

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: P566960

Luminaire Tested: **4SNX-90HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-90HL-LC-UNV-L840-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

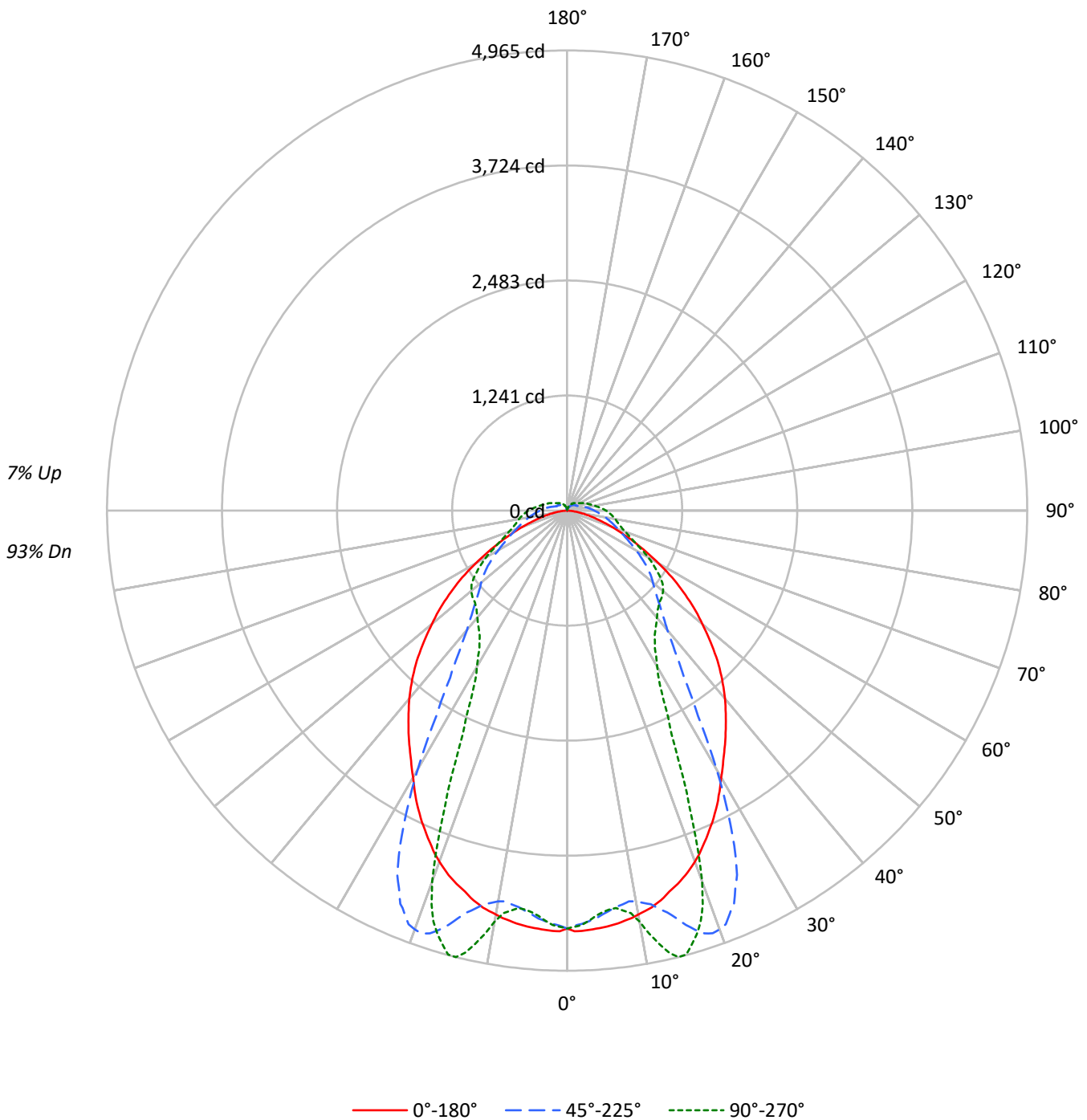
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10021.0 lumens  
Efficiency: N/A  
Efficacy: 155.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 64.4  
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

