

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: P566437

Luminaire Tested: **4SNX-45SL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-45SL-LC-UNV-L950-CD  
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

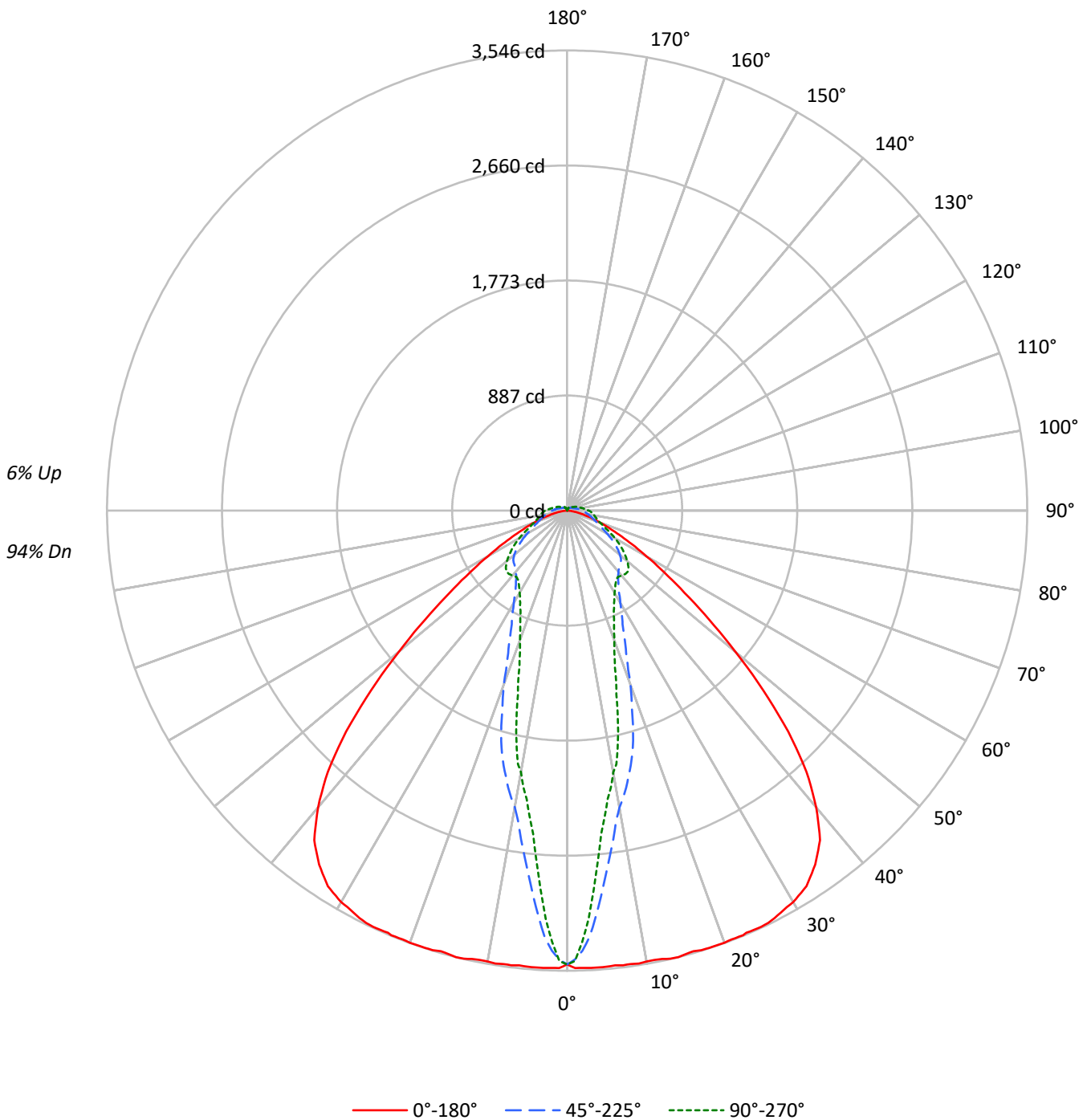
Lumens per Lamp: N/A  
Luminaire Lumens: 4311.0 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')  
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

