

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: P566088

Luminaire Tested: **4SNX-20SL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566088
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-L840-CD
Description: 4FT 2000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

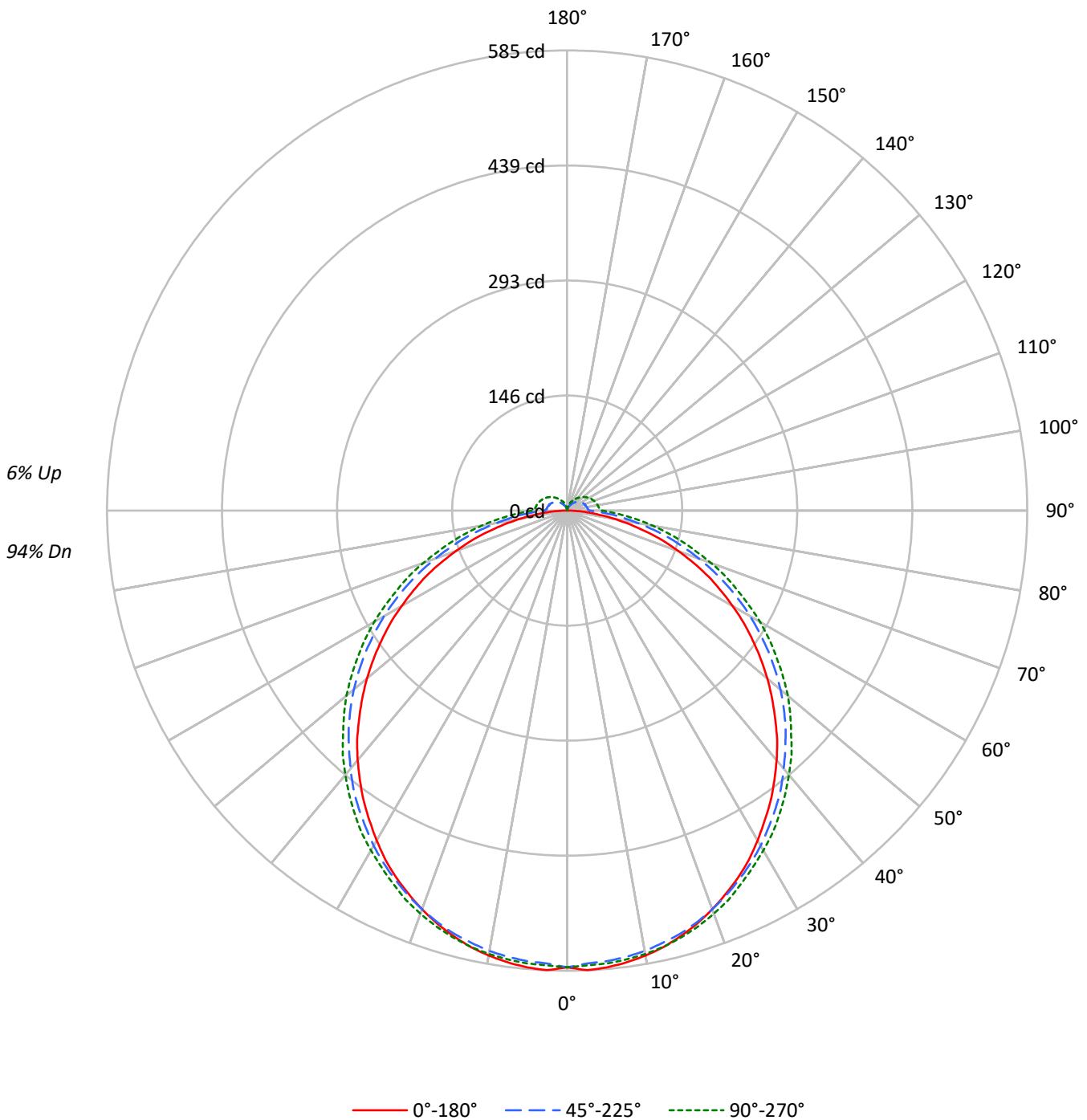
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1845.0 lumens
Efficiency: N/A
Efficacy: 152.5 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

TEST NUMBER: P566088
CATALOG NUMBER: 4SNX-20SL-FDL-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566088

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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°	6250	6250	6250
5°	6293	6146	6156
10°	6267	6079	6078
15°	6220	6002	5991
20°	6155	5909	5889
25°	6082	5807	5768
30°	5982	5703	5657
35°	5882	5581	5540
40°	5771	5446	5409
45°	5631	5313	5256
50°	5496	5161	5117
55°	5329	4972	4923
60°	5141	4757	4733
65°	4940	4499	4469
70°	4599	4177	4196
75°	4187	3798	3869
80°	3576	3291	3508
85°	2814	2855	3082



