

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: P566264

Luminaire Tested: **4SNX-31SL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566264
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-SLW-UNV-L840-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

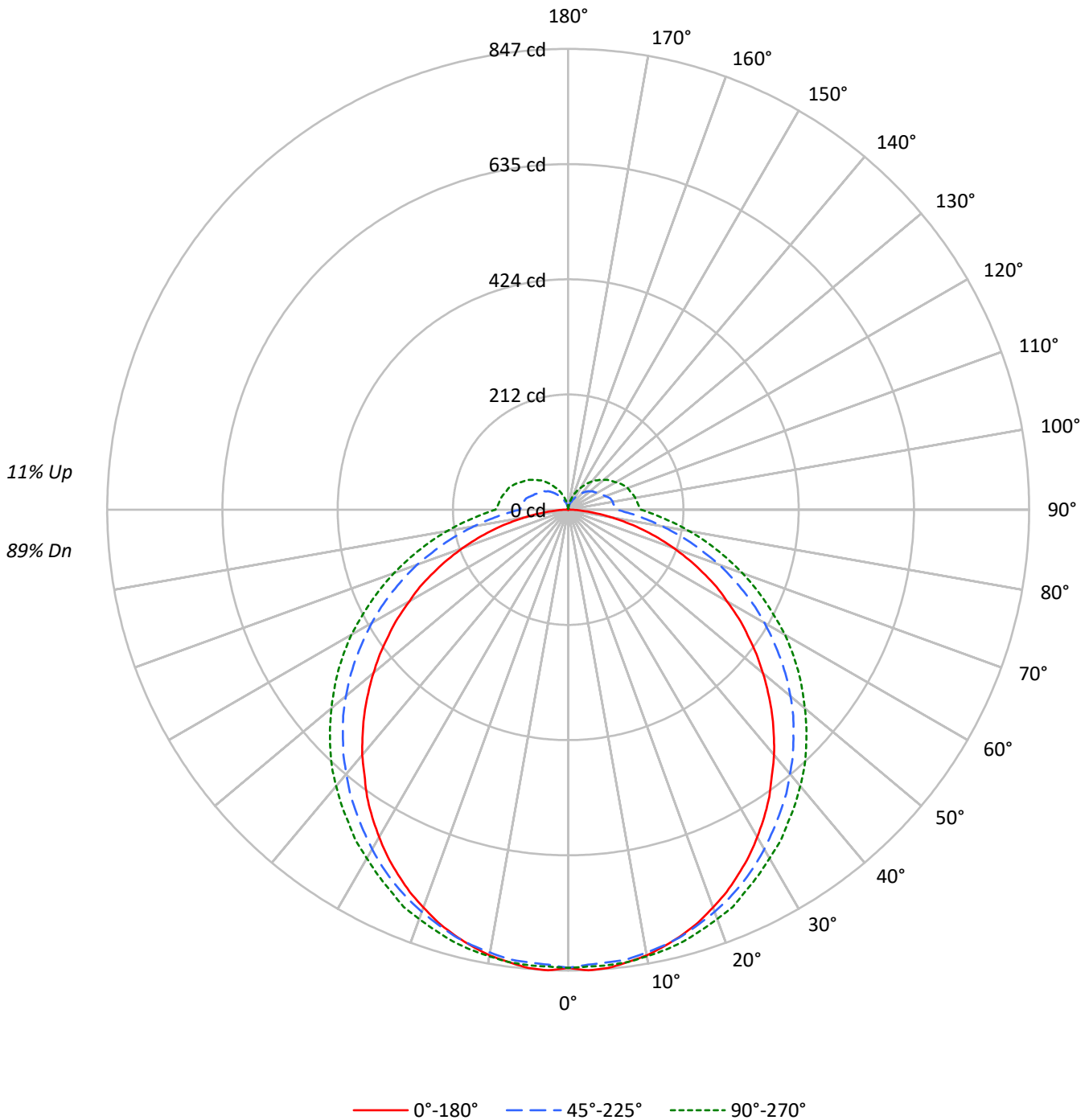
Lumens per Lamp: N/A
Luminaire Lumens: 2998.0 lumens
Efficiency: N/A
Efficacy: 153.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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	77	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°	9064	9064	9064
5°	9120	8832	8824
10°	9057	8653	8606
15°	8968	8470	8405
20°	8844	8260	8181
25°	8701	8055	7947
30°	8531	7829	7715
35°	8344	7595	7497
40°	8129	7364	7290
45°	7898	7130	7065
50°	7633	6882	6813
55°	7342	6584	6565
60°	7001	6264	6289
65°	6647	5907	5942
70°	6151	5513	5601
75°	5497	5012	5225
80°	4431	4503	4853
85°	3125	4066	4472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	2.7
10°-20°	229.9	7.7
20°-30°	349.6	11.7
30°-40°	424.4	14.2
40°-50°	448.4	15.0
50°-60°	419.6	14.0
60°-70°	344.3	11.5
70°-80°	236.8	7.9
80°-90°	129.7	4.3
90°-100°	83.5	2.8
100°-110°	74.9	2.5
110°-120°	62.0	2.1
120°-130°	47.8	1.6
130°-140°	33.6	1.1
140°-150°	20.2	0.7
150°-160°	9.7	0.3
160°-170°	3.2	0.1
170°-180°	0.4	0.0
0°-30°	659.5	22.0
0°-40°	1083.9	36.2
0°-60°	1951.9	65.1
0°-90°	2662.8	88.8
90°-120°	220.5	7.4
90°-150°	322.0	10.7
90°-180°	335.0	11.2
0°-180°	2998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	846	844	835	842	840	80
15°	809	813	811	821	821	228
25°	740	748	757	773	773	341
35°	644	660	679	698	703	402
45°	530	554	585	611	618	408
55°	403	436	476	505	516	360
65°	273	309	356	389	399	270
75°	142	181	233	269	281	150
85°	31	75	127	162	174	36
90°	0	42	89	122	134	2
95°	0	40	85	116	128	0
105°	0	33	80	109	120	1
115°	2	30	68	97	109	2
125°	2	24	57	83	94	2
135°	2	19	47	68	76	1
145°	2	14	33	52	57	1
155°	2	9	21	33	38	1
165°	2	5	10	16	19	0
175°	2	2	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.1	842.1	842.1	842.1	842.1
2.5°	847.4	845.6	836.9	843.9	840.4
5°	845.6	843.9	835.2	842.1	840.4
7.5°	838.7	838.7	833.5	840.4	838.7
10°	831.7	831.7	826.5	835.2	833.5
12.5°	821.3	823.0	819.6	830.0	828.3
