

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: P566448

Luminaire Tested: **4SNX-45SL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566448  
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-LW-UNV-L840-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

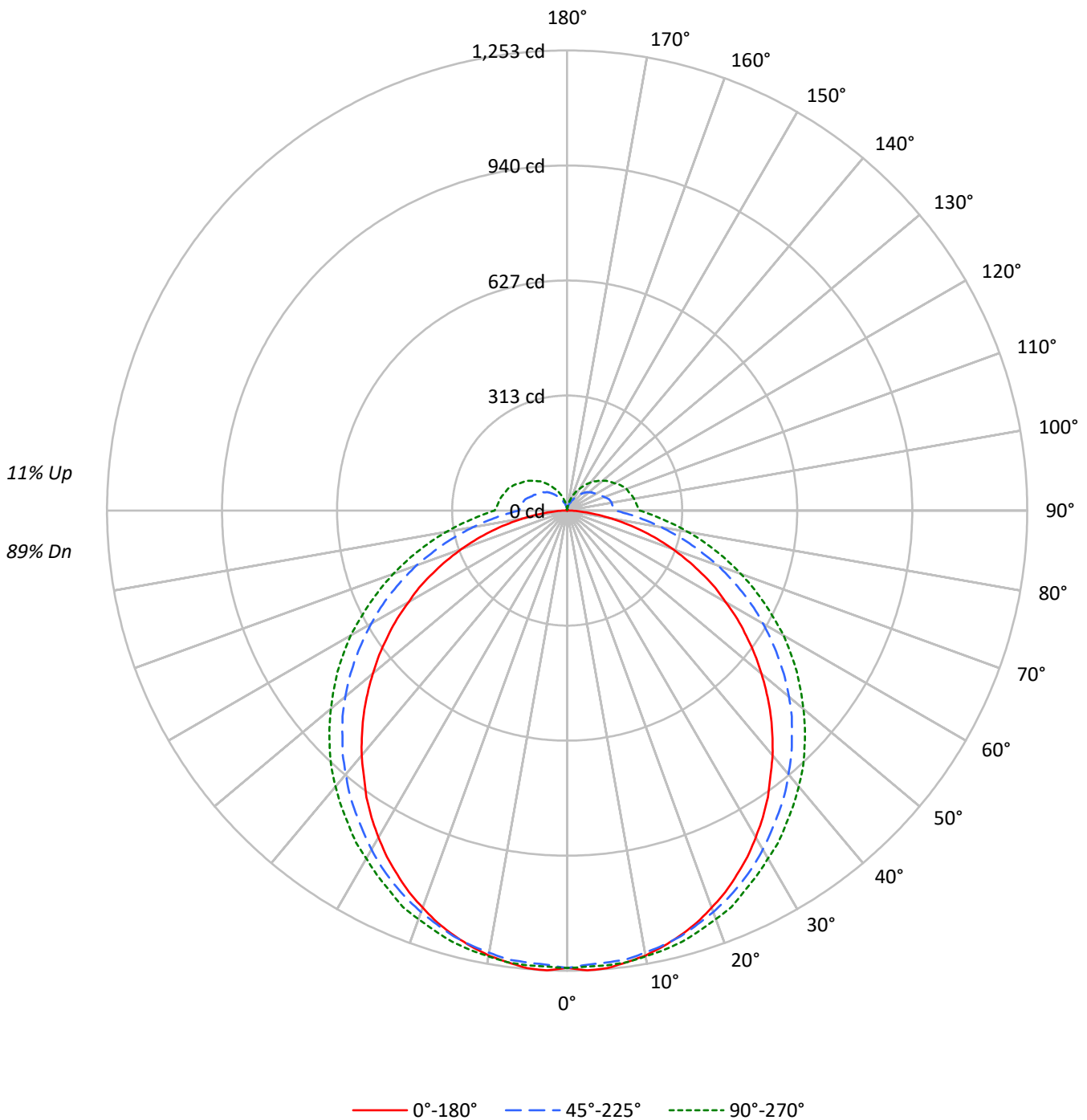
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4434.0 lumens  
Efficiency: N/A  
Efficacy: 148.8 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: 0.17')  
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°	13406	13406	13406
5°	13465	12786	12690
10°	13347	12277	12056
15°	13188	11783	11485
20°	12982	11271	10913
25°	12745	10780	10354
30°	12467	10275	9818
35°	12165	9768	9318
40°	11820	9274	8839
45°	11447	8777	8350
50°	11021	8267	7837
55°	10553	7699	7332
60°	10003	7104	6799
65°	9427	6465	6192
70°	8630	5783	5594
75°	7580	4987	4960
80°	5921	4187	4329
85°	3865	3443	3679



