

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: P566864

Luminaire Tested: **4SNX-84HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566864
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-84HL-LC-UNV-L840-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

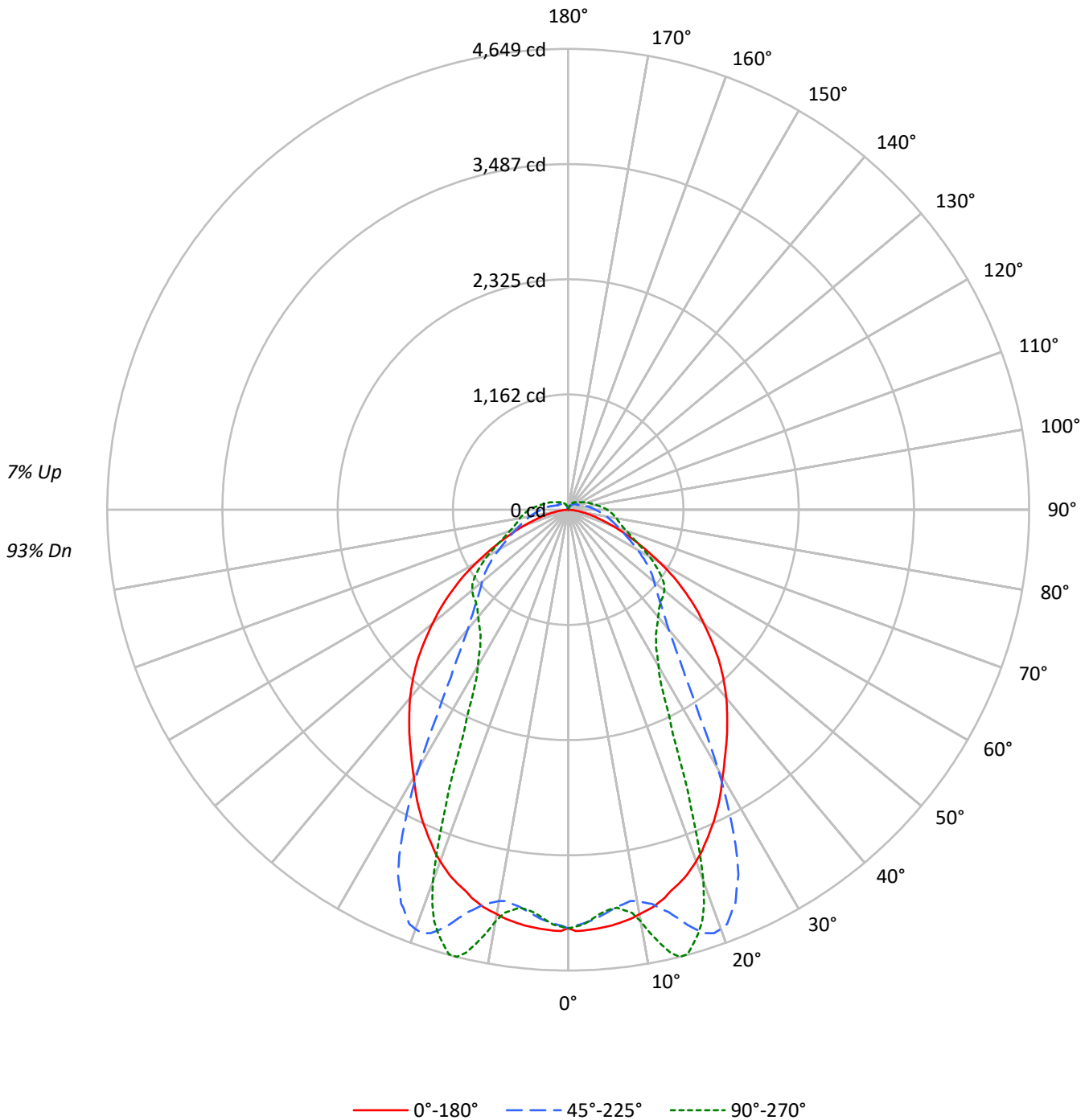
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9384.0 lumens
Efficiency: N/A
Efficacy: 162.1 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): 57.9
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P566864
CATALOG NUMBER: 4SNX-84HL-LC-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566864

