

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: P567032

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567032  
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-SLW-UNV-L840-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

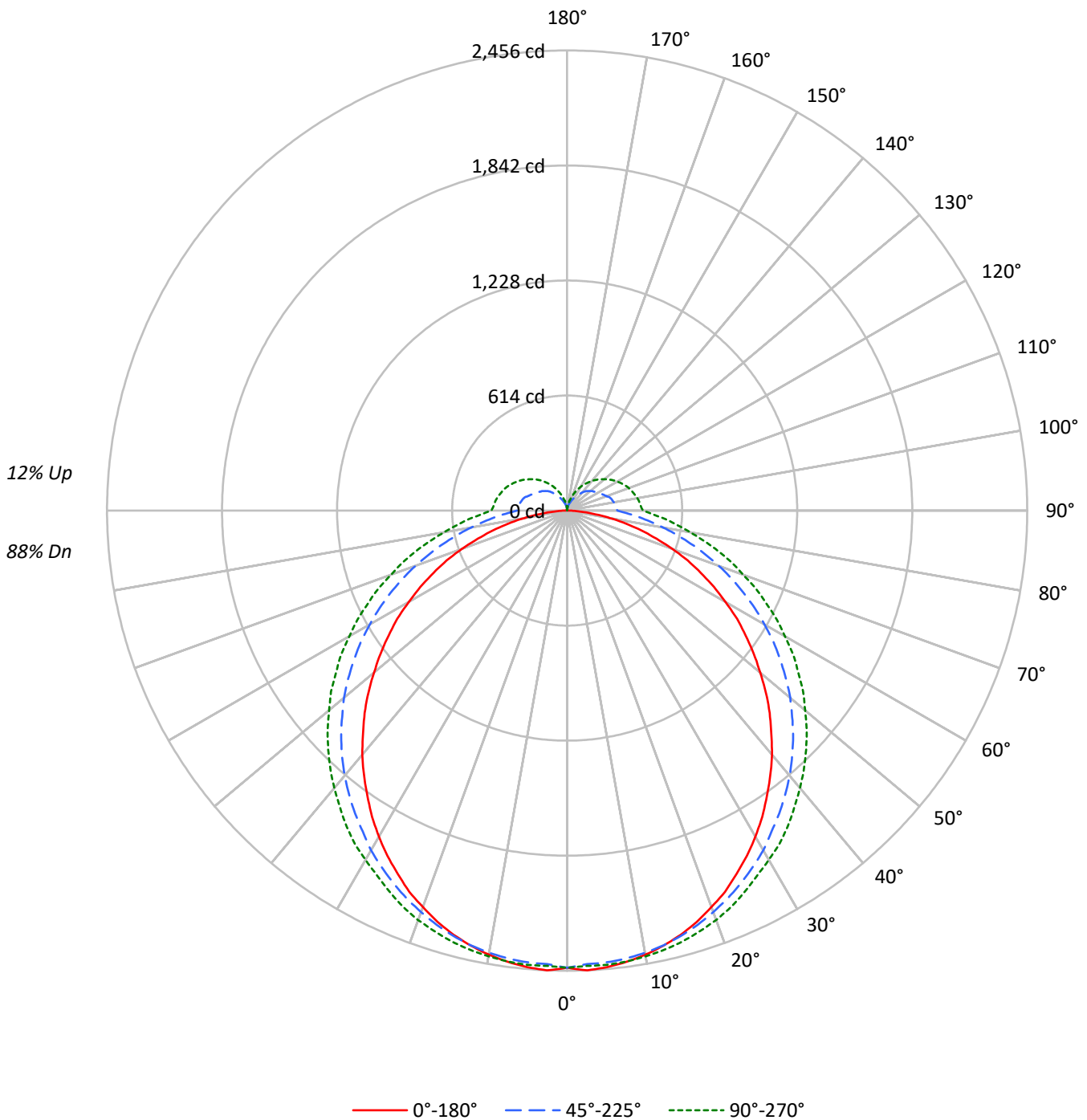
Lumens per Lamp: N/A  
Luminaire Lumens: 8784.0 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

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	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°	26263	26263	26263
5°	26380	25593	25555
10°	26210	25087	24944
15°	25972	24543	24367
20°	25600	23947	23766
25°	25161	23350	23081
30°	24682	22749	22450
35°	24081	22077	21908
40°	23496	21463	21242
45°	22792	20783	20612
50°	21976	20058	19890
55°	21193	19212	19168
60°	20286	18294	18340
65°	19183	17247	17456
70°	17781	16067	16439
75°	15791	14709	15506
80°	13017	13362	14329
85°	9014	12158	13561