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

	0°	45°	90°
0°	37645	37645	37645
5°	37984	30919	27676
10°	38282	23342	20030
15°	38981	19080	13870
20°	39986	13806	9796
25°	41234	9891	7707
30°	42286	7902	6563
35°	42537	6684	5879
40°	40552	6076	5892
45°	35191	5870	6054
50°	26998	5583	5648
55°	19565	4883	5012
60°	14196	4075	4238
65°	10332	3446	3474
70°	7610	3044	2995
75°	5406	2818	2792
80°	3545	2639	2750
85°	1665	2516	2754



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.0	6.4
10°-20°	597.2	13.9
20°-30°	683.6	15.9
30°-40°	684.9	15.9
40°-50°	648.3	15.0
50°-60°	497.2	11.5
60°-70°	320.5	7.4
70°-80°	204.4	4.7
80°-90°	135.7	3.1
90°-100°	91.2	2.1
100°-110°	60.1	1.4
110°-120°	41.8	1.0
120°-130°	29.2	0.7
130°-140°	20.3	0.5
140°-150°	12.4	0.3
150°-160°	6.3	0.1
160°-170°	2.4	0.1
170°-180°	0.5	0.0
0°-30°	1555.9	36.1
0°-40°	2240.8	52.0
0°-60°	3386.3	78.6
0°-90°	4046.9	93.9
90°-120°	193.1	4.5
90°-150°	254.9	5.9
90°-180°	264.0	6.1
0°-180°	4311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3497	3497	3497	3497	3497	
5°	3528	3334	2987	2786	2711	337
15°	3537	2547	1942	1595	1467	1003
25°	3539	1803	1027	892	851	1632
35°	3332	1003	687	665	656	2067
45°	2408	634	579	641	663	1831
55°	1105	453	446	502	521	1016
65°	442	285	281	320	331	455
75°	150	155	194	223	234	165
85°	20	71	137	179	192	27
90°	0	49	115	159	166	1
95°	0	35	95	130	137	0
105°	0	26	62	88	95	1
115°	2	22	46	64	68	2
125°	2	20	40	46	49	2
135°	2	16	31	38	40	2
145°	2	11	22	29	31	1
155°	2	7	13	20	22	1
165°	4	4	9	11	13	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3497.3	3497.3	3497.3	3497.3	3497.3
1°	3526.0	3506.1	3459.7	3473.0	3470.8
2°	3526.0	3484.0	3393.5	3366.9	3327.2
3°	3528.2	3446.5	3291.8	3205.7	3150.4
4°	3528.2	3391.2	3141.6	2998.0	2927.3
5°	3528.2	3333.8	2986.9	2785.9	2710.8
6°	3523.8	3265.3	2830.1	2618.0	2505.3
7°	3530.4	3190.2	2688.7	2461.1	2372.8
8°	3528.2	3101.8	2558.3	2341.8	2244.6
9°	3534.9	3015.7	2417.0	2229.2	2156.3
10°	3528.2	2936.1	2324.2	2123.1	2048.0
11°	3528.2	2858.8	2257.9	2054.6	1990.6
12°	3532.6	2770.4	2185.0	1957.4	1869.1
13°	3543.7	2679.9	2101.0	1851.4	1747.5
14°	3545.9	2611.4	2023.7	1716.6	1608.4
15°	3537.1	2547.3	1942.0	1595.1	1467.0
16°	3532.6	2481.0	1844.7	1480.2	1365.3
17°	3541.5	2403.7	1734.3	1363.1	1257.1
18°	3543.7	2333.0	1617.2	1274.8	1182.0
19°	3543.7	2277.8	1522.2	1193.0	1113.5
20°	3543.7	2224.7	1425.0	1131.2	1062.7
