

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: P567007

Luminaire Tested: **4SNX-93HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

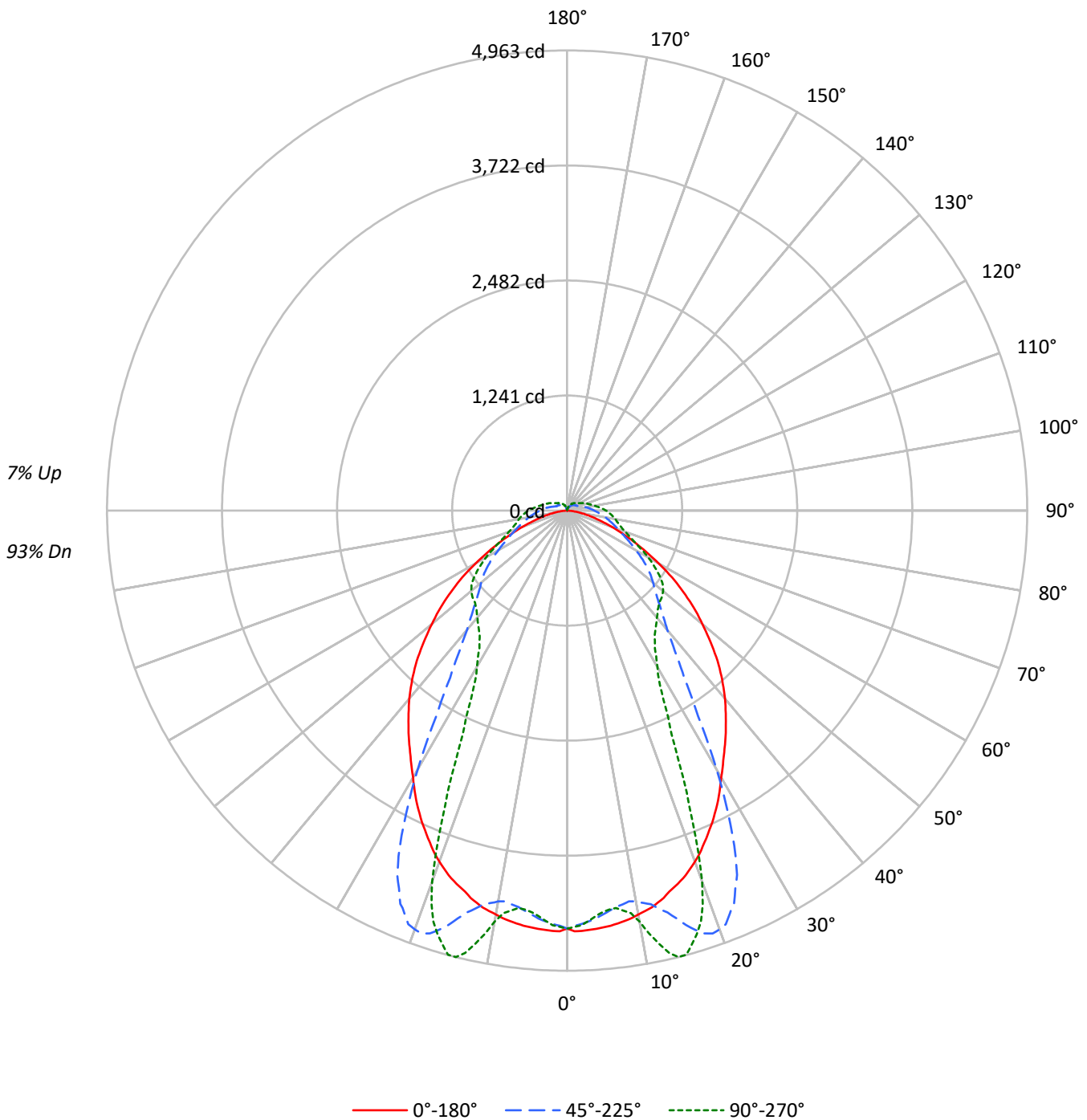
Test Method: LM-79-08  
Report Number: P567007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-93HL-LC-UNV-L835-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10018.0 lumens  
Efficiency: N/A  
Efficacy: 148.6 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 (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	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°	48519	48519	48519
5°	48577	45282	44413
10°	47996	42996	44041
15°	46878	44723	46884
20°	45460	46576	39239
25°	43177	41750	24127
30°	40340	31071	17461
35°	38023	21428	14730
40°	35947	16616	13575
45°	33528	14132	12839
50°	30380	12672	12603
55°	27064	11446	11660
60°	22819	9892	10086
65°	18417	8602	8418
70°	14297	7719	7412
75°	10902	7160	6912
80°	7441	6764	6842
85°	3840	6433	6794



