

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: P566032

Luminaire Tested: **4SNX-104HL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566032
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-L840-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

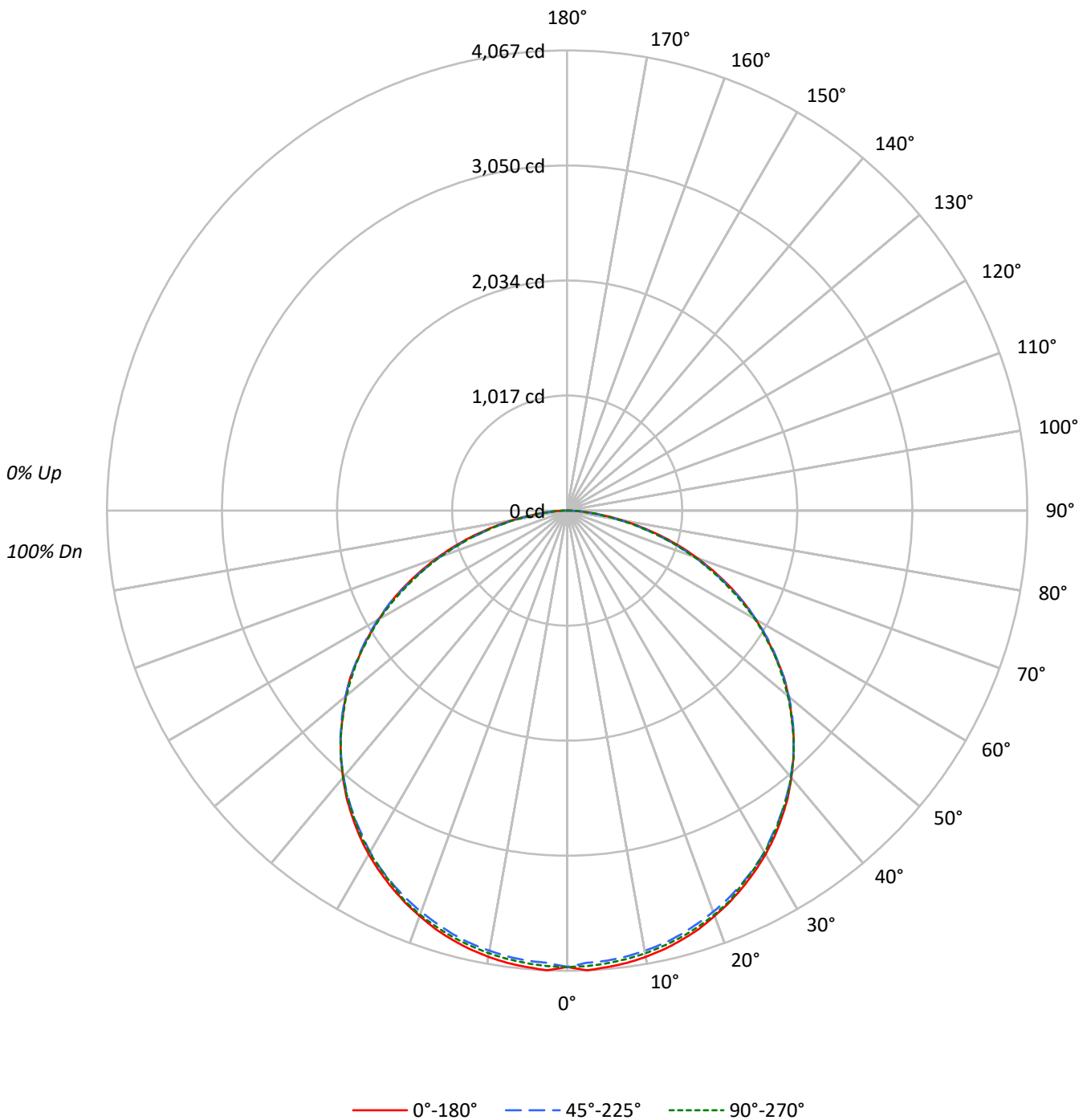
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12072.0 lumens
Efficiency: N/A
Efficacy: 159.9 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°	43409	43409	43409
5°	43759	43151	43409
10°	43780	43183	43426
15°	43761	43228	43476
20°	43673	43223	43536
25°	43619	43275	43357
30°	43591	43315	43358
35°	43484	43215	43283
40°	43309	43213	43237
45°	43074	43153	43074
50°	42784	42869	42640
55°	42117	42341	42117
60°	41407	41590	41224
65°	40382	39903	39468
70°	38458	37599	37492
75°	35488	33787	33928
80°	30361	28458	28985
85°	22551	22132	20662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	3.2
10°-20°	1102.7	9.1
20°-30°	1688.2	14.0
30°-40°	2065.1	17.1
40°-50°	2184.3	18.1
50°-60°	2012.6	16.7
60°-70°	1549.0	12.8
70°-80°	870.3	7.2
80°-90°	217.1	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°	3173.7	26.3
0°-40°	5238.8	43.4
0°-60°	9435.6	78.2
0°-90°	12072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4033	4033	4033	4033	4033	
5°	4050	4038	3994	4029	4018	385
15°	3927	3917	3879	3913	3901	1109
25°	3673	3669	3644	3669	3651	1694
35°	3309	3304	3289	3304	3294	2071
45°	2830	2838	2835	2828	2830	2182
55°	2244	2265	2256	2249	2244	2010
65°	1586	1589	1567	1544	1550	1564
75°	853	840	812	800	816	899