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	2.7
10°-20°	340.0	7.7
20°-30°	517.0	11.7
30°-40°	627.6	14.2
40°-50°	663.2	15.0
50°-60°	620.6	14.0
60°-70°	509.2	11.5
70°-80°	350.3	7.9
80°-90°	191.8	4.3
90°-100°	123.5	2.8
100°-110°	110.8	2.5
110°-120°	91.7	2.1
120°-130°	70.6	1.6
130°-140°	49.6	1.1
140°-150°	29.9	0.7
150°-160°	14.3	0.3
160°-170°	4.7	0.1
170°-180°	0.6	0.0
0°-30°	975.4	22.0
0°-40°	1603.0	36.2
0°-60°	2886.9	65.1
0°-90°	3938.2	88.8
90°-120°	326.1	7.4
90°-150°	476.3	10.7
90°-180°	496.0	11.2
0°-180°	4434.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1251	1248	1235	1246	1243	119
15°	1197	1202	1199	1215	1215	337
25°	1094	1107	1120	1143	1143	504
35°	953	976	1004	1032	1040	595
45°	783	819	865	904	914	604
55°	596	645	704	747	763	533
65°	403	457	526	575	591	399
75°	211	267	344	398	416	222
85°	46	110	188	239	257	53
90°	0	62	131	180	198	3
95°	0	59	126	172	190	0
105°	0	49	118	162	177	2
115°	3	44	100	144	162	3
125°	3	36	85	123	139	2
135°	3	28	69	100	113	2
145°	3	20	49	77	85	2
155°	3	13	31	49	56	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°	1245.5	1245.5	1245.5	1245.5	1245.5
2.5°	1253.2	1250.7	1237.8	1248.1	1243.0
5°	1250.7	1248.1	1235.2	1245.5	1243.0
7.5°	1240.4	1240.4	1232.7	1243.0	1240.4
10°	1230.1	1230.1	1222.4	1235.2	1232.7
12.5°	1214.7	1217.3	1212.1	1227.5	1225.0
15°	1196.7	1201.9	1199.3	1214.7	1214.7
17.5°	1176.2	1181.3	1181.3	1199.3	1199.3
20°	1150.5	1158.2	1163.3	1183.9	1183.9
22.5°	1124.8	1135.1	1142.8	1160.8	1168.5
25°	1094.0	1106.8	1119.7	1142.8	1142.8
27.5°	1063.2	1078.6	1094.0	1117.1	1119.7
30°	1027.2	1045.2	1065.8	1088.9	1094.0
32.5°	991.3	1014.4	1034.9	1063.2	1070.9
35°	952.8	975.9	1004.1	1032.4	1040.1
37.5°	909.1	937.4	973.3	1004.1	1011.8
40°	870.6	901.4	937.4	973.3	981.0
42.5°	826.9	860.3	904.0	937.4	950.2
45°	783.3	819.2	865.4	904.0	914.2
47.5°	737.0	778.1	829.5	865.4	878.3
50°	690.8	734.5	788.4	829.5	839.8
52.5°	644.6	690.8	747.3	788.4	801.2
55°	595.8	644.6	703.7	747.3	762.7
57.5°	549.6	598.4	660.0	706.2	721.6
60°	498.2	554.7	616.3	662.6	680.5
62.5°	454.6	505.9	572.7	618.9	634.3
65°	403.2	457.1	526.5	575.3	590.7
67.5°	354.4	410.9	480.2	531.6	547.0
70°	305.6	362.1	436.6	485.4	503.3
72.5°	256.8	315.9	387.8	441.7	459.7
75°	210.6	267.1	344.1	398.1	416.0
77.5°	161.8	223.4	300.5	354.4	374.9
80°	118.1	182.3	259.4	313.3	333.9
82.5°	79.6	143.8	220.9	274.8	295.3
85°	46.2	110.4	187.5	238.8	256.8
87.5°	23.1	84.7	156.7	208.0	226.0
90°	0.0	61.6	131.0	179.8	197.7
92.5°	0.0	59.1	128.4	174.6	192.6
95°	0.0	59.1	125.8	172.1	190.0
97.5°	0.0	56.5	123.3	172.1	187.5
100°	0.0	53.9	123.3	169.5	184.9
102.5°	0.0	51.4	120.7	166.9	182.3
105°	0.0	48.8	118.1	161.8	177.2
107.5°	2.6	48.8	113.0	159.2	174.6
110°	2.6	46.2	107.9	156.7	172.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	43.7	102.7	151.5	166.9
115°	2.6	43.7	100.2	143.8	161.8
117.5°	2.6	41.1	95.0	138.7	156.7
120°	2.6	41.1	92.5	133.5	148.9
122.5°	2.6	38.5	87.3	128.4	143.8
125°	2.6	36.0	84.7	123.3	138.7
127.5°	2.6	33.4	82.2	118.1	133.5
130°	2.6	30.8	77.0	113.0	125.8
132.5°	2.6	30.8	74.5	105.3	120.7
135°	2.6	28.2	69.3	100.2	113.0
137.5°	2.6	25.7	64.2	95.0	107.9
140°	2.6	23.1	59.1	89.9	100.2
142.5°	2.6	23.1	53.9	82.2	92.5
145°	2.6	20.5	48.8	77.0	84.7
147.5°	2.6	18.0	43.7	69.3	77.0
150°	2.6	18.0	38.5	61.6	69.3
152.5°	2.6	15.4	33.4	56.5	64.2
155°	2.6	12.8	30.8	48.8	56.5
157.5°	2.6	12.8	25.7	41.1	48.8
160°	2.6	10.3	23.1	33.4	41.1
162.5°	2.6	10.3	20.5	28.2	36.0
165°	2.6	7.7	15.4	23.1	28.2
167.5°	2.6	7.7	12.8	18.0	23.1
170°	2.6	5.1	10.3	12.8	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)