

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: P567031

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567031  
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-L835-CD  
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

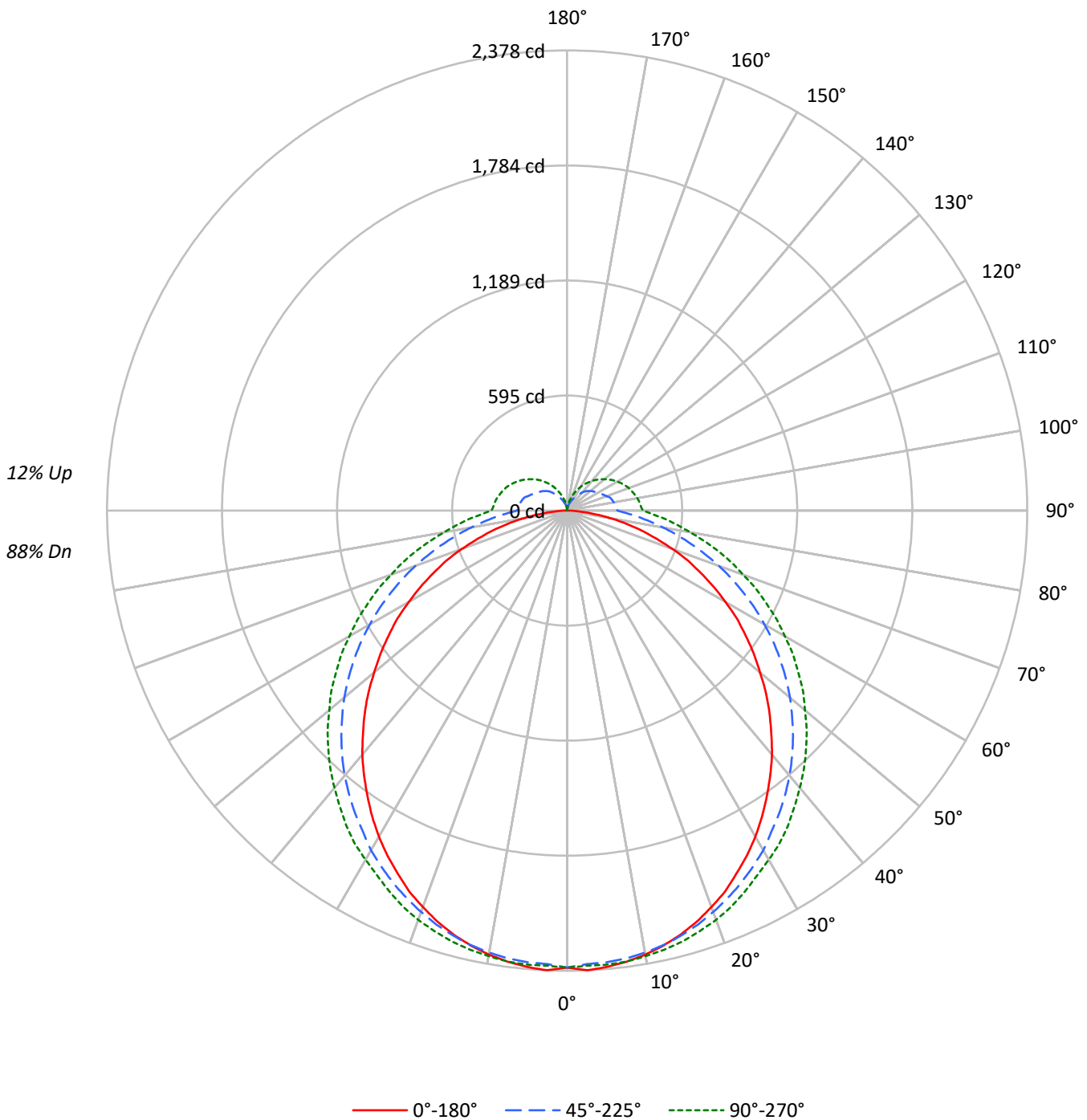
Lumens per Lamp: N/A  
Luminaire Lumens: 8502.0 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

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°	25419	25419	25419
5°	25533	24771	24735
10°	25369	24282	24143
15°	25137	23755	23585
20°	24778	23179	23004
25°	24353	22600	22341
30°	23890	22019	21730
35°	23307	21369	21204
40°	22742	20774	20561
45°	22059	20115	19950
50°	21270	19414	19250
55°	20512	18594	18553
60°	19636	17707	17751
65°	18569	16695	16895
70°	17209	15552	15911
75°	15285	14237	15008
80°	12595	12933	13869
85°	8725	11766	13126



