

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: P566024

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-104HL-SLW-UNV-L840-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

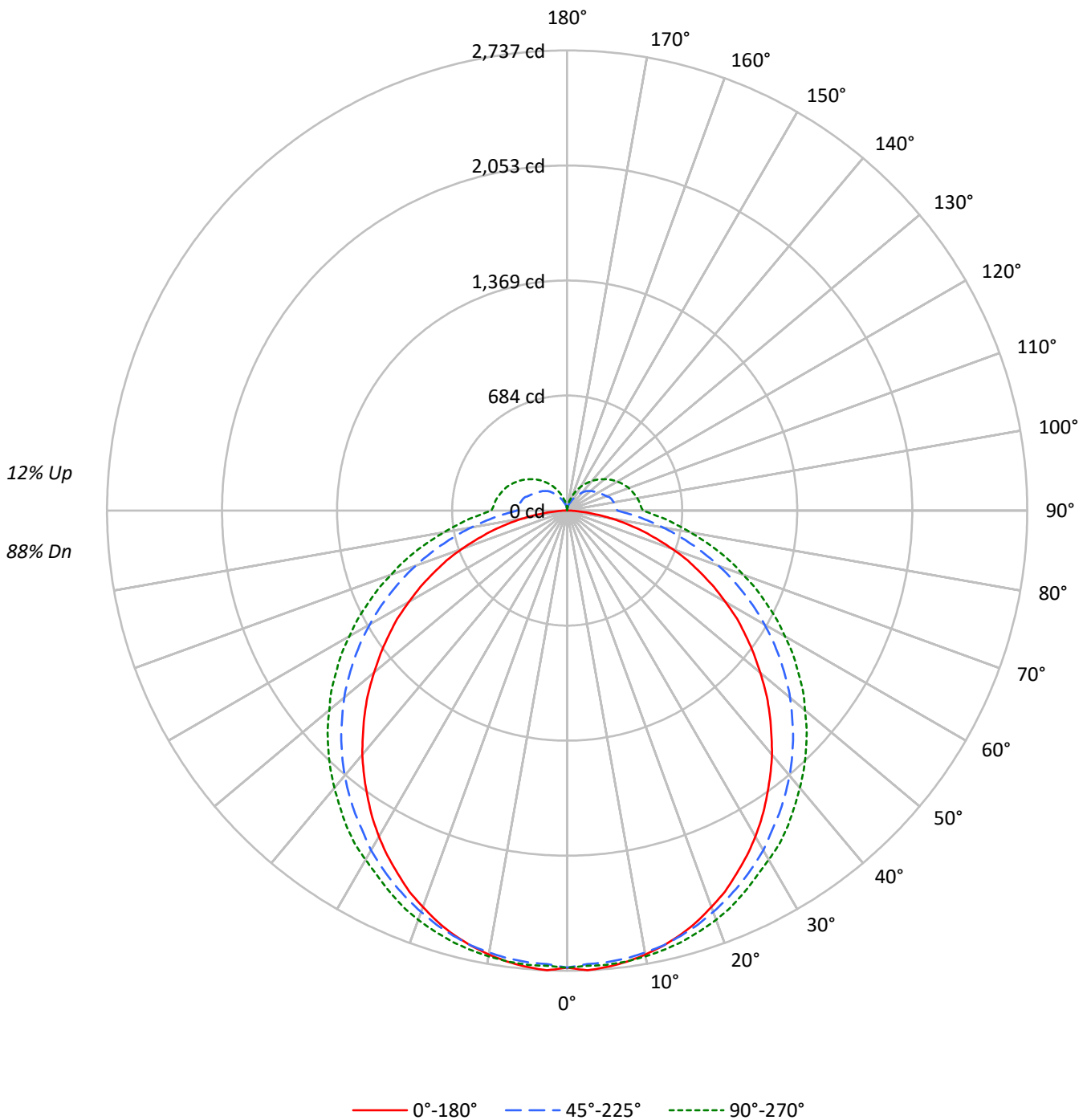
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9787.0 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29262	29262	29262
5°	29393	28516	28473
10°	29203	27951	27792
15°	28937	27345	27150
20°	28524	26682	26480
25°	28034	26016	25717
30°	27501	25347	25014
35°	26830	24598	24409
40°	26178	23914	23668
45°	25394	23156	22965
50°	24485	22348	22160
55°	23612	21405	21358
60°	22603	20383	20434
65°	21373	19217	19449
70°	19812	17903	18317
75°	17597	16389	17278
80°	14503	14887	15965
85°	10042	13543	15109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	2.6
10°-20°	742.4	7.6
20°-30°	1129.4	11.5
30°-40°	1373.2	14.0
40°-50°	1452.8	14.8
50°-60°	1361.8	13.9
60°-70°	1120.3	11.4
70°-80°	775.2	7.9
80°-90°	431.0	4.4
90°-100°	284.0	2.9
100°-110°	254.6	2.6
110°-120°	210.8	2.2
120°-130°	162.9	1.7
130°-140°	115.4	1.2
140°-150°	69.6	0.7
150°-160°	33.4	0.3
160°-170°	10.9	0.1
170°-180°	1.3	0.0
0°-30°	2129.8	21.8
0°-40°	3503.0	35.8
0°-60°	6317.6	64.6
0°-90°	8644.1	88.3
90°-120°	749.4	7.7
90°-150°	1097.3	11.2
90°-180°	1143.0	11.7
0°-180°	9787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2718	2718	2718	2718	2718	
5°	2725	2720	2697	2718	2712	259
15°	2611	2620	2618	2653	2653	736
25°	2383	2417	2445	2499	2501	1099
35°	2072	2127	2199	2269	2289	1296
45°	1703	1792	1901	1986	2010	1312
55°	1296	1411	1547	1644	1678	1160
65°	876	1002	1158	1272	1307	869
75°	456	588	761	882	930	484
85°	101	250	422	540	587	116
90°	2	141	298	411	451	7
95°	2	134	290	397	436	1
105°	2	116	272	374	407	2
115°	3	101	230	332	369	3
125°	3	86	196	283	318	3
135°	3	67	164	233	262	3
145°	3	49	114	176	198	2
155°	5	34	70	112	131	2
165°	5	22	38	52	67	1
175°	5	8	12	12	7	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2718.5	2718.5	2718.5	2718.5	2718.5
2.5°	2736.9	2728.5	2700.0	2718.5	2710.1
5°	2725.2	2720.1	2696.7	2718.5	2711.7
7.5°	2706.7	2705.0	2686.6	2711.7	2705.0
10°	2681.6	2684.9	2669.8	2696.7	2691.6
12.5°	2649.7	2654.8	2648.1	2678.2	2674.9
15°	2611.2	2619.6	2617.9	2653.1	2653.1
17.5°	2564.3	2576.0	2582.7	2622.9	2622.9
20°	2509.0	2527.4	2540.8	2584.4	2591.1
