

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: P566984

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-90HL-SLW-UNV-L840-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

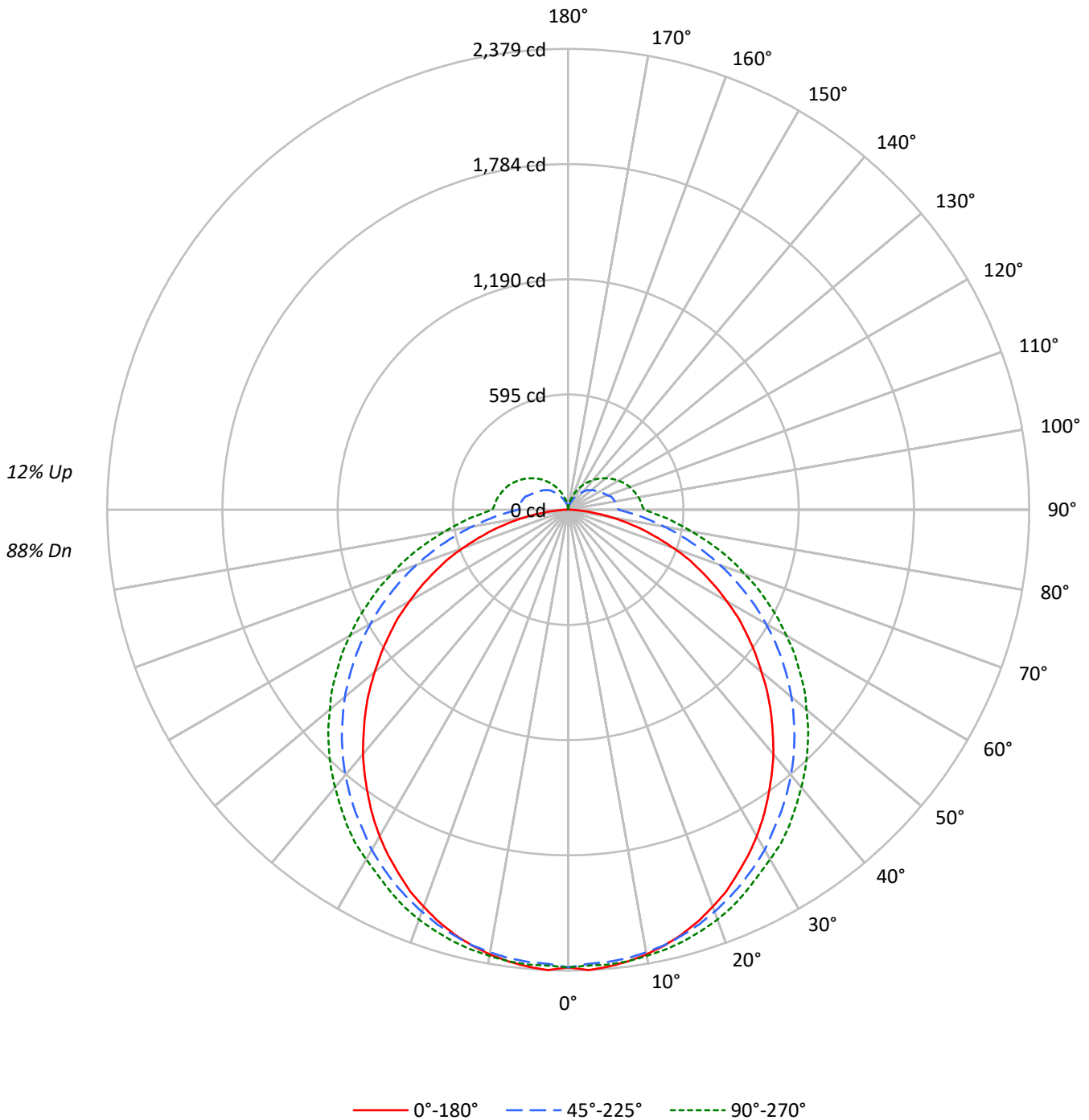
Lumens per Lamp: N/A  
Luminaire Lumens: 8506.0 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 64.4  
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

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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

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

	0°	45°	90°
0°	25431	25431	25431
5°	25545	24783	24747
10°	25381	24293	24154
15°	25150	23766	23596
20°	24791	23189	23014
25°	24364	22610	22351
30°	23901	22029	21740
35°	23319	21379	21214
40°	22752	20784	20571
45°	22070	20125	19959
50°	21280	19423	19260
55°	20523	18604	18562
60°	19644	17715	17759
65°	18576	16701	16904
70°	17218	15559	15919
75°	15293	14243	15015
80°	12601	12939	13875
85°	8725	11773	13131



