

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: P567000

Luminaire Tested: **4SNX-93HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

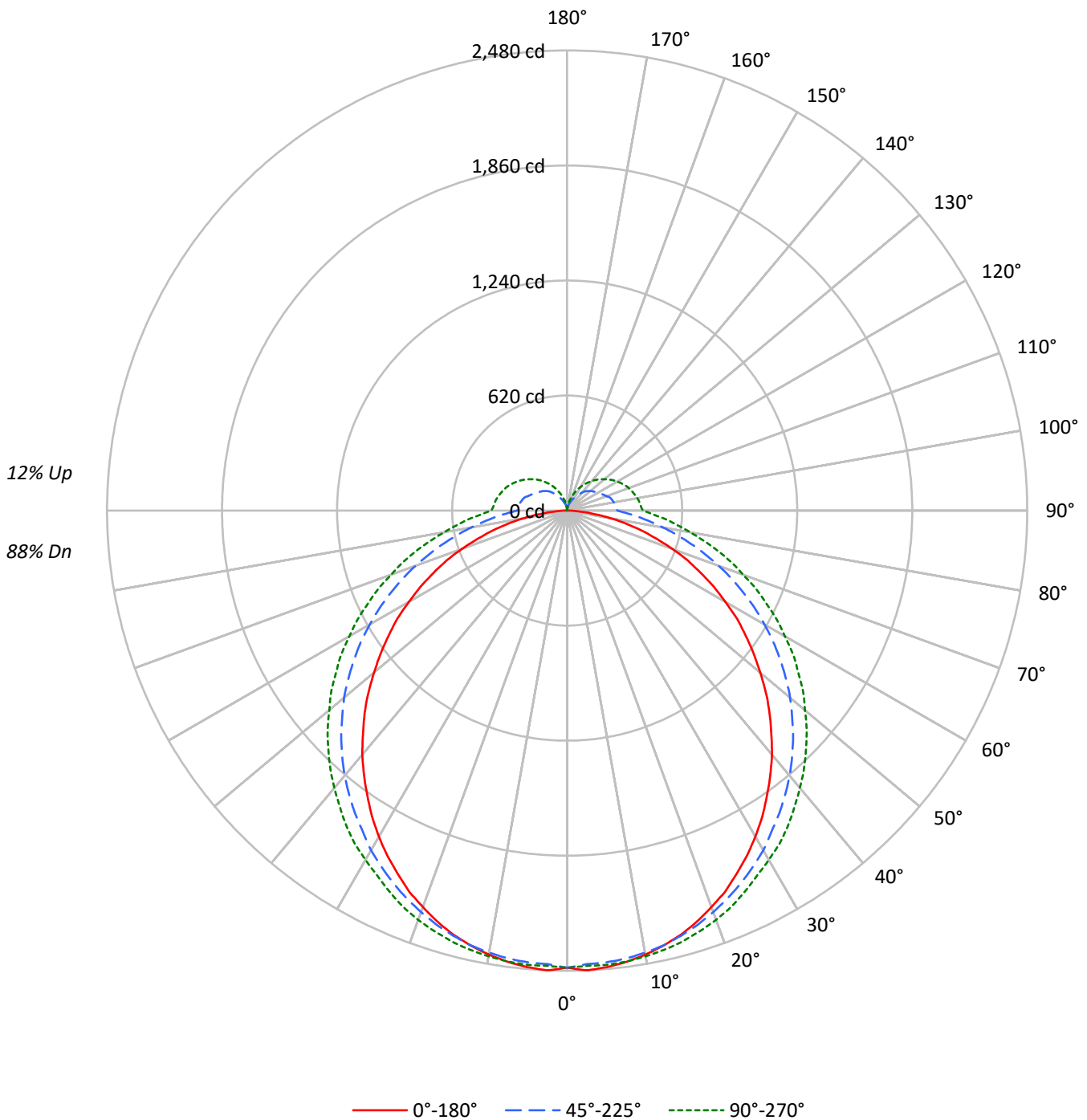
Test Method: LM-79-08  
Report Number: P567000  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-93HL-FDL-UNV-L840-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8869.0 lumens  
Efficiency: N/A  
Efficacy: 131.6 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): 67.4  
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	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°	26517	26517	26517
5°	26659	26118	26171
10°	26512	25873	25899
15°	26296	25578	25646
20°	25945	25225	25357
25°	25526	24866	24972
30°	25069	24505	24642
35°	24488	24073	24413
40°	23927	23715	24058
45°	23248	23300	23760
50°	22458	22861	23383
55°	21709	22316	23045
60°	20844	21737	22632
65°	19788	21072	22229
70°	18449	20341	21770
75°	16537	19543	21612
80°	13866	19048	21440
85°	10054	19440	22600



