

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: P566432

Luminaire Tested: **4SNX-45SL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-45SL-LC-UNV-L840-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

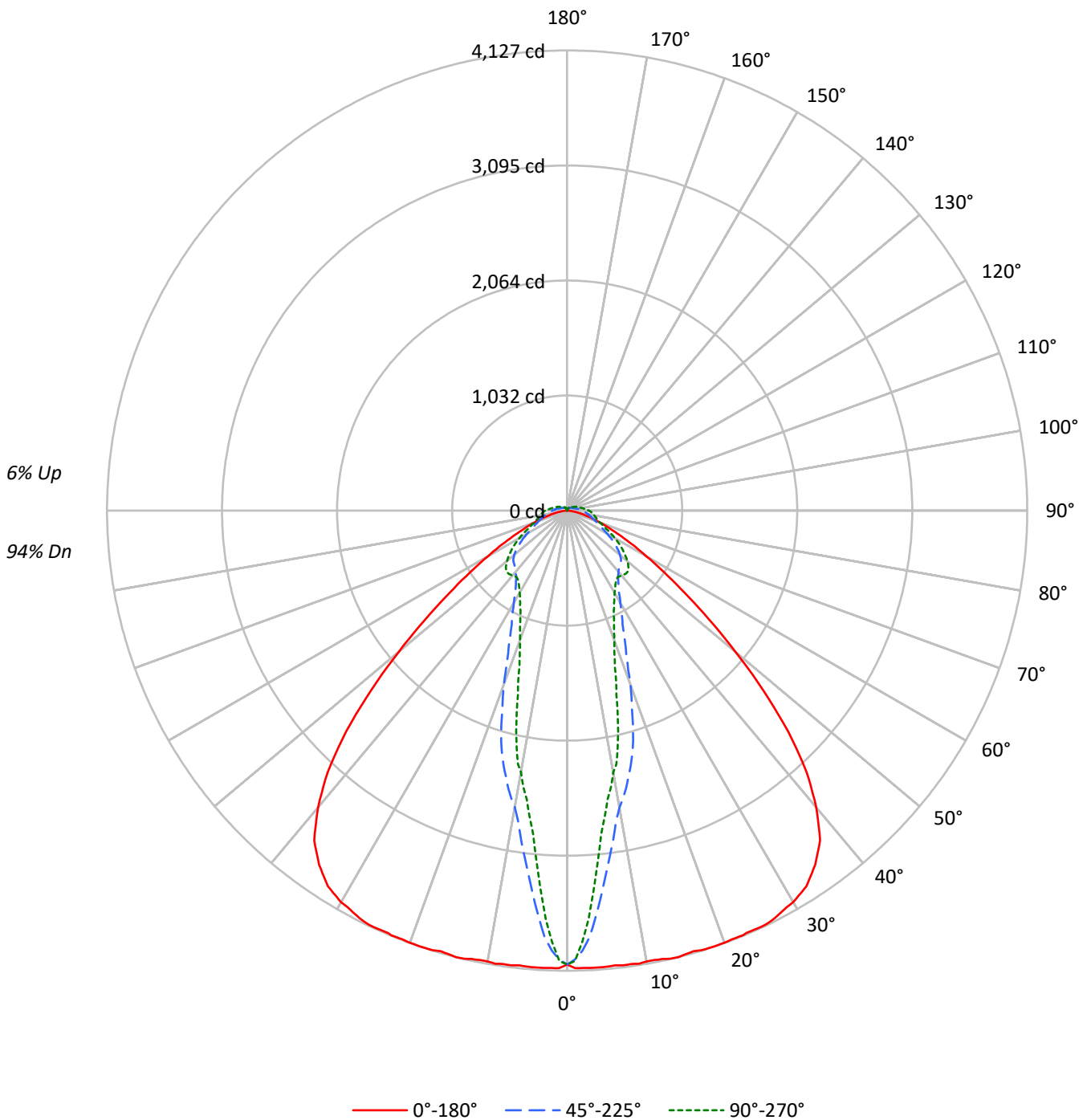
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5018.0 lumens  
Efficiency: N/A  
Efficacy: 168.4 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 29.8  
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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	43818	43818	43818
5°	44213	35990	32215
10°	44560	27169	23315
15°	45373	22208	16144
20°	46543	16070	11402
25°	47996	11513	8970
30°	49221	9199	7639
35°	49514	7781	6842
40°	47203	7073	6859
45°	40962	6834	7046
50°	31425	6499	6575
55°	22774	5684	5834
60°	16523	4744	4933
65°	12025	4011	4043
70°	8859	3542	3486
75°	6295	3280	3250
80°	4126	3071	3201
85°	1933	2927	3205



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.1	6.4
10°-20°	695.2	13.9
20°-30°	795.8	15.9
30°-40°	797.2	15.9
40°-50°	754.6	15.0
50°-60°	578.7	11.5
60°-70°	373.0	7.4
70°-80°	237.9	4.7
80°-90°	158.0	3.1
90°-100°	106.2	2.1
100°-110°	70.0	1.4
110°-120°	48.7	1.0
120°-130°	33.9	0.7
130°-140°	23.6	0.5
140°-150°	14.4	0.3
150°-160°	7.3	0.1
160°-170°	2.8	0.1
170°-180°	0.5	0.0
0°-30°	1811.1	36.1
0°-40°	2608.3	52.0
0°-60°	3941.7	78.5
0°-90°	4710.6	93.9
90°-120°	224.8	4.5
90°-150°	296.8	5.9
90°-180°	307.0	6.1
0°-180°	5018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4071	4071	4071	4071	4071	
5°	4107	3880	3477	3243	3155	392
15°	4117	2965	2260	1857	1708	1168
25°	4120	2098	1196	1039	990	1899
35°	3878	1168	800	774	764	2406
45°	2803	738	674	746	772	2131
55°	1286	527	520	584	607	1182
65°	514	332	327	373	386	529
75°	175	180	226	260	273	192
