

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: P566457

Luminaire Tested: **4SNX-45SL-SLW-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-45SL-SLW-UNV-L850-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

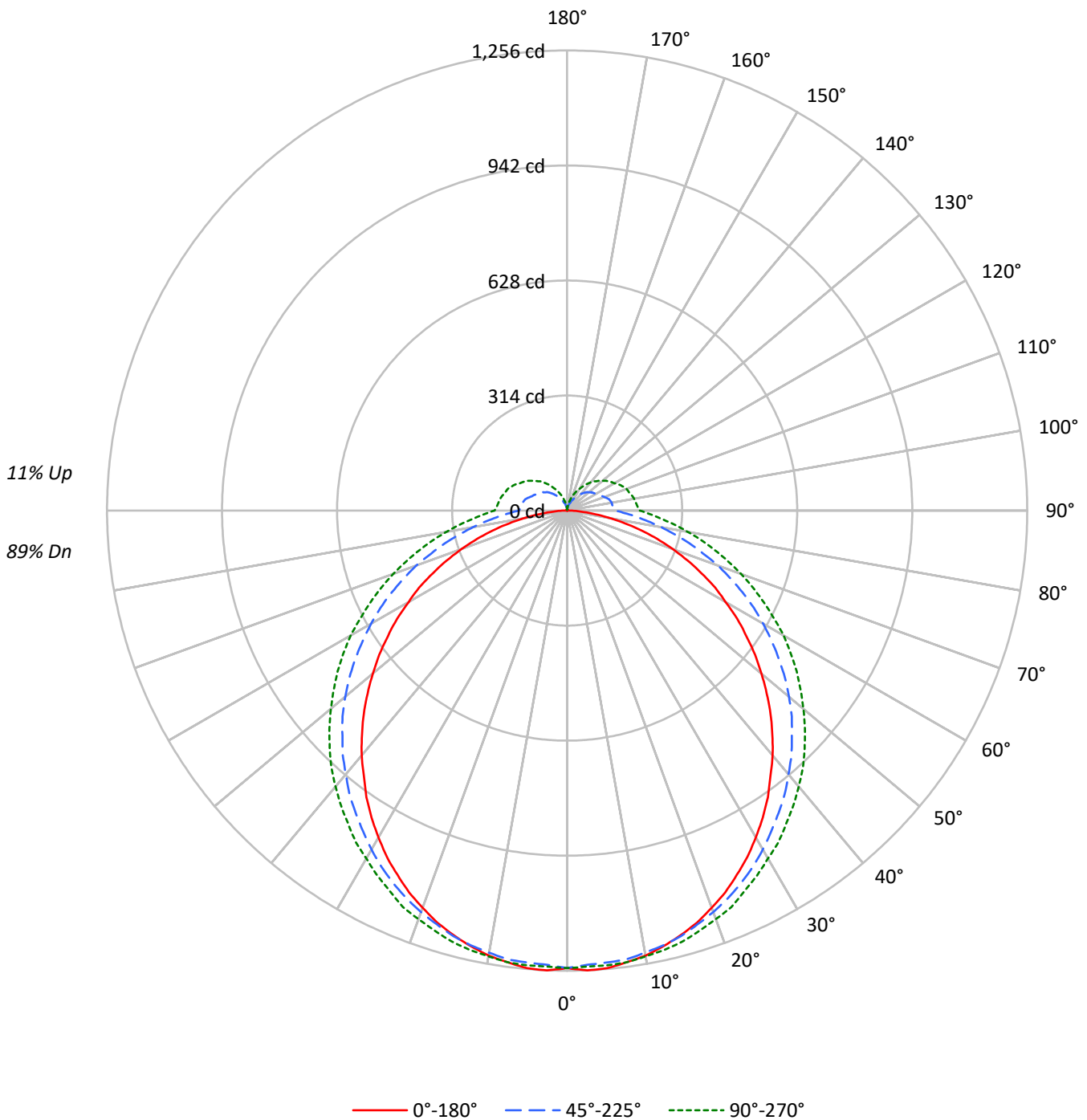
Lumens per Lamp: N/A  
Luminaire Lumens: 4445.0 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 29.8  
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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