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L840-CD

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°	45448	45448	45448
5°	45503	42417	41602
10°	44958	40275	41253
15°	43912	41893	43917
20°	42583	43629	36756
25°	40445	39108	22599
30°	37788	29104	16356
35°	35617	20072	13798
40°	33671	15564	12717
45°	31406	13238	12026
50°	28458	11869	11805
55°	25352	10722	10923
60°	21374	9266	9447
65°	17252	8058	7885
70°	13391	7230	6943
75°	10211	6708	6474
80°	6969	6336	6409
85°	3597	6025	6364



TEST NUMBER: P566864

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.9	4.2
10°-20°	1200.6	12.8
20°-30°	1616.6	17.2
30°-40°	1529.9	16.3
40°-50°	1350.4	14.4
50°-60°	1096.8	11.7
60°-70°	746.0	7.9
70°-80°	480.0	5.1
80°-90°	319.2	3.4
90°-100°	219.3	2.3
100°-110°	147.2	1.6
110°-120°	103.8	1.1
120°-130°	74.2	0.8
130°-140°	52.3	0.6
140°-150°	32.5	0.3
150°-160°	15.9	0.2
160°-170°	5.6	0.1
170°-180°	1.0	0.0
0°-30°	3210.0	34.2
0°-40°	4739.9	50.5
0°-60°	7187.1	76.6
0°-90°	8732.2	93.1
90°-120°	470.4	5.0
90°-150°	629.5	6.7
90°-180°	652.0	6.9
0°-180°	9384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4222	4222	4222	4222	4222	
5°	4227	4188	4098	4095	4075	401
15°	3984	3959	4264	4641	4645	1123
25°	3472	4116	4062	2950	2494	1593
35°	2790	3914	2063	1589	1540	1746
45°	2149	2633	1305	1290	1317	1650
55°	1431	1557	980	1095	1136	1278
65°	738	840	656	729	752	741
75°	284	397	463	519	543	309
85°	43	169	328	416	444	56
90°	1	118	274	368	393	3
95°	1	90	231	312	334	1
105°	3	63	152	214	239	3
115°	3	54	112	159	179	3
125°	4	46	96	120	129	4
135°	6	36	79	100	106	4
145°	6	26	56	77	84	4
155°	7	16	34	52	59	3
165°	7	10	19	26	32	2
175°	9	9	9	9	7	1
180°	7	7	7	7	7	



TEST NUMBER: P566864

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4222.3	4222.3	4222.3	4222.3	4222.3
1°	4251.0	4238.1	4195.1	4218.0	4206.6
2°	4249.6	4228.1	4179.4	4205.1	4190.8
3°	4242.4	4219.5	4156.4	4172.2	4150.7
4°	4235.2	4208.0	4132.1	4132.1	4107.7
5°	4226.6	4188.0	4097.7	4094.8	4074.8
6°	4216.6	4172.2	4067.6	4064.7	4053.3
7°	4202.3	4145.0	4034.6	4054.7	4046.1
8°	4185.1	4119.2	4017.5	4067.6	4080.5
9°	4169.3	4087.7	3997.4	4107.7	4117.7
10°	4143.5	4059.0	4010.3	4188.0	4218.0
11°	4122.0	4034.6	4038.9	4266.8	4357.0
12°	4100.6	4008.9	4066.2	4365.6	4475.9
13°	4064.7	3988.8	4126.3	4473.1	4586.3
14°	4033.2	3973.0	4185.1	4582.0	4649.3
15°	3984.5	3958.7	4263.9	4640.7	4645.0
16°	3951.5	3948.7	4355.6	4645.0	4564.8
17°	3914.3	3944.4	4430.1	4570.5	4475.9
18°	3872.7	3953.0	4491.7	4477.4	4368.5
19°	3825.5	3961.6	4517.5	4348.4	4208.0
20°	3773.9	3974.5	4503.2	4213.7	3987.4
21°	3722.3	3991.7	4475.9	4071.9	3697.9
22.5°	3626.3	4033.2	4347.0	3673.6	3219.4
23°	3599.1	4041.8	4316.9	3548.9	3094.8
24°	3531.7	4077.6	4179.4	3258.1	2765.2
25°	3471.6	4116.3	4061.9	2950.0	2494.4
26°	3404.2	4145.0	3884.2	2666.4	2328.2
27°	3338.3	4162.2	3682.2	2445.7	2142.0
28°	3262.4	4180.8	3463.0	2255.2	2001.6
29°	3190.8	4183.7	3246.6	2103.3	1891.2
30°	3113.4	4169.3	3018.8	1981.5	1822.5
32.5°	2944.3	4090.5	2461.5	1749.4	1650.5
35°	2789.6	3914.3	2063.2	1588.9	1540.2
37.5°	2633.4	3636.3	1783.8	1488.6	1472.9
40°	2480.1	3306.8	1573.2	1408.4	1411.3
42.5°	2318.2	2967.2	1428.5	1342.5	1355.4
45°	2149.1	2633.4	1305.2	1289.5	1316.7
47.5°	1961.4	2328.2	1207.8	1255.1	1296.6
50°	1783.8	2025.9	1131.9	1222.1	1265.1
52.5°	1614.7	1778.1	1063.1	1166.3	1216.4
55°	1431.3	1557.4	980.0	1094.6	1136.2
57.5°	1256.5	1358.3	892.6	1005.8	1043.0
60°	1064.5	1162.0	803.8	909.8	945.6
62.5°	891.2	994.3	727.8	813.8	842.5
65°	737.9	839.6	656.2	729.3	752.2



