

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: P566087

Luminaire Tested: **4SNX-20SL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566087  
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-L835-CD  
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

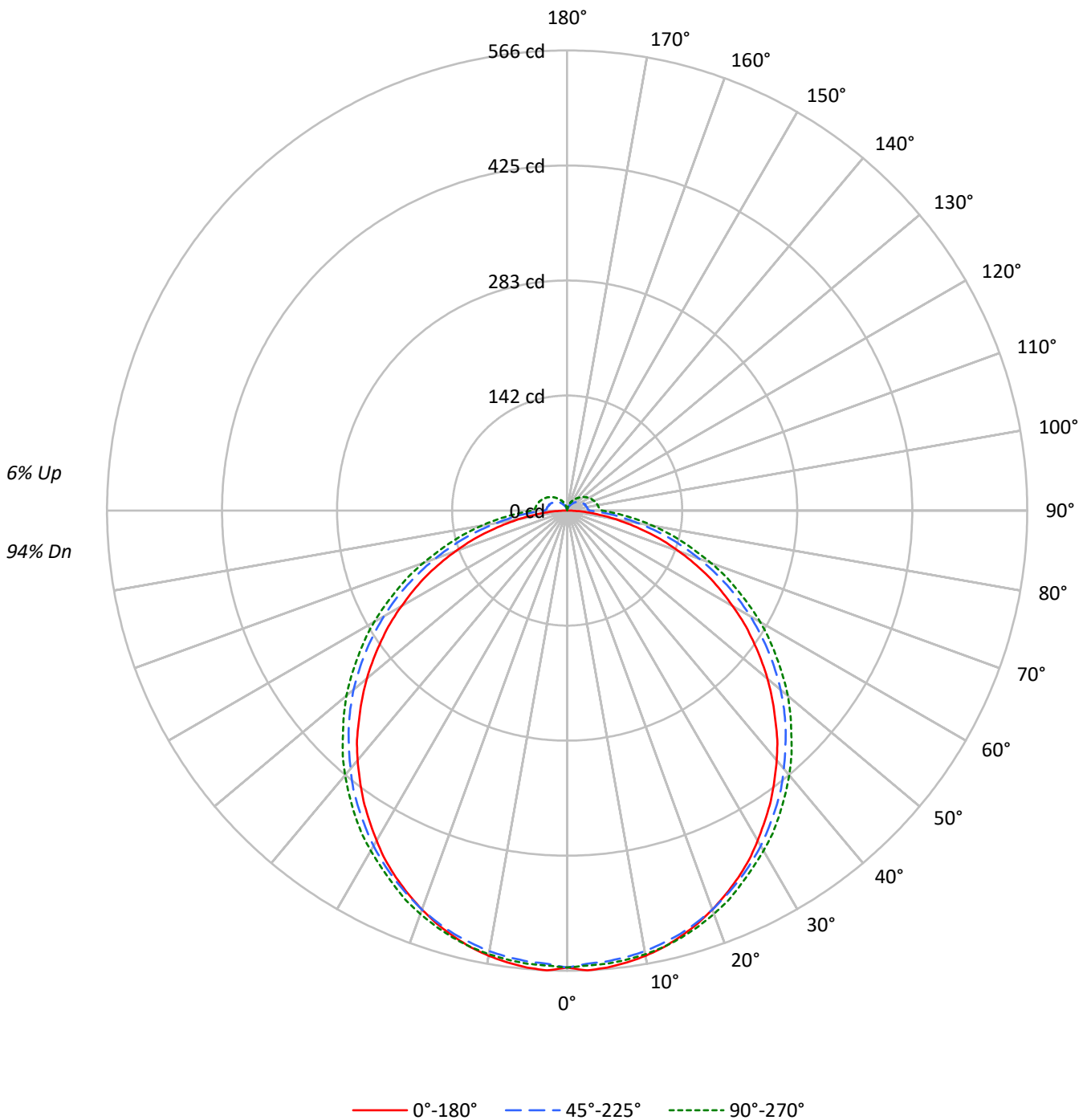
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1786.0 lumens  
Efficiency: N/A  
Efficacy: 147.6 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 (A<sub>in</sub>): 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

TEST NUMBER: P566087  
CATALOG NUMBER: 4SNX-20SL-FDL-UNV-L835-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566087

CATALOG NUMBER: 4SNX-20SL-FDL-UNV-L835-CD

**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	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°	6049	6049	6049
5°	6091	5949	5959
10°	6066	5885	5883
15°	6021	5810	5800
20°	5959	5721	5701
25°	5887	5622	5584
30°	5791	5521	5476
35°	5694	5403	5363
40°	5586	5272	5237
45°	5451	5144	5089
50°	5321	4995	4953
55°	5159	4814	4766
60°	4976	4605	4581
65°	4783	4357	4327
70°	4452	4044	4063
75°	4051	3676	3746
80°	3459	3186	3397
85°	2726	2763	2984



