

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: P566000

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-104HL-LC-UNV-L840-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

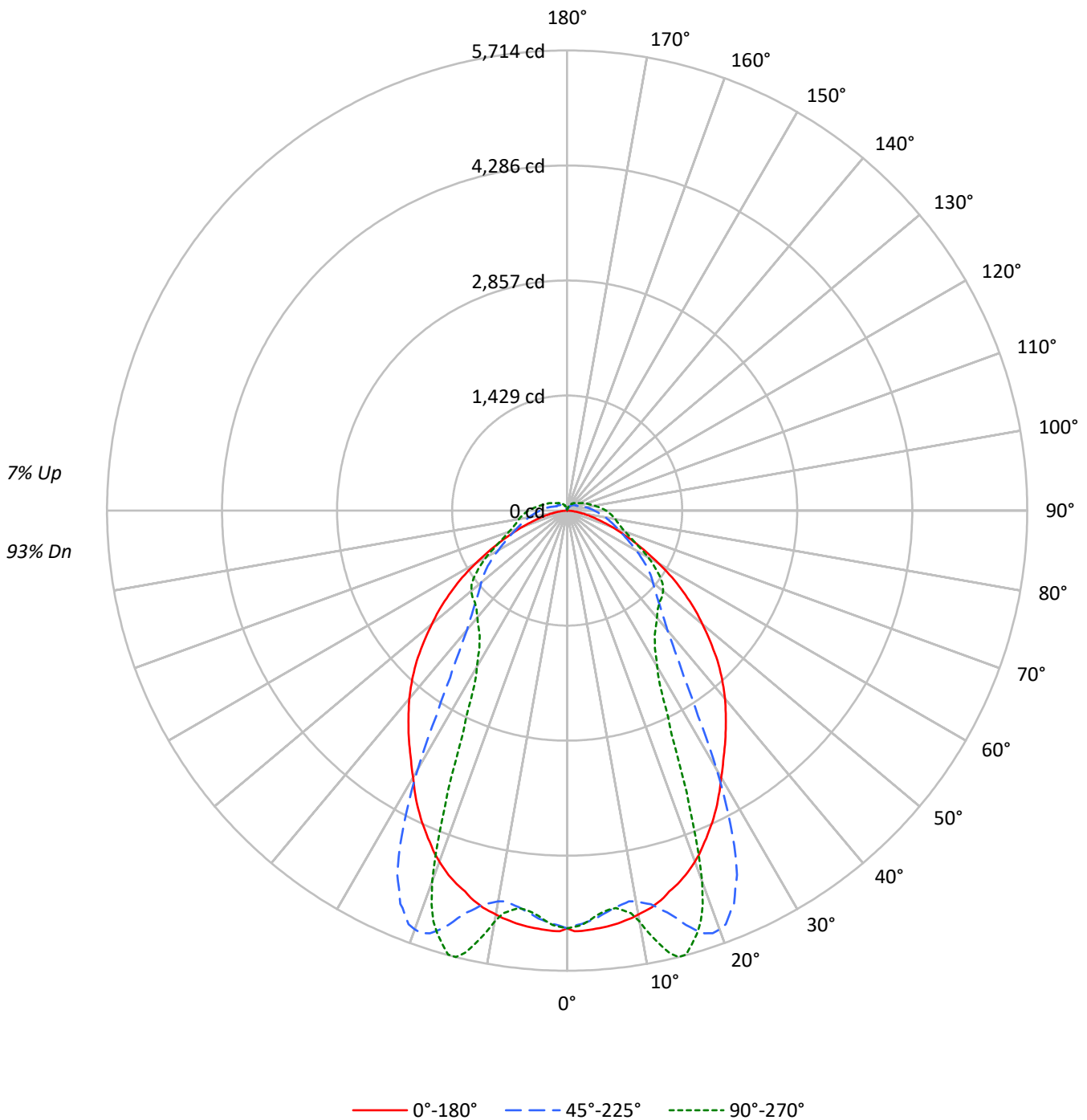
Lumens per Lamp: N/A
Luminaire Lumens: 11532.0 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

