

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: P565960

Luminaire Tested: **4SNX-100HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-100HL-LN-UNV-L840-CD
Description: 4FT 10000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

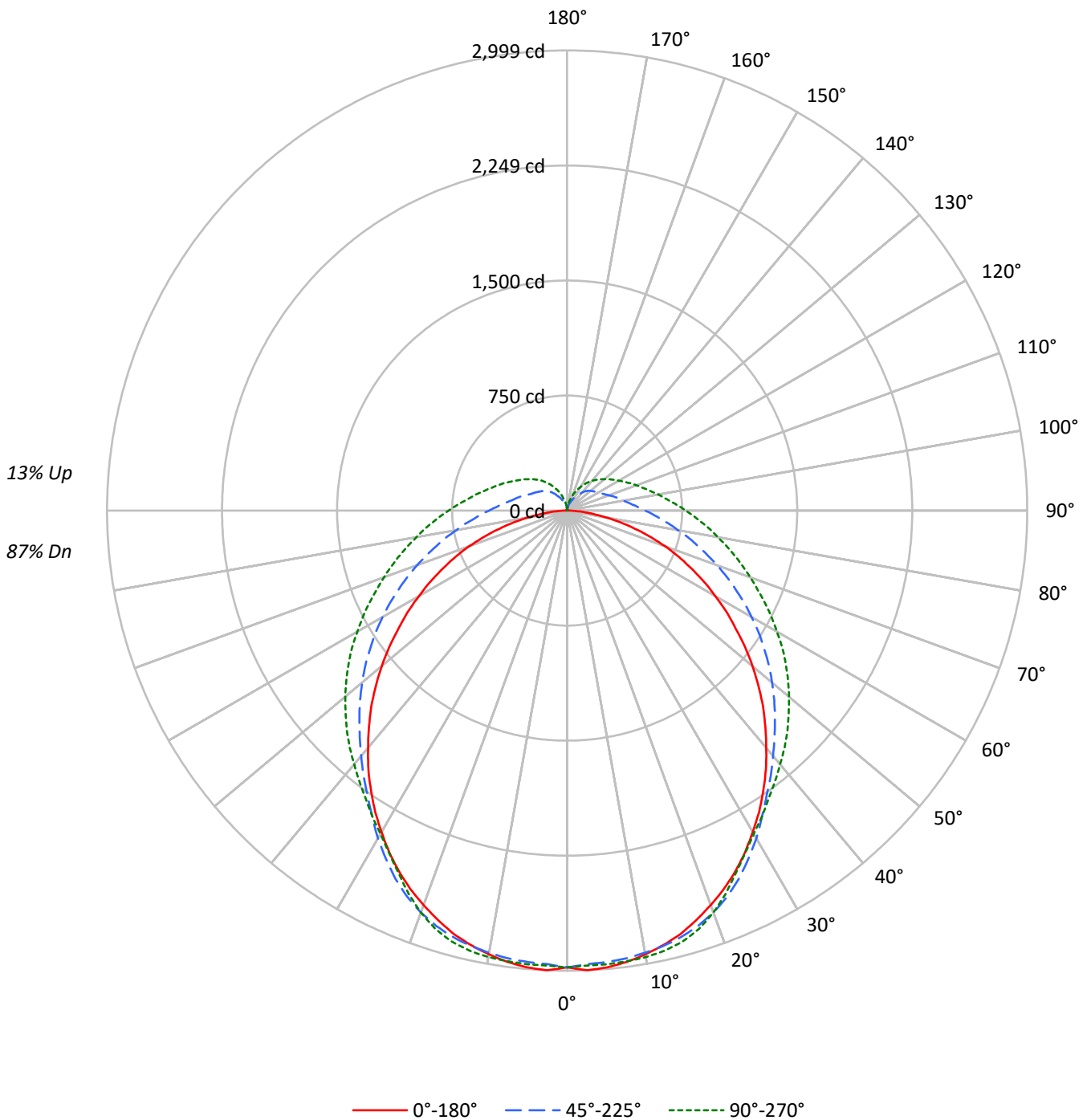
Lumens per Lamp: N/A
Luminaire Lumens: 10746.0 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 72.5
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

