

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: P566980

Luminaire Tested: **4SNX-90HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566980  
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-LW-UNV-L940-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

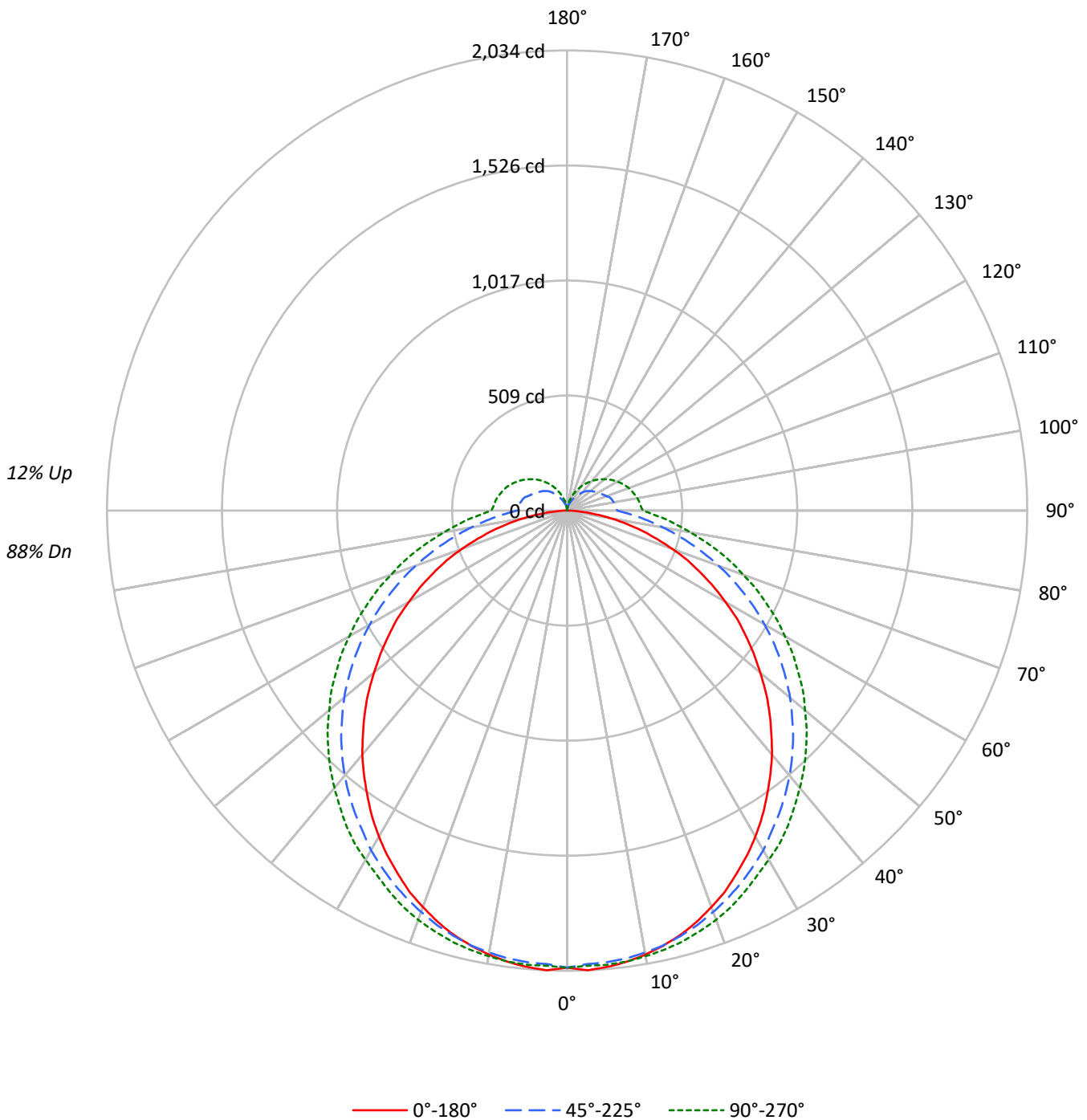
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7273.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 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: 0.17')  
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°	21745	21745	21745
5°	21802	20744	20574
10°	21622	19925	19562
15°	21384	19114	18641
20°	21038	18293	17749
25°	20634	17495	16835
30°	20196	16715	15996
35°	19655	15897	15241
40°	19124	15131	14421
45°	18492	14325	13639
50°	17764	13492	12808
55°	17053	12577	11985
60°	16230	11615	11100
65°	15230	10568	10184
70°	13964	9436	9191
75°	12194	8195	8241
80°	9742	6955	7153
85°	6249	5765	6245



