

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: P566255

Luminaire Tested: **4SNX-31SL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-31SL-LW-UNV-L835-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

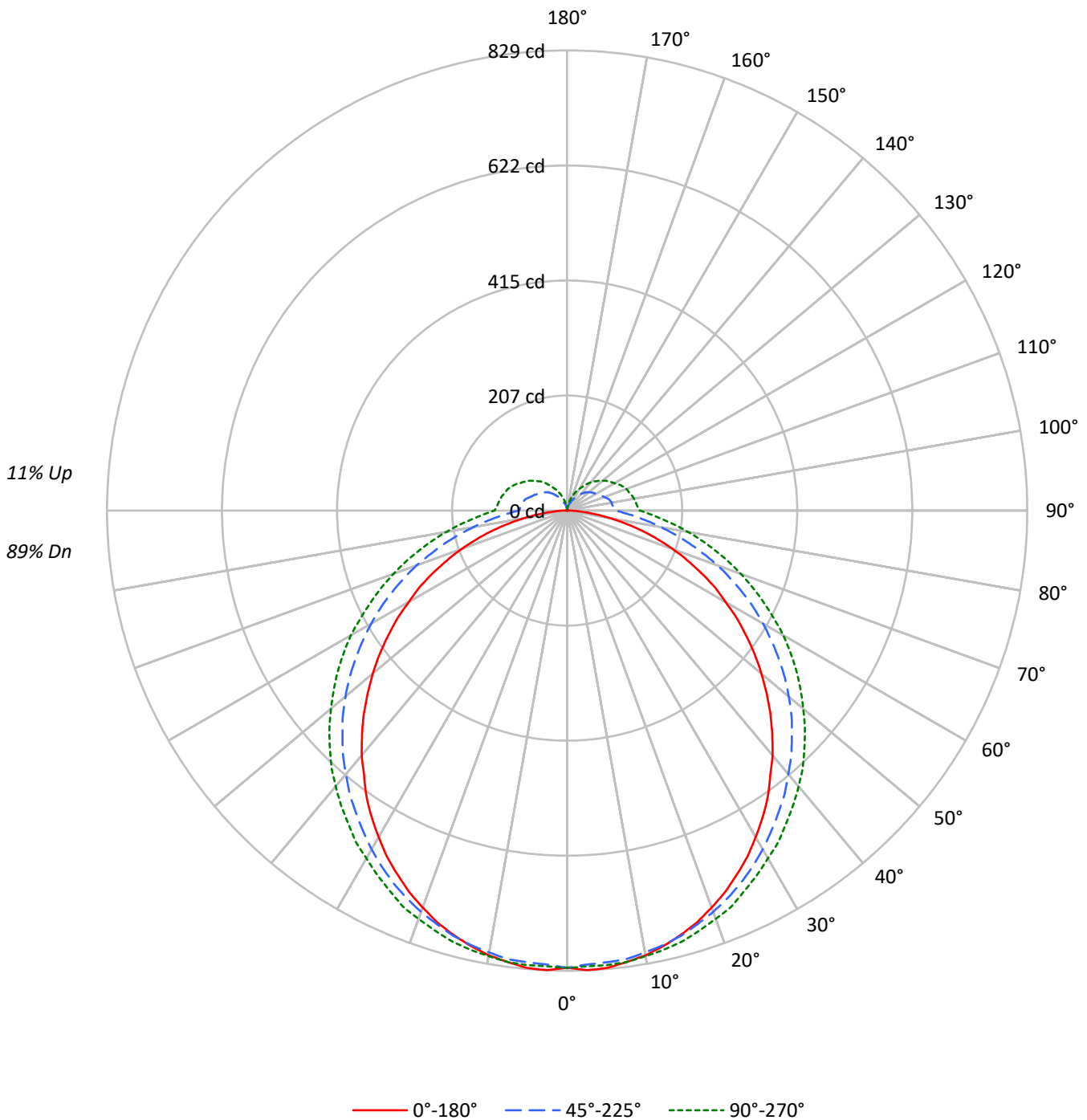
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2932.1 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 19.5
Input Voltage (V): NR
Input Current (Ain): 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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8865	8865	8865
5°	8903	8455	8391
10°	8826	8118	7972
15°	8721	7791	7594
20°	8585	7453	7216
25°	8428	7129	6847
30°	8245	6794	6492
35°	8044	6460	6162
40°	7816	6132	5845
45°	7568	5804	5521
50°	7288	5466	5182
55°	6979	5091	4849
60°	6614	4699	4496
65°	6233	4275	4095
70°	5707	3824	3699
75°	5010	3299	3280
80°	3916	2768	2863
85°	2560	2277	2433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	2.7
10°-20°	224.8	7.7
20°-30°	341.9	11.7
30°-40°	415.0	14.2
40°-50°	438.6	15.0
50°-60°	410.4	14.0
60°-70°	336.7	11.5
70°-80°	231.6	7.9
80°-90°	126.8	4.3
90°-100°	81.7	2.8
100°-110°	73.3	2.5
110°-120°	60.7	2.1
120°-130°	46.7	1.6
130°-140°	32.8	1.1
140°-150°	19.8	0.7
150°-160°	9.5	0.3
160°-170°	3.1	0.1
170°-180°	0.4	0.0
0°-30°	645.0	22.0
0°-40°	1060.0	36.2
0°-60°	1909.0	65.1
0°-90°	2604.1	88.8
90°-120°	215.7	7.4
90°-150°	315.0	10.7
90°-180°	328.0	11.2
0°-180°	2932.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	827	825	817	824	822	78
15°	791	795	793	803	803	223
25°	723	732	740	756	756	333
35°	630	645	664	683	688	394
45°	518	542	572	598	604	399
55°	394	426	465	494	504	353
65°	267	302	348	380	391	264
75°	139	177	228	263	275	147
85°	31	73	124	158	170	35
90°	0	41	87	119	131	2
95°	0	39	83	114	126	0
105°	0	32	78	107	117	1
115°	2	29	66	95	107	2
125°	2	24	56	82	92	2
135°	2	19	46	66	75	1
145°	2	14	32	51	56	1
155°	2	8	20	32	37	1
165°	2	5	10	15	19	0
175°	2	2	3	3	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.6	823.6	823.6	823.6	823.6
2.5°	828.7	827.0	818.5	825.3	821.9
5°	827.0	825.3	816.8	823.6	821.9
7.5°	820.2	820.2	815.1	821.9	820.2
10°	813.4	813.4	808.3	816.8	815.1
12.5°	803.2	804.9	801.5	811.7	810.0
15°	791.3	794.7	793.0	803.2	803.2
