5
140°	0.0	3.9	15.8	26.6	29.6
142.5°	0.0	3.0	13.8	22.7	25.6
145°	0.0	2.0	10.8	19.7	21.7
147.5°	0.0	2.0	8.9	15.8	17.7
150°	0.0	1.0	5.9	12.8	13.8
152.5°	0.0	1.0	4.9	9.9	9.9
155°	0.0	1.0	3.0	5.9	6.9
157.5°	0.0	0.0	2.0	3.9	3.9
160°	0.0	0.0	1.0	2.0	3.0
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)