

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: P566968

Luminaire Tested: **4SNX-90HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566968
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-90HL-LN-UNV-L840-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

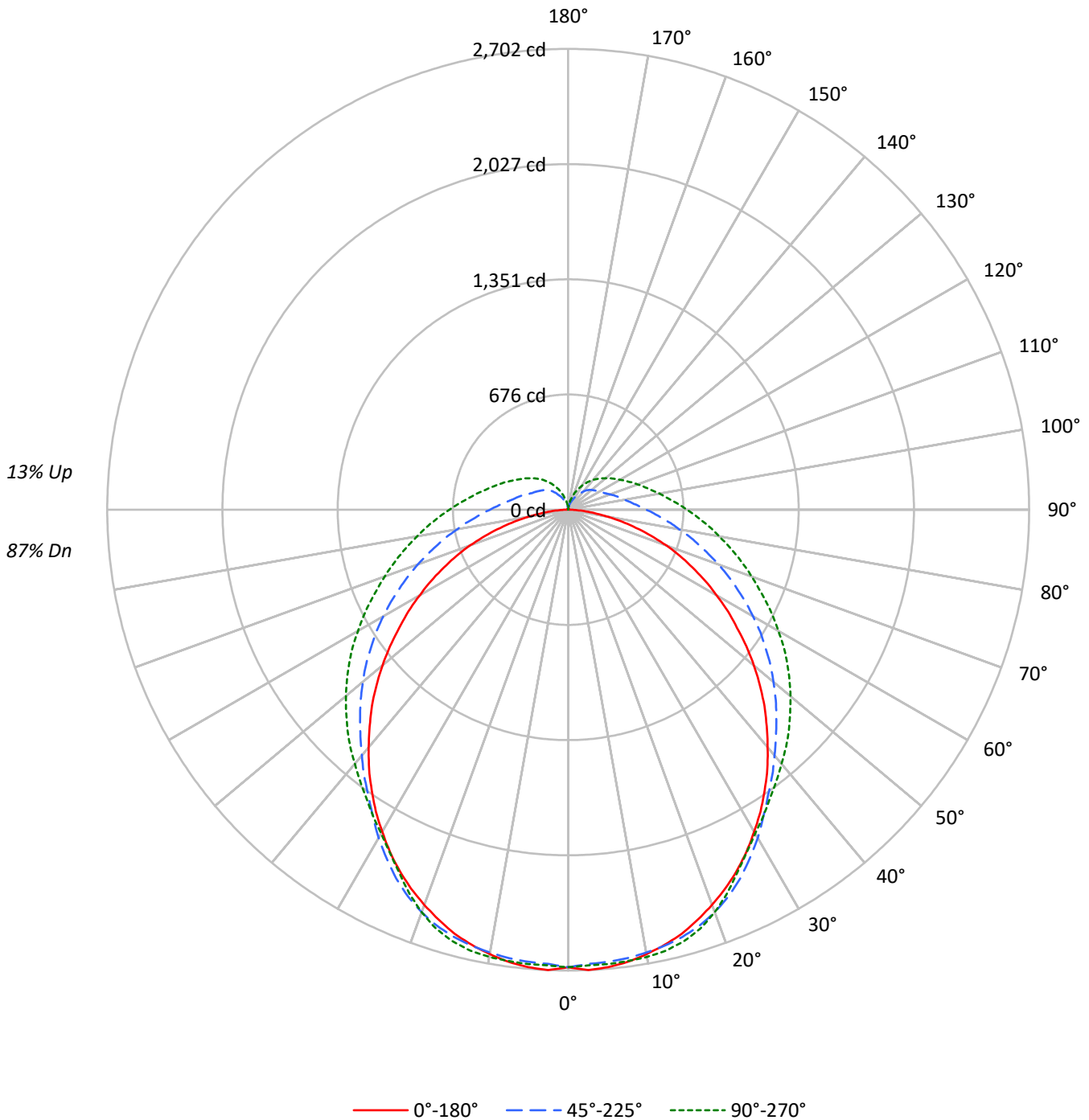
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9683.0 lumens
Efficiency: N/A
Efficacy: 150.4 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): 64.4
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	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°	28873	28873	28873
5°	28984	27545	27302
10°	28713	26477	26042
15°	28367	25467	24771
20°	27822	24334	23152
25°	27234	22965	21253
30°	26459	21429	19668
35°	25634	19866	18486
40°	24694	18612	17528
45°	23773	17499	16702
50°	22679	16474	15870
55°	21400	15446	15055
60°	20173	14420	14203
65°	18807	13385	13422
70°	17245	12416	12717
75°	14829	11469	12135
80°	11687	10651	11643
85°	7830	10069	11360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	2.6
10°-20°	732.6	7.6
20°-30°	1090.9	11.3
30°-40°	1287.3	13.3
40°-50°	1342.5	13.9
50°-60°	1261.6	13.0
60°-70°	1065.4	11.0
70°-80°	805.0	8.3
80°-90°	554.9	5.7
90°-100°	388.3	4.0
100°-110°	289.8	3.0
110°-120°	218.5	2.3
120°-130°	162.9	1.7
130°-140°	114.4	1.2
140°-150°	69.1	0.7
150°-160°	33.1	0.3
160°-170°	10.6	0.1
170°-180°	1.3	0.0
0°-30°	2078.4	21.5
0°-40°	3365.7	34.8
0°-60°	5969.8	61.7
0°-90°	8395.1	86.7
90°-120°	896.6	9.3
90°-150°	1243.0	12.8
90°-180°	1288.0	13.3
0°-180°	9683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2682	2682	2682	2682	2682	
5°	2692	2687	2661	2681	2674	255
15°	2574	2586	2592	2625	2620	725
25°	2338	2385	2385	2364	2346	1075
35°	2008	2082	2042	2059	2064	1256
45°	1627	1707	1725	1796	1829	1253
55°	1208	1312	1412	1525	1566	1084
65°	804	932	1090	1233	1280	799
75°	412	571	791	957	1018	439
85°	94	294	548	729	793	105
90°	2	208	458	634	696	7
95°	2	162	387	555	612	1
105°	3	117	299	433	483	3
115°	3	100	232	345	389	3
125°	5	85	195	282	318	4
135°	5	66	162	230	258	4
145°	7	48	113	176	197	4
155°	7	31	69	112	130	3
165°	8	20	36	49	66	2
175°	8	8	10	10	5	1
180°	5	5	5	5	5	



