

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: P566860

Luminaire Tested: **4SNX-84HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566860  
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-84HL-FDL-UNV-L940-CD  
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

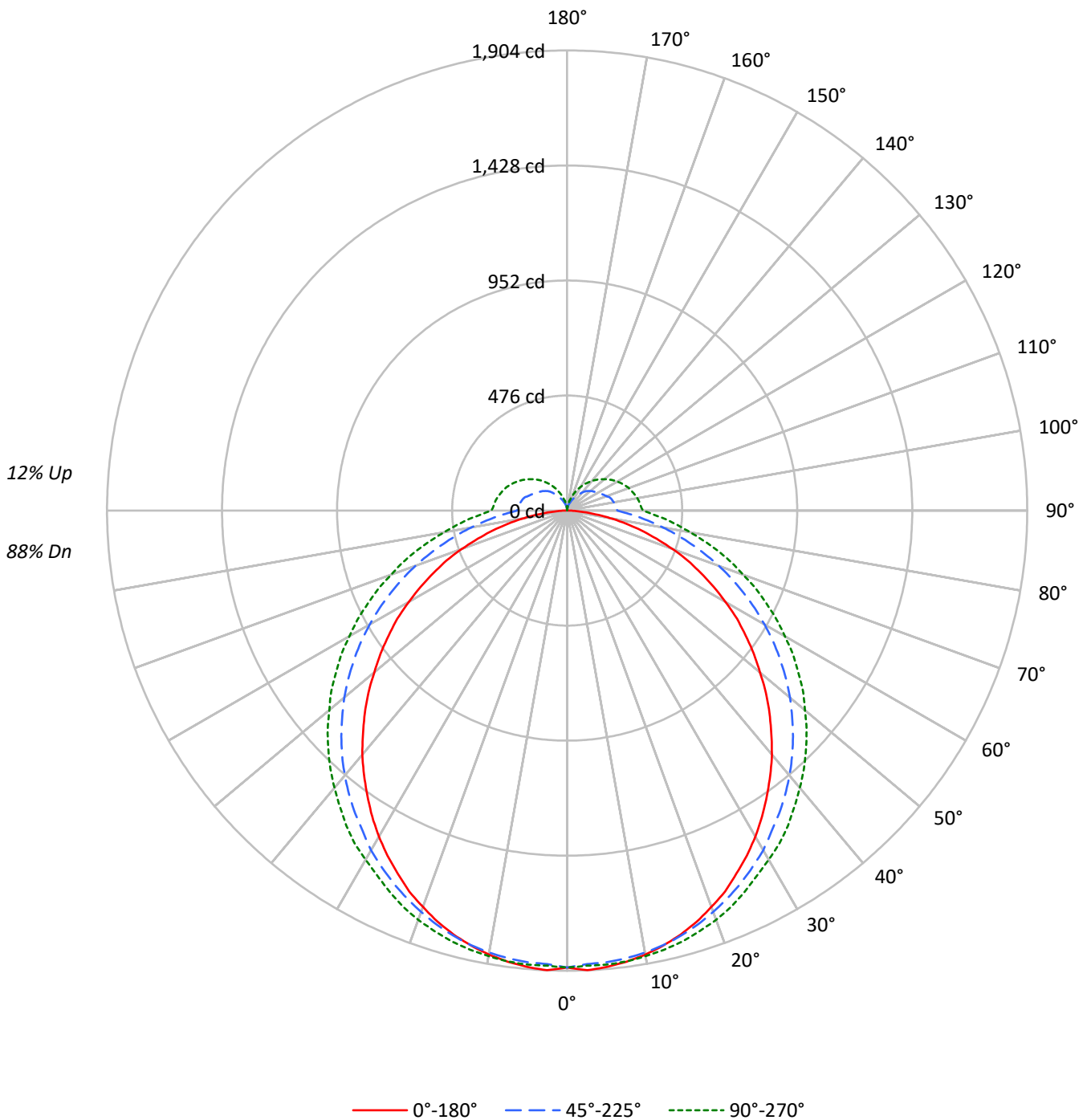
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6807.0 lumens  
Efficiency: N/A  
Efficacy: 117.6 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): 57.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	20351	20351	20351
5°	20461	20046	20086
10°	20348	19857	19878
15°	20182	19632	19684
20°	19913	19360	19462
25°	19592	19084	19166
30°	19240	18808	18913
35°	18795	18477	18737
40°	18365	18201	18465
45°	17842	17883	18236
50°	17237	17545	17947
55°	16662	17128	17687
60°	15997	16683	17370
65°	15187	16173	17060
70°	14160	15614	16708
75°	12694	14999	16587
80°	10641	14618	16456
85°	7714	14919	17345



