

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: P566030

Luminaire Tested: **4SNX-104HL-UNV-L830-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-104HL-UNV-L830-CD  
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

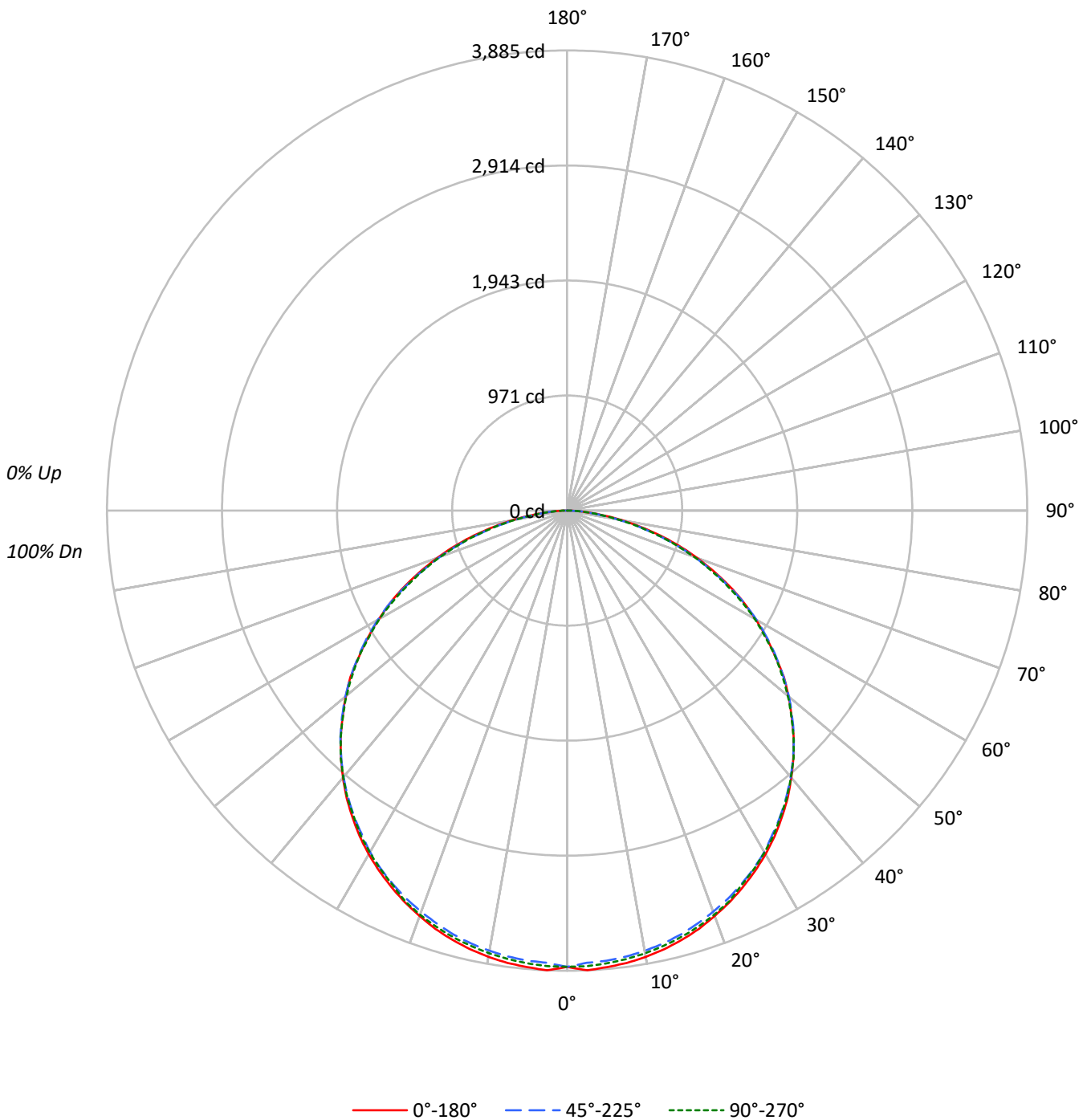
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11531.0 lumens  
Efficiency: N/A  
Efficacy: 152.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 75.5  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

