

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: P566454

Luminaire Tested: **4SNX-45SL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566454  
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-L830-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

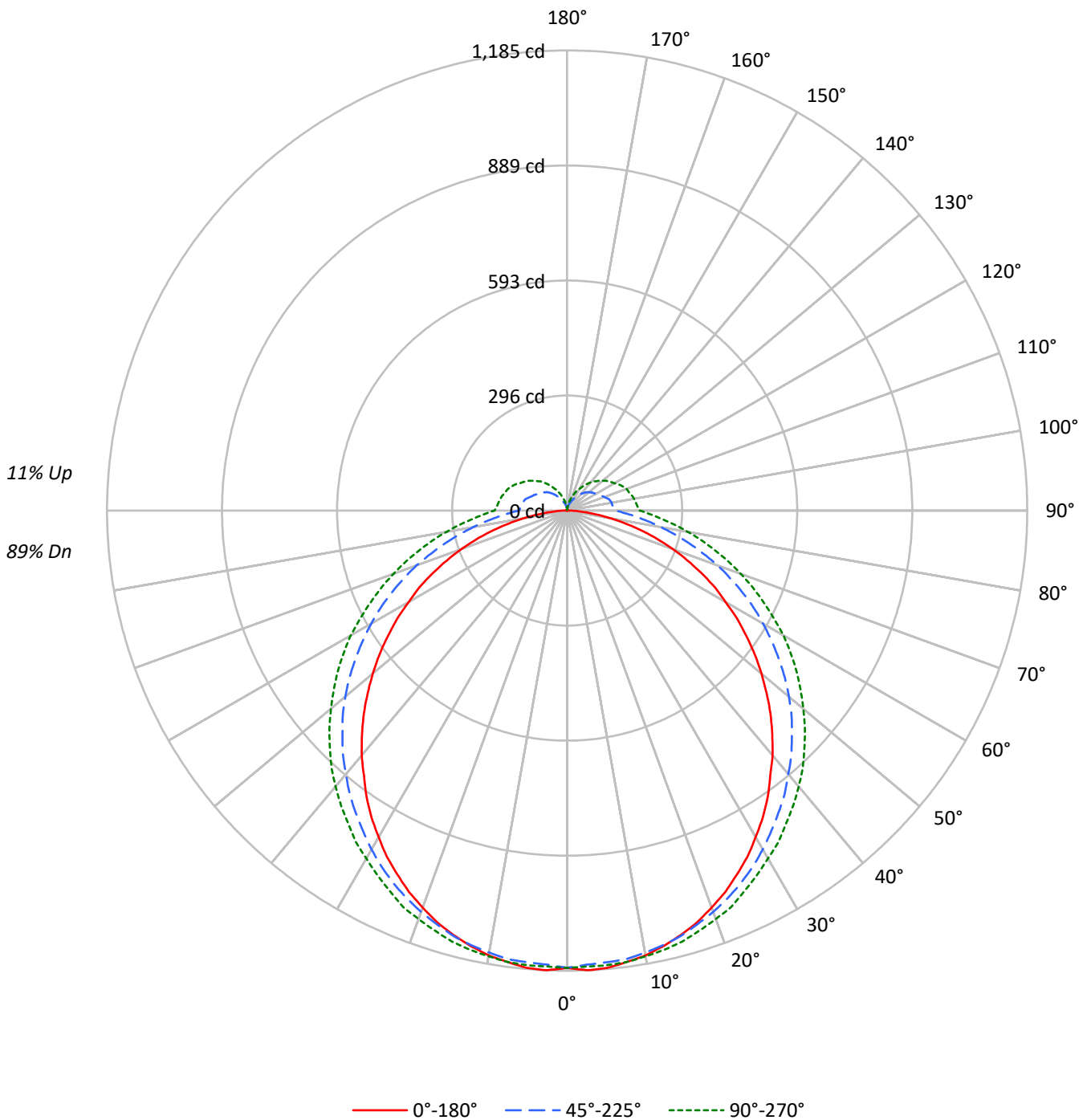
Lumens per Lamp: N/A  
Luminaire Lumens: 4192.0 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

