

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: P566785

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566785
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-LW-UNV-L850-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

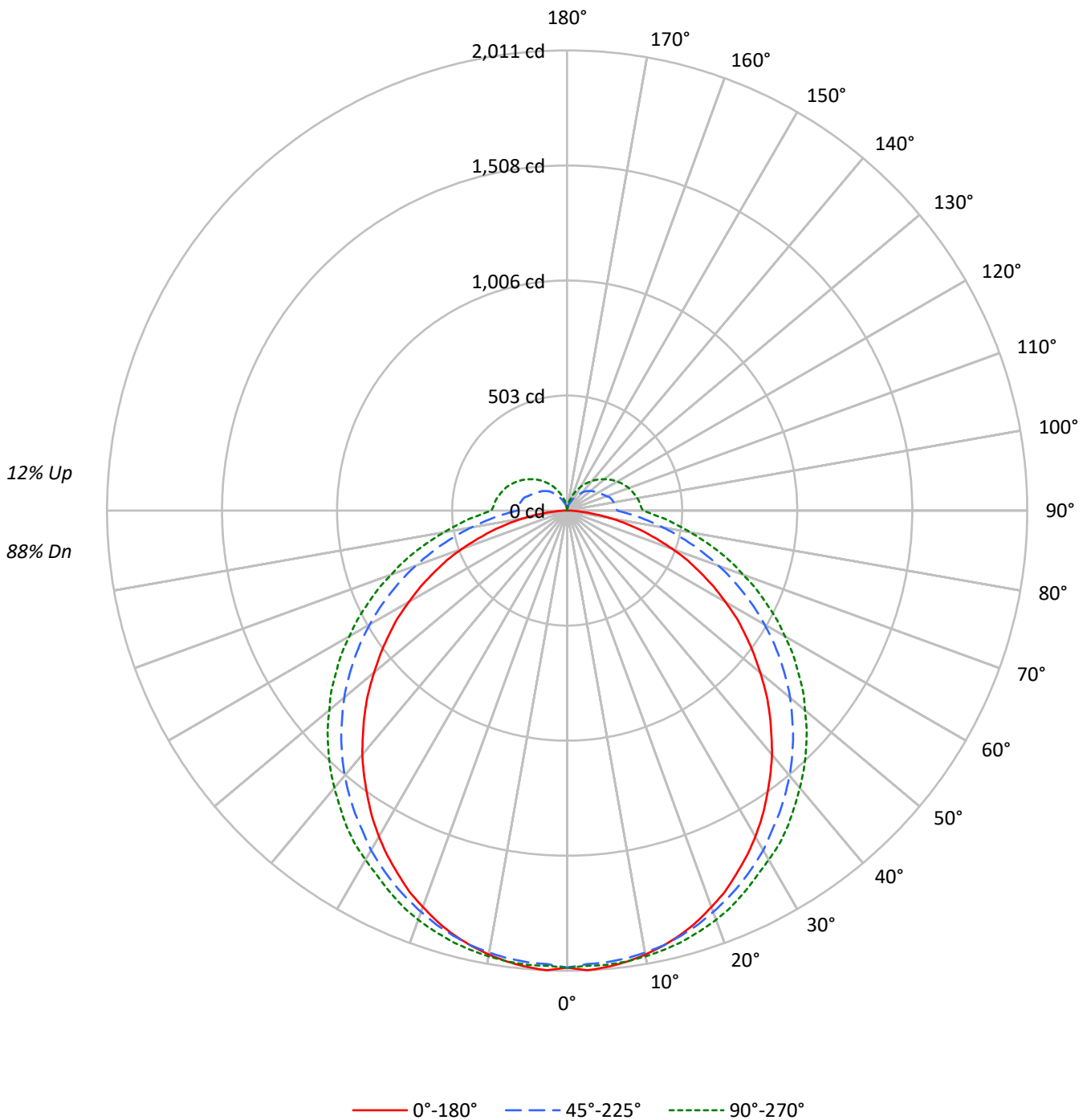
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7191.0 lumens
Efficiency: N/A
Efficacy: 138.8 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): 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°	21500	21500	21500
5°	21556	20510	20343
10°	21378	19701	19342
15°	21144	18898	18431
20°	20801	18087	17549
25°	20401	17299	16646
30°	19968	16527	15815
35°	19433	15717	15069
40°	18908	14961	14258
45°	18283	14163	13485
50°	17563	13340	12663
55°	16860	12435	11850
60°	16047	11484	10974
65°	15057	10449	10069
70°	13806	9330	9088
75°	12054	8104	8148
80°	9632	6877	7073
85°	6182	5698	6175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	2.6
10°-20°	545.5	7.6
20°-30°	829.8	11.5
30°-40°	1008.9	14.0
40°-50°	1067.4	14.8
50°-60°	1000.6	13.9
60°-70°	823.1	11.4
70°-80°	569.5	7.9
80°-90°	316.7	4.4
90°-100°	208.6	2.9
100°-110°	187.1	2.6
110°-120°	154.9	2.2
120°-130°	119.7	1.7
130°-140°	84.8	1.2
140°-150°	51.1	0.7
150°-160°	24.6	0.3
160°-170°	8.0	0.1
170°-180°	1.0	0.0
0°-30°	1564.9	21.8
0°-40°	2573.8	35.8
0°-60°	4641.8	64.6
0°-90°	6351.2	88.3
90°-120°	550.6	7.7
90°-150°	806.2	11.2
90°-180°	840.0	11.7
0°-180°	7191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	2002	1999	1981	1997	1992	190
15°	1919	1925	1924	1949	1949	541
25°	1751	1776	1797	1836	1837	807
35°	1522	1563	1616	1667	1682	953
45°	1251	1316	1396	1459	1476	964
55°	952	1037	1137	1208	1233	852
65°	644	736	851	935	960	639
75°	335	432	559	648	683	355
85°	74	184	310	396	431	85
90°	1	103	219	302	331	5
95°	1	98	213	292	320	1
105°	1	85	200	275	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-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1997.4	1997.4	1997.4	1997.4	1997.4
2.5°	2010.9	2004.8	1983.8	1997.4	1991.2
5°	2002.3	1998.6	1981.4	1997.4	1992.5
7.5°	1988.8	1987.5	1974.0	1992.5	1987.5
10°	1970.3	1972.8	1961.7	1981.4	1977.7
12.5°	1946.9	1950.6	1945.7	1967.8	1965.4
15°	1918.6	1924.7	1923.5	1949.4	1949.4
17.5°	1884.1	1892.7	1897.6	1927.2	1927.2