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	2.6
10°-20°	672.7	7.6
20°-30°	1023.4	11.5
30°-40°	1244.4	14.0
40°-50°	1316.5	14.8
50°-60°	1234.1	13.9
60°-70°	1015.2	11.4
70°-80°	702.4	7.9
80°-90°	390.6	4.4
90°-100°	257.3	2.9
100°-110°	230.8	2.6
110°-120°	191.0	2.2
120°-130°	147.7	1.7
130°-140°	104.5	1.2
140°-150°	63.0	0.7
150°-160°	30.3	0.3
160°-170°	9.9	0.1
170°-180°	1.2	0.0
0°-30°	1930.0	21.8
0°-40°	3174.4	35.8
0°-60°	5725.0	64.6
0°-90°	7833.3	88.3
90°-120°	679.1	7.7
90°-150°	994.3	11.2
90°-180°	1036.0	11.7
0°-180°	8869.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2464	2464	2464	2464	2464	
5°	2470	2465	2444	2464	2457	234
15°	2366	2374	2372	2404	2404	667
25°	2160	2190	2216	2264	2266	996
35°	1877	1927	1993	2056	2075	1175
45°	1543	1624	1722	1800	1821	1189
55°	1174	1279	1402	1490	1520	1051
65°	794	908	1050	1153	1185	788
75°	413	533	690	799	843	438
85°	91	226	383	489	532	105
90°	2	128	270	372	409	6
95°	2	122	263	360	395	1
105°	2	105	246	339	369	2
115°	3	91	208	301	334	2
125°	3	78	178	257	289	3
135°	3	61	149	211	237	2
145°	3	44	103	160	179	2
155°	5	30	64	102	118	2
165°	5	20	35	47	61	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2463.5	2463.5	2463.5	2463.5	2463.5
2.5°	2480.2	2472.6	2446.8	2463.5	2455.9
5°	2469.5	2465.0	2443.7	2463.5	2457.4
7.5°	2452.8	2451.3	2434.6	2457.4	2451.3
10°	2430.1	2433.1	2419.4	2443.7	2439.2
12.5°	2401.2	2405.8	2399.7	2427.0	2424.0
15°	2366.3	2373.9	2372.3	2404.2	2404.2
17.5°	2323.7	2334.4	2340.4	2376.9	2376.9
20°	2273.6	2290.3	2302.5	2342.0	2348.0
22.5°	2223.5	2243.2	2261.5	2302.5	2311.6
25°	2159.7	2190.1	2215.9	2264.5	2266.0
27.5°	2097.4	2130.9	2165.8	2212.9	2217.4
30°	2029.1	2071.6	2114.1	2159.7	2173.4
32.5°	1956.2	2003.3	2050.4	2111.1	2129.3
35°	1877.2	1927.3	1992.6	2056.4	2074.7
37.5°	1798.2	1854.4	1930.4	1995.7	2012.4
40°	1717.7	1780.0	1865.1	1931.9	1951.6
42.5°	1628.1	1704.1	1795.2	1866.6	1889.4
45°	1543.1	1623.6	1722.3	1799.8	1821.0
47.5°	1453.5	1538.5	1644.8	1726.9	1751.2
50°	1357.8	1455.0	1568.9	1650.9	1673.7
52.5°	1268.2	1366.9	1486.9	1571.9	1603.8
55°	1174.0	1278.8	1401.8	1489.9	1520.3
57.5°	1085.9	1186.2	1318.3	1406.4	1444.4
60°	985.7	1096.6	1228.7	1324.4	1354.8
62.5°	891.5	1003.9	1140.6	1239.3	1274.3
65°	794.3	908.2	1049.5	1152.8	1184.7
67.5°	703.2	815.6	959.9	1061.6	1102.6
70°	603.0	721.4	868.7	973.5	1008.5
72.5°	504.2	627.3	777.6	890.0	929.5
75°	413.1	533.1	689.5	798.9	842.9
77.5°	325.0	446.5	604.5	716.9	754.8
80°	236.9	364.5	525.5	636.4	672.8
82.5°	156.4	290.1	449.6	560.4	599.9
85°	91.1	226.3	382.7	489.0	531.6
87.5°	39.5	171.6	320.5	425.3	460.2
90°	1.5	127.6	270.3	372.1	408.6
92.5°	1.5	124.5	264.3	364.5	399.4
95°	1.5	121.5	262.7	360.0	394.9
97.5°	1.5	120.0	259.7	356.9	390.3
100°	1.5	115.4	255.2	350.8	384.3
102.5°	1.5	109.4	250.6	344.8	376.7
105°	1.5	104.8	246.0	338.7	369.1
107.5°	1.5	100.2	238.4	331.1	361.5
110°	1.5	95.7	226.3	323.5	353.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	94.2	217.2	312.9	344.8
115°	3.0	91.1	208.1	300.7	334.1
117.5°	3.0	89.6	200.5	288.6	323.5
120°	3.0	85.1	192.9	277.9	311.4
122.5°	3.0	80.5	185.3	267.3	300.7
125°	3.0	77.5	177.7	256.7	288.6
127.5°	3.0	72.9	171.6	246.0	274.9
130°	3.0	69.9	164.0	233.9	262.7
132.5°	3.0	65.3	156.4	221.7	249.1
135°	3.0	60.8	148.8	211.1	236.9
137.5°	3.0	54.7	139.7	199.0	223.3
140°	3.0	50.1	127.6	186.8	209.6
142.5°	3.0	47.1	115.4	173.1	194.4
145°	3.0	44.0	103.3	159.5	179.2
147.5°	3.0	41.0	92.6	145.8	164.0
150°	3.0	36.5	82.0	133.7	148.8
152.5°	4.6	33.4	72.9	118.5	133.7
155°	4.6	30.4	63.8	101.8	118.5
157.5°	4.6	27.3	54.7	85.1	103.3
160°	4.6	24.3	47.1	69.9	88.1
162.5°	4.6	22.8	41.0	57.7	74.4
165°	4.6	19.7	34.9	47.1	60.8
167.5°	4.6	15.2	28.9	36.5	50.1
170°	4.6	12.2	22.8	25.8	38.0
172.5°	4.6	9.1	16.7	18.2	19.7
175°	4.6	7.6	10.6	10.6	6.1
177.5°	4.6	6.1	6.1	6.1	3.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)