22.5°	2453.6	2475.4	2495.5	2540.8	2550.9
25°	2383.3	2416.8	2445.3	2498.9	2500.6
27.5°	2314.5	2351.4	2390.0	2441.9	2446.9
30°	2239.1	2286.0	2333.0	2383.3	2398.3
32.5°	2158.7	2210.6	2262.6	2329.6	2349.7
35°	2071.5	2126.8	2198.9	2269.3	2289.4
37.5°	1984.4	2046.4	2130.2	2202.2	2220.7
40°	1895.5	1964.3	2058.1	2131.9	2153.6
42.5°	1796.7	1880.5	1981.0	2059.8	2084.9
45°	1702.8	1791.6	1900.6	1986.0	2009.5
47.5°	1603.9	1697.8	1815.1	1905.6	1932.4
50°	1498.3	1605.6	1731.3	1821.8	1846.9
52.5°	1399.4	1508.4	1640.8	1734.6	1769.8
55°	1295.5	1411.2	1546.9	1644.1	1677.7
57.5°	1198.3	1308.9	1454.8	1552.0	1593.9
60°	1087.7	1210.1	1355.9	1461.5	1495.0
62.5°	983.8	1107.8	1258.7	1367.6	1406.2
65°	876.5	1002.2	1158.1	1272.1	1307.3
67.5°	776.0	900.0	1059.2	1171.5	1216.8
70°	665.4	796.1	958.7	1074.3	1112.9
72.5°	556.4	692.2	858.1	982.1	1025.7
75°	455.9	588.3	760.9	881.6	930.2
77.5°	358.7	492.7	667.0	791.1	833.0
80°	261.5	402.2	579.9	702.2	742.5
82.5°	172.6	320.1	496.1	618.4	662.0
85°	100.6	249.7	422.3	539.7	586.6
87.5°	43.6	189.4	353.6	469.3	507.8
90°	1.7	140.8	298.3	410.6	450.8
92.5°	1.7	137.4	291.6	402.2	440.8
95°	1.7	134.1	289.9	397.2	435.8
97.5°	1.7	132.4	286.6	393.9	430.7
100°	1.7	127.4	281.6	387.2	424.0
102.5°	1.7	120.7	276.5	380.4	415.6
105°	1.7	115.6	271.5	373.7	407.3
107.5°	1.7	110.6	263.1	365.4	398.9
110°	1.7	105.6	249.7	357.0	390.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	103.9	239.7	345.3	380.4
115°	3.4	100.6	229.6	331.8	368.7
117.5°	3.4	98.9	221.2	318.4	357.0
120°	3.4	93.9	212.9	306.7	343.6
122.5°	3.4	88.8	204.5	295.0	331.8
125°	3.4	85.5	196.1	283.2	318.4
127.5°	3.4	80.4	189.4	271.5	303.4
130°	3.4	77.1	181.0	258.1	289.9
132.5°	3.4	72.1	172.6	244.7	274.9
135°	3.4	67.0	164.2	233.0	261.5
137.5°	3.4	60.3	154.2	219.6	246.4
140°	3.4	55.3	140.8	206.1	231.3
142.5°	3.4	52.0	127.4	191.1	214.5
145°	3.4	48.6	114.0	176.0	197.8
147.5°	3.4	45.3	102.2	160.9	181.0
150°	3.4	40.2	90.5	147.5	164.2
152.5°	5.0	36.9	80.4	130.7	147.5
155°	5.0	33.5	70.4	112.3	130.7
157.5°	5.0	30.2	60.3	93.9	114.0
160°	5.0	26.8	52.0	77.1	97.2
162.5°	5.0	25.1	45.3	63.7	82.1
165°	5.0	21.8	38.5	52.0	67.0
167.5°	5.0	16.8	31.8	40.2	55.3
170°	5.0	13.4	25.1	28.5	41.9
172.5°	5.0	10.1	18.4	20.1	21.8
175°	5.0	8.4	11.7	11.7	6.7
177.5°	5.0	6.7	6.7	6.7	3.4
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)