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	77	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°	12675	12675	12675
5°	12753	12349	12339
10°	12665	12100	12033
15°	12538	11843	11752
20°	12366	11549	11439
25°	12166	11263	11111
30°	11928	10947	10788
35°	11667	10619	10484
40°	11368	10297	10193
45°	11043	9969	9877
50°	10673	9622	9526
55°	10267	9206	9180
60°	9788	8760	8794
65°	9295	8259	8307
70°	8602	7707	7833
75°	7685	7006	7305
80°	6195	6295	6786
85°	4362	5683	6254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	2.7
10°-20°	321.5	7.7
20°-30°	488.8	11.7
30°-40°	593.4	14.2
40°-50°	627.0	15.0
50°-60°	586.7	14.0
60°-70°	481.4	11.5
70°-80°	331.1	7.9
80°-90°	181.3	4.3
90°-100°	116.8	2.8
100°-110°	104.8	2.5
110°-120°	86.7	2.1
120°-130°	66.8	1.6
130°-140°	46.9	1.1
140°-150°	28.3	0.7
150°-160°	13.5	0.3
160°-170°	4.4	0.1
170°-180°	0.5	0.0
0°-30°	922.1	22.0
0°-40°	1515.5	36.2
0°-60°	2729.3	65.1
0°-90°	3723.2	88.8
90°-120°	308.3	7.4
90°-150°	450.3	10.7
90°-180°	469.0	11.2
0°-180°	4192.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1182	1180	1168	1178	1175	112
15°	1131	1136	1134	1148	1148	319
25°	1034	1046	1059	1080	1080	477
35°	901	923	949	976	983	563
45°	740	774	818	855	864	571
55°	563	609	665	706	721	504
65°	381	432	498	544	558	378
75°	199	252	325	376	393	210
85°	44	104	177	226	243	51
90°	0	58	124	170	187	3
95°	0	56	119	163	180	0
105°	0	46	112	153	168	2
115°	2	41	95	136	153	2
125°	2	34	80	116	131	2
135°	2	27	66	95	107	2
145°	2	19	46	73	80	2
155°	2	12	29	46	53	1
165°	2	7	15	22	27	1
175°	2	2	5	5	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	1184.8	1182.4	1170.3	1180.0	1175.1
5°	1182.4	1180.0	1167.8	1177.5	1175.1
7.5°	1172.7	1172.7	1165.4	1175.1	1172.7
10°	1163.0	1163.0	1155.7	1167.8	1165.4
12.5°	1148.4	1150.8	1146.0	1160.5	1158.1
15°	1131.4	1136.3	1133.8	1148.4	1148.4
17.5°	1112.0	1116.8	1116.8	1133.8	1133.8
20°	1087.7	1095.0	1099.8	1119.3	1119.3
22.5°	1063.4	1073.1	1080.4	1097.4	1104.7
25°	1034.3	1046.4	1058.6	1080.4	1080.4
27.5°	1005.2	1019.7	1034.3	1056.1	1058.6
30°	971.2	988.2	1007.6	1029.4	1034.3
32.5°	937.2	959.0	978.5	1005.2	1012.4
35°	900.8	922.6	949.3	976.0	983.3
37.5°	859.5	886.2	920.2	949.3	956.6
40°	823.1	852.2	886.2	920.2	927.5
42.5°	781.8	813.4	854.6	886.2	898.3
45°	740.5	774.5	818.2	854.6	864.3
47.5°	696.8	735.7	784.2	818.2	830.3
50°	653.1	694.4	745.4	784.2	793.9
52.5°	609.4	653.1	706.5	745.4	757.5
55°	563.3	609.4	665.3	706.5	721.1
57.5°	519.6	565.7	624.0	667.7	682.2
60°	471.0	524.4	582.7	626.4	643.4
62.5°	429.7	478.3	541.4	585.1	599.7
65°	381.2	432.2	497.7	543.9	558.4
67.5°	335.1	388.5	454.0	502.6	517.1
70°	288.9	342.3	412.7	458.9	475.9
72.5°	242.8	298.6	366.6	417.6	434.6
75°	199.1	252.5	325.3	376.3	393.3
77.5°	153.0	211.2	284.1	335.1	354.5
80°	111.7	172.4	245.2	296.2	315.6
82.5°	75.3	136.0	208.8	259.8	279.2
85°	43.7	104.4	177.2	225.8	242.8
87.5°	21.9	80.1	148.1	196.7	213.7
90°	0.0	58.3	123.8	170.0	187.0
92.5°	0.0	55.8	121.4	165.1	182.1
95°	0.0	55.8	119.0	162.7	179.7
97.5°	0.0	53.4	116.5	162.7	177.2
100°	0.0	51.0	116.5	160.2	174.8
102.5°	0.0	48.6	114.1	157.8	172.4
105°	0.0	46.1	111.7	153.0	167.5
107.5°	2.4	46.1	106.8	150.5	165.1
110°	2.4	43.7	102.0	148.1	162.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	41.3	97.1	143.2	157.8
115°	2.4	41.3	94.7	136.0	153.0
117.5°	2.4	38.8	89.8	131.1	148.1
120°	2.4	38.8	87.4	126.3	140.8
122.5°	2.4	36.4	82.5	121.4	136.0
125°	2.4	34.0	80.1	116.5	131.1
127.5°	2.4	31.6	77.7	111.7	126.3
130°	2.4	29.1	72.8	106.8	119.0
132.5°	2.4	29.1	70.4	99.5	114.1
135°	2.4	26.7	65.6	94.7	106.8
137.5°	2.4	24.3	60.7	89.8	102.0
140°	2.4	21.9	55.8	85.0	94.7
142.5°	2.4	21.9	51.0	77.7	87.4
145°	2.4	19.4	46.1	72.8	80.1
147.5°	2.4	17.0	41.3	65.6	72.8
150°	2.4	17.0	36.4	58.3	65.6
152.5°	2.4	14.6	31.6	53.4	60.7
155°	2.4	12.1	29.1	46.1	53.4
157.5°	2.4	12.1	24.3	38.8	46.1
160°	2.4	9.7	21.9	31.6	38.8
162.5°	2.4	9.7	19.4	26.7	34.0
165°	2.4	7.3	14.6	21.9	26.7
167.5°	2.4	7.3	12.1	17.0	21.9
170°	2.4	4.9	9.7	12.1	17.0
172.5°	2.4	4.9	7.3	7.3	7.3
175°	2.4	2.4	4.9	4.9	2.4
177.5°	2.4	2.4	2.4	2.4	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)