TEST NUMBER: P566864

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	601.8	710.6	597.5	659.1	680.6
70°	474.2	588.9	545.9	601.8	624.7
72.5°	371.1	487.1	502.9	554.5	577.4
75°	283.7	396.9	462.8	518.7	543.0
77.5°	210.6	323.8	425.5	490.0	515.8
80°	139.0	257.9	392.6	464.2	494.3
82.5°	87.4	207.7	359.6	438.4	469.9
85°	43.0	169.1	328.1	415.5	444.2
87.5°	14.3	140.4	299.4	392.6	416.9
90°	1.4	117.5	273.7	368.2	392.6
92.5°	1.4	101.7	252.2	339.6	363.9
95°	1.4	90.3	230.7	312.3	333.8
97.5°	1.4	81.7	210.6	283.7	306.6
100°	1.4	73.1	189.1	256.5	280.8
102.5°	2.9	67.3	170.5	233.5	259.3
105°	2.9	63.0	151.9	213.5	239.3
107.5°	2.9	60.2	136.1	197.7	222.1
110°	2.9	57.3	124.6	183.4	209.2
112.5°	2.9	55.9	117.5	170.5	194.9
115°	2.9	54.4	111.8	159.0	179.1
117.5°	4.3	53.0	107.5	147.6	163.3
120°	4.3	50.1	104.6	137.5	150.4
122.5°	4.3	47.3	100.3	128.9	139.0
125°	4.3	45.8	96.0	120.4	128.9
127.5°	4.3	43.0	91.7	113.2	121.8
130°	5.7	40.1	87.4	107.5	114.6
132.5°	5.7	37.3	83.1	104.6	110.3
135°	5.7	35.8	78.8	100.3	106.0
137.5°	5.7	33.0	74.5	96.0	101.7
140°	5.7	30.1	68.8	90.3	96.0
142.5°	5.7	28.7	63.0	84.5	90.3
145°	5.7	25.8	55.9	77.4	84.5
147.5°	7.2	24.4	50.1	71.6	77.4
150°	7.2	21.5	44.4	65.9	71.6
152.5°	7.2	18.6	38.7	58.7	64.5
155°	7.2	15.8	34.4	51.6	58.7
157.5°	7.2	14.3	30.1	43.0	51.6
160°	7.2	12.9	25.8	37.3	44.4
162.5°	7.2	11.5	22.9	31.5	38.7
165°	7.2	10.0	18.6	25.8	31.5
167.5°	8.6	10.0	15.8	20.1	25.8
170°	8.6	10.0	12.9	15.8	20.1
172.5°	8.6	8.6	10.0	11.5	12.9
175°	8.6	8.6	8.6	8.6	7.2
177.5°	8.6	8.6	8.6	7.2	7.2



TEST NUMBER: P566864

CATALOG NUMBER: 4SNX-84HL-LC-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	7.2	7.2	7.2	7.2	7.2

(END OF REPORT)