TEST NUMBER: P566087

CATALOG NUMBER: 4SNX-20SL-FDL-UNV-L835-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.3	3.0
10°-20°	152.9	8.6
20°-30°	231.8	13.0
30°-40°	279.8	15.7
40°-50°	292.2	16.4
50°-60°	268.4	15.0
60°-70°	212.3	11.9
70°-80°	134.3	7.5
80°-90°	57.7	3.2
90°-100°	25.4	1.4
100°-110°	22.7	1.3
110°-120°	19.2	1.1
120°-130°	15.0	0.8
130°-140°	10.4	0.6
140°-150°	6.2	0.3
150°-160°	3.0	0.2
160°-170°	1.0	0.1
170°-180°	0.2	0.0
0°-30°	438.0	24.5
0°-40°	717.8	40.2
0°-60°	1278.5	71.6
0°-90°	1682.8	94.2
90°-120°	67.4	3.8
90°-150°	98.9	5.5
90°-180°	103.0	5.8
0°-180°	1786.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	564	563	557	561	560	54
15°	542	542	539	545	544	153
25°	498	500	501	508	507	229
35°	436	442	447	454	456	273
45°	362	371	380	387	390	279
55°	279	290	302	312	314	250
65°	192	203	217	227	231	189
75°	101	113	130	141	146	107
85°	25	38	54	66	70	27
90°	2	14	28	39	43	2
95°	0	12	25	35	39	0
105°	0	11	24	33	37	0
115°	0	9	22	30	33	0
125°	1	8	18	26	29	1
135°	1	6	14	21	23	0
145°	1	5	10	16	17	0
155°	1	3	7	10	12	0
165°	1	2	4	5	7	0
175°	1	1	2	2	1	0
180°	1	1	1	1	1	



TEST NUMBER: P566087

CATALOG NUMBER: 4SNX-20SL-FDL-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	562.0	562.0	562.0	562.0	562.0
2.5°	566.1	564.2	557.9	562.3	560.1
5°	564.2	562.7	556.6	561.4	559.5
7.5°	560.8	559.5	554.1	559.2	557.3
10°	556.0	555.1	550.3	555.4	554.1
12.5°	550.0	549.7	544.9	550.6	549.7
15°	541.8	541.8	538.9	544.6	543.7
17.5°	532.9	533.2	531.0	537.0	536.4
20°	522.2	523.8	522.2	528.5	527.9
22.5°	510.5	512.7	512.0	518.4	518.7
25°	498.1	500.3	501.0	507.6	506.7
27.5°	484.5	488.0	489.3	495.3	495.0
30°	468.7	473.5	476.3	481.4	483.0
32.5°	452.6	458.3	461.8	468.7	470.6
35°	436.5	441.5	447.2	454.2	455.8
37.5°	418.7	424.4	432.0	438.7	440.6
40°	401.0	407.4	414.6	421.9	424.8
42.5°	382.7	389.3	397.2	405.8	408.6
45°	361.8	370.7	380.2	387.4	390.0
47.5°	341.9	351.7	361.8	369.7	372.6
50°	321.7	332.1	342.8	350.1	354.5
52.5°	300.5	311.8	322.6	331.8	334.6
55°	279.0	290.3	302.4	312.2	314.4
57.5°	258.1	269.1	281.2	290.3	294.8
60°	235.3	247.3	260.3	269.5	274.2
62.5°	213.2	224.9	238.8	248.6	252.4
65°	192.0	202.7	217.0	227.1	230.6
67.5°	168.6	180.9	194.5	206.2	210.6
70°	145.5	157.2	172.7	183.8	188.2
72.5°	124.0	135.4	150.9	161.9	166.0
75°	101.2	113.2	129.7	140.7	146.1
77.5°	79.4	92.7	108.5	120.5	126.5
80°	59.1	70.8	87.9	101.2	106.6
82.5°	40.2	52.8	70.5	82.9	88.9
85°	24.7	38.0	54.4	66.1	70.2
87.5°	11.7	24.4	39.5	50.9	56.0
90°	1.6	13.6	27.8	38.9	43.0
92.5°	0.3	11.7	25.6	36.1	39.9
95°	0.3	11.7	25.3	35.4	39.2
97.5°	0.3	11.4	25.0	35.1	38.6
100°	0.3	11.1	24.7	34.5	38.3
102.5°	0.3	11.1	24.0	33.8	37.3
105°	0.3	10.8	23.7	33.2	36.7
107.5°	0.3	10.4	23.1	32.6	36.1
110°	0.3	9.8	22.8	31.6	35.1



TEST NUMBER: P566087

CATALOG NUMBER: 4SNX-20SL-FDL-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	9.5	22.1	31.0	34.2
115°	0.3	9.2	21.5	30.0	33.2
117.5°	0.3	8.9	20.6	29.1	32.3
120°	0.6	8.9	19.9	28.1	31.0
122.5°	0.6	8.5	19.0	26.9	29.7
125°	0.6	8.2	18.0	25.9	28.8
127.5°	0.6	7.9	17.1	24.7	27.2
130°	0.6	7.3	16.4	23.4	25.9
132.5°	0.6	7.0	15.5	21.8	24.4
135°	0.6	6.3	14.5	20.6	23.1
137.5°	0.6	6.0	13.6	19.3	21.5
140°	0.6	5.7	12.3	18.0	20.2
142.5°	0.6	5.1	11.4	16.8	18.7
145°	0.6	4.7	10.1	15.5	17.1
147.5°	0.6	4.1	9.2	14.2	15.8
150°	0.6	3.8	8.2	13.0	14.5
152.5°	0.6	3.5	7.3	11.4	13.0
155°	0.6	3.2	6.6	9.8	11.7
157.5°	0.6	2.8	5.7	8.5	10.4
160°	0.9	2.5	5.1	7.3	8.9
162.5°	0.9	2.2	4.1	6.0	7.9
165°	0.9	2.2	3.5	4.7	6.6
167.5°	0.9	1.9	2.8	3.8	5.4
170°	0.9	1.6	2.5	2.8	4.1
172.5°	0.9	1.3	1.9	1.9	2.2
175°	0.9	1.3	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)