

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: P566124

Luminaire Tested: **4SNX-20SL-SLW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566124
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-SLW-UNV-L940-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

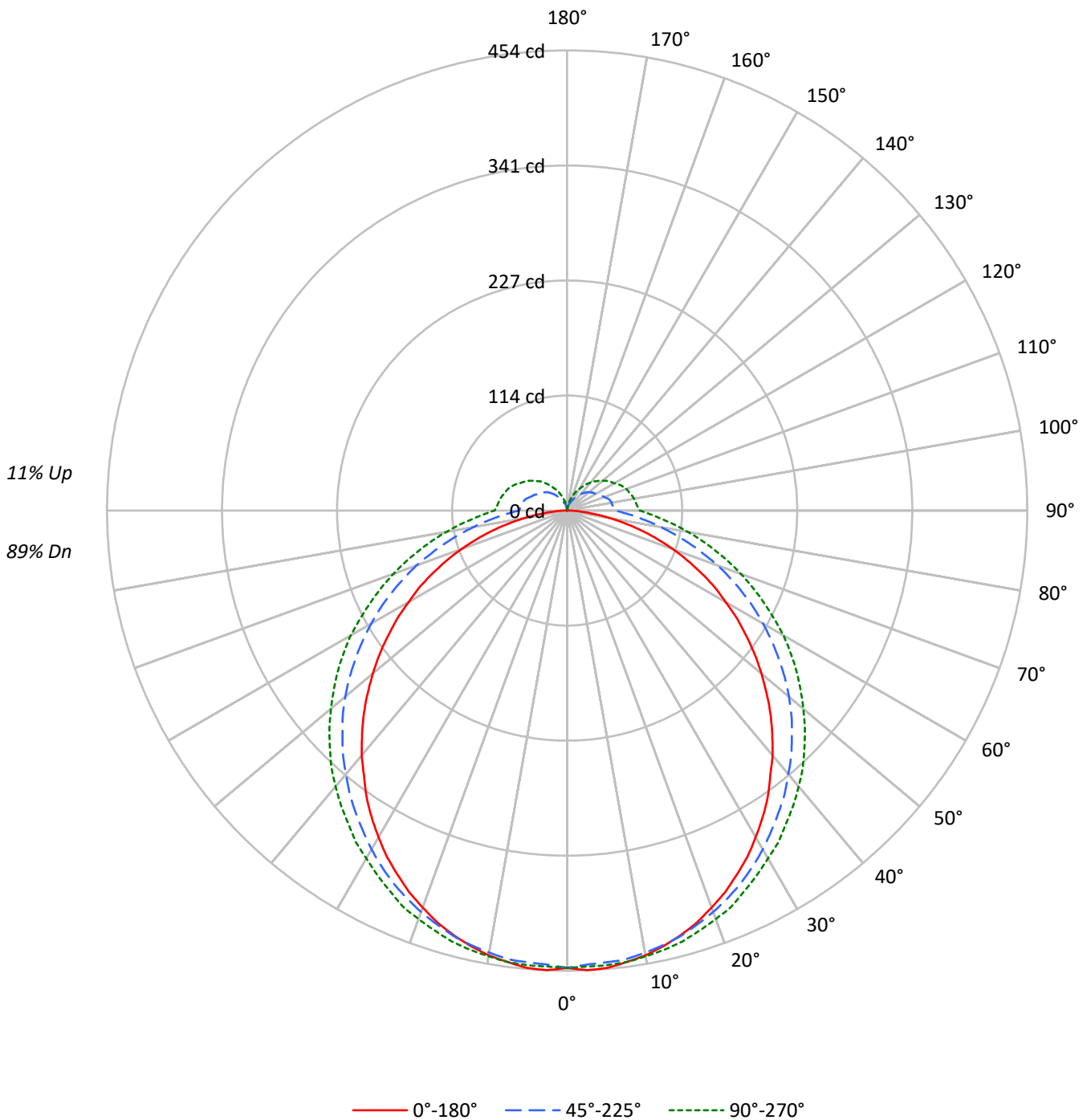
Lumens per Lamp: N/A
Luminaire Lumens: 1606.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	4856	4856	4856
5°	4886	4731	4727
10°	4852	4636	4610
15°	4804	4538	4503
20°	4737	4425	4382
25°	4660	4315	4257
30°	4570	4194	4132
35°	4470	4069	4016
40°	4355	3945	3905
45°	4231	3820	3784
50°	4089	3687	3650
55°	3933	3527	3517
60°	3751	3355	3369
65°	3560	3164	3182
70°	3296	2952	3000
75°	2945	2684	2799
80°	2374	2411	2600
85°	1667	2178	2395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	2.7
10°-20°	123.2	7.7
20°-30°	187.3	11.7
30°-40°	227.3	14.2
40°-50°	240.2	15.0
50°-60°	224.8	14.0
60°-70°	184.4	11.5
70°-80°	126.9	7.9
80°-90°	69.5	4.3
90°-100°	44.7	2.8
100°-110°	40.1	2.5
110°-120°	33.2	2.1
120°-130°	25.6	1.6
130°-140°	18.0	1.1
140°-150°	10.8	0.7
150°-160°	5.2	0.3
160°-170°	1.7	0.1
170°-180°	0.2	0.0
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0°-30°	353.3	22.0
0°-40°	580.6	36.2
0°-60°	1045.6	65.1
0°-90°	1426.4	88.8
90°-120°	118.1	7.4
90°-150°	172.5	10.7
90°-180°	180.0	11.2
0°-180°	1606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	451	451	451	451	451	
5°	453	452	447	451	450	43
15°	434	435	434	440	440	122
25°	396	401	406	414	414	183
35°	345	354	364	374	377	216
45°	284	297	314	327	331	219
55°	216	234	255	271	276	193
65°	146	166	191	208	214	145
75°	76	97	125	144	151	80
85°	17	40	68	86	93	19
90°	0	22	47	65	72	1
95°	0	21	46	62	69	0
105°	0	18	43	59	64	1
115°	1	16	36	52	59	1
125°	1	13	31	45	50	1
135°	1	10	25	36	41	1
145°	1	7	18	28	31	1
155°	1	5	11	18	20	0
165°	1	3	6	8	10	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°	451.1	451.1	451.1	451.1	451.1
2.5°	453.9	453.0	448.3	452.1	450.2
5°	453.0	452.1	447.4	451.1	450.2
7.5°	449.3	449.3	446.5	450.2	449.3
10°	445.5	445.5	442.8	447.4	446.5
12.5°	440.0	440.9	439.0	444.6	443.7
15°	433.5	435.3	434.4	440.0	440.0