85°	23	82	159	208	224	32
90°	0	57	134	185	193	1
95°	0	41	111	152	159	0
105°	0	31	72	103	111	2
115°	3	26	54	75	80	3
125°	3	23	46	54	57	2
135°	3	18	36	44	46	2
145°	3	13	26	33	36	2
155°	3	8	15	23	26	1
165°	5	5	10	13	15	1
175°	5	5	5	5	3	0
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4070.8	4070.8	4070.8	4070.8	4070.8
1°	4104.3	4081.1	4027.1	4042.6	4040.0
2°	4104.3	4055.4	3950.0	3919.1	3872.8
3°	4106.8	4011.7	3831.7	3731.4	3667.1
4°	4106.8	3947.4	3656.8	3489.7	3407.4
5°	4106.8	3880.5	3476.8	3242.8	3155.4
6°	4101.7	3800.8	3294.2	3047.3	2916.2
7°	4109.4	3713.4	3129.6	2864.8	2761.9
8°	4106.8	3610.5	2977.9	2725.9	2612.7
9°	4114.6	3510.2	2813.3	2594.7	2509.9
10°	4106.8	3417.7	2705.3	2471.3	2383.9
11°	4106.8	3327.7	2628.2	2391.6	2317.0
12°	4112.0	3224.8	2543.3	2278.4	2175.6
13°	4124.8	3119.4	2445.6	2155.0	2034.1
14°	4127.4	3039.6	2355.6	1998.1	1872.1
15°	4117.1	2965.1	2260.4	1856.7	1707.5
16°	4112.0	2887.9	2147.3	1723.0	1589.2
17°	4122.3	2797.9	2018.7	1586.7	1463.2
18°	4124.8	2715.6	1882.4	1483.8	1375.8
19°	4124.8	2651.3	1771.8	1388.7	1296.1
20°	4124.8	2589.6	1658.7	1316.7	1236.9
21°	4119.7	2512.5	1530.1	1242.1	1175.2
22.5°	4122.3	2368.4	1383.5	1154.6	1100.6
23°	4114.6	2332.4	1347.5	1131.5	1074.9
24°	4117.1	2229.6	1270.4	1085.2	1031.2
25°	4119.7	2098.4	1195.8	1038.9	990.1
26°	4114.6	1993.0	1134.1	995.2	961.8
27°	4101.7	1908.1	1090.4	959.2	928.3
28°	4083.7	1795.0	1044.1	928.3	900.1
29°	4065.7	1666.4	997.8	894.9	874.3
30°	4055.4	1563.5	954.1	869.2	851.2
32.5°	3993.7	1360.4	864.1	817.8	802.3
35°	3878.0	1167.5	799.8	774.1	763.8
37.5°	3726.3	1018.4	750.9	745.8	748.3
40°	3476.8	900.1	714.9	738.0	761.2
42.5°	3178.5	807.5	689.2	745.8	771.5
45°	2803.0	738.0	673.8	745.8	771.5
47.5°	2386.4	681.5	655.8	720.0	745.8