TEST NUMBER: P565960

CATALOG NUMBER: 4SNX-100HL-LN-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P565960

CATALOG NUMBER: 4SNX-100HL-LN-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	0
RCR																				
0	116	116	116	116	112	112	112	112	104	104	104		96	96	96		90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81		82	79	76		76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66		71	66	62		66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54		62	56	52		58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46		55	49	44		51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40		49	43	38		46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35		44	38	33		42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30		41	34	29		38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27		37	31	26		35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24		34	28	24		32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22		32	26	21		30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32042	32042	32042
5°	32166	30570	30299
10°	31865	29384	28901
15°	31481	28263	27490
20°	30876	27006	25694
25°	30224	25486	23587
30°	29365	23782	21827
35°	28448	22047	20515
40°	27406	20655	19452
45°	26383	19420	18536
50°	25170	18283	17612
55°	23750	17141	16708
60°	22386	16002	15763
65°	20872	14855	14896
70°	19137	13779	14113
75°	16459	12727	13467
80°	12971	11821	12920
85°	8684	11175	12606



TEST NUMBER: P565960

CATALOG NUMBER: 4SNX-100HL-LN-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	2.6
10°-20°	813.1	7.6
20°-30°	1210.7	11.3
30°-40°	1428.6	13.3
40°-50°	1489.9	13.9
50°-60°	1400.1	13.0
60°-70°	1182.4	11.0
70°-80°	893.4	8.3
80°-90°	615.8	5.7
90°-100°	431.0	4.0
100°-110°	321.6	3.0
110°-120°	242.4	2.3
120°-130°	180.8	1.7
130°-140°	126.9	1.2
140°-150°	76.7	0.7
150°-160°	36.7	0.3
160°-170°	11.8	0.1
170°-180°	1.4	0.0
0°-30°	2306.6	21.5
0°-40°	3735.2	34.8
0°-60°	6625.2	61.7
0°-90°	9316.8	86.7
90°-120°	995.0	9.3
90°-150°	1379.4	12.8
90°-180°	1429.0	13.3
0°-180°	10746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2977	2977	2977	2977	2977	
5°	2988	2982	2953	2975	2968	284
15°	2857	2869	2877	2913	2908	804
25°	2594	2647	2647	2623	2603	1194
35°	2228	2310	2266	2285	2290	1393
45°	1805	1895	1915	1993	2030	1390
55°	1341	1456	1567	1692	1738	1203
65°	893	1035	1210	1368	1421	886
75°	457	634	878	1062	1130	487
85°	104	326	608	809	880	116
90°	2	231	508	703	772	7
95°	2	180	430	616	680	1
105°	4	129	332	481	536	4
115°	4	111	257	383	432	4
125°	6	95	217	313	353	5
135°	6	73	180	255	286	4
145°	7	53	126	195	219	4
155°	7	35	76	124	144	3
165°	9	22	40	55	73	3
175°	9	9	11	11	6	1
180°	6	6	6	6	6	