17.5°	777.8	781.2	781.2	793.0	793.0
20°	760.8	765.9	769.3	782.8	782.8
22.5°	743.8	750.6	755.7	767.6	772.7
25°	723.4	731.9	740.4	755.7	755.7
27.5°	703.0	713.2	723.4	738.7	740.4
30°	679.3	691.1	704.7	720.0	723.4
32.5°	655.5	670.8	684.4	703.0	708.1
35°	630.0	645.3	664.0	682.7	687.8
37.5°	601.1	619.8	643.6	664.0	669.1
40°	575.7	596.1	619.8	643.6	648.7
42.5°	546.8	568.9	597.8	619.8	628.3
45°	517.9	541.7	572.3	597.8	604.5
47.5°	487.4	514.5	548.5	572.3	580.8
50°	456.8	485.7	521.3	548.5	555.3
52.5°	426.2	456.8	494.2	521.3	529.8
55°	394.0	426.2	465.3	494.2	504.4
57.5°	363.4	395.7	436.4	467.0	477.2
60°	329.4	366.8	407.6	438.1	450.0
62.5°	300.6	334.5	378.7	409.3	419.4
65°	266.6	302.3	348.1	380.4	390.6
67.5°	234.3	271.7	317.6	351.5	361.7
70°	202.1	239.4	288.7	321.0	332.8
72.5°	169.8	208.9	256.4	292.1	304.0
75°	139.2	176.6	227.6	263.2	275.1
77.5°	107.0	147.7	198.7	234.3	247.9
80°	78.1	120.6	171.5	207.2	220.8
82.5°	52.6	95.1	146.0	181.7	195.3
85°	30.6	73.0	124.0	157.9	169.8
87.5°	15.3	56.0	103.6	137.6	149.4
90°	0.0	40.8	86.6	118.9	130.8
92.5°	0.0	39.1	84.9	115.5	127.4
95°	0.0	39.1	83.2	113.8	125.7
97.5°	0.0	37.4	81.5	113.8	124.0
100°	0.0	35.7	81.5	112.1	122.3
102.5°	0.0	34.0	79.8	110.4	120.6
105°	0.0	32.3	78.1	107.0	117.2
107.5°	1.7	32.3	74.7	105.3	115.5
110°	1.7	30.6	71.3	103.6	113.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	28.9	67.9	100.2	110.4
115°	1.7	28.9	66.2	95.1	107.0
117.5°	1.7	27.2	62.8	91.7	103.6
120°	1.7	27.2	61.1	88.3	98.5
122.5°	1.7	25.5	57.7	84.9	95.1
125°	1.7	23.8	56.0	81.5	91.7
127.5°	1.7	22.1	54.3	78.1	88.3
130°	1.7	20.4	50.9	74.7	83.2
132.5°	1.7	20.4	49.2	69.6	79.8
135°	1.7	18.7	45.9	66.2	74.7
137.5°	1.7	17.0	42.5	62.8	71.3
140°	1.7	15.3	39.1	59.4	66.2
142.5°	1.7	15.3	35.7	54.3	61.1
145°	1.7	13.6	32.3	50.9	56.0
147.5°	1.7	11.9	28.9	45.9	50.9
150°	1.7	11.9	25.5	40.8	45.9
152.5°	1.7	10.2	22.1	37.4	42.5
155°	1.7	8.5	20.4	32.3	37.4
157.5°	1.7	8.5	17.0	27.2	32.3
160°	1.7	6.8	15.3	22.1	27.2
162.5°	1.7	6.8	13.6	18.7	23.8
165°	1.7	5.1	10.2	15.3	18.7
167.5°	1.7	5.1	8.5	11.9	15.3
170°	1.7	3.4	6.8	8.5	11.9
172.5°	1.7	3.4	5.1	5.1	5.1
175°	1.7	1.7	3.4	3.4	1.7
177.5°	1.7	1.7	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)