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.4	4.2
10°-20°	1281.7	12.8
20°-30°	1725.8	17.2
30°-40°	1633.3	16.3
40°-50°	1441.6	14.4
50°-60°	1170.9	11.7
60°-70°	796.3	7.9
70°-80°	512.4	5.1
80°-90°	340.7	3.4
90°-100°	234.2	2.3
100°-110°	157.2	1.6
110°-120°	110.9	1.1
120°-130°	79.2	0.8
130°-140°	55.9	0.6
140°-150°	34.7	0.3
150°-160°	16.9	0.2
160°-170°	5.9	0.1
170°-180°	1.0	0.0
0°-30°	3426.9	34.2
0°-40°	5060.2	50.5
0°-60°	7672.7	76.6
0°-90°	9322.1	93.1
90°-120°	502.2	5.0
90°-150°	672.0	6.7
90°-180°	696.0	6.9
0°-180°	10018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4508	4508	4508	4508	4508	
5°	4512	4471	4374	4372	4350	428
15°	4254	4226	4552	4954	4959	1199
25°	3706	4394	4336	3149	2663	1701
35°	2978	4179	2203	1696	1644	1864
45°	2294	2811	1393	1377	1406	1762
55°	1528	1663	1046	1169	1213	1365
65°	788	896	700	778	803	791
75°	303	424	494	554	580	330
85°	46	180	350	444	474	60
90°	2	125	292	393	419	3
95°	2	96	246	333	356	1
105°	3	67	162	228	255	3
115°	3	58	119	170	191	4
125°	5	49	102	128	138	4
135°	6	38	84	107	113	5
145°	6	28	60	83	90	4
155°	8	17	37	55	63	4
165°	8	11	20	28	34	2
175°	9	9	9	9	8	1
180°	8	8	8	8	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4507.6	4507.6	4507.6	4507.6	4507.6
1°	4538.2	4524.4	4478.5	4503.0	4490.8
2°	4536.7	4513.7	4461.7	4489.3	4474.0
3°	4529.0	4504.5	4437.2	4454.1	4431.1
4°	4521.4	4492.3	4411.2	4411.2	4385.2
5°	4512.2	4470.9	4374.5	4371.5	4350.1
6°	4501.5	4454.1	4342.4	4339.4	4327.1
7°	4486.2	4425.0	4307.2	4328.6	4319.5
8°	4467.8	4397.5	4288.9	4342.4	4356.2
9°	4451.0	4363.8	4267.5	4385.2	4395.9
10°	4423.5	4333.2	4281.2	4470.9	4503.0
11°	4400.5	4307.2	4311.8	4555.0	4651.4
12°	4377.6	4279.7	4340.9	4660.6	4778.3
13°	4339.4	4258.3	4405.1	4775.3	4896.1
14°	4305.7	4241.5	4467.8	4891.5	4963.4
15°	4253.7	4226.2	4552.0	4954.2	4958.8
16°	4218.5	4215.5	4649.9	4958.8	4873.2
17°	4178.8	4210.9	4729.4	4879.3	4778.3
18°	4134.4	4220.0	4795.2	4779.9	4663.6
19°	4083.9	4229.2	4822.7	4642.2	4492.3
20°	4028.9	4243.0	4807.4	4498.4	4256.8
21°	3973.8	4261.3	4778.3	4347.0	3947.8
22.5°	3871.3	4305.7	4640.7	3921.8	3436.9
23°	3842.2	4314.9	4608.6	3788.7	3303.8
24°	3770.4	4353.1	4461.7	3478.2	2952.0
25°	3706.1	4394.4	4336.3	3149.4	2663.0
26°	3634.2	4425.0	4146.6	2846.5	2485.5
27°	3563.9	4443.4	3931.0	2611.0	2286.7
