

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: P566874

Luminaire Tested: **4SNX-84HL-LN-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

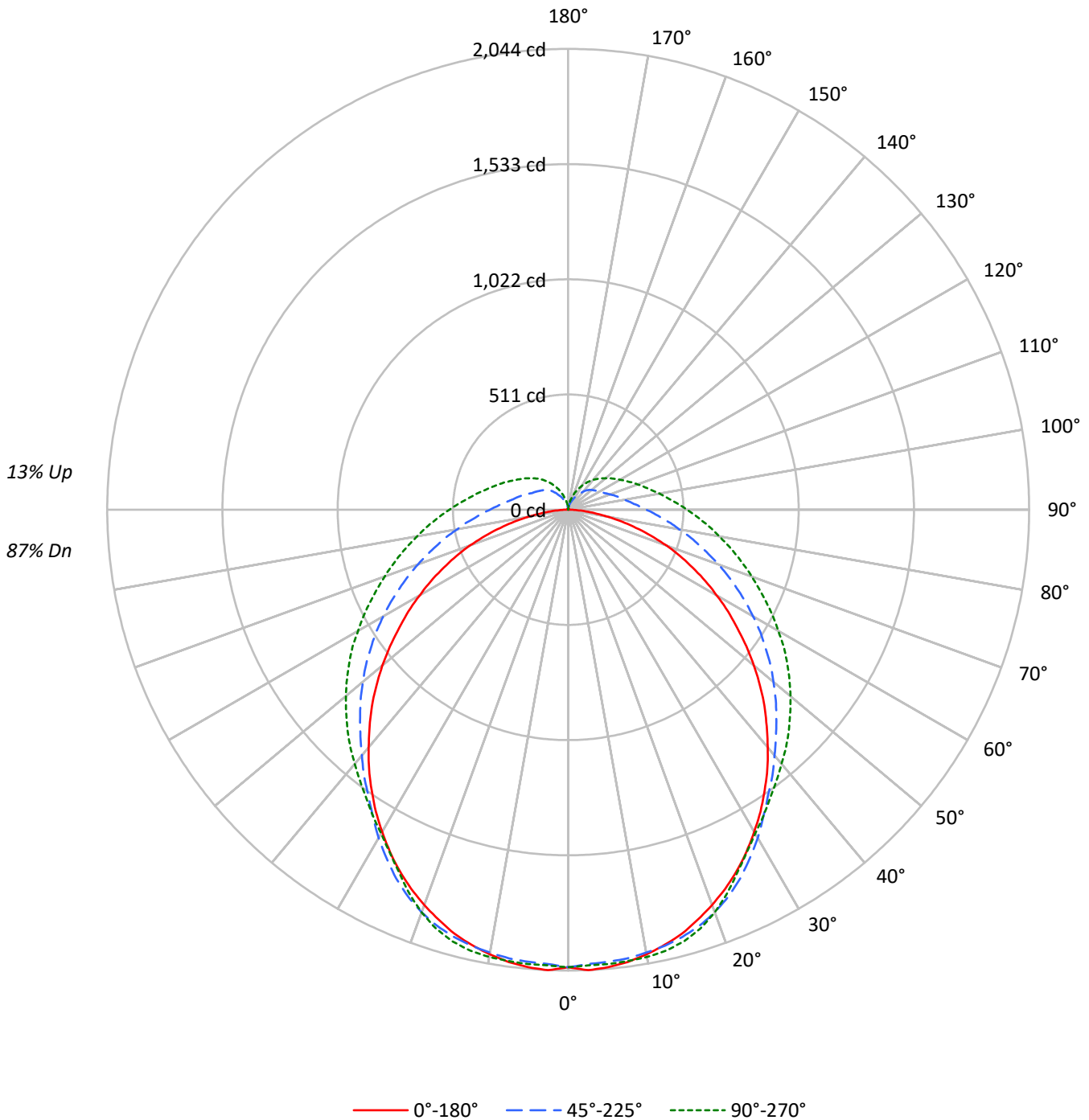
Test Method: LM-79-08  
Report Number: P566874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-84HL-LN-UNV-L930-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7326.0 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 57.9  
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

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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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87				
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68				
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56				
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46				
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39				
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34				
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29				
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26				
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23				
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21				
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21844	21844	21844
5°	21929	20841	20656
10°	21723	20033	19702
15°	21463	19268	18741
20°	21050	18411	17517
25°	20605	17375	16080
30°	20019	16213	14881
35°	19394	15031	13986
40°	18683	14081	13262
45°	17986	13239	12637
50°	17160	12464	12007
55°	16191	11685	11391
60°	15262	10909	10746
65°	14229	10127	10156
70°	13046	9393	9621
75°	11219	8676	9181
80°	8844	8059	8809
85°	5923	7618	8595