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

	0°	45°	90°
0°	41464	41464	41464
5°	41798	41217	41463
10°	41818	41249	41480
15°	41800	41292	41528
20°	41716	41286	41585
25°	41665	41336	41414
30°	41637	41374	41415
35°	41535	41279	41342
40°	41368	41277	41300
45°	41143	41218	41143
50°	40866	40948	40729
55°	40229	40443	40229
60°	39551	39727	39377
65°	38571	38115	37700
70°	36734	35912	35812
75°	33899	32273	32406
80°	29004	27181	27690
85°	21539	21144	19736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.6	3.2
10°-20°	1053.3	9.1
20°-30°	1612.5	14.0
30°-40°	1972.6	17.1
40°-50°	2086.4	18.1
50°-60°	1922.4	16.7
60°-70°	1479.6	12.8
70°-80°	831.3	7.2
80°-90°	207.4	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3031.4	26.3
0°-40°	5004.0	43.4
0°-60°	9012.8	78.2
0°-90°	11531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11531.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3852	3852	3852	3852	3852	
5°	3868	3857	3815	3849	3837	368
15°	3751	3741	3705	3738	3727	1059
25°	3508	3505	3480	3505	3487	1618
35°	3161	3156	3141	3156	3146	1978
45°	2703	2711	2708	2701	2703	2084
55°	2144	2163	2155	2149	2144	1920
65°	1514	1518	1496	1475	1480	1494
75°	815	802	776	765	779	858
85°	174	171	171	166	160	215
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3852.1	3852.1	3852.1	3852.1	3852.1
2.5°	3884.7	3863.5	3821.1	3858.6	3848.9
5°	3868.4	3857.0	3814.6	3848.9	3837.4
7.5°	3852.1	3839.1	3798.3	3835.8	3819.5
10°	3826.0	3814.6	3773.9	3809.7	3795.1
12.5°	3791.8	3782.0	3744.5	3778.8	3764.1
15°	3751.0	3741.3	3705.4	3738.0	3726.6
17.5°	3702.1	3690.7	3656.5	3690.7	3682.6
20°	3641.8	3635.3	3604.3	3635.3	3630.4
22.5°	3579.9	3571.7	3547.3	3570.1	3571.7
25°	3508.1	3504.9	3480.4	3504.9	3487.0
27.5°	3433.2	3433.2	3408.7	3425.0	3413.6
30°	3350.0	3348.4	3328.8	3337.0	3332.1
32.5°	3260.4	3258.7	3232.6	3253.8	3245.7
35°	3160.9	3156.0	3141.4	3156.0	3146.2
37.5°	3058.2	3053.3	3041.9	3050.1	3048.4
40°	2944.1	2944.1	2937.6	2944.1	2939.2
42.5°	2826.7	2831.6	2823.5	2830.0	2830.0
45°	2702.8	2711.0	2707.7	2701.2	2702.8
47.5°	2570.8	2585.5	2577.3	2575.7	2567.5
50°	2440.4	2453.4	2445.3	2437.1	2432.2
52.5°	2305.1	2311.6	2301.8	2298.6	2287.1
55°	2143.7	2163.2	2155.1	2148.6	2143.7
57.5°	1995.3	2010.0	2003.5	1990.4	1982.3
60°	1837.2	1848.6	1845.4	1830.7	1829.1
62.5°	1682.3	1685.6	1682.3	1656.3	1657.9
65°	1514.4	1517.7	1496.5	1475.3	1480.2
67.5°	1338.4	1348.2	1318.8	1287.8	1309.0
70°	1167.2	1163.9	1141.1	1106.9	1137.9
72.5°	991.1	987.9	961.8	937.4	958.5
75°	815.1	802.0	776.0	764.6	779.2
77.5°	632.5	617.8	606.4	598.3	604.8
80°	467.9	448.3	438.5	432.0	446.7
82.5°	311.4	296.7	291.8	296.7	293.4
85°	174.4	171.2	171.2	166.3	159.8
87.5°	71.7	75.0	76.6	75.0	71.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)