50°	1969.8	630.0	619.8	681.5	704.6
52.5°	1602.1	581.2	573.5	632.6	655.8
55°	1285.8	527.2	519.5	583.8	606.9
57.5°	1031.2	475.7	468.0	527.2	550.3
60°	822.9	424.3	411.5	470.6	493.7
62.5°	655.8	375.5	367.7	419.2	439.7
65°	514.3	331.7	326.6	372.9	385.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	406.3	290.6	293.2	331.7	347.2
70°	313.7	252.0	267.4	303.4	313.7
72.5°	236.6	213.4	246.9	277.7	290.6
75°	174.9	180.0	226.3	259.7	272.6
77.5°	120.9	149.2	208.3	244.3	257.2
80°	82.3	120.9	190.3	231.4	246.9
82.5°	48.9	100.3	174.9	218.6	236.6
85°	23.1	82.3	159.4	208.3	223.7
87.5°	7.7	66.9	144.0	198.0	210.9
90°	0.0	56.6	133.7	185.2	192.9
92.5°	0.0	48.9	120.9	169.7	174.9
95°	0.0	41.1	110.6	151.7	159.4
97.5°	0.0	38.6	102.9	136.3	146.6
100°	0.0	36.0	92.6	123.4	133.7
102.5°	0.0	30.9	82.3	110.6	120.9
105°	0.0	30.9	72.0	102.9	110.6
107.5°	2.6	28.3	66.9	92.6	102.9
110°	2.6	28.3	59.1	87.4	95.1
112.5°	2.6	28.3	56.6	79.7	90.0
115°	2.6	25.7	54.0	74.6	79.7
117.5°	2.6	25.7	51.4	66.9	72.0
120°	2.6	23.1	48.9	61.7	64.3
122.5°	2.6	23.1	46.3	56.6	59.1
125°	2.6	23.1	46.3	54.0	56.6
127.5°	2.6	20.6	43.7	51.4	51.4
130°	2.6	20.6	41.1	48.9	48.9
132.5°	2.6	18.0	38.6	46.3	48.9
135°	2.6	18.0	36.0	43.7	46.3
137.5°	2.6	15.4	33.4	41.1	43.7
140°	2.6	15.4	30.9	38.6	41.1
142.5°	2.6	12.9	28.3	36.0	38.6
145°	2.6	12.9	25.7	33.4	36.0
147.5°	2.6	12.9	23.1	30.9	33.4
150°	2.6	10.3	20.6	28.3	30.9
152.5°	2.6	10.3	18.0	25.7	28.3
155°	2.6	7.7	15.4	23.1	25.7
157.5°	2.6	7.7	15.4	20.6	23.1
160°	5.1	7.7	12.9	18.0	20.6
162.5°	2.6	5.1	12.9	15.4	18.0
165°	5.1	5.1	10.3	12.9	15.4
167.5°	5.1	5.1	7.7	10.3	12.9
170°	5.1	5.1	7.7	7.7	10.3
172.5°	5.1	5.1	5.1	7.7	5.1
175°	5.1	5.1	5.1	5.1	2.6
177.5°	5.1	5.1	5.1	5.1	2.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)