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.2	2.6
10°-20°	644.9	7.6
20°-30°	981.1	11.5
30°-40°	1192.9	14.0
40°-50°	1262.0	14.8
50°-60°	1183.0	13.9
60°-70°	973.2	11.4
70°-80°	673.4	7.9
80°-90°	374.4	4.4
90°-100°	246.7	2.9
100°-110°	221.2	2.6
110°-120°	183.1	2.2
120°-130°	141.5	1.7
130°-140°	100.2	1.2
140°-150°	60.4	0.7
150°-160°	29.0	0.3
160°-170°	9.5	0.1
170°-180°	1.2	0.0
0°-30°	1850.2	21.8
0°-40°	3043.1	35.8
0°-60°	5488.1	64.6
0°-90°	7509.2	88.3
90°-120°	651.0	7.7
90°-150°	953.2	11.2
90°-180°	993.0	11.7
0°-180°	8502.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2362	2362	2362	2362	2362	
5°	2367	2363	2343	2362	2356	225
15°	2268	2276	2274	2305	2305	639
25°	2070	2100	2124	2171	2172	954
35°	1800	1848	1910	1971	1989	1126
45°	1479	1556	1651	1725	1746	1140
55°	1125	1226	1344	1428	1457	1007
65°	762	871	1006	1105	1136	755
75°	396	511	661	766	808	420
85°	87	217	367	469	510	101
90°	2	122	259	357	392	6
95°	2	116	252	345	378	1
105°	2	100	236	325	354	2
115°	3	87	200	288	320	2
125°	3	74	170	246	277	3
135°	3	58	143	202	227	2
145°	3	42	99	153	172	2
155°	4	29	61	98	114	2
165°	4	19	34	45	58	1
175°	4	7	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°	2361.5	2361.5	2361.5	2361.5	2361.5
2.5°	2377.5	2370.3	2345.5	2361.5	2354.2
5°	2367.4	2363.0	2342.6	2361.5	2355.7
7.5°	2351.3	2349.9	2333.9	2355.7	2349.9
10°	2329.5	2332.4	2319.3	2342.6	2338.2
12.5°	2301.8	2306.2	2300.4	2326.6	2323.7
15°	2268.3	2275.6	2274.2	2304.7	2304.7
17.5°	2227.6	2237.8	2243.6	2278.5	2278.5
20°	2179.5	2195.6	2207.2	2245.1	2250.9
22.5°	2131.5	2150.4	2167.9	2207.2	2215.9
25°	2070.3	2099.5	2124.2	2170.8	2172.3
27.5°	2010.6	2042.7	2076.2	2121.3	2125.7
30°	1945.1	1985.9	2026.7	2070.3	2083.4
32.5°	1875.2	1920.4	1965.5	2023.7	2041.2
35°	1799.5	1847.6	1910.2	1971.3	1988.8
37.5°	1723.8	1777.7	1850.5	1913.1	1929.1
40°	1646.7	1706.4	1787.9	1851.9	1870.9
42.5°	1560.8	1633.6	1720.9	1789.3	1811.2
45°	1479.2	1556.4	1651.0	1725.3	1745.7
47.5°	1393.3	1474.9	1576.8	1655.4	1678.7
50°	1301.6	1394.8	1504.0	1582.6	1604.4
52.5°	1215.7	1310.3	1425.4	1506.9	1537.5
55°	1125.4	1225.9	1343.8	1428.3	1457.4
57.5°	1041.0	1137.1	1263.8	1348.2	1384.6
60°	944.9	1051.2	1177.9	1269.6	1298.7
62.5°	854.6	962.4	1093.4	1188.0	1221.5
65°	761.5	870.6	1006.1	1105.1	1135.6
67.5°	674.1	781.8	920.2	1017.7	1057.0
70°	578.0	691.6	832.8	933.3	966.7
72.5°	483.4	601.3	745.4	853.2	891.0
75°	396.0	511.0	661.0	765.8	808.0
77.5°	311.6	428.0	579.5	687.2	723.6
80°	227.1	349.4	503.8	610.0	645.0
82.5°	150.0	278.1	431.0	537.2	575.1
85°	87.4	216.9	366.9	468.8	509.6
87.5°	37.9	164.5	307.2	407.7	441.1
90°	1.5	122.3	259.2	356.7	391.6
92.5°	1.5	119.4	253.3	349.4	382.9
95°	1.5	116.5	251.9	345.1	378.5
97.5°	1.5	115.0	249.0	342.1	374.2
100°	1.5	110.7	244.6	336.3	368.4
102.5°	1.5	104.8	240.2	330.5	361.1
105°	1.5	100.5	235.9	324.7	353.8
107.5°	1.5	96.1	228.6	317.4	346.5
110°	1.5	91.7	216.9	310.1	339.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	90.3	208.2	299.9	330.5
115°	2.9	87.4	199.5	288.3	320.3
117.5°	2.9	85.9	192.2	276.6	310.1
120°	2.9	81.5	184.9	266.4	298.5
122.5°	2.9	77.2	177.6	256.2	288.3
125°	2.9	74.3	170.3	246.1	276.6
127.5°	2.9	69.9	164.5	235.9	263.5
130°	2.9	67.0	157.2	224.2	251.9
132.5°	2.9	62.6	150.0	212.6	238.8
135°	2.9	58.2	142.7	202.4	227.1
137.5°	2.9	52.4	133.9	190.7	214.0
140°	2.9	48.0	122.3	179.1	200.9
142.5°	2.9	45.1	110.7	166.0	186.4
145°	2.9	42.2	99.0	152.9	171.8
147.5°	2.9	39.3	88.8	139.8	157.2
150°	2.9	34.9	78.6	128.1	142.7
152.5°	4.4	32.0	69.9	113.6	128.1
155°	4.4	29.1	61.1	97.5	113.6
157.5°	4.4	26.2	52.4	81.5	99.0
160°	4.4	23.3	45.1	67.0	84.4
162.5°	4.4	21.8	39.3	55.3	71.3
165°	4.4	18.9	33.5	45.1	58.2
167.5°	4.4	14.6	27.7	34.9	48.0
170°	4.4	11.6	21.8	24.8	36.4
172.5°	4.4	8.7	16.0	17.5	18.9
175°	4.4	7.3	10.2	10.2	5.8
177.5°	4.4	5.8	5.8	5.8	2.9
180°	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)