TEST NUMBER: P565960

CATALOG NUMBER: 4SNX-100HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2976.8	2976.8	2976.8	2976.8	2976.8
2.5°	2998.7	2991.4	2958.6	2976.8	2967.7
5°	2987.8	2982.3	2953.2	2975.0	2967.7
7.5°	2967.7	2965.9	2944.0	2969.6	2962.3
10°	2936.8	2942.2	2925.8	2960.4	2955.0
12.5°	2900.3	2911.3	2905.8	2944.0	2938.6
15°	2856.6	2869.4	2876.6	2913.1	2907.6
17.5°	2798.3	2822.0	2838.4	2867.5	2858.4
20°	2736.4	2769.2	2787.4	2801.9	2787.4
22.5°	2669.0	2712.7	2723.6	2716.3	2701.7
25°	2594.3	2647.1	2647.1	2623.4	2603.4
27.5°	2510.5	2576.0	2557.8	2530.5	2514.1
30°	2419.4	2497.7	2466.7	2435.8	2432.1
32.5°	2328.3	2410.3	2364.7	2357.4	2362.9
35°	2228.1	2310.1	2266.3	2284.6	2290.0
37.5°	2127.9	2209.9	2180.7	2208.0	2224.4
40°	2018.6	2106.0	2087.8	2137.0	2158.8
42.5°	1911.1	2002.2	2000.4	2064.1	2096.9
45°	1805.4	1894.7	1914.7	1993.1	2029.5
47.5°	1690.6	1781.7	1830.9	1922.0	1958.4
50°	1577.7	1676.1	1743.5	1845.5	1887.4
52.5°	1461.1	1564.9	1657.8	1770.8	1814.5
55°	1340.9	1455.6	1566.8	1692.5	1738.0
57.5°	1233.4	1350.0	1481.1	1610.5	1663.3
60°	1114.9	1244.3	1388.2	1524.9	1577.7
62.5°	1007.5	1140.5	1300.8	1444.7	1501.2
65°	892.7	1034.8	1209.7	1368.2	1421.0
67.5°	787.0	932.8	1124.1	1284.4	1342.7
70°	677.7	832.6	1040.3	1209.7	1269.8
72.5°	564.8	728.7	956.5	1136.8	1198.8
75°	457.3	634.0	878.1	1062.1	1129.5
77.5°	357.1	542.9	807.1	996.5	1062.1
80°	258.7	460.9	732.4	929.1	996.5
82.5°	171.3	389.9	672.2	869.0	940.1
85°	103.8	326.1	608.5	808.9	879.9
87.5°	47.4	273.3	557.5	756.1	825.3
90°	1.8	231.4	508.3	703.2	772.4
92.5°	1.8	202.2	468.2	657.7	725.1
95°	1.8	180.4	429.9	615.8	679.5
97.5°	1.8	165.8	400.8	575.7	637.6
100°	1.8	151.2	371.6	539.3	603.0
102.5°	3.6	138.5	349.8	506.5	566.6
105°	3.6	129.3	331.6	481.0	535.6
107.5°	3.6	123.9	311.5	455.5	506.5
110°	3.6	118.4	289.7	429.9	481.0



TEST NUMBER: P565960

CATALOG NUMBER: 4SNX-100HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.6	114.8	273.3	408.1	457.3
115°	3.6	111.1	256.9	382.6	431.8
117.5°	3.6	109.3	247.8	362.5	409.9
120°	5.5	103.8	236.8	344.3	389.9
122.5°	5.5	98.4	225.9	329.7	369.8
125°	5.5	94.7	216.8	313.4	353.4
127.5°	5.5	89.3	207.7	298.8	335.2
130°	5.5	83.8	200.4	284.2	318.8
132.5°	5.5	78.3	191.3	269.6	302.4
135°	5.5	72.9	180.4	255.1	286.0
137.5°	5.5	67.4	169.4	240.5	269.6
140°	5.5	61.9	154.9	225.9	253.2
142.5°	5.5	56.5	140.3	211.3	235.0
145°	7.3	52.8	125.7	194.9	218.6
147.5°	7.3	47.4	111.1	178.5	198.6
150°	7.3	43.7	100.2	162.1	180.4
152.5°	7.3	38.3	89.3	143.9	162.1
155°	7.3	34.6	76.5	123.9	143.9
157.5°	7.3	31.0	65.6	103.8	125.7
160°	7.3	29.1	56.5	85.6	107.5
162.5°	9.1	25.5	47.4	69.2	89.3
165°	9.1	21.9	40.1	54.7	72.9
167.5°	9.1	18.2	32.8	41.9	56.5
170°	9.1	14.6	25.5	29.1	43.7
172.5°	9.1	10.9	18.2	20.0	21.9
175°	9.1	9.1	10.9	10.9	5.5
177.5°	9.1	9.1	7.3	5.5	1.8
180°	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)