

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: P566954

Luminaire Tested: **4SNX-90HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566954
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-L930-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

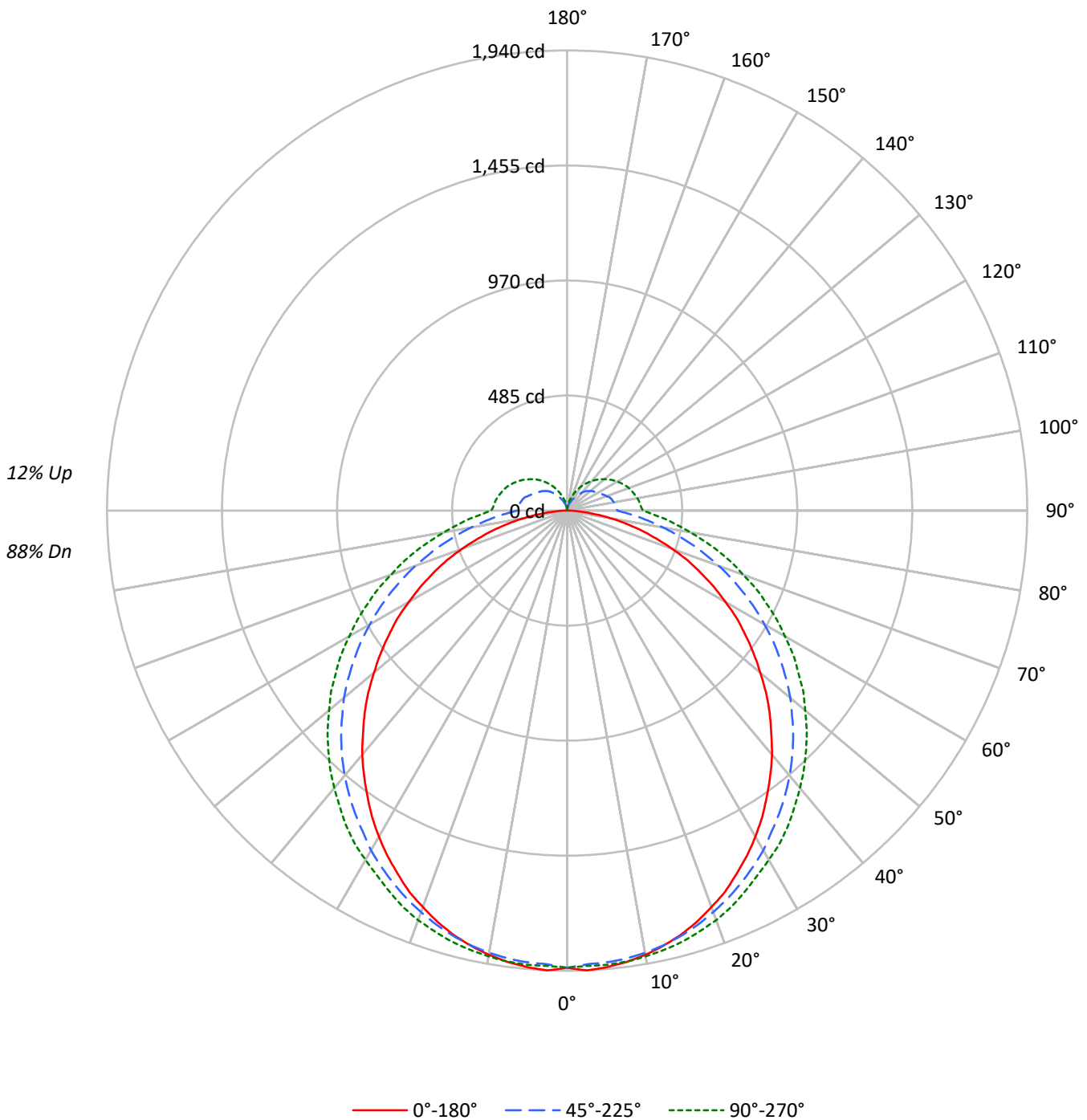
Lumens per Lamp: N/A
Luminaire Lumens: 6939.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	20746	20746	20746
5°	20857	20434	20475
10°	20742	20242	20263
15°	20573	20012	20065
20°	20300	19735	19840
25°	19971	19455	19538
30°	19613	19173	19279
35°	19159	18834	19100
40°	18720	18554	18823
45°	18189	18230	18589
50°	17571	17886	18295
55°	16984	17460	18031
60°	16308	17006	17706
65°	15483	16486	17392
70°	14432	15916	17032
75°	12938	15291	16910
80°	10851	14901	16774
85°	7869	15209	17681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	2.6
10°-20°	526.3	7.6
20°-30°	800.7	11.5
30°-40°	973.6	14.0
40°-50°	1030.0	14.8
50°-60°	965.5	13.9
60°-70°	794.3	11.4
70°-80°	549.6	7.9
80°-90°	305.6	4.4
90°-100°	201.3	2.9
100°-110°	180.5	2.6
110°-120°	149.4	2.2
120°-130°	115.5	1.7
130°-140°	81.8	1.2
140°-150°	49.3	0.7
150°-160°	23.7	0.3
160°-170°	7.8	0.1
170°-180°	0.9	0.0
0°-30°	1510.0	21.8
0°-40°	2483.6	35.8
0°-60°	4479.2	64.6
0°-90°	6128.6	88.3
90°-120°	531.3	7.7
90°-150°	778.0	11.2
90°-180°	810.0	11.7
0°-180°	6939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1927	1927	1927	1927	1927	
5°	1932	1929	1912	1927	1923	183
15°	1851	1857	1856	1881	1881	522
25°	1690	1714	1734	1772	1773	779
35°	1469	1508	1559	1609	1623	919
45°	1207	1270	1348	1408	1425	931
55°	918	1000	1097	1166	1190	822
65°	622	711	821	902	927	616
75°	323	417	540	625	660	343
85°	71	177	299	383	416	82
90°	1	100	212	291	320	5
95°	1	95	206	282	309	1
105°	1	82	192	265	289	1
115°	2	71	163	235	261	2
125°	2	61	139	201	226	2
135°	2	48	116	165	185	2
145°	2	34	81	125	140	2
155°	4	24	50	80	93	2
165°	4	15	27	37	48	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1927.4	1927.4	1927.4	1927.4	1927.4
2.5°	1940.5	1934.5	1914.3	1927.4	1921.4
5°	1932.1	1928.6	1911.9	1927.4	1922.6
7.5°	1919.1	1917.9	1904.8	1922.6	1917.9
10°	1901.2	1903.6	1892.9	1911.9	1908.4
12.5°	1878.7	1882.2	1877.5	1898.9	1896.5
15°	1851.3	1857.3	1856.1	1881.0	1881.0
17.5°	1818.1	1826.4	1831.1	1859.7	1859.7
