

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: P566086

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-20SL-FDL-UNV-L830-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

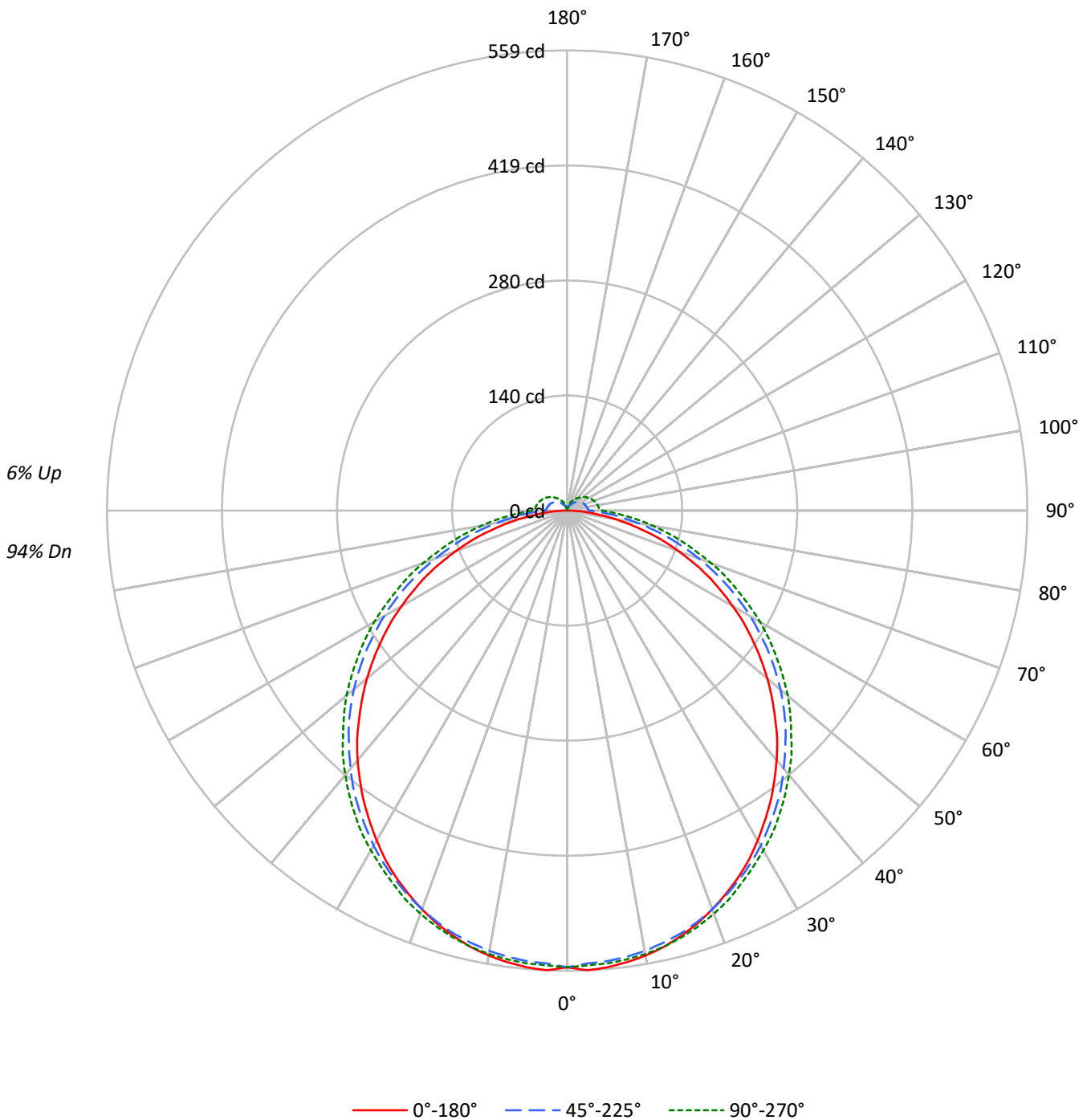
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1763.0 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5972	5972	5972
5°	6013	5873	5882
10°	5988	5809	5808
15°	5943	5736	5725
20°	5881	5646	5628
25°	5812	5549	5511
30°	5717	5450	5405
35°	5620	5334	5294
40°	5515	5204	5169
45°	5381	5077	5022
50°	5252	4931	4890
55°	5092	4752	4704
60°	4912	4545	4522
65°	4721	4301	4271
70°	4394	3992	4011
75°	3999	3628	3697
80°	3418	3146	3352
85°	2693	2728	2946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	3.0
10°-20°	151.0	8.6
20°-30°	228.8	13.0
30°-40°	276.2	15.7
40°-50°	288.4	16.4
50°-60°	265.0	15.0
60°-70°	209.5	11.9
70°-80°	132.6	7.5
80°-90°	57.0	3.2
90°-100°	25.1	1.4
100°-110°	22.5	1.3
110°-120°	19.0	1.1
120°-130°	14.8	0.8
130°-140°	10.2	0.6
140°-150°	6.1	0.3
150°-160°	3.0	0.2
160°-170°	1.0	0.1
170°-180°	0.2	0.0
0°-30°	432.4	24.5
0°-40°	708.6	40.2
0°-60°	1262.0	71.6
0°-90°	1661.2	94.2
90°-120°	66.5	3.8
90°-150°	97.7	5.5
90°-180°	102.0	5.8
0°-180°	1763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	557	555	550	554	552	53
15°	535	535	532	538	537	151
25°	492	494	494	501	500	226
35°	431	436	442	448	450	269
45°	357	366	375	382	385	276
55°	275	287	298	308	310	246
65°	190	200	214	224	228	187
75°	100	112	128	139	144	106
85°	24	38	54	65	69	27
90°	2	13	28	38	42	2
95°	0	12	25	35	39	0
105°	0	11	23	33	36	0
115°	0	9	21	30	33	0
125°	1	8	18	26	28	1
135°	1	6	14	20	23	0
145°	1	5	10	15	17	0
155°	1	3	7	10	12	0
165°	1	2	3	5	7	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°	554.8	554.8	554.8	554.8	554.8
2.5°	558.8	557.0	550.7	555.1	552.9
5°	557.0	555.4	549.5	554.2	552.3
7.5°	553.5	552.3	547.0	552.0	550.1
10°	548.9	547.9	543.2	548.2	547.0
12.5°	542.9	542.6	537.9	543.5	542.6
15°	534.8	534.8	532.0	537.6	536.7
17.5°	526.1	526.4	524.2	530.1	529.5
20°	515.4	517.0	515.4	521.7	521.1