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.8	2.6
10°-20°	554.3	7.6
20°-30°	825.4	11.3
30°-40°	973.9	13.3
40°-50°	1015.7	13.9
50°-60°	954.5	13.0
60°-70°	806.1	11.0
70°-80°	609.0	8.3
80°-90°	419.8	5.7
90°-100°	293.8	4.0
100°-110°	219.2	3.0
110°-120°	165.3	2.3
120°-130°	123.3	1.7
130°-140°	86.5	1.2
140°-150°	52.3	0.7
150°-160°	25.0	0.3
160°-170°	8.0	0.1
170°-180°	1.0	0.0
0°-30°	1572.5	21.5
0°-40°	2546.4	34.8
0°-60°	4516.7	61.7
0°-90°	6351.6	86.7
90°-120°	678.3	9.3
90°-150°	940.4	12.8
90°-180°	974.0	13.3
0°-180°	7326.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2029	2029	2029	2029	2029	
5°	2037	2033	2013	2028	2023	193
15°	1948	1956	1961	1986	1982	548
25°	1769	1805	1805	1788	1775	814
35°	1519	1575	1545	1558	1561	950
45°	1231	1292	1305	1359	1384	948
55°	914	992	1068	1154	1185	820
65°	609	706	825	933	969	604
75°	312	432	599	724	770	332
85°	71	222	415	552	600	79
90°	1	158	346	479	527	5
95°	1	123	293	420	463	1
105°	2	88	226	328	365	2
115°	2	76	175	261	294	3
125°	4	65	148	214	241	3
135°	4	50	123	174	195	3
145°	5	36	86	133	149	3
155°	5	24	52	84	98	2
165°	6	15	27	37	50	2
175°	6	6	8	8	4	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2029.4	2029.4	2029.4	2029.4	2029.4
2.5°	2044.3	2039.4	2017.0	2029.4	2023.2
5°	2036.9	2033.2	2013.3	2028.2	2023.2
7.5°	2023.2	2022.0	2007.1	2024.5	2019.5
10°	2002.1	2005.8	1994.7	2018.3	2014.5
12.5°	1977.3	1984.7	1981.0	2007.1	2003.4
15°	1947.5	1956.2	1961.1	1986.0	1982.2
17.5°	1907.7	1923.9	1935.0	1954.9	1948.7
20°	1865.5	1887.8	1900.3	1910.2	1900.3
22.5°	1819.5	1849.3	1856.8	1851.8	1841.9
25°	1768.6	1804.6	1804.6	1788.5	1774.8
27.5°	1711.5	1756.2	1743.8	1725.1	1714.0
30°	1649.4	1702.8	1681.7	1660.6	1658.1
32.5°	1587.3	1643.2	1612.1	1607.2	1610.9
35°	1519.0	1574.9	1545.1	1557.5	1561.2
37.5°	1450.7	1506.6	1486.7	1505.3	1516.5
40°	1376.1	1435.8	1423.3	1456.9	1471.8
42.5°	1302.9	1365.0	1363.7	1407.2	1429.5
45°	1230.8	1291.7	1305.3	1358.8	1383.6
47.5°	1152.6	1214.7	1248.2	1310.3	1335.2
50°	1075.6	1142.6	1188.6	1258.2	1286.7
52.5°	996.1	1066.9	1130.2	1207.2	1237.0
55°	914.1	992.4	1068.1	1153.8	1184.9
57.5°	840.8	920.3	1009.8	1097.9	1134.0
60°	760.1	848.3	946.4	1039.6	1075.6
62.5°	686.8	777.5	886.8	984.9	1023.4
65°	608.6	705.5	824.7	932.7	968.8
67.5°	536.5	635.9	766.3	875.6	915.4
70°	462.0	567.6	709.2	824.7	865.7
72.5°	385.0	496.8	652.1	775.0	817.2
75°	311.7	432.2	598.6	724.1	770.0
77.5°	243.4	370.1	550.2	679.4	724.1
80°	176.4	314.2	499.3	633.4	679.4
82.5°	116.7	265.8	458.3	592.4	640.9
85°	70.8	222.3	414.8	551.5	599.9
87.5°	32.3	186.3	380.1	515.4	562.6
90°	1.2	157.7	346.5	479.4	526.6
92.5°	1.2	137.9	319.2	448.4	494.3
95°	1.2	123.0	293.1	419.8	463.3
97.5°	1.2	113.0	273.2	392.5	434.7
100°	1.2	103.1	253.4	367.6	411.1
102.5°	2.5	94.4	238.5	345.3	386.3
105°	2.5	88.2	226.0	327.9	365.1
107.5°	2.5	84.5	212.4	310.5	345.3
110°	2.5	80.7	197.5	293.1	327.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	78.2	186.3	278.2	311.7
115°	2.5	75.8	175.1	260.8	294.4
117.5°	2.5	74.5	168.9	247.2	279.5
120°	3.7	70.8	161.5	234.7	265.8
122.5°	3.7	67.1	154.0	224.8	252.1
125°	3.7	64.6	147.8	213.6	240.9
127.5°	3.7	60.9	141.6	203.7	228.5
130°	3.7	57.1	136.6	193.8	217.4
132.5°	3.7	53.4	130.4	183.8	206.2
135°	3.7	49.7	123.0	173.9	195.0
137.5°	3.7	46.0	115.5	163.9	183.8
140°	3.7	42.2	105.6	154.0	172.6
142.5°	3.7	38.5	95.6	144.1	160.2
145°	5.0	36.0	85.7	132.9	149.0
147.5°	5.0	32.3	75.8	121.7	135.4
150°	5.0	29.8	68.3	110.5	123.0
152.5°	5.0	26.1	60.9	98.1	110.5
155°	5.0	23.6	52.2	84.5	98.1
157.5°	5.0	21.1	44.7	70.8	85.7
160°	5.0	19.9	38.5	58.4	73.3
162.5°	6.2	17.4	32.3	47.2	60.9
165°	6.2	14.9	27.3	37.3	49.7
167.5°	6.2	12.4	22.4	28.6	38.5
170°	6.2	9.9	17.4	19.9	29.8
172.5°	6.2	7.5	12.4	13.7	14.9
175°	6.2	6.2	7.5	7.5	3.7
177.5°	6.2	6.2	5.0	3.7	1.2
180°	3.7	3.7	3.7	3.7	3.7

(END OF REPORT)