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.6	2.6
10°-20°	666.3	7.6
20°-30°	1013.6	11.5
30°-40°	1232.5	14.0
40°-50°	1303.9	14.8
50°-60°	1222.2	13.9
60°-70°	1005.5	11.4
70°-80°	695.7	7.9
80°-90°	386.9	4.4
90°-100°	254.9	2.9
100°-110°	228.5	2.6
110°-120°	189.2	2.2
120°-130°	146.2	1.7
130°-140°	103.5	1.2
140°-150°	62.4	0.7
150°-160°	30.0	0.3
160°-170°	9.8	0.1
170°-180°	1.2	0.0
0°-30°	1911.5	21.8
0°-40°	3144.0	35.8
0°-60°	5670.1	64.6
0°-90°	7758.2	88.3
90°-120°	672.6	7.7
90°-150°	984.8	11.2
90°-180°	1026.0	11.7
0°-180°	8784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2440	2440	2440	2440	2440	
5°	2446	2441	2420	2440	2434	232
15°	2344	2351	2350	2381	2381	661
25°	2139	2169	2195	2243	2244	986
35°	1859	1909	1974	2037	2055	1164
45°	1528	1608	1706	1782	1804	1178
55°	1163	1267	1388	1476	1506	1041
65°	787	900	1039	1142	1173	780
75°	409	528	683	791	835	434
85°	90	224	379	484	526	104
90°	2	126	268	368	405	6
95°	2	120	260	356	391	1
105°	2	104	244	335	366	2
115°	3	90	206	298	331	2
125°	3	77	176	254	286	3
135°	3	60	147	209	235	2
145°	3	44	102	158	178	2
155°	4	30	63	101	117	2
165°	4	20	35	47	60	1
175°	4	8	10	10	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2439.9	2439.9	2439.9	2439.9	2439.9
2.5°	2456.4	2448.9	2423.3	2439.9	2432.3
5°	2445.9	2441.4	2420.3	2439.9	2433.8
7.5°	2429.3	2427.8	2411.3	2433.8	2427.8
10°	2406.8	2409.8	2396.2	2420.3	2415.8
12.5°	2378.2	2382.7	2376.7	2403.8	2400.7
15°	2343.6	2351.1	2349.6	2381.2	2381.2
17.5°	2301.5	2312.0	2318.0	2354.1	2354.1
20°	2251.8	2268.4	2280.4	2319.5	2325.5
22.5°	2202.2	2221.7	2239.8	2280.4	2289.4
25°	2139.0	2169.1	2194.7	2242.8	2244.3
27.5°	2077.3	2110.4	2145.0	2191.7	2196.2
30°	2009.6	2051.8	2093.9	2139.0	2152.5
32.5°	1937.4	1984.1	2030.7	2090.9	2108.9
35°	1859.2	1908.9	1973.5	2036.7	2054.8
37.5°	1781.0	1836.7	1911.9	1976.6	1993.1
40°	1701.3	1763.0	1847.2	1913.4	1932.9
42.5°	1612.5	1687.7	1778.0	1848.7	1871.3
45°	1528.3	1608.0	1705.8	1782.5	1803.6
47.5°	1439.5	1523.8	1629.1	1710.3	1734.4
50°	1344.8	1441.0	1553.9	1635.1	1657.7
52.5°	1256.0	1353.8	1472.6	1556.9	1588.5
55°	1162.8	1266.6	1388.4	1475.6	1505.7
57.5°	1075.5	1174.8	1305.7	1392.9	1430.5
60°	976.2	1086.1	1216.9	1311.7	1341.8
62.5°	883.0	994.3	1129.7	1227.4	1262.0
65°	786.7	899.5	1039.4	1141.7	1173.3
67.5°	696.5	807.8	950.7	1051.5	1092.1
70°	597.2	714.5	860.4	964.2	998.8
72.5°	499.4	621.2	770.2	881.5	920.6
75°	409.1	528.0	682.9	791.2	834.8
77.5°	321.9	442.2	598.7	710.0	747.6
80°	234.7	361.0	520.5	630.3	666.4
82.5°	154.9	287.3	445.3	555.1	594.2
85°	90.3	224.1	379.1	484.4	526.5
87.5°	39.1	170.0	317.4	421.2	455.8
90°	1.5	126.4	267.8	368.5	404.6
92.5°	1.5	123.3	261.7	361.0	395.6
95°	1.5	120.3	260.2	356.5	391.1
97.5°	1.5	118.8	257.2	353.5	386.6
100°	1.5	114.3	252.7	347.5	380.6
102.5°	1.5	108.3	248.2	341.5	373.0
105°	1.5	103.8	243.7	335.4	365.5
107.5°	1.5	99.3	236.2	327.9	358.0
110°	1.5	94.8	224.1	320.4	350.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	93.3	215.1	309.9	341.5
115°	3.0	90.3	206.1	297.8	330.9
117.5°	3.0	88.7	198.6	285.8	320.4
120°	3.0	84.2	191.0	275.3	308.4
122.5°	3.0	79.7	183.5	264.7	297.8
125°	3.0	76.7	176.0	254.2	285.8
127.5°	3.0	72.2	170.0	243.7	272.3
130°	3.0	69.2	162.5	231.7	260.2
132.5°	3.0	64.7	154.9	219.6	246.7
135°	3.0	60.2	147.4	209.1	234.7
137.5°	3.0	54.2	138.4	197.1	221.1
140°	3.0	49.6	126.4	185.0	207.6
142.5°	3.0	46.6	114.3	171.5	192.5
145°	3.0	43.6	102.3	157.9	177.5
147.5°	3.0	40.6	91.8	144.4	162.5
150°	3.0	36.1	81.2	132.4	147.4
152.5°	4.5	33.1	72.2	117.3	132.4
155°	4.5	30.1	63.2	100.8	117.3
157.5°	4.5	27.1	54.2	84.2	102.3
160°	4.5	24.1	46.6	69.2	87.2
162.5°	4.5	22.6	40.6	57.2	73.7
165°	4.5	19.6	34.6	46.6	60.2
167.5°	4.5	15.0	28.6	36.1	49.6
170°	4.5	12.0	22.6	25.6	37.6
172.5°	4.5	9.0	16.5	18.1	19.6
175°	4.5	7.5	10.5	10.5	6.0
177.5°	4.5	6.0	6.0	6.0	3.0
180°	3.0	3.0	3.0	3.0	3.0

(END OF REPORT)