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.8	2.6
10°-20°	551.7	7.6
20°-30°	839.3	11.5
30°-40°	1020.5	14.0
40°-50°	1079.6	14.8
50°-60°	1012.0	13.9
60°-70°	832.5	11.4
70°-80°	576.0	7.9
80°-90°	320.3	4.4
90°-100°	211.0	2.9
100°-110°	189.2	2.6
110°-120°	156.6	2.2
120°-130°	121.1	1.7
130°-140°	85.7	1.2
140°-150°	51.7	0.7
150°-160°	24.8	0.3
160°-170°	8.1	0.1
170°-180°	1.0	0.0
0°-30°	1582.7	21.8
0°-40°	2603.2	35.8
0°-60°	4694.8	64.6
0°-90°	6423.7	88.3
90°-120°	556.9	7.7
90°-150°	815.4	11.2
90°-180°	849.0	11.7
0°-180°	7273.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	2025	2021	2004	2020	2015	192
15°	1940	1947	1945	1972	1972	547
25°	1771	1796	1817	1857	1858	816
35°	1539	1580	1634	1686	1701	963
45°	1265	1331	1412	1476	1493	975
55°	963	1049	1150	1222	1247	862
65°	651	745	861	945	972	646
75°	339	437	565	655	691	359
85°	75	186	314	401	436	86
90°	1	105	222	305	335	5
95°	1	100	216	295	324	1
105°	1	86	202	278	303	1
115°	2	75	171	247	274	2
125°	2	64	146	210	237	2
135°	2	50	122	173	194	2
145°	2	36	85	131	147	2
155°	4	25	52	83	97	2
165°	4	16	29	39	50	1
175°	4	6	9	9	5	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2020.2	2020.2	2020.2	2020.2	2020.2
2.5°	2033.9	2027.6	2006.5	2020.2	2013.9
5°	2025.1	2021.4	2004.0	2020.2	2015.2
7.5°	2011.4	2010.2	1996.5	2015.2	2010.2
10°	1992.8	1995.2	1984.0	2004.0	2000.2
12.5°	1969.1	1972.8	1967.8	1990.3	1987.8
15°	1940.4	1946.7	1945.4	1971.6	1971.6
17.5°	1905.6	1914.3	1919.3	1949.2	1949.2
20°	1864.5	1878.2	1888.1	1920.5	1925.5
22.5°	1823.4	1839.6	1854.5	1888.1	1895.6
25°	1771.1	1796.0	1817.1	1857.0	1858.2
27.5°	1720.0	1747.4	1776.0	1814.7	1818.4
30°	1664.0	1698.8	1733.7	1771.1	1782.3
32.5°	1604.2	1642.8	1681.4	1731.2	1746.2
35°	1539.4	1580.5	1634.1	1686.4	1701.3
37.5°	1474.6	1520.7	1583.0	1636.6	1650.3
40°	1408.6	1459.7	1529.4	1584.2	1600.4
42.5°	1335.1	1397.4	1472.1	1530.7	1549.4
45°	1265.4	1331.4	1412.4	1475.9	1493.3
47.5°	1191.9	1261.7	1348.8	1416.1	1436.0
50°	1113.5	1193.2	1286.6	1353.8	1372.5
52.5°	1040.0	1120.9	1219.3	1289.1	1315.2
55°	962.8	1048.7	1149.6	1221.8	1246.7
57.5°	890.5	972.7	1081.1	1153.3	1184.4
60°	808.3	899.2	1007.6	1086.1	1111.0
62.5°	731.1	823.3	935.4	1016.3	1045.0
65°	651.4	744.8	860.6	945.3	971.5
67.5°	576.7	668.8	787.1	870.6	904.2
70°	494.5	591.6	712.4	798.3	827.0
72.5°	413.5	514.4	637.7	729.8	762.2
75°	338.8	437.2	565.4	655.1	691.2
77.5°	266.5	366.2	495.7	587.9	619.0
80°	194.3	298.9	430.9	521.9	551.7
82.5°	128.3	237.9	368.7	459.6	492.0
85°	74.7	185.6	313.9	401.0	435.9
87.5°	32.4	140.7	262.8	348.7	377.4
90°	1.2	104.6	221.7	305.1	335.0
92.5°	1.2	102.1	216.7	298.9	327.6
95°	1.2	99.6	215.5	295.2	323.8
97.5°	1.2	98.4	213.0	292.7	320.1
100°	1.2	94.7	209.2	287.7	315.1
102.5°	1.2	89.7	205.5	282.7	308.9
105°	1.2	85.9	201.8	277.7	302.7
107.5°	1.2	82.2	195.5	271.5	296.4
110°	1.2	78.5	185.6	265.3	290.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	77.2	178.1	256.6	282.7
115°	2.5	74.7	170.6	246.6	274.0
117.5°	2.5	73.5	164.4	236.6	265.3
120°	2.5	69.7	158.2	227.9	255.3
122.5°	2.5	66.0	151.9	219.2	246.6
125°	2.5	63.5	145.7	210.5	236.6
127.5°	2.5	59.8	140.7	201.8	225.4
130°	2.5	57.3	134.5	191.8	215.5
132.5°	2.5	53.6	128.3	181.8	204.3
135°	2.5	49.8	122.1	173.1	194.3
137.5°	2.5	44.8	114.6	163.2	183.1
140°	2.5	41.1	104.6	153.2	171.9
142.5°	2.5	38.6	94.7	142.0	159.4
145°	2.5	36.1	84.7	130.8	147.0
147.5°	2.5	33.6	76.0	119.6	134.5
150°	2.5	29.9	67.3	109.6	122.1
152.5°	3.7	27.4	59.8	97.1	109.6
155°	3.7	24.9	52.3	83.4	97.1
157.5°	3.7	22.4	44.8	69.7	84.7
160°	3.7	19.9	38.6	57.3	72.2
162.5°	3.7	18.7	33.6	47.3	61.0
165°	3.7	16.2	28.6	38.6	49.8
167.5°	3.7	12.5	23.7	29.9	41.1
170°	3.7	10.0	18.7	21.2	31.1
172.5°	3.7	7.5	13.7	14.9	16.2
175°	3.7	6.2	8.7	8.7	5.0
177.5°	3.7	5.0	5.0	5.0	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)