

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: P218343

Luminaire Tested: **4SNLED-LD5-50SL-LW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218343
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-LD5-50SL-LW-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5002.1 lumens
Efficiency: N/A
Efficacy: 106.2 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

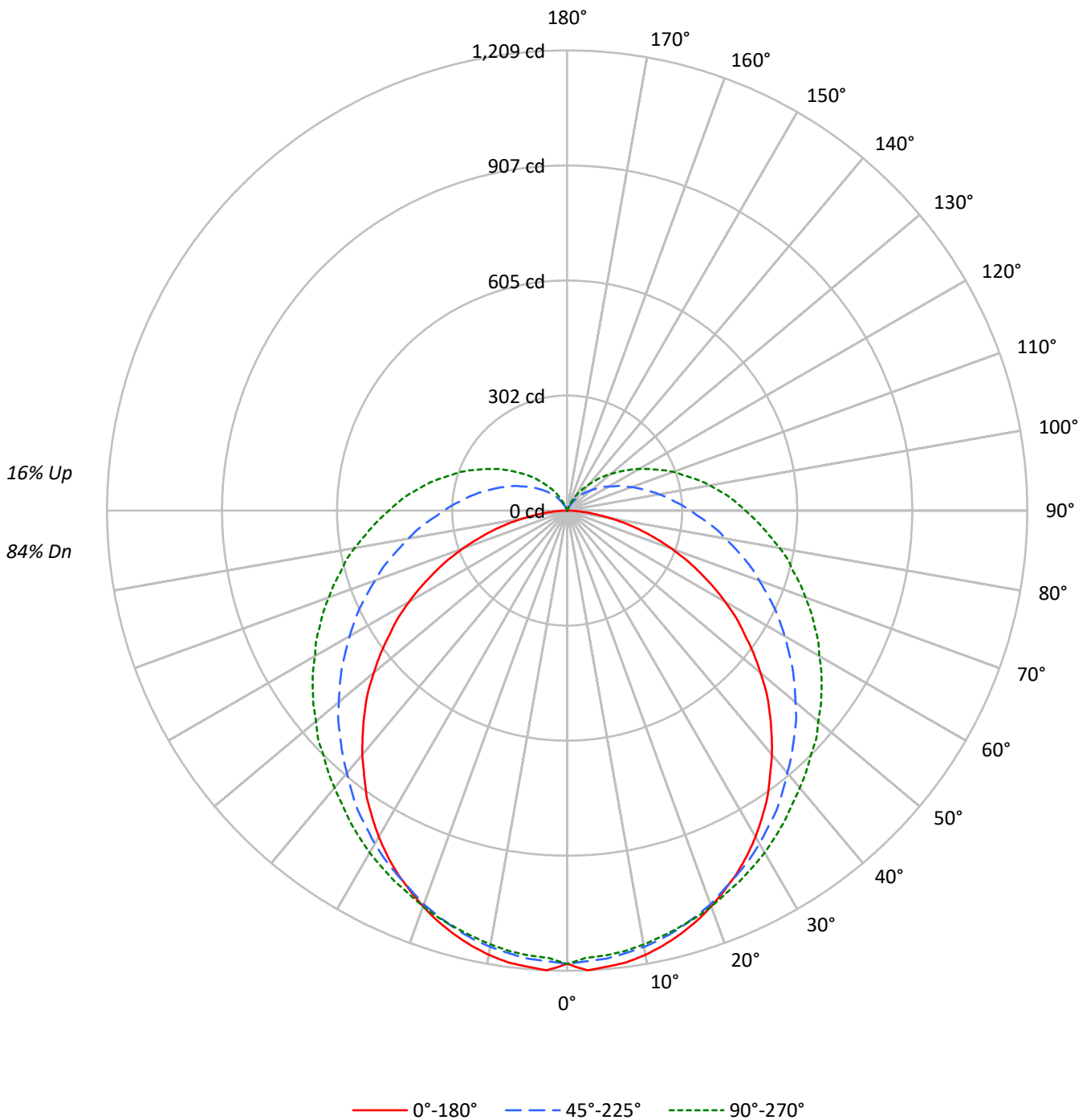
Input Watts (W): 47.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19190	19190	19190
5°	19386	17960	17446
10°	19246	16855	16106
15°	19003	15839	14918
20°	18697	14887	13916
25°	18362	13973	13021
30°	17985	13197	12243
35°	17545	12458	11522
40°	17010	11700	10877
45°	16472	11062	10323
50°	15833	10453	9848
55°	15112	9898	9441
60°	14426	9346	9024
65°	13438	8868	8694
70°	12299	8367	8373
75°	10827	7971	8091
80°	8553	7581	7887
85°	5632	7301	7675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	2.3
10°-20°	322.5	6.4
20°-30°	490.2	9.8
30°-40°	600.0	12.0
40°-50°	647.8	12.9
50°-60°	636.0	12.7
60°-70°	572.8	11.5
70°-80°	474.3	9.5
80°-90°	364.8	7.3
90°-100°	275.0	5.5
100°-110°	202.3	4.0
110°-120°	139.6	2.8
120°-130°	88.5	1.8
130°-140°	49.0	1.0
140°-150°	21.2	0.4
150°-160°	5.3	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	925.5	18.5
0°-40°	1525.5	30.5
0°-60°	2809.2	56.2
0°-90°	4221.0	84.4
90°-120°	616.9	12.3
90°-150°	775.7	15.5
90°-180°	781.0	15.6
0°-180°	5002.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1203	1197	1182	1182	1173	114
15°	1152	1149	1137	1143	1134	325
25°	1053	1053	1056	1077	1074	485
35°	918	927	960	990	996	573
45°	753	786	843	894	906	581
55°	570	633	723	795	816	512
65°	384	471	600	690	717	381
75°	201	321	480	582	615	213
85°	45	198	372	483	516	51
90°	0	153	324	435	468	2
95°	3	120	282	390	426	1
105°	0	75	210	306	336	0
115°	0	48	153	231	255	0
125°	0	30	105	165	183	0
135°	0	18	66	108	120	0
145°	0	6	33	60	66	0
155°	0	3	9	18	21	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°	1190.9	1190.9	1190.9	1190.9	1190.9
2.5°	1208.9	1199.9	1184.9	1184.9	1175.9
5°	1202.9	1196.9	1181.9	1181.9	1172.9
7.5°	1196.9	1190.9	1172.9	1175.9	1166.9
10°	1184.9	1178.9	1163.9	1166.9	1157.9