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

	0°	45°	90°
0°	48534	48534	48534
5°	48591	45296	44426
10°	48010	43009	44054
15°	46893	44736	46898
20°	45474	46590	39250
25°	43190	41762	24134
30°	40352	31080	17467
35°	38034	21434	14735
40°	35958	16621	13580
45°	33538	14136	12842
50°	30390	12675	12607
55°	27073	11449	11664
60°	22826	9894	10089
65°	18424	8604	8421
70°	14300	7720	7414
75°	10902	7163	6914
80°	7441	6766	6844
85°	3840	6435	6795



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.6	4.2
10°-20°	1282.1	12.8
20°-30°	1726.3	17.2
30°-40°	1633.8	16.3
40°-50°	1442.0	14.4
50°-60°	1171.2	11.7
60°-70°	796.6	7.9
70°-80°	512.6	5.1
80°-90°	340.8	3.4
90°-100°	234.2	2.3
100°-110°	157.2	1.6
110°-120°	110.9	1.1
120°-130°	79.2	0.8
130°-140°	55.9	0.6
140°-150°	34.7	0.3
150°-160°	16.9	0.2
160°-170°	5.9	0.1
170°-180°	1.0	0.0
0°-30°	3427.9	34.2
0°-40°	5061.7	50.5
0°-60°	7675.0	76.6
0°-90°	9324.9	93.1
90°-120°	502.4	5.0
90°-150°	672.2	6.7
90°-180°	696.0	6.9
0°-180°	10021.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4509	4509	4509	4509	4509	
5°	4514	4472	4376	4373	4351	428
15°	4255	4227	4553	4956	4960	1200
25°	3707	4396	4338	3150	2664	1701
35°	2979	4180	2203	1697	1645	1864
45°	2295	2812	1394	1377	1406	1762
55°	1528	1663	1046	1169	1213	1365
65°	788	897	701	779	803	791
75°	303	424	494	554	580	330
85°	46	180	350	444	474	60
90°	2	126	292	393	419	3
95°	2	96	246	334	356	1
105°	3	67	162	228	256	3
115°	3	58	119	170	191	4
125°	5	49	102	128	138	4
135°	6	38	84	107	113	5
145°	6	28	60	83	90	4
155°	8	17	37	55	63	4
165°	8	11	20	28	34	2
175°	9	9	9	9	8	1
180°	8	8	8	8	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4509.0	4509.0	4509.0	4509.0	4509.0
1°	4539.6	4525.8	4479.9	4504.4	4492.1
2°	4538.0	4515.1	4463.1	4490.6	4475.3
3°	4530.4	4505.9	4438.6	4455.4	4432.5
4°	4522.7	4493.7	4412.6	4412.6	4386.6
5°	4513.5	4472.2	4375.8	4372.8	4351.4
6°	4502.8	4455.4	4343.7	4340.7	4328.4
7°	4487.5	4426.3	4308.5	4329.9	4320.8
8°	4469.2	4398.8	4290.2	4343.7	4357.5
9°	4452.3	4365.1	4268.7	4386.6	4397.3
10°	4424.8	4334.5	4282.5	4472.2	4504.4
11°	4401.9	4308.5	4313.1	4556.4	4652.8
12°	4378.9	4281.0	4342.2	4662.0	4779.8
13°	4340.7	4259.6	4406.4	4776.7	4897.6
14°	4307.0	4242.7	4469.2	4893.0	4964.9
15°	4255.0	4227.4	4553.3	4955.7	4960.3
16°	4219.8	4216.7	4651.2	4960.3	4874.6
17°	4180.0	4212.1	4730.8	4880.8	4779.8
18°	4135.6	4221.3	4796.6	4781.3	4665.0
19°	4085.1	4230.5	4824.1	4643.6	4493.7
20°	4030.1	4244.3	4808.8	4499.8	4258.0
21°	3975.0	4262.6	4779.8	4348.3	3949.0
