

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: P566444

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-45SL-LN-UNV-L940-CD
Description: 4FT 4500 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

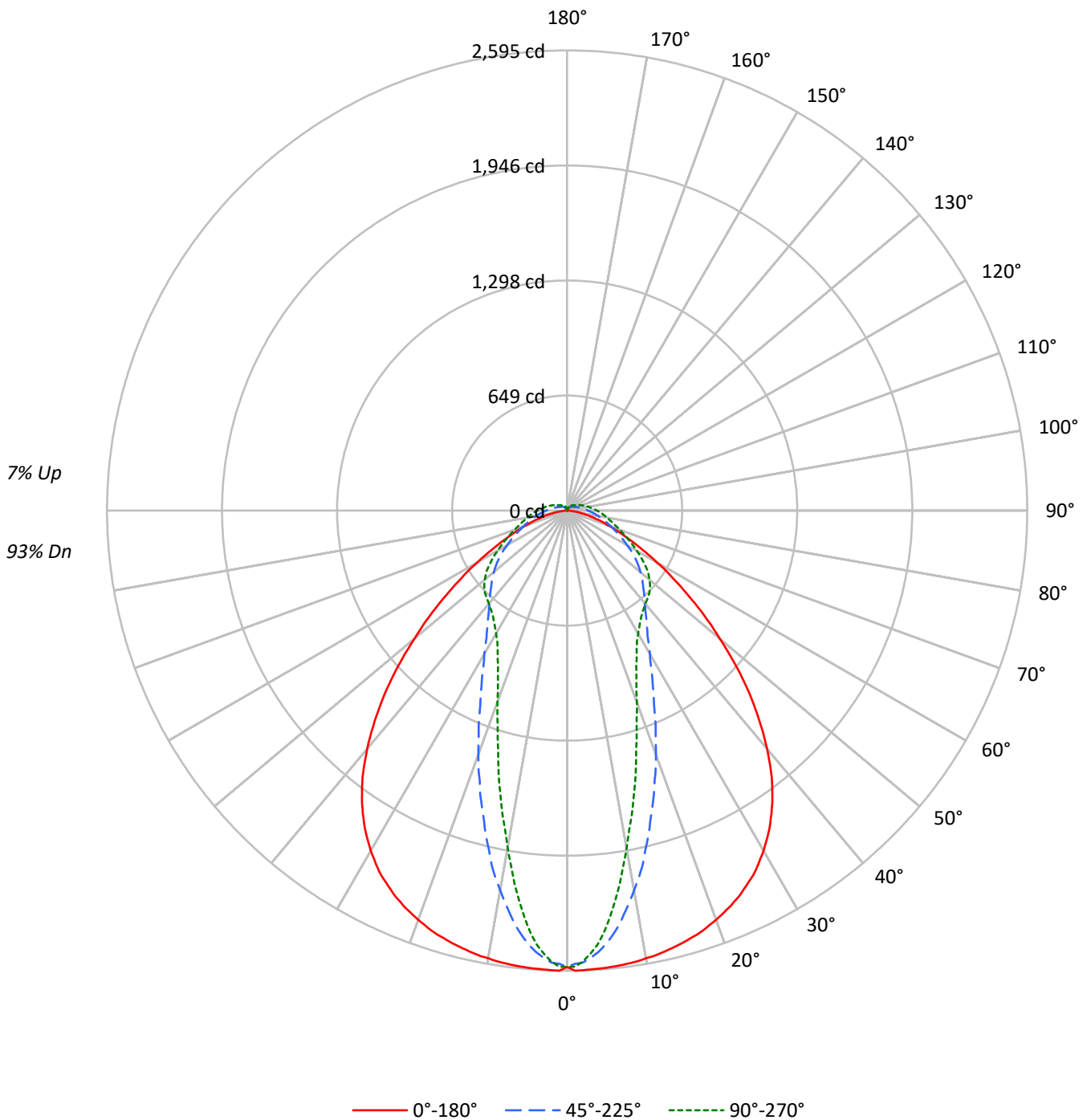
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4103.1 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27705	27705	27705
5°	27849	25464	24369
10°	27811	21833	18906
15°	27797	17810	14171
20°	27709	14188	10604
25°	27457	11117	8416
30°	26881	8997	7179
35°	25753	7614	6531
40°	23823	6722	6181
45°	21179	6150	5990
50°	17941	5659	5659
55°	14740	5129	5168
60°	11786	4512	4533
65°	9151	3960	3945
70°	7105	3503	3489
75°	5496	3148	3179
80°	3881	2881	2955
85°	2158	2685	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	5.6
10°-20°	534.3	13.0
20°-30°	634.2	15.5
30°-40°	638.1	15.6
40°-50°	593.1	14.5
50°-60°	488.4	11.9
60°-70°	344.2	8.4
70°-80°	224.8	5.5
80°-90°	143.6	3.5
90°-100°	94.2	2.3
100°-110°	63.9	1.6
110°-120°	43.8	1.1
120°-130°	30.3	0.7
130°-140°	20.4	0.5
140°-150°	12.6	0.3
150°-160°	6.5	0.2
160°-170°	2.4	0.1
170°-180°	0.4	0.0
0°-30°	1396.4	34.0
0°-40°	2034.5	49.6
0°-60°	3116.1	75.9
0°-90°	3828.6	93.3
90°-120°	201.9	4.9
90°-150°	265.2	6.5
90°-180°	275.0	6.7
0°-180°	4103.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2574	2574	2574	2574	2574	
5°	2587	2552	2460	2413	2387	246
15°	2522	2254	1813	1585	1499	712
25°	2357	1742	1155	970	929	1085
35°	2017	1178	783	733	729	1254
45°	1449	776	606	639	656	1113
55°	832	510	469	520	538	752
65°	391	308	322	363	376	397
75°	153	159	217	256	267	165
85°	26	73	146	189	198	32
90°	0	50	118	161	168	1
95°	0	37	99	136	142	0
105°	0	26	67	95	103	0