20°	1778.9	1791.9	1801.4	1832.3	1837.1
22.5°	1739.6	1755.1	1769.3	1801.4	1808.6
25°	1689.7	1713.5	1733.7	1771.7	1772.9
27.5°	1641.0	1667.2	1694.5	1731.3	1734.9
30°	1587.5	1620.8	1654.1	1689.7	1700.4
32.5°	1530.5	1567.3	1604.2	1651.7	1666.0
35°	1468.7	1507.9	1559.0	1608.9	1623.2
37.5°	1406.9	1450.9	1510.3	1561.4	1574.5
40°	1343.9	1392.7	1459.2	1511.5	1526.9
42.5°	1273.8	1333.2	1404.5	1460.4	1478.2
45°	1207.3	1270.3	1347.5	1408.1	1424.7
47.5°	1137.2	1203.7	1286.9	1351.1	1370.1
50°	1062.3	1138.4	1227.5	1291.7	1309.5
52.5°	992.2	1069.4	1163.3	1229.9	1254.8
55°	918.5	1000.5	1096.8	1165.7	1189.5
57.5°	849.6	928.0	1031.4	1100.3	1130.1
60°	771.2	857.9	961.3	1036.2	1059.9
62.5°	697.5	785.5	892.4	969.6	997.0
65°	621.5	710.6	821.1	901.9	926.9
67.5°	550.2	638.1	751.0	830.6	862.7
70°	471.7	564.4	679.7	761.7	789.0
72.5°	394.5	490.8	608.4	696.3	727.2
75°	323.2	417.1	539.5	625.0	659.5
77.5°	254.3	349.4	472.9	560.9	590.6
80°	185.4	285.2	411.1	497.9	526.4
82.5°	122.4	227.0	351.7	438.5	469.4
85°	71.3	177.1	299.4	382.6	415.9
87.5°	30.9	134.3	250.7	332.7	360.0
90°	1.2	99.8	211.5	291.1	319.6
92.5°	1.2	97.4	206.8	285.2	312.5
95°	1.2	95.1	205.6	281.6	309.0
97.5°	1.2	93.9	203.2	279.2	305.4
100°	1.2	90.3	199.6	274.5	300.6
102.5°	1.2	85.6	196.1	269.7	294.7
105°	1.2	82.0	192.5	265.0	288.8
107.5°	1.2	78.4	186.6	259.0	282.8
110°	1.2	74.9	177.1	253.1	276.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	73.7	169.9	244.8	269.7
115°	2.4	71.3	162.8	235.3	261.4
117.5°	2.4	70.1	156.9	225.8	253.1
120°	2.4	66.5	150.9	217.5	243.6
122.5°	2.4	63.0	145.0	209.1	235.3
125°	2.4	60.6	139.0	200.8	225.8
127.5°	2.4	57.0	134.3	192.5	215.1
130°	2.4	54.7	128.3	183.0	205.6
132.5°	2.4	51.1	122.4	173.5	194.9
135°	2.4	47.5	116.5	165.2	185.4
137.5°	2.4	42.8	109.3	155.7	174.7
140°	2.4	39.2	99.8	146.2	164.0
142.5°	2.4	36.8	90.3	135.5	152.1
145°	2.4	34.5	80.8	124.8	140.2
147.5°	2.4	32.1	72.5	114.1	128.3
150°	2.4	28.5	64.2	104.6	116.5
152.5°	3.6	26.1	57.0	92.7	104.6
155°	3.6	23.8	49.9	79.6	92.7
157.5°	3.6	21.4	42.8	66.5	80.8
160°	3.6	19.0	36.8	54.7	68.9
162.5°	3.6	17.8	32.1	45.2	58.2
165°	3.6	15.4	27.3	36.8	47.5
167.5°	3.6	11.9	22.6	28.5	39.2
170°	3.6	9.5	17.8	20.2	29.7
172.5°	3.6	7.1	13.1	14.3	15.4
175°	3.6	5.9	8.3	8.3	4.8
177.5°	3.6	4.8	4.8	4.8	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)