

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: P566828

Luminaire Tested: **4SNX-81HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-81HL-LN-UNV-L940-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

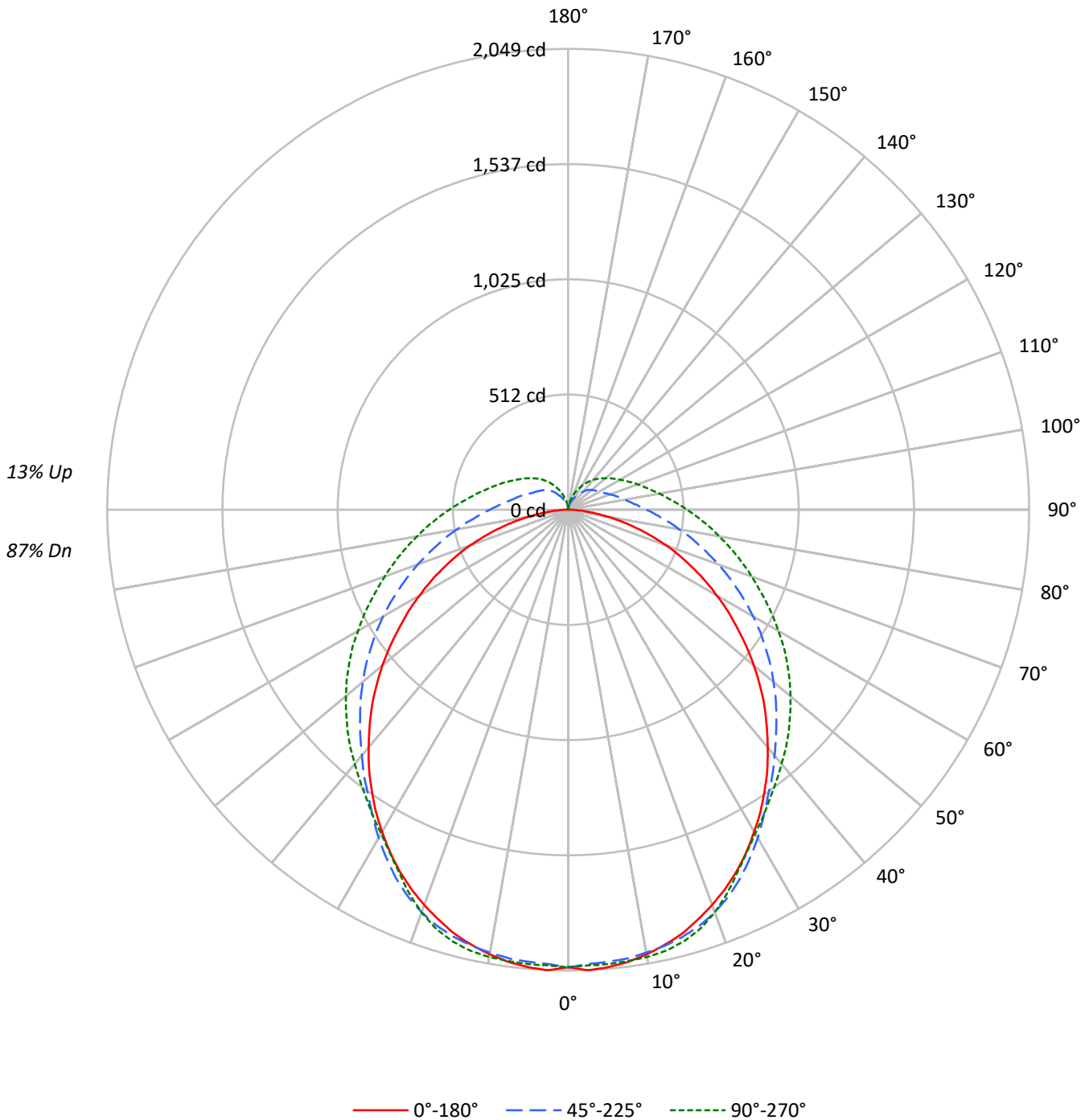
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7344.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 55.1  
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

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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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87				
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68				
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56				
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46				
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39				
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34				
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29				
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26				
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23				
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21				
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19				

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

	0°	45°	90°
0°	21898	21898	21898
5°	21983	20891	20707
10°	21776	20082	19751
15°	21515	19315	18787
20°	21101	18456	17559
25°	20656	17418	16120
30°	20068	16253	14918
35°	19442	15068	14020
40°	18729	14116	13294
45°	18032	13272	12668
50°	17201	12494	12037
55°	16232	11714	11419
60°	15300	10936	10772
65°	14264	10152	10180
70°	13080	9416	9645
75°	11247	8698	9203
80°	8865	8078	8829
85°	5940	7636	8616



