

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: P566956

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566956  
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-FDL-UNV-L940-CD  
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

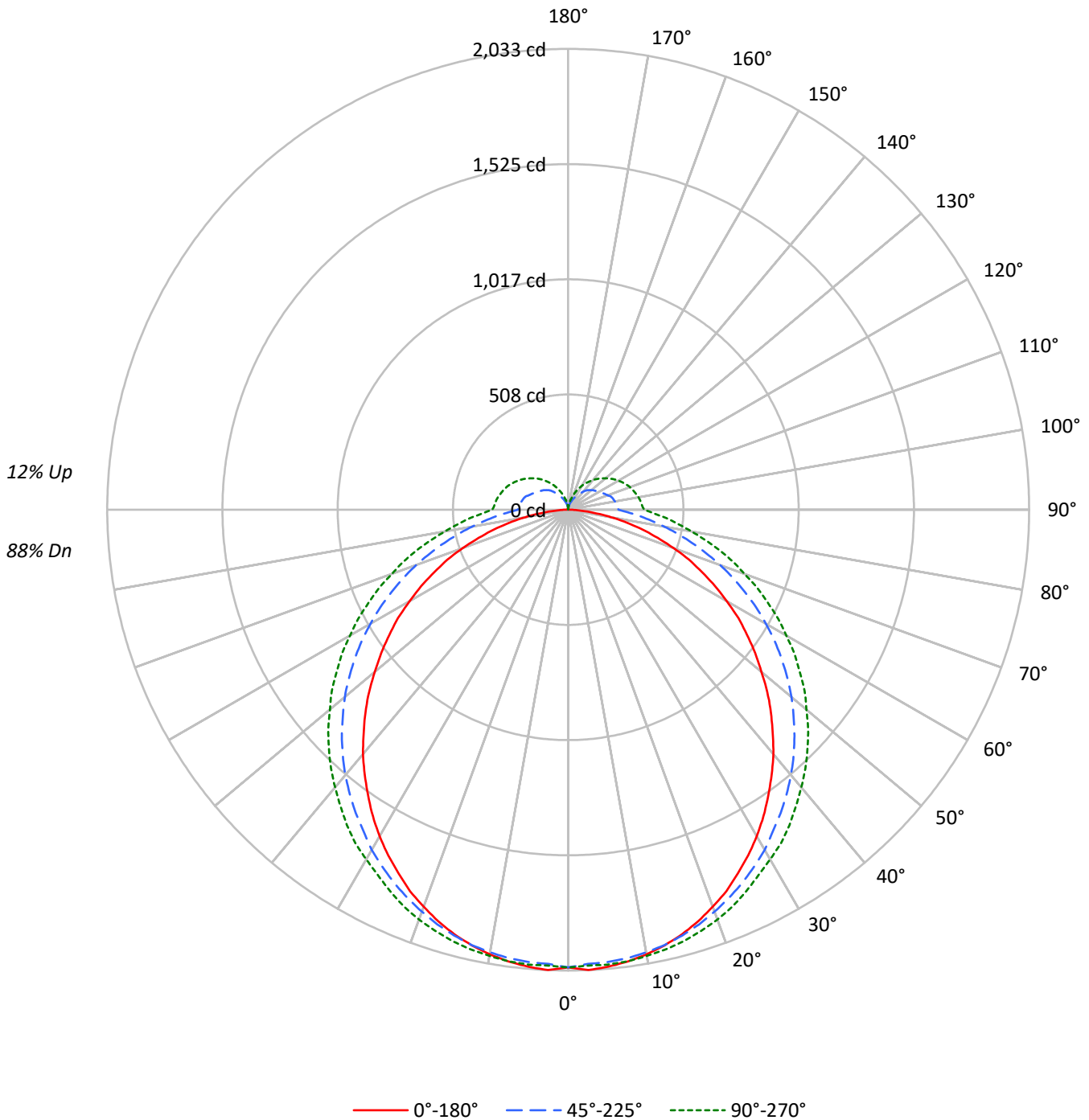
Lumens per Lamp: N/A  
Luminaire Lumens: 7269.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-Direct

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

TEST NUMBER: P566956

CATALOG NUMBER: 4SNX-90HL-FDL-UNV-L940-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P566956

CATALOG NUMBER: 4SNX-90HL-FDL-UNV-L940-CD

**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°	21732	21732	21732
5°	21849	21407	21450
10°	21729	21205	21226
15°	21552	20964	21020
20°	21264	20674	20783
25°	20921	20379	20467
30°	20546	20084	20197
35°	20071	19731	20009
40°	19611	19437	19719
45°	19053	19097	19474
50°	18406	18737	19165
55°	17792	18290	18887
60°	17084	17815	18550
65°	16218	17269	18217
70°	15121	16672	17841
75°	13555	16017	17715
80°	11366	15611	17571
85°	8244	15935	18523



