

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: P566110

Luminaire Tested: **4SNX-20SL-LW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566110
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-20SL-LW-UNV-L830-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

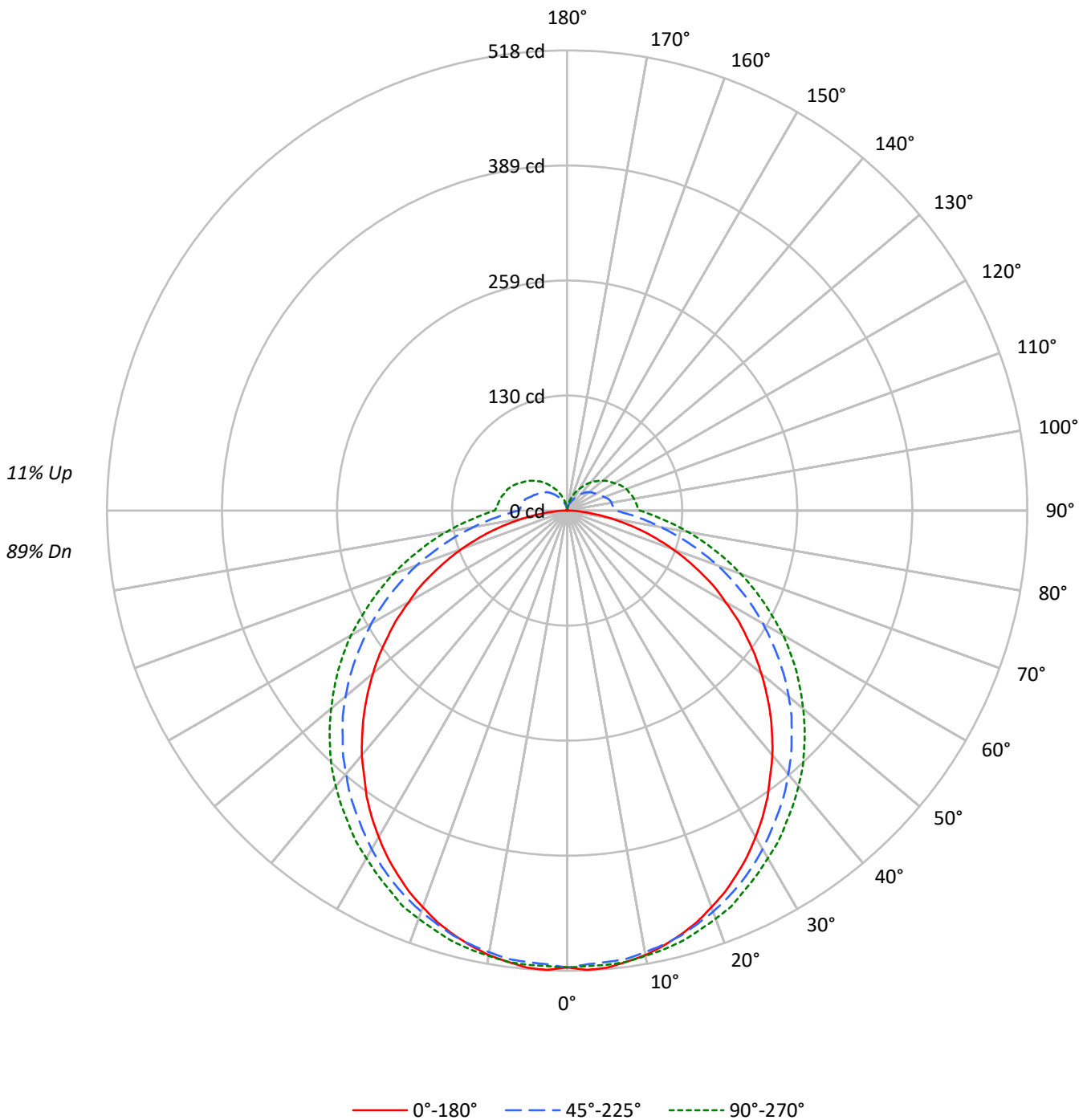
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1831.0 lumens
Efficiency: N/A
Efficacy: 151.3 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): 12.1
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°	5536	5536	5536
5°	5561	5280	5241
10°	5512	5070	4978
15°	5446	4865	4742
20°	5361	4654	4507
25°	5264	4452	4275
30°	5149	4243	4055
35°	5023	4033	3848
40°	4881	3830	3650
45°	4726	3625	3448
50°	4552	3414	3236
55°	4357	3179	3028
60°	4130	2934	2807
65°	3893	2670	2557
70°	3564	2388	2311
75°	3131	2060	2048
80°	2447	1729	1788
85°	1598	1421	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	2.7
10°-20°	140.4	7.7
20°-30°	213.5	11.7
30°-40°	259.2	14.2
40°-50°	273.9	15.0
50°-60°	256.3	14.0
60°-70°	210.3	11.5
70°-80°	144.6	7.9
80°-90°	79.2	4.3
90°-100°	51.0	2.8
100°-110°	45.8	2.5
110°-120°	37.9	2.1
120°-130°	29.2	1.6
130°-140°	20.5	1.1
140°-150°	12.3	0.7
150°-160°	5.9	0.3
160°-170°	1.9	0.1
170°-180°	0.2	0.0
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0°-30°	402.8	22.0
0°-40°	661.9	36.2
0°-60°	1192.1	65.1
0°-90°	1626.2	88.8
90°-120°	134.7	7.4
90°-150°	196.7	10.7
90°-180°	205.0	11.2
0°-180°	1831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	514	514	514	514	514	
5°	516	515	510	514	513	49
15°	494	496	495	502	502	139
25°	452	457	462	472	472	208
35°	393	403	415	426	430	246
45°	323	338	357	373	378	249
55°	246	266	291	309	315	220
65°	166	189	217	238	244	165
75°	87	110	142	164	172	92
85°	19	46	77	99	106	22
90°	0	26	54	74	82	1
95°	0	24	52	71	78	0
105°	0	20	49	67	73	1
115°	1	18	41	59	67	1
125°	1	15	35	51	57	1
135°	1	12	29	41	47	1
145°	1	8	20	32	35	1
155°	1	5	13	20	23	1
165°	1	3	6	10	12	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	514.3	514.3	514.3	514.3	514.3
2.5°	517.5	516.5	511.2	515.4	513.3
5°	516.5	515.4	510.1	514.3	513.3
7.5°	512.2	512.2	509.0	513.3	512.2
10°	508.0	508.0	504.8	510.1	509.0