22.5°	503.9	506.1	505.5	511.7	512.0
25°	491.7	493.9	494.5	501.1	500.1
27.5°	478.3	481.7	483.0	488.9	488.6
30°	462.7	467.4	470.2	475.2	476.7
32.5°	446.8	452.4	455.8	462.7	464.6
35°	430.8	435.8	441.5	448.3	449.9
37.5°	413.4	419.0	426.5	433.0	434.9
40°	395.9	402.1	409.3	416.5	419.3
42.5°	377.8	384.3	392.1	400.6	403.4
45°	357.2	365.9	375.3	382.4	384.9
47.5°	337.5	347.2	357.2	365.0	367.8
50°	317.5	327.8	338.4	345.6	350.0
52.5°	296.6	307.8	318.4	327.5	330.3
55°	275.4	286.6	298.5	308.1	310.3
57.5°	254.8	265.7	277.5	286.6	291.0
60°	232.3	244.1	256.9	266.0	270.7
62.5°	210.4	222.0	235.7	245.4	249.1
65°	189.5	200.1	214.2	224.2	227.6
67.5°	166.4	178.6	192.0	203.6	207.9
70°	143.6	155.2	170.5	181.4	185.8
72.5°	122.4	133.6	148.9	159.8	163.9
75°	99.9	111.8	128.0	138.9	144.2
77.5°	78.4	91.5	107.1	118.9	124.9
80°	58.4	69.9	86.8	99.9	105.2
82.5°	39.6	52.1	69.6	81.8	87.7
85°	24.4	37.5	53.7	65.3	69.3
87.5°	11.6	24.0	39.0	50.3	55.3
90°	1.6	13.4	27.5	38.4	42.5
92.5°	0.3	11.6	25.3	35.6	39.3
95°	0.3	11.6	25.0	35.0	38.7
97.5°	0.3	11.2	24.7	34.7	38.1
100°	0.3	10.9	24.4	34.0	37.8
102.5°	0.3	10.9	23.7	33.4	36.8
105°	0.3	10.6	23.4	32.8	36.2
107.5°	0.3	10.3	22.8	32.2	35.6
110°	0.3	9.7	22.5	31.2	34.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	9.4	21.9	30.6	33.7
115°	0.3	9.1	21.2	29.7	32.8
117.5°	0.3	8.7	20.3	28.7	31.8
120°	0.6	8.7	19.7	27.8	30.6
122.5°	0.6	8.4	18.7	26.5	29.3
125°	0.6	8.1	17.8	25.6	28.4
127.5°	0.6	7.8	16.9	24.4	26.8
130°	0.6	7.2	16.2	23.1	25.6
132.5°	0.6	6.9	15.3	21.5	24.0
135°	0.6	6.2	14.4	20.3	22.8
137.5°	0.6	5.9	13.4	19.0	21.2
140°	0.6	5.6	12.2	17.8	20.0
142.5°	0.6	5.0	11.2	16.5	18.4
145°	0.6	4.7	10.0	15.3	16.9
147.5°	0.6	4.1	9.1	14.0	15.6
150°	0.6	3.7	8.1	12.8	14.4
152.5°	0.6	3.4	7.2	11.2	12.8
155°	0.6	3.1	6.6	9.7	11.6
157.5°	0.6	2.8	5.6	8.4	10.3
160°	0.9	2.5	5.0	7.2	8.7
162.5°	0.9	2.2	4.1	5.9	7.8
165°	0.9	2.2	3.4	4.7	6.6
167.5°	0.9	1.9	2.8	3.7	5.3
170°	0.9	1.6	2.5	2.8	4.1
172.5°	0.9	1.2	1.9	1.9	2.2
175°	0.9	1.2	1.6	1.6	0.9
177.5°	0.9	0.9	0.9	0.9	0.6
180°	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)