28°	3482.8	4463.2	3696.9	2407.5	2136.8
29°	3406.3	4466.3	3466.0	2245.4	2019.0
30°	3323.7	4451.0	3222.8	2115.4	1945.6
32.5°	3143.2	4366.9	2627.8	1867.6	1762.1
35°	2978.0	4178.8	2202.6	1696.3	1644.3
37.5°	2811.3	3882.0	1904.3	1589.2	1572.4
40°	2647.7	3530.2	1679.5	1503.6	1506.6
42.5°	2474.8	3167.7	1525.0	1433.2	1447.0
45°	2294.3	2811.3	1393.4	1376.6	1405.7
47.5°	2094.0	2485.5	1289.4	1339.9	1384.2
50°	1904.3	2162.8	1208.4	1304.7	1350.6
52.5°	1723.8	1898.2	1134.9	1245.1	1298.6
55°	1528.0	1662.6	1046.2	1168.6	1212.9
57.5°	1341.4	1450.0	952.9	1073.7	1113.5
60°	1136.5	1240.5	858.1	971.3	1009.5
62.5°	951.4	1061.5	777.0	868.8	899.4
65°	787.7	896.3	700.5	778.5	803.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	642.4	758.7	637.8	703.6	726.5
70°	506.3	628.6	582.8	642.4	666.9
72.5°	396.2	520.0	536.9	591.9	616.4
75°	302.9	423.7	494.0	553.7	579.7
77.5°	224.8	345.7	454.3	523.1	550.6
80°	148.4	275.3	419.1	495.6	527.7
82.5°	93.3	221.8	383.9	468.0	501.7
85°	45.9	180.5	350.3	443.6	474.2
87.5°	15.3	149.9	319.7	419.1	445.1
90°	1.5	125.4	292.1	393.1	419.1
92.5°	1.5	108.6	269.2	362.5	388.5
95°	1.5	96.4	246.3	333.4	356.4
97.5°	1.5	87.2	224.8	302.9	327.3
100°	1.5	78.0	201.9	273.8	299.8
102.5°	3.1	71.9	182.0	249.3	276.8
105°	3.1	67.3	162.1	227.9	255.4
107.5°	3.1	64.2	145.3	211.1	237.1
110°	3.1	61.2	133.1	195.8	223.3
112.5°	3.1	59.7	125.4	182.0	208.0
115°	3.1	58.1	119.3	169.8	191.2
117.5°	4.6	56.6	114.7	157.5	174.4
120°	4.6	53.5	111.7	146.8	160.6
122.5°	4.6	50.5	107.1	137.7	148.4
125°	4.6	48.9	102.5	128.5	137.7
127.5°	4.6	45.9	97.9	120.8	130.0
130°	6.1	42.8	93.3	114.7	122.4
132.5°	6.1	39.8	88.7	111.7	117.8
135°	6.1	38.2	84.1	107.1	113.2
137.5°	6.1	35.2	79.5	102.5	108.6
140°	6.1	32.1	73.4	96.4	102.5
142.5°	6.1	30.6	67.3	90.2	96.4
145°	6.1	27.5	59.7	82.6	90.2
147.5°	7.6	26.0	53.5	76.5	82.6
150°	7.6	22.9	47.4	70.4	76.5
152.5°	7.6	19.9	41.3	62.7	68.8
155°	7.6	16.8	36.7	55.1	62.7
157.5°	7.6	15.3	32.1	45.9	55.1
160°	7.6	13.8	27.5	39.8	47.4
162.5°	7.6	12.2	24.5	33.7	41.3
165°	7.6	10.7	19.9	27.5	33.7
167.5°	9.2	10.7	16.8	21.4	27.5
170°	9.2	10.7	13.8	16.8	21.4
172.5°	9.2	9.2	10.7	12.2	13.8
175°	9.2	9.2	9.2	9.2	7.6
177.5°	9.2	9.2	9.2	7.6	7.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	7.6	7.6	7.6	7.6	7.6

(END OF REPORT)