12.5°	501.6	502.7	500.5	506.9	505.8
15°	494.2	496.3	495.2	501.6	501.6
17.5°	485.7	487.8	487.8	495.2	495.2
20°	475.1	478.3	480.4	488.9	488.9
22.5°	464.5	468.7	471.9	479.3	482.5
25°	451.8	457.1	462.4	471.9	471.9
27.5°	439.0	445.4	451.8	461.3	462.4
30°	424.2	431.6	440.1	449.6	451.8
32.5°	409.3	418.9	427.4	439.0	442.2
35°	393.4	403.0	414.6	426.3	429.5
37.5°	375.4	387.1	401.9	414.6	417.8
40°	359.5	372.2	387.1	401.9	405.1
42.5°	341.5	355.3	373.3	387.1	392.4
45°	323.4	338.3	357.4	373.3	377.5
47.5°	304.4	321.3	342.5	357.4	362.7
50°	285.3	303.3	325.6	342.5	346.8
52.5°	266.2	285.3	308.6	325.6	330.9
55°	246.0	266.2	290.6	308.6	315.0
57.5°	226.9	247.1	272.5	291.6	298.0
60°	205.7	229.1	254.5	273.6	281.0
62.5°	187.7	208.9	236.5	255.6	261.9
65°	166.5	188.8	217.4	237.5	243.9
67.5°	146.3	169.7	198.3	219.5	225.9
70°	126.2	149.5	180.3	200.4	207.9
72.5°	106.0	130.4	160.1	182.4	189.8
75°	87.0	110.3	142.1	164.4	171.8
77.5°	66.8	92.3	124.1	146.3	154.8
80°	48.8	75.3	107.1	129.4	137.9
82.5°	32.9	59.4	91.2	113.5	122.0
85°	19.1	45.6	77.4	98.6	106.0
87.5°	9.5	35.0	64.7	85.9	93.3
90°	0.0	25.5	54.1	74.2	81.7
92.5°	0.0	24.4	53.0	72.1	79.5
95°	0.0	24.4	52.0	71.1	78.5
97.5°	0.0	23.3	50.9	71.1	77.4
100°	0.0	22.3	50.9	70.0	76.4
102.5°	0.0	21.2	49.8	68.9	75.3
105°	0.0	20.1	48.8	66.8	73.2
107.5°	1.1	20.1	46.7	65.7	72.1
110°	1.1	19.1	44.5	64.7	71.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	18.0	42.4	62.6	68.9
115°	1.1	18.0	41.4	59.4	66.8
117.5°	1.1	17.0	39.2	57.3	64.7
120°	1.1	17.0	38.2	55.1	61.5
122.5°	1.1	15.9	36.1	53.0	59.4
125°	1.1	14.8	35.0	50.9	57.3
127.5°	1.1	13.8	33.9	48.8	55.1
130°	1.1	12.7	31.8	46.7	52.0
132.5°	1.1	12.7	30.8	43.5	49.8
135°	1.1	11.7	28.6	41.4	46.7
137.5°	1.1	10.6	26.5	39.2	44.5
140°	1.1	9.5	24.4	37.1	41.4
142.5°	1.1	9.5	22.3	33.9	38.2
145°	1.1	8.5	20.1	31.8	35.0
147.5°	1.1	7.4	18.0	28.6	31.8
150°	1.1	7.4	15.9	25.5	28.6
152.5°	1.1	6.4	13.8	23.3	26.5
155°	1.1	5.3	12.7	20.1	23.3
157.5°	1.1	5.3	10.6	17.0	20.1
160°	1.1	4.2	9.5	13.8	17.0
162.5°	1.1	4.2	8.5	11.7	14.8
165°	1.1	3.2	6.4	9.5	11.7
167.5°	1.1	3.2	5.3	7.4	9.5
170°	1.1	2.1	4.2	5.3	7.4
172.5°	1.1	2.1	3.2	3.2	3.2
175°	1.1	1.1	2.1	2.1	1.1
177.5°	1.1	1.1	1.1	1.1	1.1
180°	1.1	1.1	1.1	1.1	1.1

(END OF REPORT)