12.5°	1169.9	1163.9	1151.9	1154.9	1145.9
15°	1151.9	1148.9	1136.9	1142.9	1133.9
17.5°	1130.9	1127.9	1118.9	1127.9	1121.9
20°	1106.9	1106.9	1100.9	1112.9	1106.9
22.5°	1079.9	1079.9	1076.9	1094.9	1088.9
25°	1052.9	1052.9	1055.9	1076.9	1073.9
27.5°	1022.9	1025.9	1034.9	1058.9	1055.9
30°	989.9	995.9	1010.9	1037.9	1037.9
32.5°	954.0	960.0	983.9	1016.9	1016.9
35°	918.0	927.0	960.0	989.9	995.9
37.5°	876.0	891.0	930.0	966.0	971.9
40°	837.0	858.0	900.0	942.0	951.0
42.5°	795.0	822.0	873.0	921.0	930.0
45°	753.0	786.0	843.0	894.0	906.0
47.5°	711.0	747.0	816.0	870.0	888.0
50°	663.0	708.0	783.0	846.0	861.0
52.5°	618.0	669.0	753.0	819.0	840.0
55°	570.0	633.0	723.0	795.0	816.0
57.5°	528.0	591.0	690.0	771.0	792.0
60°	480.0	549.0	660.0	741.0	765.0
62.5°	432.0	513.0	630.0	717.0	744.0
65°	384.0	471.0	600.0	690.0	717.0
67.5°	339.0	432.0	567.0	663.0	693.0
70°	291.0	393.0	537.0	636.0	666.0
72.5°	246.0	357.0	510.0	609.0	642.0
75°	201.0	321.0	480.0	582.0	615.0
77.5°	159.0	288.0	450.0	558.0	594.0
80°	114.0	255.0	423.0	531.0	567.0
82.5°	78.0	225.0	399.0	507.0	540.0
85°	45.0	198.0	372.0	483.0	516.0
87.5°	18.0	174.0	345.0	456.0	492.0
90°	0.0	153.0	324.0	435.0	468.0
92.5°	0.0	135.0	303.0	411.0	447.0
95°	3.0	120.0	282.0	390.0	426.0
97.5°	0.0	105.0	264.0	369.0	402.0
100°	0.0	96.0	246.0	348.0	381.0
102.5°	0.0	84.0	228.0	327.0	360.0
105°	0.0	75.0	210.0	306.0	336.0
107.5°	0.0	69.0	195.0	288.0	315.0
110°	0.0	60.0	180.0	270.0	297.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	54.0	165.0	249.0	276.0
115°	0.0	48.0	153.0	231.0	255.0
117.5°	0.0	45.0	138.0	213.0	237.0
120°	0.0	39.0	126.0	198.0	219.0
122.5°	0.0	36.0	117.0	180.0	201.0
125°	0.0	30.0	105.0	165.0	183.0
127.5°	0.0	27.0	93.0	150.0	165.0
130°	0.0	24.0	84.0	135.0	150.0
132.5°	0.0	21.0	75.0	120.0	135.0
135°	0.0	18.0	66.0	108.0	120.0
137.5°	0.0	15.0	57.0	93.0	105.0
140°	0.0	12.0	48.0	81.0	90.0
142.5°	0.0	9.0	42.0	69.0	78.0
145°	0.0	6.0	33.0	60.0	66.0
147.5°	0.0	6.0	27.0	48.0	54.0
150°	0.0	3.0	18.0	39.0	42.0
152.5°	0.0	3.0	15.0	30.0	30.0
155°	0.0	3.0	9.0	18.0	21.0
157.5°	0.0	0.0	6.0	12.0	12.0
160°	0.0	0.0	3.0	6.0	9.0
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)