

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: P566761

Luminaire Tested: **4SNX-74HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566761
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-74HL-FDL-UNV-L850-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

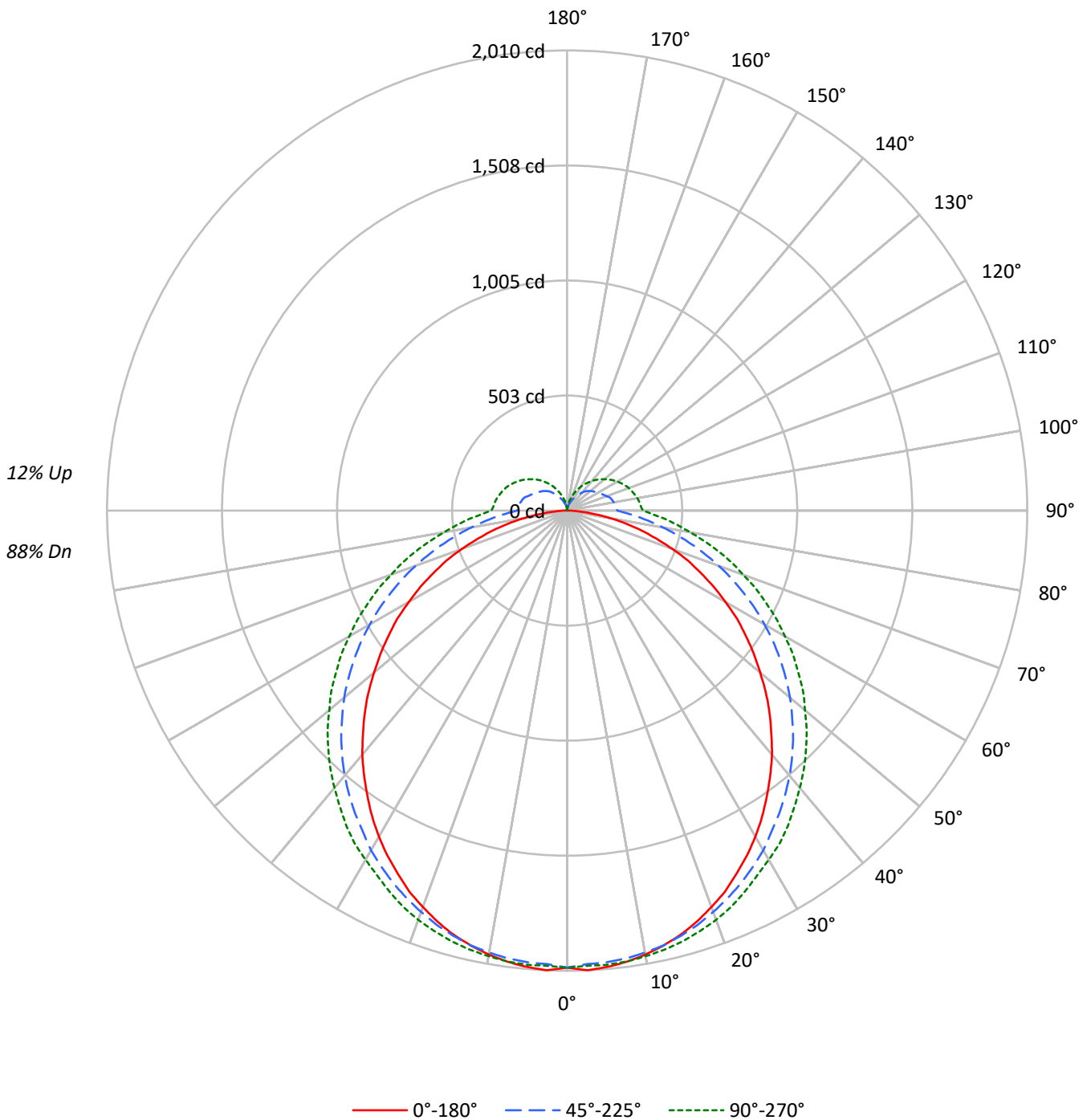
Lumens per Lamp: N/A
Luminaire Lumens: 7187.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 51.8
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°	21488	21488	21488
5°	21603	21165	21207
10°	21484	20966	20987
15°	21308	20727	20783
20°	21024	20441	20548
25°	20685	20150	20236
30°	20315	19858	19969
35°	19844	19507	19783
40°	19390	19218	19496
45°	18838	18882	19255
50°	18199	18526	18948
55°	17593	18084	18675
60°	16892	17615	18339
65°	16037	17074	18013
70°	14949	16485	17641
75°	13403	15838	17515
80°	11238	15434	17373
85°	8145	15752	18315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	2.6
10°-20°	545.2	7.6
20°-30°	829.3	11.5
30°-40°	1008.4	14.0
40°-50°	1066.8	14.8
50°-60°	1000.0	13.9
60°-70°	822.7	11.4
70°-80°	569.2	7.9
80°-90°	316.5	4.4
90°-100°	208.5	2.9
100°-110°	187.0	2.6
110°-120°	154.8	2.2
120°-130°	119.7	1.7
130°-140°	84.7	1.2
140°-150°	51.1	0.7
150°-160°	24.5	0.3
160°-170°	8.0	0.1
170°-180°	1.0	0.0
0°-30°	1564.0	21.8
0°-40°	2572.4	35.8
0°-60°	4639.3	64.6
0°-90°	6347.7	88.3
90°-120°	550.3	7.7
90°-150°	805.7	11.2
90°-180°	839.0	11.7
0°-180°	7187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1996	1996	1996	1996	1996	
5°	2001	1998	1980	1996	1991	190
15°	1918	1924	1922	1948	1948	540
25°	1750	1775	1796	1835	1836	807
35°	1521	1562	1615	1666	1681	952
45°	1250	1316	1396	1458	1476	964
55°	951	1036	1136	1207	1232	852
65°	644	736	850	934	960	638
75°	335	432	559	647	683	355
85°	74	183	310	396	431	85
90°	1	103	219	302	331	5
95°	1	98	213	292	320	1
105°	1	85	199	274	299	1
115°	2	74	169	244	271	2
125°	2	63	144	208	234	2
135°	2	49	121	171	192	2
145°	2	36	84	129	145	2
155°	4	25	52	82	96	2
165°	4	16	28	38	49	1
175°	4	6	9	9	5	0
180°	2	2	2	2	2	