15°	809.2	812.6	810.9	821.3	821.3
17.5°	795.3	798.7	798.7	810.9	810.9
20°	777.9	783.1	786.6	800.5	800.5
22.5°	760.5	767.5	772.7	784.8	790.1
25°	739.7	748.4	757.1	772.7	772.7
27.5°	718.9	729.3	739.7	755.3	757.1
30°	694.6	706.7	720.6	736.2	739.7
32.5°	670.2	685.9	699.8	718.9	724.1
35°	644.2	659.8	678.9	698.0	703.2
37.5°	614.7	633.8	658.1	678.9	684.1
40°	588.6	609.5	633.8	658.1	663.3
42.5°	559.1	581.7	611.2	633.8	642.5
45°	529.6	553.9	585.2	611.2	618.2
47.5°	498.3	526.1	560.9	585.2	593.8
50°	467.1	496.6	533.1	560.9	567.8
52.5°	435.8	467.1	505.3	533.1	541.8
55°	402.8	435.8	475.8	505.3	515.7
57.5°	371.6	404.6	446.3	477.5	487.9
60°	336.9	375.1	416.7	448.0	460.1
62.5°	307.3	342.1	387.2	418.5	428.9
65°	272.6	309.1	356.0	388.9	399.4
67.5°	239.6	277.8	324.7	359.4	369.8
70°	206.6	244.8	295.2	328.2	340.3
72.5°	173.6	213.6	262.2	298.7	310.8
75°	142.4	180.6	232.7	269.1	281.3
77.5°	109.4	151.1	203.2	239.6	253.5
80°	79.9	123.3	175.4	211.8	225.7
82.5°	53.8	97.2	149.3	185.8	199.7
85°	31.3	74.7	126.8	161.5	173.6
87.5°	15.6	57.3	105.9	140.6	152.8
90°	0.0	41.7	88.6	121.5	133.7
92.5°	0.0	39.9	86.8	118.1	130.2
95°	0.0	39.9	85.1	116.3	128.5
97.5°	0.0	38.2	83.3	116.3	126.8
100°	0.0	36.5	83.3	114.6	125.0
102.5°	0.0	34.7	81.6	112.9	123.3
105°	0.0	33.0	79.9	109.4	119.8
107.5°	1.7	33.0	76.4	107.7	118.1
110°	1.7	31.3	72.9	105.9	116.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	29.5	69.5	102.4	112.9
115°	1.7	29.5	67.7	97.2	109.4
117.5°	1.7	27.8	64.2	93.8	105.9
120°	1.7	27.8	62.5	90.3	100.7
122.5°	1.7	26.0	59.0	86.8	97.2
125°	1.7	24.3	57.3	83.3	93.8
127.5°	1.7	22.6	55.6	79.9	90.3
130°	1.7	20.8	52.1	76.4	85.1
132.5°	1.7	20.8	50.4	71.2	81.6
135°	1.7	19.1	46.9	67.7	76.4
137.5°	1.7	17.4	43.4	64.2	72.9
140°	1.7	15.6	39.9	60.8	67.7
142.5°	1.7	15.6	36.5	55.6	62.5
145°	1.7	13.9	33.0	52.1	57.3
147.5°	1.7	12.2	29.5	46.9	52.1
150°	1.7	12.2	26.0	41.7	46.9
152.5°	1.7	10.4	22.6	38.2	43.4
155°	1.7	8.7	20.8	33.0	38.2
157.5°	1.7	8.7	17.4	27.8	33.0
160°	1.7	6.9	15.6	22.6	27.8
162.5°	1.7	6.9	13.9	19.1	24.3
165°	1.7	5.2	10.4	15.6	19.1
167.5°	1.7	5.2	8.7	12.2	15.6
170°	1.7	3.5	6.9	8.7	12.2
172.5°	1.7	3.5	5.2	5.2	5.2
175°	1.7	1.7	3.5	3.5	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)