

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: P566436

Luminaire Tested: **4SNX-45SL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566436
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-L940-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

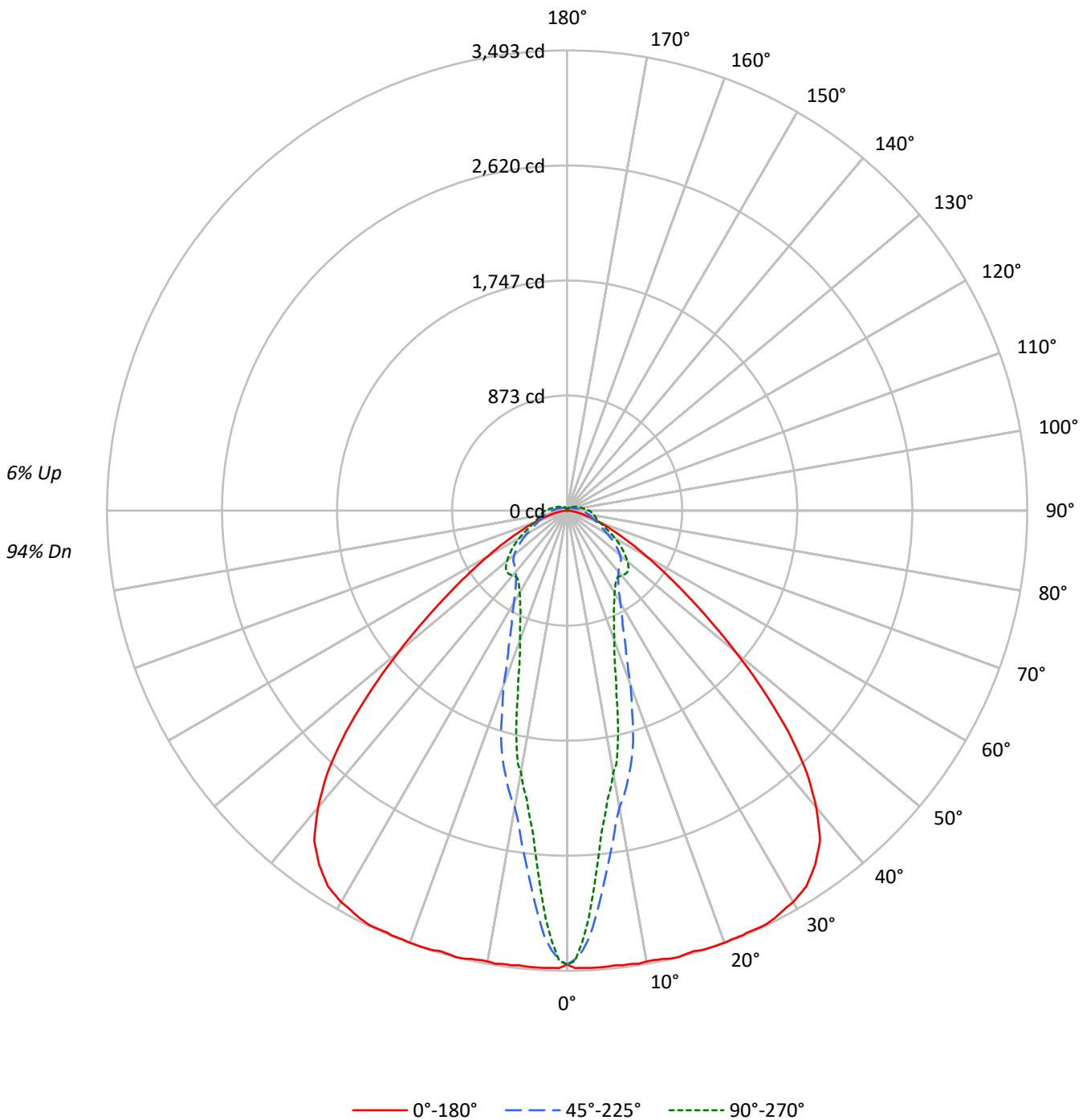
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4247.0 lumens
Efficiency: N/A
Efficacy: 142.5 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	50	30	10	0		
RCR																										
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94					94			
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80					80			
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69					69			
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60					60			
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53					53			
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47					47			
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42					42			
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38					38			
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35					35			
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32					32			
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37086	37086	37086
5°	37420	30460	27265
10°	37713	22995	19733
15°	38401	18796	13664
20°	39392	13601	9650
25°	40621	9744	7591