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.3	2.6
10°-20°	645.2	7.6
20°-30°	981.5	11.5
30°-40°	1193.4	14.0
40°-50°	1262.6	14.8
50°-60°	1183.5	13.9
60°-70°	973.7	11.4
70°-80°	673.7	7.9
80°-90°	374.6	4.4
90°-100°	246.8	2.9
100°-110°	221.3	2.6
110°-120°	183.2	2.2
120°-130°	141.6	1.7
130°-140°	100.2	1.2
140°-150°	60.5	0.7
150°-160°	29.0	0.3
160°-170°	9.5	0.1
170°-180°	1.2	0.0
0°-30°	1851.0	21.8
0°-40°	3044.5	35.8
0°-60°	5490.7	64.6
0°-90°	7512.7	88.3
90°-120°	651.3	7.7
90°-150°	953.6	11.2
90°-180°	993.0	11.7
0°-180°	8506.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2363	2363	2363	2363	2363	
5°	2368	2364	2344	2363	2357	225
15°	2269	2277	2275	2306	2306	640
25°	2071	2100	2125	2172	2173	955
35°	1800	1848	1911	1972	1990	1127
45°	1480	1557	1652	1726	1746	1141
55°	1126	1226	1344	1429	1458	1008
65°	762	871	1006	1106	1136	755
75°	396	511	661	766	808	420
85°	87	217	367	469	510	101
90°	2	122	259	357	392	6
95°	2	116	252	345	379	1
105°	2	100	236	325	354	2
115°	3	87	200	288	320	2
125°	3	74	170	246	277	3
135°	3	58	143	202	227	2
145°	3	42	99	153	172	2
155°	4	29	61	98	114	2
165°	4	19	34	45	58	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2362.6	2362.6	2362.6	2362.6	2362.6
2.5°	2378.7	2371.4	2346.6	2362.6	2355.4
5°	2368.5	2364.1	2343.7	2362.6	2356.8
7.5°	2352.4	2351.0	2335.0	2356.8	2351.0
10°	2330.6	2333.5	2320.4	2343.7	2339.3
12.5°	2302.9	2307.3	2301.5	2327.7	2324.8
15°	2269.4	2276.7	2275.2	2305.8	2305.8
17.5°	2228.6	2238.8	2244.7	2279.6	2279.6
20°	2180.6	2196.6	2208.2	2246.1	2251.9
22.5°	2132.5	2151.4	2168.9	2208.2	2217.0
25°	2071.3	2100.4	2125.2	2171.8	2173.3
27.5°	2011.6	2043.6	2077.1	2122.3	2126.7
30°	1946.0	1986.8	2027.6	2071.3	2084.4
32.5°	1876.1	1921.3	1966.4	2024.7	2042.2
35°	1800.4	1848.5	1911.1	1972.3	1989.7
37.5°	1724.6	1778.5	1851.4	1914.0	1930.0
40°	1647.4	1707.2	1788.7	1852.8	1871.8
42.5°	1561.5	1634.3	1721.7	1790.2	1812.0
45°	1479.9	1557.1	1651.8	1726.1	1746.5
47.5°	1394.0	1475.6	1577.5	1656.2	1679.5
50°	1302.2	1395.4	1504.7	1583.3	1605.2
52.5°	1216.3	1311.0	1426.0	1507.6	1538.2
55°	1126.0	1226.5	1344.5	1428.9	1458.1
57.5°	1041.5	1137.6	1264.3	1348.8	1385.2
60°	945.3	1051.7	1178.4	1270.2	1299.3
62.5°	855.0	962.8	1093.9	1188.6	1222.1
65°	761.8	871.1	1006.5	1105.6	1136.2
67.5°	674.4	782.2	920.6	1018.2	1057.5
70°	578.3	691.9	833.2	933.7	967.2
72.5°	483.6	601.6	745.8	853.6	891.5
75°	396.2	511.3	661.3	766.2	808.4
77.5°	311.7	428.2	579.7	687.5	723.9
80°	227.2	349.6	504.0	610.3	645.3
82.5°	150.0	278.2	431.2	537.5	575.4
85°	87.4	217.0	367.1	469.0	509.8
87.5°	37.9	164.6	307.3	407.9	441.4
90°	1.5	122.4	259.3	356.9	391.8
92.5°	1.5	119.4	253.5	349.6	383.1
95°	1.5	116.5	252.0	345.2	378.7
97.5°	1.5	115.1	249.1	342.3	374.4
100°	1.5	110.7	244.7	336.5	368.5
102.5°	1.5	104.9	240.3	330.7	361.2
105°	1.5	100.5	236.0	324.8	354.0
107.5°	1.5	96.1	228.7	317.5	346.7
110°	1.5	91.8	217.0	310.3	339.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	90.3	208.3	300.1	330.7
115°	2.9	87.4	199.6	288.4	320.5
117.5°	2.9	85.9	192.3	276.8	310.3
120°	2.9	81.6	185.0	266.6	298.6
122.5°	2.9	77.2	177.7	256.4	288.4
125°	2.9	74.3	170.4	246.2	276.8
127.5°	2.9	69.9	164.6	236.0	263.6
130°	2.9	67.0	157.3	224.3	252.0
132.5°	2.9	62.6	150.0	212.7	238.9
135°	2.9	58.3	142.7	202.5	227.2
137.5°	2.9	52.4	134.0	190.8	214.1
140°	2.9	48.1	122.4	179.2	201.0
142.5°	2.9	45.2	110.7	166.1	186.4
145°	2.9	42.2	99.1	152.9	171.9
147.5°	2.9	39.3	88.9	139.8	157.3
150°	2.9	35.0	78.7	128.2	142.7
152.5°	4.4	32.0	69.9	113.6	128.2
155°	4.4	29.1	61.2	97.6	113.6
157.5°	4.4	26.2	52.4	81.6	99.1
160°	4.4	23.3	45.2	67.0	84.5
162.5°	4.4	21.8	39.3	55.4	71.4
165°	4.4	18.9	33.5	45.2	58.3
167.5°	4.4	14.6	27.7	35.0	48.1
170°	4.4	11.7	21.8	24.8	36.4
172.5°	4.4	8.7	16.0	17.5	18.9
175°	4.4	7.3	10.2	10.2	5.8
177.5°	4.4	5.8	5.8	5.8	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)