

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: P567008

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-93HL-LC-UNV-L840-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

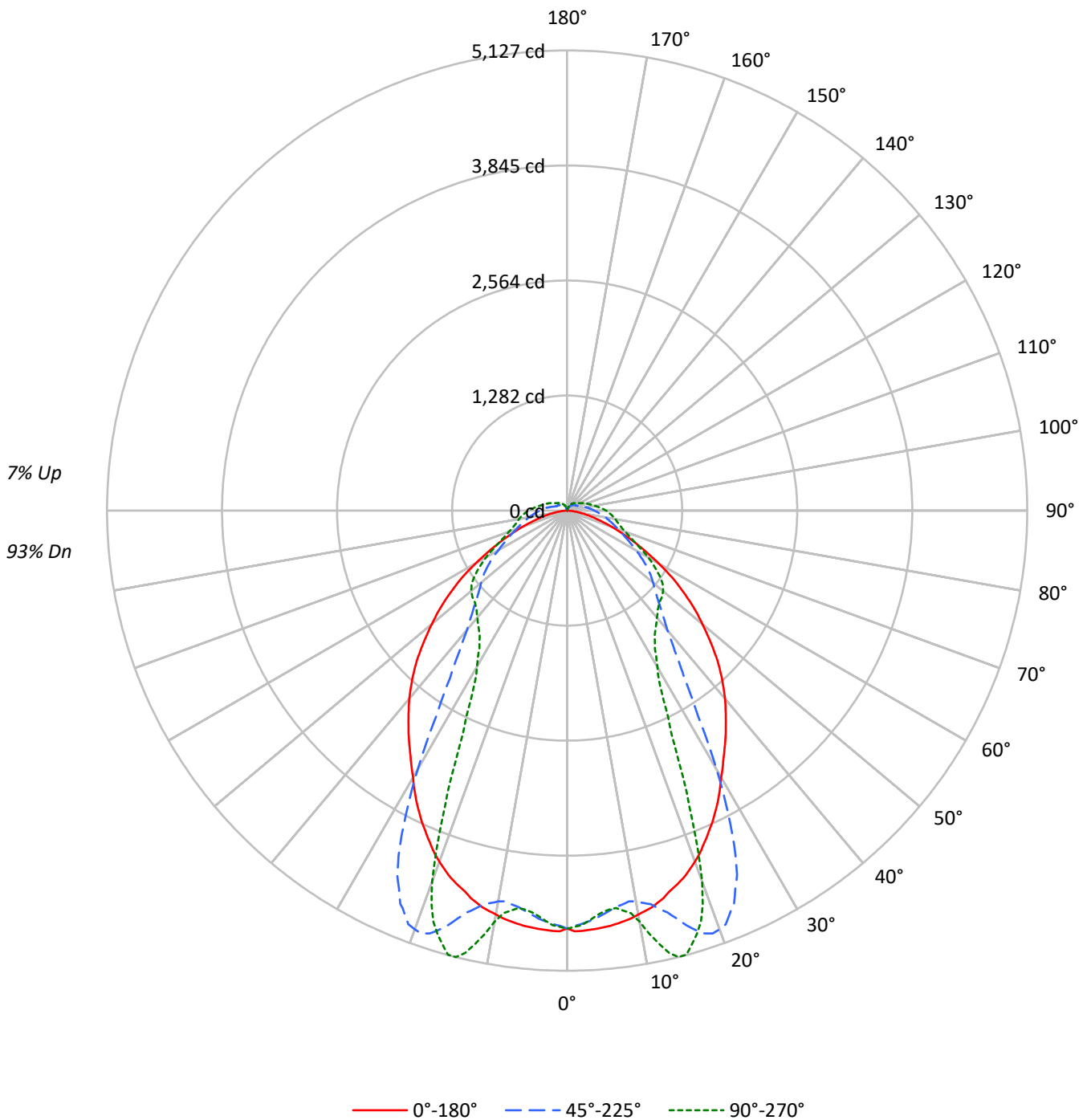
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10349.0 lumens  
Efficiency: N/A  
Efficacy: 153.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