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CATALOG NUMBER: 4SNX-74HL-FDL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1996.3	1996.3	1996.3	1996.3	1996.3
2.5°	2009.8	2003.7	1982.7	1996.3	1990.1
5°	2001.2	1997.5	1980.3	1996.3	1991.3
7.5°	1987.7	1986.4	1972.9	1991.3	1986.4
10°	1969.2	1971.7	1960.6	1980.3	1976.6
12.5°	1945.8	1949.5	1944.6	1966.7	1964.3
15°	1917.5	1923.7	1922.4	1948.3	1948.3
17.5°	1883.0	1891.7	1896.6	1926.1	1926.1
20°	1842.4	1856.0	1865.8	1897.8	1902.7
22.5°	1801.8	1817.8	1832.6	1865.8	1873.2
25°	1750.1	1774.7	1795.7	1835.0	1836.3
27.5°	1699.7	1726.7	1755.0	1793.2	1796.9
30°	1644.3	1678.7	1713.2	1750.1	1761.2
32.5°	1585.2	1623.4	1661.5	1710.7	1725.5
35°	1521.2	1561.8	1614.7	1666.4	1681.2
37.5°	1457.2	1502.7	1564.3	1617.2	1630.7
40°	1392.0	1442.4	1511.4	1565.5	1581.5
42.5°	1319.4	1380.9	1454.7	1512.6	1531.0
45°	1250.4	1315.7	1395.7	1458.4	1475.7
47.5°	1177.8	1246.7	1332.9	1399.4	1419.1
50°	1100.3	1179.1	1271.4	1337.8	1356.3
52.5°	1027.7	1107.7	1204.9	1273.8	1299.7
55°	951.4	1036.3	1136.0	1207.4	1232.0
57.5°	880.0	961.2	1068.3	1139.7	1170.4
60°	798.8	888.6	995.7	1073.2	1097.8
62.5°	722.4	813.5	924.3	1004.3	1032.6
65°	643.7	736.0	850.4	934.1	960.0
67.5°	569.8	660.9	777.8	860.3	893.5
70°	488.6	584.6	704.0	788.9	817.2
72.5°	408.6	508.3	630.1	721.2	753.2
75°	334.8	432.0	558.8	647.4	683.1
77.5°	263.4	361.8	489.8	580.9	611.7
80°	192.0	295.4	425.8	515.7	545.2
82.5°	126.8	235.1	364.3	454.1	486.1
85°	73.8	183.4	310.1	396.3	430.8
87.5°	32.0	139.1	259.7	344.6	372.9
90°	1.2	103.4	219.1	301.5	331.1
92.5°	1.2	100.9	214.1	295.4	323.7
95°	1.2	98.5	212.9	291.7	320.0
97.5°	1.2	97.2	210.5	289.2	316.3
100°	1.2	93.5	206.8	284.3	311.4
102.5°	1.2	88.6	203.1	279.4	305.2
105°	1.2	84.9	199.4	274.5	299.1
107.5°	1.2	81.2	193.2	268.3	292.9
110°	1.2	77.5	183.4	262.1	286.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	76.3	176.0	253.5	279.4
115°	2.5	73.8	168.6	243.7	270.8
117.5°	2.5	72.6	162.5	233.8	262.1
120°	2.5	68.9	156.3	225.2	252.3
122.5°	2.5	65.2	150.2	216.6	243.7
125°	2.5	62.8	144.0	208.0	233.8
127.5°	2.5	59.1	139.1	199.4	222.8
130°	2.5	56.6	132.9	189.5	212.9
132.5°	2.5	52.9	126.8	179.7	201.8
135°	2.5	49.2	120.6	171.1	192.0
137.5°	2.5	44.3	113.2	161.2	180.9
140°	2.5	40.6	103.4	151.4	169.8
142.5°	2.5	38.2	93.5	140.3	157.5
145°	2.5	35.7	83.7	129.2	145.2
147.5°	2.5	33.2	75.1	118.2	132.9
150°	2.5	29.5	66.5	108.3	120.6
152.5°	3.7	27.1	59.1	96.0	108.3
155°	3.7	24.6	51.7	82.5	96.0
157.5°	3.7	22.2	44.3	68.9	83.7
160°	3.7	19.7	38.2	56.6	71.4
162.5°	3.7	18.5	33.2	46.8	60.3
165°	3.7	16.0	28.3	38.2	49.2
167.5°	3.7	12.3	23.4	29.5	40.6
170°	3.7	9.8	18.5	20.9	30.8
172.5°	3.7	7.4	13.5	14.8	16.0
175°	3.7	6.2	8.6	8.6	4.9
177.5°	3.7	4.9	4.9	4.9	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)