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	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	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	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	68	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	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	55852	55852	55852
5°	55919	52126	51124
10°	55249	49494	50696
15°	53963	51482	53969
20°	52330	53615	45169
25°	49703	48059	27773
30°	46437	35766	20100
35°	43769	24665	16956
40°	41379	19127	15627
45°	38596	16268	14779
50°	34972	14586	14508
55°	31156	13175	13422
60°	26267	11387	11611
65°	21201	9902	9690
70°	16458	8885	8532
75°	12547	8243	7956
80°	8564	7786	7875
85°	4417	7405	7820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.8	4.2
10°-20°	1475.4	12.8
20°-30°	1986.6	17.2
30°-40°	1880.1	16.3
40°-50°	1659.5	14.4
50°-60°	1347.8	11.7
60°-70°	916.7	7.9
70°-80°	589.8	5.1
80°-90°	392.2	3.4
90°-100°	269.5	2.3
100°-110°	180.9	1.6
110°-120°	127.6	1.1
120°-130°	91.2	0.8
130°-140°	64.3	0.6
140°-150°	39.9	0.3
150°-160°	19.5	0.2
160°-170°	6.8	0.1
170°-180°	1.2	0.0
0°-30°	3944.8	34.2
0°-40°	5824.9	50.5
0°-60°	8832.2	76.6
0°-90°	10731.0	93.1
90°-120°	578.1	5.0
90°-150°	773.5	6.7
90°-180°	801.0	6.9
0°-180°	11532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5189	5189	5189	5189	5189	
5°	5194	5147	5036	5032	5008	493
15°	4897	4865	5240	5703	5708	1380
25°	4266	5058	4992	3625	3065	1958
35°	3428	4810	2535	1953	1893	2145
45°	2641	3236	1604	1585	1618	2028
55°	1759	1914	1204	1345	1396	1571
65°	907	1032	806	896	924	910
75°	349	488	569	637	667	379
85°	53	208	403	511	546	69
90°	2	144	336	452	482	3
95°	2	111	284	384	410	1
105°	4	78	187	262	294	3
115°	4	67	137	195	220	4
125°	5	56	118	148	158	5
135°	7	44	97	123	130	5
145°	7	32	69	95	104	5
155°	9	19	42	63	72	4
165°	9	12	23	32	39	3
175°	11	11	11	11	9	1
180°	9	9	9	9	9	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5188.8	5188.8	5188.8	5188.8	5188.8
1°	5224.0	5208.2	5155.4	5183.5	5169.5
2°	5222.3	5195.9	5136.0	5167.7	5150.1
3°	5213.5	5185.3	5107.8	5127.2	5100.8
4°	5204.7	5171.2	5077.9	5077.9	5048.0
5°	5194.1	5146.6	5035.6	5032.1	5007.5
6°	5181.8	5127.2	4998.7	4995.2	4981.1
7°	5164.2	5093.8	4958.2	4982.8	4972.3
8°	5143.1	5062.1	4937.0	4998.7	5014.5
9°	5123.7	5023.3	4912.4	5048.0	5060.3
10°	5092.0	4988.1	4928.2	5146.6	5183.5
11°	5065.6	4958.2	4963.5	5243.4	5354.3
12°	5039.2	4926.5	4996.9	5364.9	5500.5
13°	4995.2	4901.8	5070.9	5497.0	5636.1
14°	4956.4	4882.5	5143.1	5630.8	5713.5
15°	4896.6	4864.9	5239.9	5703.0	5708.2
16°	4856.1	4852.5	5352.6	5708.2	5609.6
17°	4810.3	4847.3	5444.1	5616.7	5500.5
18°	4759.2	4857.8	5519.8	5502.2	5368.4