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CATALOG NUMBER: 4SNX-90HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2682.4	2682.4	2682.4	2682.4	2682.4
2.5°	2702.1	2695.5	2666.0	2682.4	2674.2
5°	2692.2	2687.3	2661.0	2680.7	2674.2
7.5°	2674.2	2672.5	2652.8	2675.8	2669.2
10°	2646.3	2651.2	2636.4	2667.6	2662.7
12.5°	2613.4	2623.3	2618.3	2652.8	2647.9
15°	2574.0	2585.5	2592.1	2624.9	2620.0
17.5°	2521.5	2542.8	2557.6	2583.9	2575.7
20°	2465.7	2495.2	2511.6	2524.8	2511.6
22.5°	2404.9	2444.3	2454.2	2447.6	2434.5
25°	2337.6	2385.2	2385.2	2363.9	2345.8
27.5°	2262.1	2321.2	2304.8	2280.2	2265.4
30°	2180.0	2250.6	2222.7	2194.8	2191.5
32.5°	2098.0	2171.8	2130.8	2124.2	2129.2
35°	2007.7	2081.5	2042.1	2058.6	2063.5
37.5°	1917.4	1991.3	1965.0	1989.6	2004.4
40°	1818.9	1897.7	1881.3	1925.6	1945.3
42.5°	1722.0	1804.1	1802.5	1859.9	1889.5
45°	1626.8	1707.3	1725.3	1795.9	1828.7
47.5°	1523.4	1605.5	1649.8	1731.9	1764.7
50°	1421.6	1510.3	1571.0	1662.9	1700.7
52.5°	1316.6	1410.1	1493.9	1595.6	1635.0
55°	1208.2	1311.6	1411.8	1525.0	1566.1
57.5°	1111.4	1216.4	1334.6	1451.2	1498.8
60°	1004.7	1121.2	1250.9	1374.0	1421.6
62.5°	907.8	1027.6	1172.1	1301.8	1352.7
65°	804.4	932.4	1090.0	1232.8	1280.4
67.5°	709.2	840.5	1012.9	1157.3	1209.9
70°	610.7	750.2	937.4	1090.0	1144.2
72.5°	508.9	656.6	861.8	1024.4	1080.2
75°	412.0	571.3	791.3	957.1	1017.8
77.5°	321.8	489.2	727.2	898.0	957.1
80°	233.1	415.3	659.9	837.2	898.0
82.5°	154.3	351.3	605.7	783.0	847.1
85°	93.6	293.8	548.3	728.9	792.9
87.5°	42.7	246.2	502.3	681.3	743.6
90°	1.6	208.5	458.0	633.7	696.0
92.5°	1.6	182.2	421.9	592.6	653.4
95°	1.6	162.5	387.4	554.9	612.3
97.5°	1.6	149.4	361.2	518.7	574.6
100°	1.6	136.3	334.9	485.9	543.4
102.5°	3.3	124.8	315.2	456.4	510.5
105°	3.3	116.6	298.8	433.4	482.6
107.5°	3.3	111.6	280.7	410.4	456.4
110°	3.3	106.7	261.0	387.4	433.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	103.4	246.2	367.7	412.0
115°	3.3	100.1	231.5	344.7	389.1
117.5°	3.3	98.5	223.3	326.7	369.4
120°	4.9	93.6	213.4	310.3	351.3
122.5°	4.9	88.6	203.6	297.1	333.2
125°	4.9	85.4	195.4	282.4	318.5
127.5°	4.9	80.4	187.1	269.2	302.1
130°	4.9	75.5	180.6	256.1	287.3
132.5°	4.9	70.6	172.4	243.0	272.5
135°	4.9	65.7	162.5	229.8	257.7
137.5°	4.9	60.7	152.7	216.7	243.0
140°	4.9	55.8	139.5	203.6	228.2
142.5°	4.9	50.9	126.4	190.4	211.8
145°	6.6	47.6	113.3	175.7	197.0
147.5°	6.6	42.7	100.1	160.9	178.9
150°	6.6	39.4	90.3	146.1	162.5
152.5°	6.6	34.5	80.4	129.7	146.1
155°	6.6	31.2	68.9	111.6	129.7
157.5°	6.6	27.9	59.1	93.6	113.3
160°	6.6	26.3	50.9	77.2	96.9
162.5°	8.2	23.0	42.7	62.4	80.4
165°	8.2	19.7	36.1	49.2	65.7
167.5°	8.2	16.4	29.5	37.8	50.9
170°	8.2	13.1	23.0	26.3	39.4
172.5°	8.2	9.8	16.4	18.1	19.7
175°	8.2	8.2	9.8	9.8	4.9
177.5°	8.2	8.2	6.6	4.9	1.6
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)