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

	0°	45°	90°
0°	50122	50122	50122
5°	50183	46779	45880
10°	49581	44417	45496
15°	48427	46201	48433
20°	46962	48115	40535
25°	44604	43129	24923
30°	41673	32098	18038
35°	39279	22135	15217
40°	37133	17164	14024
45°	34636	14600	13263
50°	31384	13090	13019
55°	27959	11824	12045
60°	23572	10218	10420
65°	19025	8887	8695
70°	14769	7973	7656
75°	11262	7398	7141
80°	7686	6987	7067
85°	3965	6644	7017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.3	4.2
10°-20°	1324.0	12.8
20°-30°	1782.8	17.2
30°-40°	1687.2	16.3
40°-50°	1489.2	14.4
50°-60°	1209.6	11.7
60°-70°	822.6	7.9
70°-80°	529.3	5.1
80°-90°	352.0	3.4
90°-100°	241.9	2.3
100°-110°	162.4	1.6
110°-120°	114.5	1.1
120°-130°	81.8	0.8
130°-140°	57.7	0.6
140°-150°	35.8	0.3
150°-160°	17.5	0.2
160°-170°	6.1	0.1
170°-180°	1.1	0.0
0°-30°	3540.1	34.2
0°-40°	5227.4	50.5
0°-60°	7926.2	76.6
0°-90°	9630.1	93.1
90°-120°	518.8	5.0
90°-150°	694.2	6.7
90°-180°	719.0	6.9
0°-180°	10349.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4656	4656	4656	4656	4656	
5°	4661	4619	4519	4516	4494	442
15°	4394	4366	4702	5118	5123	1239
25°	3829	4540	4480	3253	2751	1757
35°	3076	4317	2275	1752	1699	1925
45°	2370	2904	1440	1422	1452	1820
55°	1578	1718	1081	1207	1253	1410
65°	814	926	724	804	830	817
75°	313	438	510	572	599	340
85°	47	186	362	458	490	62
90°	2	130	302	406	433	3
95°	2	100	254	344	368	1
105°	3	70	168	235	264	3
115°	3	60	123	175	198	4
125°	5	51	106	133	142	4
135°	6	40	87	111	117	5
145°	6	28	62	85	93	4
155°	8	17	38	57	65	4
165°	8	11	20	28	35	2
175°	10	10	10	10	8	1
180°	8	8	8	8	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4656.5	4656.5	4656.5	4656.5	4656.5
1°	4688.1	4673.9	4626.5	4651.8	4639.2
2°	4686.6	4662.9	4609.1	4637.6	4621.8
3°	4678.7	4653.4	4583.9	4601.2	4577.5
4°	4670.8	4640.7	4557.0	4557.0	4530.1
5°	4661.3	4618.6	4519.1	4515.9	4493.8
6°	4650.2	4601.2	4485.9	4482.7	4470.1
7°	4634.4	4571.2	4449.5	4471.7	4462.2
8°	4615.5	4542.8	4430.6	4485.9	4500.1
9°	4598.1	4508.0	4408.5	4530.1	4541.2
10°	4569.6	4476.4	4422.7	4618.6	4651.8
11°	4545.9	4449.5	4454.3	4705.5	4805.1
12°	4522.2	4421.1	4484.3	4814.5	4936.2
13°	4482.7	4399.0	4550.7	4933.1	5057.9
14°	4448.0	4381.6	4615.5	5053.1	5127.4
15°	4394.2	4365.8	4702.4	5117.9	5122.7
16°	4357.9	4354.7	4803.5	5122.7	5034.2
17°	4316.8	4350.0	4885.7	5040.5	4936.2
18°	4271.0	4359.5	4953.6	4937.8	4817.7
19°	4218.9	4369.0	4982.0	4795.6	4640.7
20°	4162.0	4383.2	4966.2	4647.1	4397.4
21°	4105.1	4402.1	4936.2	4490.6	4078.2