30°	41658	7785	6465
35°	41905	6585	5791
40°	39951	5986	5805
45°	34669	5783	5963
50°	26598	5500	5565
55°	19275	4809	4937
60°	13985	4014	4175
65°	10177	3394	3423
70°	7497	2999	2951
75°	5327	2776	2751
80°	3490	2600	2708
85°	1640	2477	2714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	6.4
10°-20°	588.4	13.9
20°-30°	673.5	15.9
30°-40°	674.7	15.9
40°-50°	638.7	15.0
50°-60°	489.8	11.5
60°-70°	315.7	7.4
70°-80°	201.3	4.7
80°-90°	133.7	3.1
90°-100°	89.9	2.1
100°-110°	59.2	1.4
110°-120°	41.2	1.0
120°-130°	28.7	0.7
130°-140°	20.0	0.5
140°-150°	12.2	0.3
150°-160°	6.2	0.1
160°-170°	2.4	0.1
170°-180°	0.5	0.0
0°-30°	1532.8	36.1
0°-40°	2207.5	52.0
0°-60°	3336.0	78.5
0°-90°	3986.8	93.9
90°-120°	190.3	4.5
90°-150°	251.2	5.9
90°-180°	260.0	6.1
0°-180°	4247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3445	3445	3445	3445	3445	
5°	3476	3284	2943	2744	2670	332
15°	3484	2510	1913	1571	1445	988
25°	3487	1776	1012	879	838	1607
35°	3282	988	677	655	646	2036
45°	2372	625	570	631	653	1804
55°	1088	446	440	494	514	1001
65°	435	281	276	316	326	448
75°	148	152	192	220	231	163
85°	20	70	135	176	189	27
90°	0	48	113	157	163	1
95°	0	35	94	128	135	0
105°	0	26	61	87	94	1
115°	2	22	46	63	68	2
125°	2	20	39	46	48	2
135°	2	15	30	37	39	2
145°	2	11	22	28	30	1
155°	2	6	13	20	22	1
165°	4	4	9	11	13	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