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.5	2.6
10°-20°	516.3	7.6
20°-30°	785.5	11.5
30°-40°	955.1	14.0
40°-50°	1010.4	14.8
50°-60°	947.1	13.9
60°-70°	779.2	11.4
70°-80°	539.1	7.9
80°-90°	299.8	4.4
90°-100°	197.5	2.9
100°-110°	177.1	2.6
110°-120°	146.6	2.2
120°-130°	113.3	1.7
130°-140°	80.2	1.2
140°-150°	48.4	0.7
150°-160°	23.2	0.3
160°-170°	7.6	0.1
170°-180°	0.9	0.0
0°-30°	1481.3	21.8
0°-40°	2436.4	35.8
0°-60°	4394.0	64.6
0°-90°	6012.1	88.3
90°-120°	521.2	7.7
90°-150°	763.1	11.2
90°-180°	795.0	11.7
0°-180°	6807.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1895	1892	1876	1891	1886	180
15°	1816	1822	1821	1845	1845	512
25°	1658	1681	1701	1738	1739	764
35°	1441	1479	1529	1578	1592	902
45°	1184	1246	1322	1381	1398	913
55°	901	982	1076	1144	1167	807
65°	610	697	806	885	909	604
75°	317	409	529	613	647	336
85°	70	174	294	375	408	80
90°	1	98	208	286	314	5
95°	1	93	202	276	303	1
105°	1	80	189	260	283	1
115°	2	70	160	231	256	2
125°	2	59	136	197	222	2
135°	2	47	114	162	182	2
145°	2	34	79	122	138	1
155°	4	23	49	78	91	2
165°	4	15	27	36	47	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°	1890.7	1890.7	1890.7	1890.7	1890.7
2.5°	1903.5	1897.7	1877.9	1890.7	1884.9
5°	1895.4	1891.9	1875.6	1890.7	1886.1
7.5°	1882.6	1881.4	1868.6	1886.1	1881.4
10°	1865.1	1867.4	1856.9	1875.6	1872.1
12.5°	1842.9	1846.4	1841.8	1862.7	1860.4
15°	1816.1	1821.9	1820.8	1845.3	1845.3
17.5°	1783.5	1791.6	1796.3	1824.3	1824.3
20°	1745.0	1757.8	1767.2	1797.5	1802.1
22.5°	1706.5	1721.7	1735.7	1767.2	1774.2
25°	1657.6	1680.9	1700.7	1738.0	1739.2
27.5°	1609.8	1635.4	1662.2	1698.4	1701.9
30°	1557.3	1590.0	1622.6	1657.6	1668.1
32.5°	1501.4	1537.5	1573.7	1620.3	1634.3
35°	1440.8	1479.2	1529.4	1578.3	1592.3
37.5°	1380.2	1423.3	1481.6	1531.7	1544.5
40°	1318.4	1366.2	1431.4	1482.7	1497.9
42.5°	1249.6	1307.9	1377.8	1432.6	1450.1
45°	1184.3	1246.1	1321.9	1381.3	1397.6
47.5°	1115.5	1180.8	1262.4	1325.4	1344.0
50°	1042.1	1116.7	1204.1	1267.1	1284.6
52.5°	973.3	1049.1	1141.2	1206.5	1231.0
55°	901.1	981.5	1075.9	1143.5	1166.8
57.5°	833.5	910.4	1011.8	1079.4	1108.6
60°	756.5	841.6	943.0	1016.5	1039.8
62.5°	684.2	770.5	875.4	951.2	978.0
65°	609.6	697.1	805.5	884.7	909.2
67.5°	539.7	626.0	736.7	814.8	846.3
70°	462.8	553.7	666.8	747.2	774.0
72.5°	387.0	481.4	596.8	683.1	713.4
75°	317.1	409.2	529.2	613.1	646.9
77.5°	249.5	342.7	463.9	550.2	579.3
80°	181.8	279.8	403.3	488.4	516.4
82.5°	120.1	222.6	345.0	430.1	460.4
85°	69.9	173.7	293.7	375.3	408.0
87.5°	30.3	131.7	246.0	326.4	353.2
90°	1.2	97.9	207.5	285.6	313.6
92.5°	1.2	95.6	202.8	279.8	306.6
95°	1.2	93.3	201.7	276.3	303.1
97.5°	1.2	92.1	199.3	273.9	299.6
100°	1.2	88.6	195.8	269.3	294.9
102.5°	1.2	83.9	192.3	264.6	289.1
105°	1.2	80.4	188.8	259.9	283.3
107.5°	1.2	76.9	183.0	254.1	277.4
110°	1.2	73.4	173.7	248.3	271.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	72.3	166.7	240.1	264.6
115°	2.3	69.9	159.7	230.8	256.4
117.5°	2.3	68.8	153.9	221.5	248.3
120°	2.3	65.3	148.0	213.3	239.0
122.5°	2.3	61.8	142.2	205.2	230.8
125°	2.3	59.4	136.4	197.0	221.5
127.5°	2.3	56.0	131.7	188.8	211.0
130°	2.3	53.6	125.9	179.5	201.7
132.5°	2.3	50.1	120.1	170.2	191.2
135°	2.3	46.6	114.2	162.0	181.8
137.5°	2.3	42.0	107.2	152.7	171.4
140°	2.3	38.5	97.9	143.4	160.9
142.5°	2.3	36.1	88.6	132.9	149.2
145°	2.3	33.8	79.3	122.4	137.5
147.5°	2.3	31.5	71.1	111.9	125.9
150°	2.3	28.0	62.9	102.6	114.2
152.5°	3.5	25.6	56.0	90.9	102.6
155°	3.5	23.3	49.0	78.1	90.9
157.5°	3.5	21.0	42.0	65.3	79.3
160°	3.5	18.7	36.1	53.6	67.6
162.5°	3.5	17.5	31.5	44.3	57.1
165°	3.5	15.2	26.8	36.1	46.6
167.5°	3.5	11.7	22.1	28.0	38.5
170°	3.5	9.3	17.5	19.8	29.1
172.5°	3.5	7.0	12.8	14.0	15.2
175°	3.5	5.8	8.2	8.2	4.7
177.5°	3.5	4.7	4.7	4.7	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)