TEST NUMBER: P566956

CATALOG NUMBER: 4SNX-90HL-FDL-UNV-L940-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.7	2.6
10°-20°	551.4	7.6
20°-30°	838.8	11.5
30°-40°	1019.9	14.0
40°-50°	1079.0	14.8
50°-60°	1011.4	13.9
60°-70°	832.1	11.4
70°-80°	575.7	7.9
80°-90°	320.2	4.4
90°-100°	210.9	2.9
100°-110°	189.1	2.6
110°-120°	156.5	2.2
120°-130°	121.0	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°	1581.8	21.8
0°-40°	2601.7	35.8
0°-60°	4692.2	64.6
0°-90°	6420.1	88.3
90°-120°	556.6	7.7
90°-150°	814.9	11.2
90°-180°	849.0	11.7
0°-180°	7269.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2019	2019	2019	2019	2019	
5°	2024	2020	2003	2019	2014	192
15°	1939	1946	1944	1970	1970	547
25°	1770	1795	1816	1856	1857	816
35°	1539	1580	1633	1685	1700	963
45°	1265	1331	1412	1475	1492	975
55°	962	1048	1149	1221	1246	861
65°	651	744	860	945	971	645
75°	339	437	565	655	691	359
85°	75	186	314	401	436	86
90°	1	105	222	305	335	5
95°	1	100	215	295	324	1
105°	1	86	202	278	302	1
115°	2	75	170	246	274	2
125°	2	64	146	210	236	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	



TEST NUMBER: P566956

CATALOG NUMBER: 4SNX-90HL-FDL-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2019.0	2019.0	2019.0	2019.0	2019.0
2.5°	2032.7	2026.5	2005.4	2019.0	2012.8
5°	2024.0	2020.3	2002.9	2019.0	2014.1
7.5°	2010.3	2009.1	1995.4	2014.1	2009.1
10°	1991.7	1994.2	1982.9	2002.9	1999.1
12.5°	1968.0	1971.7	1966.8	1989.2	1986.7
15°	1939.4	1945.6	1944.4	1970.5	1970.5
17.5°	1904.5	1913.2	1918.2	1948.1	1948.1
20°	1863.4	1877.1	1887.1	1919.5	1924.4
22.5°	1822.4	1838.6	1853.5	1887.1	1894.6
25°	1770.1	1795.0	1816.1	1856.0	1857.2
27.5°	1719.1	1746.4	1775.1	1813.7	1817.4
30°	1663.0	1697.9	1732.7	1770.1	1781.3
32.5°	1603.3	1641.9	1680.5	1730.3	1745.2
35°	1538.6	1579.6	1633.2	1685.4	1700.4
37.5°	1473.8	1519.9	1582.1	1635.7	1649.3
40°	1407.9	1458.9	1528.6	1583.4	1599.6
42.5°	1334.4	1396.7	1471.3	1529.8	1548.5
45°	1264.7	1330.7	1411.6	1475.1	1492.5
47.5°	1191.3	1261.0	1348.1	1415.3	1435.2
50°	1112.8	1192.5	1285.9	1353.1	1371.8
52.5°	1039.4	1120.3	1218.6	1288.4	1314.5
55°	962.2	1048.1	1148.9	1221.1	1246.0
57.5°	890.0	972.2	1080.5	1152.7	1183.8
60°	807.9	898.7	1007.0	1085.5	1110.4
62.5°	730.7	822.8	934.8	1015.7	1044.4
65°	651.0	744.4	860.1	944.8	970.9
67.5°	576.3	668.5	786.7	870.1	903.7
70°	494.2	591.3	712.0	797.9	826.5
72.5°	413.3	514.1	637.3	729.4	761.8
75°	338.6	436.9	565.1	654.8	690.9
77.5°	266.4	366.0	495.4	587.5	618.7
80°	194.2	298.7	430.7	521.6	551.4
82.5°	128.2	237.8	368.5	459.3	491.7
85°	74.7	185.5	313.7	400.8	435.7
87.5°	32.4	140.7	262.7	348.5	377.2
90°	1.2	104.6	221.6	305.0	334.8
92.5°	1.2	102.1	216.6	298.7	327.4
95°	1.2	99.6	215.3	295.0	323.6
97.5°	1.2	98.3	212.9	292.5	319.9
100°	1.2	94.6	209.1	287.5	314.9
102.5°	1.2	89.6	205.4	282.6	308.7
105°	1.2	85.9	201.7	277.6	302.5
107.5°	1.2	82.2	195.4	271.4	296.3
110°	1.2	78.4	185.5	265.1	290.0



TEST NUMBER: P566956

CATALOG NUMBER: 4SNX-90HL-FDL-UNV-L940-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	77.2	178.0	256.4	282.6
115°	2.5	74.7	170.5	246.5	273.9
117.5°	2.5	73.4	164.3	236.5	265.1
120°	2.5	69.7	158.1	227.8	255.2
122.5°	2.5	66.0	151.9	219.1	246.5
125°	2.5	63.5	145.6	210.4	236.5
127.5°	2.5	59.7	140.7	201.7	225.3
130°	2.5	57.3	134.4	191.7	215.3
132.5°	2.5	53.5	128.2	181.7	204.1
135°	2.5	49.8	122.0	173.0	194.2
137.5°	2.5	44.8	114.5	163.1	183.0
140°	2.5	41.1	104.6	153.1	171.8
142.5°	2.5	38.6	94.6	141.9	159.3
145°	2.5	36.1	84.6	130.7	146.9
147.5°	2.5	33.6	75.9	119.5	134.4
150°	2.5	29.9	67.2	109.5	122.0
152.5°	3.7	27.4	59.7	97.1	109.5
155°	3.7	24.9	52.3	83.4	97.1
157.5°	3.7	22.4	44.8	69.7	84.6
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	12.4	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)