20°	1843.5	1857.0	1866.9	1898.9	1903.8
22.5°	1802.8	1818.8	1833.6	1866.9	1874.2
25°	1751.1	1775.7	1796.7	1836.1	1837.3
27.5°	1700.6	1727.7	1756.0	1794.2	1797.9
30°	1645.2	1679.7	1714.2	1751.1	1762.2
32.5°	1586.1	1624.3	1662.4	1711.7	1726.5
35°	1522.0	1562.7	1615.6	1667.4	1682.1
37.5°	1458.0	1503.6	1565.1	1618.1	1631.6
40°	1392.7	1443.2	1512.2	1566.4	1582.4
42.5°	1320.1	1381.7	1455.6	1513.4	1531.9
45°	1251.1	1316.4	1396.4	1459.2	1476.5
47.5°	1178.5	1247.4	1333.6	1400.1	1419.8
50°	1100.9	1179.7	1272.1	1338.6	1357.0
52.5°	1028.2	1108.3	1205.6	1274.5	1300.4
55°	951.9	1036.9	1136.6	1208.0	1232.7
57.5°	880.5	961.7	1068.9	1140.3	1171.1
60°	799.2	889.1	996.2	1073.8	1098.4
62.5°	722.9	814.0	924.8	1004.8	1033.2
65°	644.0	736.4	850.9	934.7	960.5
67.5°	570.2	661.3	778.3	860.8	894.0
70°	488.9	584.9	704.4	789.3	817.7
72.5°	408.8	508.6	630.5	721.6	753.6
75°	334.9	432.2	559.1	647.7	683.4
77.5°	263.5	362.0	490.1	581.2	612.0
80°	192.1	295.5	426.1	516.0	545.5
82.5°	126.8	235.2	364.5	454.4	486.4
85°	73.9	183.5	310.3	396.5	431.0
87.5°	32.0	139.2	259.8	344.8	373.1
90°	1.2	103.4	219.2	301.7	331.3
92.5°	1.2	101.0	214.3	295.5	323.9
95°	1.2	98.5	213.0	291.8	320.2
97.5°	1.2	97.3	210.6	289.4	316.5
100°	1.2	93.6	206.9	284.5	311.6
102.5°	1.2	88.7	203.2	279.5	305.4
105°	1.2	85.0	199.5	274.6	299.2
107.5°	1.2	81.3	193.3	268.5	293.1
110°	1.2	77.6	183.5	262.3	286.9



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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	76.3	176.1	253.7	279.5
115°	2.5	73.9	168.7	243.8	270.9
117.5°	2.5	72.7	162.5	234.0	262.3
120°	2.5	69.0	156.4	225.4	252.4
122.5°	2.5	65.3	150.2	216.7	243.8
125°	2.5	62.8	144.1	208.1	234.0
127.5°	2.5	59.1	139.2	199.5	222.9
130°	2.5	56.6	133.0	189.6	213.0
132.5°	2.5	53.0	126.8	179.8	202.0
135°	2.5	49.3	120.7	171.2	192.1
137.5°	2.5	44.3	113.3	161.3	181.0
140°	2.5	40.6	103.4	151.5	169.9
142.5°	2.5	38.2	93.6	140.4	157.6
145°	2.5	35.7	83.7	129.3	145.3
147.5°	2.5	33.2	75.1	118.2	133.0
150°	2.5	29.6	66.5	108.4	120.7
152.5°	3.7	27.1	59.1	96.1	108.4
155°	3.7	24.6	51.7	82.5	96.1
157.5°	3.7	22.2	44.3	69.0	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	49.3
167.5°	3.7	12.3	23.4	29.6	40.6
170°	3.7	9.9	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)