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

	0°	45°	90°
0°	13440	13440	13440
5°	13523	13094	13083
10°	13430	12829	12759
15°	13295	12559	12461
20°	13113	12247	12129
25°	12900	11943	11782
30°	12648	11608	11438
35°	12371	11260	11117
40°	12053	10919	10807
45°	11710	10570	10474
50°	11317	10203	10100
55°	10887	9761	9734
60°	10378	9289	9324
65°	9856	8758	8809
70°	9123	8174	8305
75°	8148	7431	7747
80°	6567	6675	7197
85°	4622	6026	6630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.6	2.7
10°-20°	340.9	7.7
20°-30°	518.3	11.7
30°-40°	629.2	14.2
40°-50°	664.9	15.0
50°-60°	622.2	14.0
60°-70°	510.5	11.5
70°-80°	351.1	7.9
80°-90°	192.3	4.3
90°-100°	123.8	2.8
100°-110°	111.1	2.5
110°-120°	92.0	2.1
120°-130°	70.8	1.6
130°-140°	49.8	1.1
140°-150°	30.0	0.7
150°-160°	14.4	0.3
160°-170°	4.7	0.1
170°-180°	0.6	0.0
0°-30°	977.8	22.0
0°-40°	1607.0	36.2
0°-60°	2894.0	65.1
0°-90°	3947.9	88.8
90°-120°	326.9	7.4
90°-150°	477.5	10.7
90°-180°	497.0	11.2
0°-180°	4445.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1254	1251	1238	1249	1246	119
15°	1200	1205	1202	1218	1218	338
25°	1097	1110	1122	1146	1146	505
35°	955	978	1007	1035	1043	597
45°	785	821	868	906	916	605
55°	597	646	705	749	765	534
65°	404	458	528	577	592	400
75°	211	268	345	399	417	222
85°	46	111	188	239	257	54
90°	0	62	131	180	198	3
95°	0	59	126	172	190	0
105°	0	49	118	162	178	2
115°	3	44	100	144	162	3
125°	3	36	85	124	139	2
135°	3	28	70	100	113	2
145°	3	21	49	77	85	2
155°	3	13	31	49	57	1
165°	3	8	15	23	28	1
175°	3	3	5	5	3	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1248.6	1248.6	1248.6	1248.6	1248.6
2.5°	1256.3	1253.8	1240.9	1251.2	1246.0
5°	1253.8	1251.2	1238.3	1248.6	1246.0
7.5°	1243.5	1243.5	1235.7	1246.0	1243.5
10°	1233.2	1233.2	1225.4	1238.3	1235.7
12.5°	1217.7	1220.3	1215.1	1230.6	1228.0
15°	1199.7	1204.8	1202.3	1217.7	1217.7
17.5°	1179.1	1184.2	1184.2	1202.3	1202.3
20°	1153.4	1161.1	1166.2	1186.8	1186.8
22.5°	1127.6	1137.9	1145.6	1163.7	1171.4
25°	1096.7	1109.6	1122.5	1145.6	1145.6
27.5°	1065.8	1081.3	1096.7	1119.9	1122.5
30°	1029.8	1047.8	1068.4	1091.6	1096.7
32.5°	993.7	1016.9	1037.5	1065.8	1073.5
35°	955.1	978.3	1006.6	1034.9	1042.7
37.5°	911.4	939.7	975.7	1006.6	1014.3
40°	872.7	903.6	939.7	975.7	983.4
42.5°	829.0	862.4	906.2	939.7	952.5
45°	785.2	821.3	867.6	906.2	916.5
47.5°	738.9	780.1	831.5	867.6	880.5
50°	692.5	736.3	790.4	831.5	841.8
52.5°	646.2	692.5	749.2	790.4	803.2
55°	597.3	646.2	705.4	749.2	764.6
57.5°	550.9	599.8	661.6	708.0	723.4
60°	499.4	556.1	617.9	664.2	682.2
62.5°	455.7	507.2	574.1	620.4	635.9
65°	404.2	458.3	527.8	576.7	592.1
67.5°	355.3	411.9	481.4	532.9	548.4
70°	306.4	363.0	437.7	486.6	504.6
72.5°	257.4	316.7	388.7	442.8	460.8
75°	211.1	267.7	345.0	399.0	417.1
77.5°	162.2	224.0	301.2	355.3	375.9
80°	118.4	182.8	260.0	314.1	334.7
82.5°	79.8	144.2	221.4	275.5	296.1
85°	46.3	110.7	187.9	239.4	257.4
87.5°	23.2	85.0	157.0	208.5	226.6
90°	0.0	61.8	131.3	180.2	198.2
92.5°	0.0	59.2	128.7	175.1	193.1
95°	0.0	59.2	126.1	172.5	190.5
97.5°	0.0	56.6	123.6	172.5	187.9
100°	0.0	54.1	123.6	169.9	185.4
102.5°	0.0	51.5	121.0	167.3	182.8
105°	0.0	48.9	118.4	162.2	177.6
107.5°	2.6	48.9	113.3	159.6	175.1
110°	2.6	46.3	108.1	157.0	172.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	43.8	103.0	151.9	167.3
115°	2.6	43.8	100.4	144.2	162.2
117.5°	2.6	41.2	95.3	139.0	157.0
120°	2.6	41.2	92.7	133.9	149.3
122.5°	2.6	38.6	87.5	128.7	144.2
125°	2.6	36.0	85.0	123.6	139.0
127.5°	2.6	33.5	82.4	118.4	133.9
130°	2.6	30.9	77.2	113.3	126.1
132.5°	2.6	30.9	74.7	105.6	121.0
135°	2.6	28.3	69.5	100.4	113.3
137.5°	2.6	25.7	64.4	95.3	108.1
140°	2.6	23.2	59.2	90.1	100.4
142.5°	2.6	23.2	54.1	82.4	92.7
145°	2.6	20.6	48.9	77.2	85.0
147.5°	2.6	18.0	43.8	69.5	77.2
150°	2.6	18.0	38.6	61.8	69.5
152.5°	2.6	15.4	33.5	56.6	64.4
155°	2.6	12.9	30.9	48.9	56.6
157.5°	2.6	12.9	25.7	41.2	48.9
160°	2.6	10.3	23.2	33.5	41.2
162.5°	2.6	10.3	20.6	28.3	36.0
165°	2.6	7.7	15.4	23.2	28.3
167.5°	2.6	7.7	12.9	18.0	23.2
170°	2.6	5.1	10.3	12.9	18.0
172.5°	2.6	5.1	7.7	7.7	7.7
175°	2.6	2.6	5.1	5.1	2.6
177.5°	2.6	2.6	2.6	2.6	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)