85°	183	179	179	174	167	225
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4032.8	4032.8	4032.8	4032.8	4032.8
2.5°	4067.0	4044.8	4000.4	4039.7	4029.4
5°	4049.9	4038.0	3993.6	4029.4	4017.5
7.5°	4032.8	4019.2	3976.5	4015.8	3998.7
10°	4005.5	3993.6	3950.9	3988.5	3973.1
12.5°	3969.7	3959.5	3920.2	3956.0	3940.7
15°	3927.0	3916.8	3879.2	3913.4	3901.4
17.5°	3875.8	3863.9	3828.0	3863.9	3855.4
20°	3812.7	3805.9	3773.4	3805.9	3800.7
22.5°	3747.8	3739.3	3713.7	3737.6	3739.3
25°	3672.7	3669.3	3643.7	3669.3	3650.6
27.5°	3594.2	3594.2	3568.6	3585.7	3573.8
30°	3507.2	3505.5	3485.0	3493.5	3488.4
32.5°	3413.3	3411.6	3384.3	3406.5	3398.0
35°	3309.2	3304.1	3288.7	3304.1	3293.9
37.5°	3201.7	3196.6	3184.6	3193.2	3191.5
40°	3082.2	3082.2	3075.4	3082.2	3077.1
42.5°	2959.4	2964.5	2955.9	2962.8	2962.8
45°	2829.6	2838.2	2834.8	2827.9	2829.6
47.5°	2691.4	2706.8	2698.2	2696.5	2688.0
50°	2554.9	2568.5	2560.0	2551.5	2546.3
52.5°	2413.2	2420.0	2409.8	2406.4	2394.4
55°	2244.3	2264.7	2256.2	2249.4	2244.3
57.5°	2089.0	2104.3	2097.5	2083.8	2075.3
60°	1923.4	1935.4	1931.9	1916.6	1914.9
62.5°	1761.3	1764.7	1761.3	1734.0	1735.7
65°	1585.5	1588.9	1566.7	1544.5	1549.6
67.5°	1401.2	1411.4	1380.7	1348.3	1370.5
70°	1222.0	1218.6	1194.7	1158.8	1191.3
72.5°	1037.7	1034.2	1006.9	981.3	1003.5
75°	853.3	839.7	812.4	800.4	815.8
77.5°	662.2	646.8	634.9	626.3	633.2
80°	489.8	469.3	459.1	452.3	467.6
82.5°	326.0	310.6	305.5	310.6	307.2
85°	182.6	179.2	179.2	174.1	167.3
87.5°	75.1	78.5	80.2	78.5	75.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)