22.5°	3872.5	4307.0	4642.1	3923.0	3437.9
23°	3843.4	4316.2	4609.9	3789.8	3304.8
24°	3771.5	4354.4	4463.1	3479.3	2952.9
25°	3707.2	4395.7	4337.6	3150.3	2663.8
26°	3635.3	4426.3	4147.9	2847.4	2486.3
27°	3564.9	4444.7	3932.1	2611.7	2287.4
28°	3483.8	4464.6	3698.0	2408.2	2137.4
29°	3407.3	4467.6	3467.0	2246.1	2019.6
30°	3324.7	4452.3	3223.7	2116.0	1946.2
32.5°	3144.2	4368.2	2628.6	1868.1	1762.6
35°	2978.9	4180.0	2203.2	1696.8	1644.8
37.5°	2812.2	3883.2	1904.9	1589.7	1572.9
40°	2648.5	3531.3	1680.0	1504.0	1507.1
42.5°	2475.6	3168.7	1525.4	1433.6	1447.4
45°	2295.0	2812.2	1393.8	1377.0	1406.1
47.5°	2094.6	2486.3	1289.8	1340.3	1384.7
50°	1904.9	2163.4	1208.7	1305.1	1351.0
52.5°	1724.3	1898.7	1135.3	1245.4	1299.0
55°	1528.5	1663.1	1046.5	1168.9	1213.3
57.5°	1341.8	1450.5	953.2	1074.1	1113.9
60°	1136.8	1240.8	858.3	971.6	1009.8
62.5°	951.7	1061.8	777.2	869.0	899.6
65°	788.0	896.6	700.7	778.8	803.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	642.6	758.9	638.0	703.8	726.8
70°	506.4	628.8	582.9	642.6	667.1
72.5°	396.3	520.2	537.0	592.1	616.6
75°	302.9	423.8	494.2	553.9	579.9
77.5°	224.9	345.8	454.4	523.3	550.8
80°	148.4	275.4	419.2	495.7	527.9
82.5°	93.3	221.9	384.0	468.2	501.8
85°	45.9	180.5	350.4	443.7	474.3
87.5°	15.3	149.9	319.8	419.2	445.2
90°	1.5	125.5	292.2	393.2	419.2
92.5°	1.5	108.6	269.3	362.6	388.6
95°	1.5	96.4	246.3	333.5	356.5
97.5°	1.5	87.2	224.9	302.9	327.4
100°	1.5	78.0	202.0	273.9	299.9
102.5°	3.1	71.9	182.1	249.4	276.9
105°	3.1	67.3	162.2	228.0	255.5
107.5°	3.1	64.3	145.4	211.1	237.2
110°	3.1	61.2	133.1	195.8	223.4
112.5°	3.1	59.7	125.5	182.1	208.1
115°	3.1	58.1	119.3	169.8	191.3
117.5°	4.6	56.6	114.8	157.6	174.4
120°	4.6	53.6	111.7	146.9	160.7
122.5°	4.6	50.5	107.1	137.7	148.4
125°	4.6	49.0	102.5	128.5	137.7
127.5°	4.6	45.9	97.9	120.9	130.1
130°	6.1	42.8	93.3	114.8	122.4
132.5°	6.1	39.8	88.7	111.7	117.8
135°	6.1	38.3	84.2	107.1	113.2
137.5°	6.1	35.2	79.6	102.5	108.6
140°	6.1	32.1	73.4	96.4	102.5
142.5°	6.1	30.6	67.3	90.3	96.4
145°	6.1	27.5	59.7	82.6	90.3
147.5°	7.7	26.0	53.6	76.5	82.6
150°	7.7	23.0	47.4	70.4	76.5
152.5°	7.7	19.9	41.3	62.7	68.9
155°	7.7	16.8	36.7	55.1	62.7
157.5°	7.7	15.3	32.1	45.9	55.1
160°	7.7	13.8	27.5	39.8	47.4
162.5°	7.7	12.2	24.5	33.7	41.3
165°	7.7	10.7	19.9	27.5	33.7
167.5°	9.2	10.7	16.8	21.4	27.5
170°	9.2	10.7	13.8	16.8	21.4
172.5°	9.2	9.2	10.7	12.2	13.8
175°	9.2	9.2	9.2	9.2	7.7
177.5°	9.2	9.2	9.2	7.7	7.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	7.7	7.7	7.7	7.7	7.7

(END OF REPORT)