

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: P566957

Luminaire Tested: **4SNX-90HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566957
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-L950-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

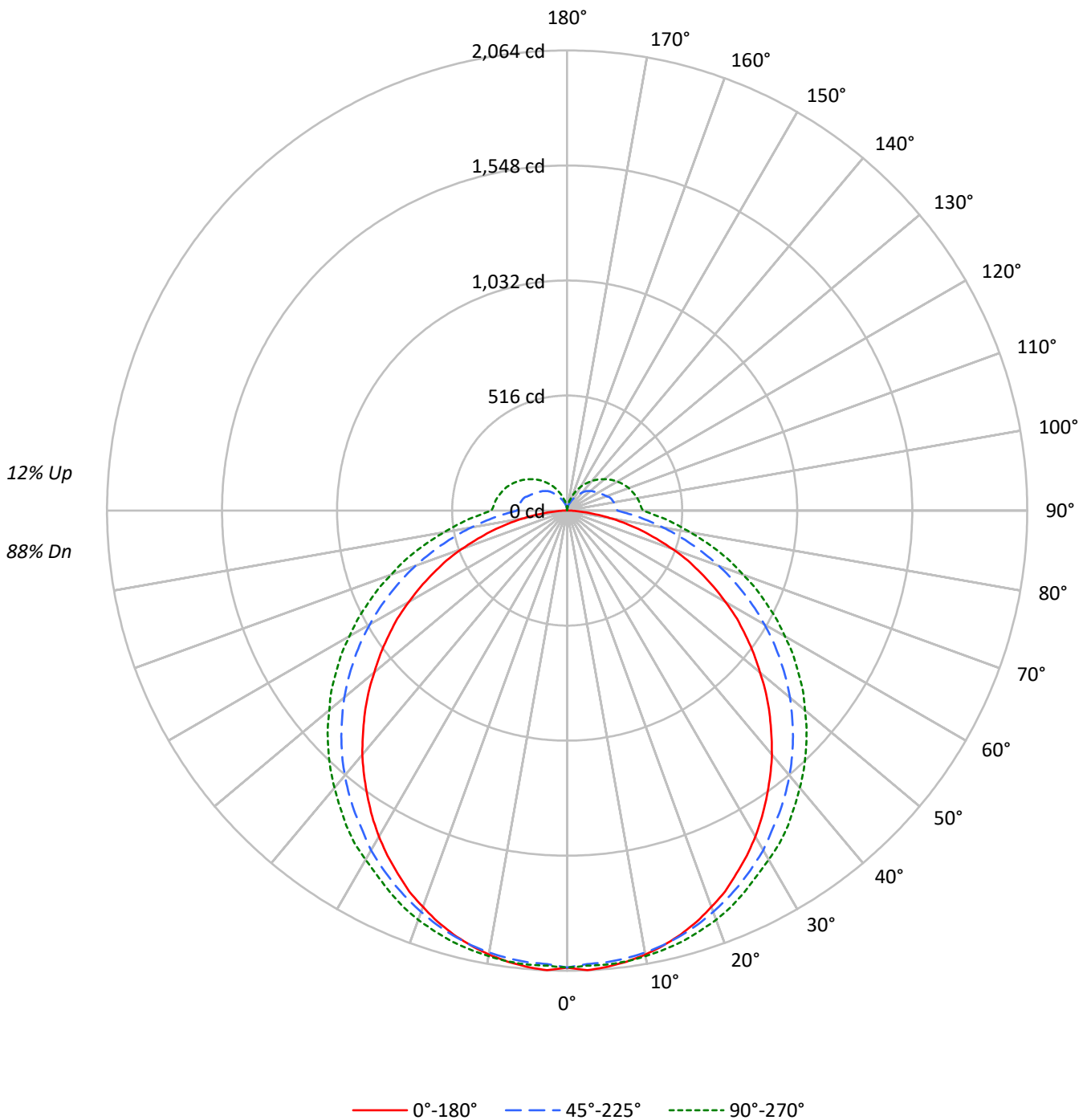
Lumens per Lamp: N/A
Luminaire Lumens: 7379.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	22062	22062	22062
5°	22181	21731	21773
10°	22058	21527	21548
15°	21877	21281	21338
20°	21586	20987	21098
25°	21238	20688	20776
30°	20857	20389	20502
35°	20374	20029	20311
40°	19908	19730	20017
45°	19341	19386	19769
50°	18686	19020	19454
55°	18062	18567	19174
60°	17342	18085	18830
65°	16465	17532	18493
70°	15350	16925	18111
75°	13759	16261	17981
80°	11536	15847	17839
85°	8365	16174	18804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	2.6
10°-20°	559.7	7.6
20°-30°	851.5	11.5
30°-40°	1035.3	14.0
40°-50°	1095.4	14.8
50°-60°	1026.7	13.9
60°-70°	844.7	11.4
70°-80°	584.4	7.9
80°-90°	325.0	4.4
90°-100°	214.1	2.9
100°-110°	192.0	2.6
110°-120°	158.9	2.2
120°-130°	122.8	1.7
130°-140°	87.0	1.2
140°-150°	52.5	0.7
150°-160°	25.2	0.3
160°-170°	8.2	0.1
170°-180°	1.0	0.0
0°-30°	1605.8	21.8
0°-40°	2641.1	35.8
0°-60°	4763.2	64.6
0°-90°	6517.3	88.3
90°-120°	565.0	7.7
90°-150°	827.3	11.2
90°-180°	862.0	11.7
0°-180°	7379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2055	2051	2033	2050	2044	195
15°	1969	1975	1974	2000	2000	555
25°	1797	1822	1844	1884	1885	828
35°	1562	1604	1658	1711	1726	977
45°	1284	1351	1433	1497	1515	990
55°	977	1064	1166	1240	1265	874
65°	661	756	873	959	986	655
75°	344	444	574	665	701	365
85°	76	188	318	407	442	87
90°	1	106	225	310	340	5
95°	1	101	219	300	328	1
105°	1	87	205	282	307	1
115°	2	76	173	250	278	2
125°	2	64	148	214	240	2
135°	2	50	124	176	197	2
145°	2	37	86	133	149	2
155°	4	25	53	85	99	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°	2049.6	2049.6	2049.6	2049.6	2049.6
2.5°	2063.5	2057.2	2035.7	2049.6	2043.3
5°	2054.7	2050.9	2033.2	2049.6	2044.5
7.5°	2040.8	2039.5	2025.6	2044.5	2039.5
10°	2021.8	2024.3	2013.0	2033.2	2029.4
12.5°	1997.8	2001.6	1996.5	2019.3	2016.7
15°	1968.7	1975.0	1973.8	2000.3	2000.3
17.5°	1933.3	1942.2	1947.2	1977.6	1977.6
20°	1891.6	1905.5	1915.7	1948.5	1953.6