21°	3539.3	2158.5	1314.5	1067.1	1009.6
22.5°	3541.5	2034.7	1188.6	992.0	945.6
23°	3534.9	2003.8	1157.7	972.1	923.5
24°	3537.1	1915.4	1091.4	932.3	885.9
25°	3539.3	1802.8	1027.3	892.5	850.6
26°	3534.9	1712.2	974.3	855.0	826.3
27°	3523.8	1639.3	936.7	824.1	797.6
28°	3508.3	1542.1	897.0	797.6	773.2
29°	3492.9	1431.6	857.2	768.8	751.2
30°	3484.0	1343.2	819.6	746.7	731.3
32.5°	3431.0	1168.7	742.3	702.6	689.3
35°	3331.6	1003.0	687.1	665.0	656.2
37.5°	3201.2	874.9	645.1	640.7	642.9
40°	2986.9	773.2	614.2	634.1	653.9
42.5°	2730.7	693.7	592.1	640.7	662.8
45°	2408.1	634.1	578.8	640.7	662.8
47.5°	2050.2	585.5	563.4	618.6	640.7
50°	1692.3	541.3	532.4	585.5	605.3
52.5°	1376.4	499.3	492.7	543.5	563.4
55°	1104.6	452.9	446.3	501.5	521.4
57.5°	885.9	408.7	402.1	452.9	472.8
60°	707.0	364.5	353.5	404.3	424.2
62.5°	563.4	322.6	315.9	360.1	377.8
65°	441.9	285.0	280.6	320.3	331.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	349.1	249.6	251.9	285.0	298.3
70°	269.5	216.5	229.8	260.7	269.5
72.5°	203.3	183.4	212.1	238.6	249.6
75°	150.2	154.6	194.4	223.1	234.2
77.5°	103.8	128.1	179.0	209.9	220.9
80°	70.7	103.8	163.5	198.8	212.1
82.5°	42.0	86.2	150.2	187.8	203.3
85°	19.9	70.7	137.0	179.0	192.2
87.5°	6.6	57.4	123.7	170.1	181.2
90°	0.0	48.6	114.9	159.1	165.7
92.5°	0.0	42.0	103.8	145.8	150.2
95°	0.0	35.3	95.0	130.3	137.0
97.5°	0.0	33.1	88.4	117.1	125.9
100°	0.0	30.9	79.5	106.0	114.9
102.5°	0.0	26.5	70.7	95.0	103.8
105°	0.0	26.5	61.9	88.4	95.0
107.5°	2.2	24.3	57.4	79.5	88.4
110°	2.2	24.3	50.8	75.1	81.7
112.5°	2.2	24.3	48.6	68.5	77.3
115°	2.2	22.1	46.4	64.1	68.5
117.5°	2.2	22.1	44.2	57.4	61.9
120°	2.2	19.9	42.0	53.0	55.2
122.5°	2.2	19.9	39.8	48.6	50.8
125°	2.2	19.9	39.8	46.4	48.6
127.5°	2.2	17.7	37.6	44.2	44.2
130°	2.2	17.7	35.3	42.0	42.0
132.5°	2.2	15.5	33.1	39.8	42.0
135°	2.2	15.5	30.9	37.6	39.8
137.5°	2.2	13.3	28.7	35.3	37.6
140°	2.2	13.3	26.5	33.1	35.3
142.5°	2.2	11.0	24.3	30.9	33.1
145°	2.2	11.0	22.1	28.7	30.9
147.5°	2.2	11.0	19.9	26.5	28.7
150°	2.2	8.8	17.7	24.3	26.5
152.5°	2.2	8.8	15.5	22.1	24.3
155°	2.2	6.6	13.3	19.9	22.1
157.5°	2.2	6.6	13.3	17.7	19.9
160°	4.4	6.6	11.0	15.5	17.7
162.5°	2.2	4.4	11.0	13.3	15.5
165°	4.4	4.4	8.8	11.0	13.3
167.5°	4.4	4.4	6.6	8.8	11.0
170°	4.4	4.4	6.6	6.6	8.8
172.5°	4.4	4.4	4.4	6.6	4.4
175°	4.4	4.4	4.4	4.4	2.2
177.5°	4.4	4.4	4.4	4.4	2.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)