115°	2	22	47	69	73	2
125°	2	17	39	50	54	2
135°	2	15	30	39	41	2
145°	2	11	22	30	32	1
155°	2	9	15	22	24	1
165°	2	4	9	11	13	1
175°	4	4	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2573.9	2573.9	2573.9	2573.9	2573.9
1°	2595.4	2584.7	2556.7	2576.1	2571.8
2°	2593.3	2582.5	2550.3	2558.9	2543.8
3°	2591.1	2576.1	2526.6	2524.5	2503.0
4°	2589.0	2565.3	2496.5	2470.7	2453.5
5°	2586.8	2552.4	2460.0	2412.7	2386.9
6°	2584.7	2537.4	2412.7	2341.7	2305.1
7°	2580.4	2513.7	2363.2	2266.4	2219.1
8°	2576.1	2492.2	2300.8	2184.7	2126.7
9°	2571.8	2464.3	2238.5	2096.6	2027.8
10°	2563.2	2436.3	2174.0	2006.2	1933.1
11°	2558.9	2404.1	2111.6	1920.2	1834.2
12°	2550.3	2369.7	2045.0	1829.9	1754.7
13°	2541.7	2333.1	1963.2	1752.5	1662.2
14°	2533.1	2294.4	1892.3	1666.5	1582.6
15°	2522.3	2253.5	1812.7	1584.8	1498.8
16°	2511.6	2206.2	1741.8	1500.9	1410.6
17°	2500.8	2161.1	1675.1	1423.5	1341.8
18°	2487.9	2115.9	1597.7	1348.3	1268.7
19°	2470.7	2064.3	1535.3	1279.4	1206.3
20°	2455.7	2017.0	1464.4	1214.9	1150.4
21°	2438.5	1958.9	1393.4	1154.7	1090.2
22.5°	2412.7	1877.2	1303.1	1079.5	1019.3
23°	2399.8	1853.6	1266.5	1051.5	999.9
24°	2382.6	1791.2	1206.3	1008.5	956.9
25°	2356.8	1741.8	1154.7	969.8	928.9
26°	2333.1	1681.6	1103.1	935.4	894.5
27°	2309.4	1623.5	1058.0	898.8	864.4
28°	2279.3	1563.3	1008.5	868.7	838.6
29°	2247.1	1507.4	967.6	842.9	819.3
30°	2214.8	1445.0	933.2	819.3	799.9
32.5°	2124.5	1307.4	845.1	774.1	761.2
35°	2017.0	1178.4	782.7	733.3	729.0
37.5°	1896.6	1060.1	726.8	701.0	705.3
40°	1754.7	952.6	679.5	677.4	686.0
42.5°	1604.1	860.1	642.9	658.0	670.9
45°	1449.3	776.3	606.4	638.6	655.8
47.5°	1288.0	703.2	574.1	615.0	634.3
50°	1124.6	632.2	539.7	587.0	606.4