22.5°	3999.2	4448.0	4794.0	4051.4	3550.5
23°	3969.2	4457.4	4760.8	3913.9	3413.0
24°	3894.9	4497.0	4609.1	3593.1	3049.6
25°	3828.6	4539.6	4479.6	3253.4	2750.9
26°	3754.3	4571.2	4283.6	2940.6	2567.7
27°	3681.6	4590.2	4060.8	2697.2	2362.2
28°	3597.9	4610.7	3819.1	2487.1	2207.4
29°	3518.9	4613.9	3580.5	2319.6	2085.7
30°	3433.5	4598.1	3329.3	2185.3	2009.9
32.5°	3247.1	4511.2	2714.6	1929.3	1820.3
35°	3076.4	4316.8	2275.3	1752.3	1698.6
37.5°	2904.2	4010.3	1967.2	1641.7	1624.3
40°	2735.1	3646.9	1734.9	1553.2	1556.4
42.5°	2556.6	3272.4	1575.4	1480.5	1494.8
45°	2370.1	2904.2	1439.5	1422.1	1452.1
47.5°	2163.2	2567.7	1332.0	1384.2	1430.0
50°	1967.2	2234.3	1248.3	1347.8	1395.2
52.5°	1780.8	1960.9	1172.4	1286.2	1341.5
55°	1578.5	1717.6	1080.8	1207.2	1253.0
57.5°	1385.7	1497.9	984.4	1109.2	1150.3
60°	1174.0	1281.5	886.4	1003.4	1042.9
62.5°	982.8	1096.6	802.7	897.5	929.1
65°	813.7	925.9	723.7	804.3	829.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	663.6	783.7	658.9	726.8	750.5
70°	523.0	649.4	602.0	663.6	688.9
72.5°	409.2	537.2	554.6	611.5	636.8
75°	312.9	437.7	510.4	572.0	598.9
77.5°	232.3	357.1	469.3	540.4	568.8
80°	153.3	284.4	432.9	512.0	545.1
82.5°	96.4	229.1	396.6	483.5	518.3
85°	47.4	186.5	361.8	458.2	489.8
87.5°	15.8	154.8	330.2	432.9	459.8
90°	1.6	129.6	301.8	406.1	432.9
92.5°	1.6	112.2	278.1	374.5	401.3
95°	1.6	99.5	254.4	344.5	368.2
97.5°	1.6	90.1	232.3	312.9	338.1
100°	1.6	80.6	208.6	282.8	309.7
102.5°	3.2	74.3	188.0	257.6	286.0
105°	3.2	69.5	167.5	235.4	263.9
107.5°	3.2	66.4	150.1	218.1	244.9
110°	3.2	63.2	137.5	202.3	230.7
112.5°	3.2	61.6	129.6	188.0	214.9
115°	3.2	60.0	123.2	175.4	197.5
117.5°	4.7	58.5	118.5	162.7	180.1
120°	4.7	55.3	115.3	151.7	165.9
122.5°	4.7	52.1	110.6	142.2	153.3
125°	4.7	50.6	105.9	132.7	142.2
127.5°	4.7	47.4	101.1	124.8	134.3
130°	6.3	44.2	96.4	118.5	126.4
132.5°	6.3	41.1	91.6	115.3	121.7
135°	6.3	39.5	86.9	110.6	116.9
137.5°	6.3	36.3	82.2	105.9	112.2
140°	6.3	33.2	75.8	99.5	105.9
142.5°	6.3	31.6	69.5	93.2	99.5
145°	6.3	28.4	61.6	85.3	93.2
147.5°	7.9	26.9	55.3	79.0	85.3
150°	7.9	23.7	49.0	72.7	79.0
152.5°	7.9	20.5	42.7	64.8	71.1
155°	7.9	17.4	37.9	56.9	64.8
157.5°	7.9	15.8	33.2	47.4	56.9
160°	7.9	14.2	28.4	41.1	49.0
162.5°	7.9	12.6	25.3	34.8	42.7
165°	7.9	11.1	20.5	28.4	34.8
167.5°	9.5	11.1	17.4	22.1	28.4
170°	9.5	11.1	14.2	17.4	22.1
172.5°	9.5	9.5	11.1	12.6	14.2
175°	9.5	9.5	9.5	9.5	7.9
177.5°	9.5	9.5	9.5	7.9	7.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	7.9	7.9	7.9	7.9	7.9

(END OF REPORT)