TEST NUMBER: P566436

CATALOG NUMBER: 4SNX-45SL-LC-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3445.4	3445.4	3445.4	3445.4	3445.4
1°	3473.7	3454.1	3408.4	3421.4	3419.3
2°	3473.7	3432.3	3343.1	3317.0	3277.8
3°	3475.8	3395.3	3243.0	3158.1	3103.7
4°	3475.8	3340.9	3095.0	2953.5	2883.8
5°	3475.8	3284.3	2942.6	2744.5	2670.5
6°	3471.5	3216.8	2788.1	2579.1	2468.1
7°	3478.0	3142.8	2648.8	2424.6	2337.5
8°	3475.8	3055.8	2520.4	2307.1	2211.3
9°	3482.4	2970.9	2381.1	2196.1	2124.2
10°	3475.8	2892.5	2289.7	2091.6	2017.6
11°	3475.8	2816.4	2224.4	2024.1	1961.0
12°	3480.2	2729.3	2152.5	1928.4	1841.3
13°	3491.1	2640.1	2069.8	1823.9	1721.6
14°	3493.3	2572.6	1993.7	1691.1	1584.5
15°	3484.5	2509.5	1913.1	1571.4	1445.2
16°	3480.2	2444.2	1817.4	1458.2	1345.1
17°	3488.9	2368.0	1708.5	1342.9	1238.4
18°	3491.1	2298.4	1593.2	1255.8	1164.4
19°	3491.1	2244.0	1499.6	1175.3	1096.9
20°	3491.1	2191.7	1403.8	1114.4	1046.9
21°	3486.7	2126.4	1295.0	1051.2	994.7
22.5°	3488.9	2004.5	1170.9	977.2	931.5
23°	3482.4	1974.1	1140.5	957.7	909.8
24°	3484.5	1887.0	1075.2	918.5	872.8
25°	3486.7	1776.0	1012.1	879.3	837.9
26°	3482.4	1686.8	959.8	842.3	814.0
27°	3471.5	1615.0	922.8	811.8	785.7
28°	3456.3	1519.2	883.7	785.7	761.8
29°	3441.0	1410.4	844.5	757.4	740.0
30°	3432.3	1323.3	807.5	735.7	720.4
32.5°	3380.1	1151.4	731.3	692.1	679.1
35°	3282.1	988.1	676.9	655.1	646.4
37.5°	3153.7	861.9	635.5	631.2	633.4
40°	2942.6	761.8	605.1	624.7	644.2
42.5°	2690.1	683.4	583.3	631.2	652.9
45°	2372.4	624.7	570.2	631.2	652.9
47.5°	2019.8	576.8	555.0	609.4	631.2
50°	1667.2	533.2	524.5	576.8	596.4
52.5°	1355.9	491.9	485.4	535.4	555.0
55°	1088.2	446.2	439.6	494.1	513.6
57.5°	872.8	402.6	396.1	446.2	465.8
60°	696.5	359.1	348.2	398.3	417.9
62.5°	555.0	317.8	311.2	354.8	372.2
65°	435.3	280.8	276.4	315.6	326.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	343.9	245.9	248.1	280.8	293.8
70°	265.5	213.3	226.4	256.8	265.5
72.5°	200.2	180.6	208.9	235.1	245.9
75°	148.0	152.4	191.5	219.8	230.7
77.5°	102.3	126.2	176.3	206.8	217.6
80°	69.6	102.3	161.1	195.9	208.9
82.5°	41.4	84.9	148.0	185.0	200.2
85°	19.6	69.6	134.9	176.3	189.4
87.5°	6.5	56.6	121.9	167.6	178.5
90°	0.0	47.9	113.2	156.7	163.2
92.5°	0.0	41.4	102.3	143.6	148.0
95°	0.0	34.8	93.6	128.4	134.9
97.5°	0.0	32.6	87.1	115.4	124.1
100°	0.0	30.5	78.4	104.5	113.2
102.5°	0.0	26.1	69.6	93.6	102.3
105°	0.0	26.1	60.9	87.1	93.6
107.5°	2.2	23.9	56.6	78.4	87.1
110°	2.2	23.9	50.1	74.0	80.5
112.5°	2.2	23.9	47.9	67.5	76.2
115°	2.2	21.8	45.7	63.1	67.5
117.5°	2.2	21.8	43.5	56.6	60.9
120°	2.2	19.6	41.4	52.2	54.4
122.5°	2.2	19.6	39.2	47.9	50.1
125°	2.2	19.6	39.2	45.7	47.9
127.5°	2.2	17.4	37.0	43.5	43.5
130°	2.2	17.4	34.8	41.4	41.4
132.5°	2.2	15.2	32.6	39.2	41.4
135°	2.2	15.2	30.5	37.0	39.2
137.5°	2.2	13.1	28.3	34.8	37.0
140°	2.2	13.1	26.1	32.6	34.8
142.5°	2.2	10.9	23.9	30.5	32.6
145°	2.2	10.9	21.8	28.3	30.5
147.5°	2.2	10.9	19.6	26.1	28.3
150°	2.2	8.7	17.4	23.9	26.1
152.5°	2.2	8.7	15.2	21.8	23.9
155°	2.2	6.5	13.1	19.6	21.8
157.5°	2.2	6.5	13.1	17.4	19.6
160°	4.4	6.5	10.9	15.2	17.4
162.5°	2.2	4.4	10.9	13.1	15.2
165°	4.4	4.4	8.7	10.9	13.1
167.5°	4.4	4.4	6.5	8.7	10.9
170°	4.4	4.4	6.5	6.5	8.7
172.5°	4.4	4.4	4.4	6.5	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)