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.3	2.6
10°-20°	555.7	7.6
20°-30°	827.4	11.3
30°-40°	976.3	13.3
40°-50°	1018.2	13.9
50°-60°	956.8	13.0
60°-70°	808.1	11.0
70°-80°	610.5	8.3
80°-90°	420.9	5.7
90°-100°	294.5	4.0
100°-110°	219.8	3.0
110°-120°	165.7	2.3
120°-130°	123.6	1.7
130°-140°	86.7	1.2
140°-150°	52.4	0.7
150°-160°	25.1	0.3
160°-170°	8.0	0.1
170°-180°	1.0	0.0
0°-30°	1576.4	21.5
0°-40°	2552.7	34.8
0°-60°	4527.7	61.7
0°-90°	6367.2	86.7
90°-120°	680.0	9.3
90°-150°	942.7	12.8
90°-180°	977.0	13.3
0°-180°	7344.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2042	2038	2018	2033	2028	194
15°	1952	1961	1966	1991	1987	550
25°	1773	1809	1809	1793	1779	816
35°	1523	1579	1549	1561	1565	952
45°	1234	1295	1309	1362	1387	950
55°	916	995	1071	1157	1188	822
65°	610	707	827	935	971	606
75°	312	433	600	726	772	333
85°	71	223	416	553	601	80
90°	1	158	347	481	528	5
95°	1	123	294	421	464	1
105°	2	88	227	329	366	2
115°	2	76	176	262	295	3
125°	4	65	148	214	242	3
135°	4	50	123	174	196	3
145°	5	36	86	133	149	3
155°	5	24	52	85	98	2
165°	6	15	27	37	50	2
175°	6	6	8	8	4	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2034.4	2034.4	2034.4	2034.4	2034.4
2.5°	2049.4	2044.4	2022.0	2034.4	2028.2
5°	2041.9	2038.2	2018.2	2033.2	2028.2
7.5°	2028.2	2027.0	2012.0	2029.4	2024.5
10°	2007.0	2010.8	1999.6	2023.2	2019.5
12.5°	1982.1	1989.6	1985.9	2012.0	2008.3
15°	1952.3	1961.0	1965.9	1990.8	1987.1
17.5°	1912.4	1928.6	1939.8	1959.7	1953.5
20°	1870.1	1892.5	1904.9	1914.9	1904.9
22.5°	1824.0	1853.9	1861.4	1856.4	1846.4
25°	1773.0	1809.1	1809.1	1792.9	1779.2
27.5°	1715.7	1760.5	1748.1	1729.4	1718.2
30°	1653.4	1707.0	1685.8	1664.6	1662.2
32.5°	1591.2	1647.2	1616.1	1611.1	1614.8
35°	1522.7	1578.7	1548.9	1561.3	1565.0
37.5°	1454.2	1510.3	1490.3	1509.0	1520.2
40°	1379.5	1439.3	1426.8	1460.5	1475.4
42.5°	1306.1	1368.3	1367.1	1410.7	1433.1
45°	1233.9	1294.9	1308.6	1362.1	1387.0
47.5°	1155.4	1217.7	1251.3	1313.5	1338.4
50°	1078.2	1145.5	1191.5	1261.2	1289.9
52.5°	998.5	1069.5	1133.0	1210.2	1240.1
55°	916.4	994.8	1070.7	1156.7	1187.8
57.5°	842.9	922.6	1012.2	1100.6	1136.7
60°	762.0	850.4	948.7	1042.1	1078.2
62.5°	688.5	779.4	889.0	987.3	1025.9
65°	610.1	707.2	826.7	935.0	971.1
67.5°	537.9	637.5	768.2	877.8	917.6
70°	463.2	569.0	710.9	826.7	867.8
72.5°	386.0	498.0	653.7	776.9	819.2
75°	312.5	433.3	600.1	725.9	771.9
77.5°	244.0	371.0	551.6	681.0	725.9
80°	176.8	315.0	500.5	635.0	681.0
82.5°	117.0	266.4	459.4	593.9	642.4
85°	71.0	222.9	415.8	552.8	601.4
87.5°	32.4	186.8	381.0	516.7	564.0
90°	1.2	158.1	347.4	480.6	527.9
92.5°	1.2	138.2	320.0	449.5	495.5
95°	1.2	123.3	293.8	420.8	464.4
97.5°	1.2	113.3	273.9	393.4	435.8
100°	1.2	103.3	254.0	368.5	412.1
102.5°	2.5	94.6	239.1	346.1	387.2
105°	2.5	88.4	226.6	328.7	366.0
107.5°	2.5	84.7	212.9	311.3	346.1
110°	2.5	80.9	198.0	293.8	328.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	78.4	186.8	278.9	312.5
115°	2.5	75.9	175.6	261.5	295.1
117.5°	2.5	74.7	169.3	247.8	280.1
120°	3.7	71.0	161.9	235.3	266.4
122.5°	3.7	67.2	154.4	225.4	252.7
125°	3.7	64.7	148.2	214.1	241.5
127.5°	3.7	61.0	141.9	204.2	229.1
130°	3.7	57.3	137.0	194.2	217.9
132.5°	3.7	53.5	130.7	184.3	206.7
135°	3.7	49.8	123.3	174.3	195.5
137.5°	3.7	46.1	115.8	164.3	184.3
140°	3.7	42.3	105.8	154.4	173.1
142.5°	3.7	38.6	95.9	144.4	160.6
145°	5.0	36.1	85.9	133.2	149.4
147.5°	5.0	32.4	75.9	122.0	135.7
150°	5.0	29.9	68.5	110.8	123.3
152.5°	5.0	26.1	61.0	98.4	110.8
155°	5.0	23.7	52.3	84.7	98.4
157.5°	5.0	21.2	44.8	71.0	85.9
160°	5.0	19.9	38.6	58.5	73.5
162.5°	6.2	17.4	32.4	47.3	61.0
165°	6.2	14.9	27.4	37.4	49.8
167.5°	6.2	12.5	22.4	28.6	38.6
170°	6.2	10.0	17.4	19.9	29.9
172.5°	6.2	7.5	12.5	13.7	14.9
175°	6.2	6.2	7.5	7.5	3.7
177.5°	6.2	6.2	5.0	3.7	1.2
180°	3.7	3.7	3.7	3.7	3.7

(END OF REPORT)