52.5°	978.4	569.8	505.3	554.8	576.3
55°	832.2	509.6	468.8	520.4	537.6
57.5°	705.3	453.7	430.1	481.7	494.6
60°	587.0	400.0	391.4	438.7	453.7
62.5°	479.5	352.7	354.8	400.0	415.0
65°	391.4	307.5	322.5	363.4	376.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	318.2	264.5	290.3	333.3	344.1
70°	251.6	225.8	264.5	303.2	313.9
72.5°	200.0	191.4	238.7	279.5	288.1
75°	152.7	159.1	217.2	255.9	266.6
77.5°	109.7	133.3	195.7	236.5	245.1
80°	77.4	109.7	178.5	219.3	227.9
82.5°	49.5	90.3	161.3	204.3	212.9
85°	25.8	73.1	146.2	189.2	197.8
87.5°	10.8	60.2	131.2	174.2	182.8
90°	0.0	49.5	118.3	161.3	167.7
92.5°	0.0	43.0	107.5	148.4	154.8
95°	0.0	36.6	98.9	135.5	141.9
97.5°	0.0	34.4	88.2	124.7	131.2
100°	0.0	30.1	79.6	114.0	122.6
102.5°	0.0	28.0	73.1	103.2	111.8
105°	0.0	25.8	66.7	94.6	103.2
107.5°	0.0	23.7	62.4	88.2	94.6
110°	0.0	23.7	55.9	81.7	88.2
112.5°	2.2	21.5	51.6	73.1	79.6
115°	2.2	21.5	47.3	68.8	73.1
117.5°	2.2	21.5	45.2	62.4	66.7
120°	2.2	19.4	43.0	58.1	62.4
122.5°	2.2	19.4	40.9	53.8	55.9
125°	2.2	17.2	38.7	49.5	53.8
127.5°	2.2	17.2	36.6	47.3	49.5
130°	2.2	17.2	34.4	43.0	47.3
132.5°	2.2	15.1	32.3	40.9	43.0
135°	2.2	15.1	30.1	38.7	40.9
137.5°	2.2	12.9	28.0	36.6	38.7
140°	2.2	12.9	25.8	34.4	36.6
142.5°	2.2	10.8	23.7	32.3	34.4
145°	2.2	10.8	21.5	30.1	32.3
147.5°	2.2	10.8	19.4	28.0	30.1
150°	2.2	8.6	17.2	25.8	28.0
152.5°	2.2	8.6	15.1	23.7	25.8
155°	2.2	8.6	15.1	21.5	23.7
157.5°	2.2	6.5	12.9	17.2	21.5
160°	2.2	6.5	10.8	15.1	19.4
162.5°	2.2	6.5	10.8	12.9	15.1
165°	2.2	4.3	8.6	10.8	12.9
167.5°	2.2	4.3	6.5	8.6	10.8
170°	2.2	4.3	6.5	6.5	8.6
172.5°	2.2	4.3	4.3	4.3	4.3
175°	4.3	4.3	4.3	4.3	2.2
177.5°	4.3	4.3	4.3	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)