TEST NUMBER: P566088

CATALOG NUMBER: 4SNX-20SL-FDL-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	3.0
10°-20°	158.0	8.6
20°-30°	239.4	13.0
30°-40°	289.0	15.7
40°-50°	301.8	16.4
50°-60°	277.3	15.0
60°-70°	219.3	11.9
70°-80°	138.8	7.5
80°-90°	59.7	3.2
90°-100°	26.3	1.4
100°-110°	23.5	1.3
110°-120°	19.8	1.1
120°-130°	15.5	0.8
130°-140°	10.7	0.6
140°-150°	6.4	0.3
150°-160°	3.1	0.2
160°-170°	1.1	0.1
170°-180°	0.2	0.0
0°-30°	452.5	24.5
0°-40°	741.5	40.2
0°-60°	1320.7	71.6
0°-90°	1738.4	94.2
90°-120°	69.6	3.8
90°-150°	102.2	5.5
90°-180°	107.0	5.8
0°-180°	1845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	583	581	575	580	578	55
15°	560	560	557	563	562	158
25°	515	517	518	524	523	237
35°	451	456	462	469	471	282
45°	374	383	393	400	403	289
55°	288	300	312	322	325	258
65°	198	209	224	235	238	195
75°	105	117	134	145	151	111
85°	26	39	56	68	72	28
90°	2	14	29	40	44	2
95°	0	12	26	37	40	0
105°	0	11	24	34	38	0
115°	0	10	22	31	34	0
125°	1	8	19	27	30	1
135°	1	6	15	21	24	1
145°	1	5	10	16	18	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: P566088

CATALOG NUMBER: 4SNX-20SL-FDL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	580.6	580.6	580.6	580.6	580.6
2.5°	584.8	582.9	576.3	580.9	578.6
5°	582.9	581.2	575.0	579.9	578.0
7.5°	579.3	578.0	572.4	577.6	575.7
10°	574.4	573.4	568.5	573.7	572.4
12.5°	568.2	567.8	562.9	568.8	567.8
15°	559.7	559.7	556.7	562.6	561.6
17.5°	550.5	550.9	548.6	554.8	554.1
20°	539.4	541.1	539.4	546.0	545.3
22.5°	527.3	529.6	529.0	535.5	535.8
25°	514.6	516.9	517.5	524.4	523.4
27.5°	500.5	504.1	505.4	511.6	511.3
30°	484.2	489.1	492.0	497.3	498.9
32.5°	467.5	473.4	477.0	484.2	486.2
35°	450.9	456.1	462.0	469.2	470.8
37.5°	432.6	438.5	446.3	453.2	455.1
40°	414.3	420.8	428.3	435.8	438.8
42.5°	395.3	402.2	410.4	419.2	422.1
45°	373.8	382.9	392.7	400.2	402.8
47.5°	353.2	363.3	373.8	381.9	384.9
50°	332.3	343.1	354.2	361.7	366.3
52.5°	310.4	322.1	333.3	342.7	345.7
55°	288.2	299.9	312.3	322.5	324.8
57.5°	266.6	278.0	290.5	299.9	304.5
60°	243.1	255.5	268.9	278.4	283.3
62.5°	220.2	232.3	246.7	256.8	260.7
65°	198.3	209.4	224.1	234.6	238.2
67.5°	174.1	186.9	200.9	213.0	217.6
70°	150.3	162.4	178.4	189.8	194.4
72.5°	128.1	139.8	155.8	167.3	171.5
75°	104.6	117.0	134.0	145.4	150.9
77.5°	82.0	95.7	112.1	124.5	130.7
80°	61.1	73.2	90.8	104.6	110.1
82.5°	41.5	54.6	72.9	85.6	91.8
85°	25.5	39.2	56.2	68.3	72.5
87.5°	12.1	25.2	40.8	52.6	57.8
90°	1.6	14.0	28.8	40.2	44.4
92.5°	0.3	12.1	26.5	37.2	41.2
95°	0.3	12.1	26.1	36.6	40.5
97.5°	0.3	11.8	25.8	36.3	39.9
100°	0.3	11.4	25.5	35.6	39.5
102.5°	0.3	11.4	24.8	35.0	38.6
105°	0.3	11.1	24.5	34.3	37.9
107.5°	0.3	10.8	23.9	33.7	37.2
110°	0.3	10.1	23.5	32.7	36.3



TEST NUMBER: P566088

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.3	9.8	22.9	32.0	35.3
115°	0.3	9.5	22.2	31.0	34.3
117.5°	0.3	9.1	21.2	30.1	33.3
120°	0.7	9.1	20.6	29.1	32.0
122.5°	0.7	8.8	19.6	27.8	30.7
125°	0.7	8.5	18.6	26.8	29.7
127.5°	0.7	8.2	17.6	25.5	28.1
130°	0.7	7.5	17.0	24.2	26.8
132.5°	0.7	7.2	16.0	22.5	25.2
135°	0.7	6.5	15.0	21.2	23.9
137.5°	0.7	6.2	14.0	19.9	22.2
140°	0.7	5.9	12.7	18.6	20.9
142.5°	0.7	5.2	11.8	17.3	19.3
145°	0.7	4.9	10.5	16.0	17.6
147.5°	0.7	4.2	9.5	14.7	16.3
150°	0.7	3.9	8.5	13.4	15.0
152.5°	0.7	3.6	7.5	11.8	13.4
155°	0.7	3.3	6.9	10.1	12.1
157.5°	0.7	2.9	5.9	8.8	10.8
160°	1.0	2.6	5.2	7.5	9.1
162.5°	1.0	2.3	4.2	6.2	8.2
165°	1.0	2.3	3.6	4.9	6.9
167.5°	1.0	2.0	2.9	3.9	5.6
170°	1.0	1.6	2.6	2.9	4.2
172.5°	1.0	1.3	2.0	2.0	2.3
175°	1.0	1.3	1.6	1.6	1.0
177.5°	1.0	1.0	1.0	1.0	0.7
180°	1.0	1.0	1.0	1.0	1.0

(END OF REPORT)