17.5°	426.0	427.9	427.9	434.4	434.4
20°	416.7	419.5	421.4	428.8	428.8
22.5°	407.4	411.1	413.9	420.4	423.2
25°	396.2	400.9	405.6	413.9	413.9
27.5°	385.1	390.7	396.2	404.6	405.6
30°	372.1	378.6	386.0	394.4	396.2
32.5°	359.0	367.4	374.9	385.1	387.9
35°	345.1	353.5	363.7	373.9	376.7
37.5°	329.3	339.5	352.5	363.7	366.5
40°	315.3	326.5	339.5	352.5	355.3
42.5°	299.5	311.6	327.4	339.5	344.2
45°	283.7	296.7	313.5	327.4	331.1
47.5°	267.0	281.8	300.4	313.5	318.1
50°	250.2	266.0	285.6	300.4	304.2
52.5°	233.5	250.2	270.7	285.6	290.2
55°	215.8	233.5	254.9	270.7	276.3
57.5°	199.1	216.7	239.1	255.8	261.4
60°	180.5	200.9	223.2	240.0	246.5
62.5°	164.6	183.2	207.4	224.2	229.8
65°	146.0	165.6	190.7	208.4	213.9
67.5°	128.4	148.8	173.9	192.5	198.1
70°	110.7	131.2	158.1	175.8	182.3
72.5°	93.0	114.4	140.5	160.0	166.5
75°	76.3	96.7	124.6	144.2	150.7
77.5°	58.6	80.9	108.8	128.4	135.8
80°	42.8	66.0	93.9	113.5	120.9
82.5°	28.8	52.1	80.0	99.5	107.0
85°	16.7	40.0	67.9	86.5	93.0
87.5°	8.4	30.7	56.7	75.3	81.9
90°	0.0	22.3	47.4	65.1	71.6
92.5°	0.0	21.4	46.5	63.3	69.8
95°	0.0	21.4	45.6	62.3	68.8
97.5°	0.0	20.5	44.6	62.3	67.9
100°	0.0	19.5	44.6	61.4	67.0
102.5°	0.0	18.6	43.7	60.5	66.0
105°	0.0	17.7	42.8	58.6	64.2
107.5°	0.9	17.7	40.9	57.7	63.3
110°	0.9	16.7	39.1	56.7	62.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	15.8	37.2	54.9	60.5
115°	0.9	15.8	36.3	52.1	58.6
117.5°	0.9	14.9	34.4	50.2	56.7
120°	0.9	14.9	33.5	48.4	53.9
122.5°	0.9	14.0	31.6	46.5	52.1
125°	0.9	13.0	30.7	44.6	50.2
127.5°	0.9	12.1	29.8	42.8	48.4
130°	0.9	11.2	27.9	40.9	45.6
132.5°	0.9	11.2	27.0	38.1	43.7
135°	0.9	10.2	25.1	36.3	40.9
137.5°	0.9	9.3	23.3	34.4	39.1
140°	0.9	8.4	21.4	32.6	36.3
142.5°	0.9	8.4	19.5	29.8	33.5
145°	0.9	7.4	17.7	27.9	30.7
147.5°	0.9	6.5	15.8	25.1	27.9
150°	0.9	6.5	14.0	22.3	25.1
152.5°	0.9	5.6	12.1	20.5	23.3
155°	0.9	4.7	11.2	17.7	20.5
157.5°	0.9	4.7	9.3	14.9	17.7
160°	0.9	3.7	8.4	12.1	14.9
162.5°	0.9	3.7	7.4	10.2	13.0
165°	0.9	2.8	5.6	8.4	10.2
167.5°	0.9	2.8	4.7	6.5	8.4
170°	0.9	1.9	3.7	4.7	6.5
172.5°	0.9	1.9	2.8	2.8	2.8
175°	0.9	0.9	1.9	1.9	0.9
177.5°	0.9	0.9	0.9	0.9	0.9
180°	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)