19°	4701.1	4868.4	5551.5	5343.8	5171.2
20°	4637.7	4884.2	5533.9	5178.3	4900.1
21°	4574.3	4905.4	5500.5	5004.0	4544.4
22.5°	4456.4	4956.4	5342.0	4514.5	3956.3
23°	4422.9	4967.0	5305.0	4361.3	3803.1
24°	4340.2	5011.0	5136.0	4003.9	3398.2
25°	4266.2	5058.5	4991.6	3625.3	3065.4
26°	4183.5	5093.8	4773.3	3276.7	2861.2
27°	4102.5	5114.9	4525.0	3005.5	2632.3
28°	4009.2	5137.8	4255.7	2771.4	2459.7
29°	3921.1	5141.3	3989.8	2584.7	2324.1
30°	3826.0	5123.7	3709.8	2435.1	2239.6
32.5°	3618.3	5026.8	3024.9	2149.8	2028.3
35°	3428.1	4810.3	2535.4	1952.6	1892.8
37.5°	3236.2	4468.7	2192.1	1829.4	1810.0
40°	3047.8	4063.7	1933.3	1730.8	1734.3
42.5°	2848.8	3646.4	1755.4	1649.8	1665.6
45°	2641.1	3236.2	1604.0	1584.6	1618.1
47.5°	2410.4	2861.2	1484.3	1542.4	1593.4
50°	2192.1	2489.7	1391.0	1501.9	1554.7
52.5°	1984.3	2185.0	1306.5	1433.2	1494.8
55°	1759.0	1913.9	1204.3	1345.2	1396.2
57.5°	1544.1	1669.2	1096.9	1236.0	1281.8
60°	1308.2	1427.9	987.8	1118.1	1162.1
62.5°	1095.2	1221.9	894.4	1000.1	1035.3
65°	906.8	1031.8	806.4	896.2	924.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	739.5	873.3	734.2	809.9	836.3
70°	582.8	723.7	670.8	739.5	767.7
72.5°	456.0	598.6	618.0	681.4	709.6
75°	348.6	487.7	568.7	637.4	667.3
77.5°	258.8	397.9	522.9	602.2	633.9
80°	170.8	316.9	482.4	570.5	607.4
82.5°	107.4	255.3	441.9	538.8	577.5
85°	52.8	207.8	403.2	510.6	545.8
87.5°	17.6	172.6	368.0	482.4	512.4
90°	1.8	144.4	336.3	452.5	482.4
92.5°	1.8	125.0	309.9	417.3	447.2
95°	1.8	110.9	283.5	383.8	410.2
97.5°	1.8	100.4	258.8	348.6	376.8
100°	1.8	89.8	232.4	315.2	345.1
102.5°	3.5	82.8	209.5	287.0	318.7
105°	3.5	77.5	186.6	262.3	294.0
107.5°	3.5	74.0	167.3	243.0	272.9
110°	3.5	70.4	153.2	225.4	257.1
112.5°	3.5	68.7	144.4	209.5	239.5
115°	3.5	66.9	137.3	195.4	220.1
117.5°	5.3	65.1	132.1	181.4	200.7
120°	5.3	61.6	128.5	169.0	184.9
122.5°	5.3	58.1	123.3	158.5	170.8
125°	5.3	56.3	118.0	147.9	158.5
127.5°	5.3	52.8	112.7	139.1	149.7
130°	7.0	49.3	107.4	132.1	140.9
132.5°	7.0	45.8	102.1	128.5	135.6
135°	7.0	44.0	96.8	123.3	130.3
137.5°	7.0	40.5	91.6	118.0	125.0
140°	7.0	37.0	84.5	110.9	118.0
142.5°	7.0	35.2	77.5	103.9	110.9
145°	7.0	31.7	68.7	95.1	103.9
147.5°	8.8	29.9	61.6	88.0	95.1
150°	8.8	26.4	54.6	81.0	88.0
152.5°	8.8	22.9	47.5	72.2	79.2
155°	8.8	19.4	42.3	63.4	72.2
157.5°	8.8	17.6	37.0	52.8	63.4
160°	8.8	15.8	31.7	45.8	54.6
162.5°	8.8	14.1	28.2	38.7	47.5
165°	8.8	12.3	22.9	31.7	38.7
167.5°	10.6	12.3	19.4	24.7	31.7
170°	10.6	12.3	15.8	19.4	24.7
172.5°	10.6	10.6	12.3	14.1	15.8
175°	10.6	10.6	10.6	10.6	8.8
177.5°	10.6	10.6	10.6	8.8	8.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	8.8	8.8	8.8	8.8	8.8

(END OF REPORT)