22.5°	1849.9	1866.4	1881.5	1915.7	1923.2
25°	1796.9	1822.1	1843.6	1884.1	1885.3
27.5°	1745.1	1772.9	1801.9	1841.1	1844.9
30°	1688.2	1723.6	1759.0	1796.9	1808.2
32.5°	1627.5	1666.7	1705.9	1756.4	1771.6
35°	1561.8	1603.5	1657.9	1710.9	1726.1
37.5°	1496.1	1542.9	1606.1	1660.4	1674.3
40°	1429.2	1481.0	1551.7	1607.3	1623.8
42.5°	1354.6	1417.8	1493.6	1553.0	1572.0
45°	1283.8	1350.8	1433.0	1497.4	1515.1
47.5°	1209.3	1280.1	1368.5	1436.7	1457.0
50°	1129.7	1210.6	1305.3	1373.6	1392.5
52.5°	1055.1	1137.3	1237.1	1307.9	1334.4
55°	976.8	1064.0	1166.3	1239.6	1264.9
57.5°	903.5	986.9	1096.8	1170.1	1201.7
60°	820.1	912.3	1022.3	1101.9	1127.2
62.5°	741.7	835.3	949.0	1031.1	1060.2
65°	660.9	755.6	873.2	959.1	985.6
67.5°	585.1	678.6	798.6	883.3	917.4
70°	501.7	600.2	722.8	810.0	839.0
72.5°	419.5	521.9	647.0	740.5	773.3
75°	343.7	443.5	573.7	664.7	701.3
77.5°	270.4	371.5	502.9	596.4	628.0
80°	197.1	303.3	437.2	529.5	559.8
82.5°	130.2	241.4	374.0	466.3	499.1
85°	75.8	188.3	318.4	406.9	442.3
87.5°	32.9	142.8	266.6	353.8	382.9
90°	1.3	106.1	224.9	309.6	339.9
92.5°	1.3	103.6	219.9	303.3	332.3
95°	1.3	101.1	218.6	299.5	328.5
97.5°	1.3	99.8	216.1	297.0	324.8
100°	1.3	96.0	212.3	291.9	319.7
102.5°	1.3	91.0	208.5	286.8	313.4
105°	1.3	87.2	204.7	281.8	307.1
107.5°	1.3	83.4	198.4	275.5	300.7
110°	1.3	79.6	188.3	269.2	294.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	78.3	180.7	260.3	286.8
115°	2.5	75.8	173.1	250.2	278.0
117.5°	2.5	74.6	166.8	240.1	269.2
120°	2.5	70.8	160.5	231.2	259.0
122.5°	2.5	67.0	154.2	222.4	250.2
125°	2.5	64.4	147.8	213.6	240.1
127.5°	2.5	60.7	142.8	204.7	228.7
130°	2.5	58.1	136.5	194.6	218.6
132.5°	2.5	54.3	130.2	184.5	207.2
135°	2.5	50.5	123.8	175.6	197.1
137.5°	2.5	45.5	116.3	165.5	185.8
140°	2.5	41.7	106.1	155.4	174.4
142.5°	2.5	39.2	96.0	144.1	161.7
145°	2.5	36.6	85.9	132.7	149.1
147.5°	2.5	34.1	77.1	121.3	136.5
150°	2.5	30.3	68.2	111.2	123.8
152.5°	3.8	27.8	60.7	98.6	111.2
155°	3.8	25.3	53.1	84.7	98.6
157.5°	3.8	22.7	45.5	70.8	85.9
160°	3.8	20.2	39.2	58.1	73.3
162.5°	3.8	19.0	34.1	48.0	61.9
165°	3.8	16.4	29.1	39.2	50.5
167.5°	3.8	12.6	24.0	30.3	41.7
170°	3.8	10.1	19.0	21.5	31.6
172.5°	3.8	7.6	13.9	15.2	16.4
175°	3.8	6.3	8.8	8.8	5.1
177.5°	3.8	5.1	5.1	5.1	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)