

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: P565708

Luminaire Tested: **2SNX-40HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565708
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: 2SNX-40HL-LN-UNV-L840-CD
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

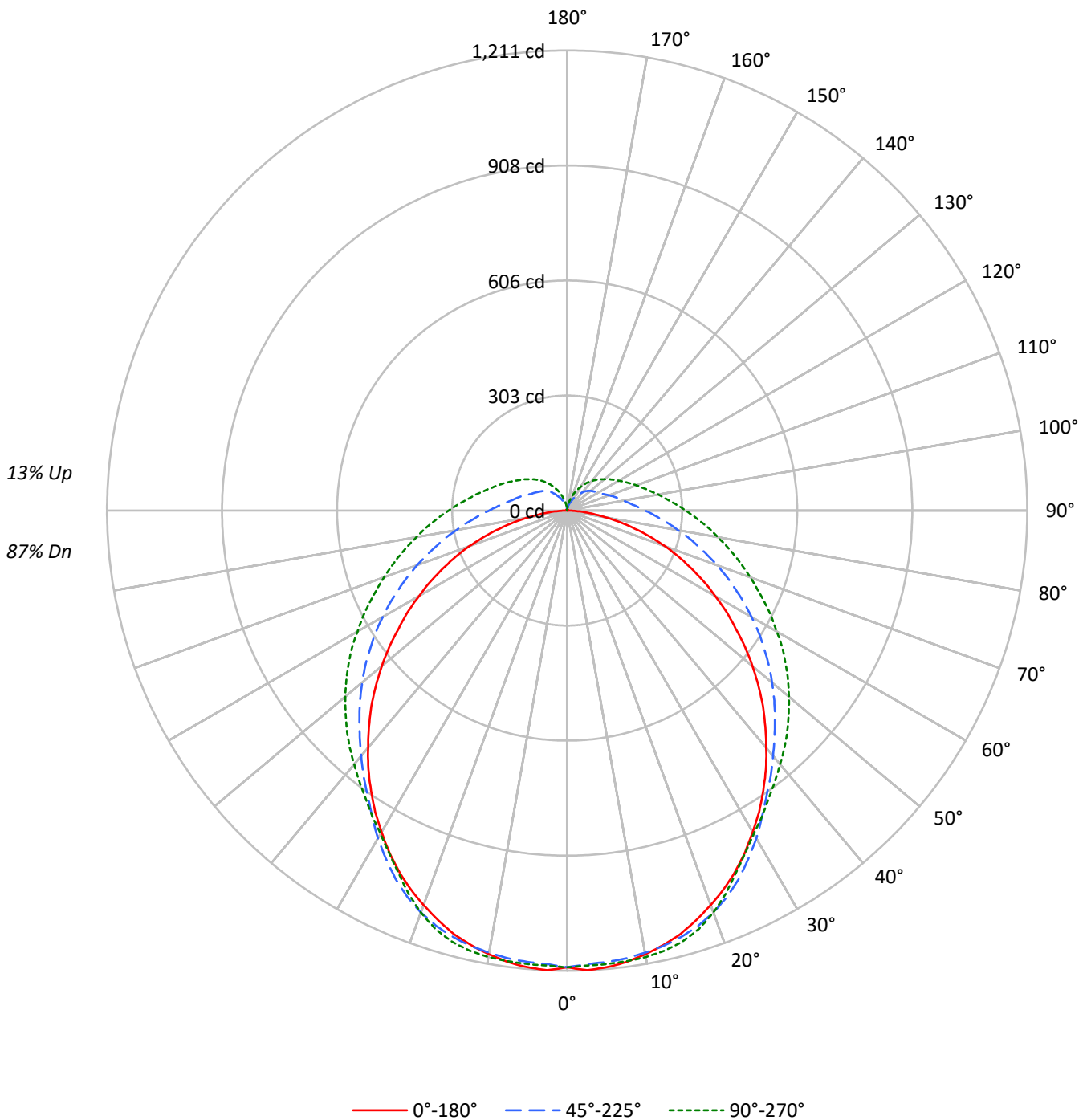
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4339.0 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 27.55
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

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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	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°	25876	25876	25876
5°	25882	24625	24468
10°	25546	23617	23340
15°	25145	22666	22200
20°	24567	21613	20750
25°	23951	20354	19048
30°	23169	18955	17626
35°	22339	17537	16568
40°	21409	16395	15709
45°	20487	15380	14970
50°	19407	14447	14223
55°	18159	13510	13493
60°	16939	12578	12729
65°	15575	11640	12030
70°	14013	10759	11396
75°	11712	9900	10876
80°	8797	9147	10435
85°	5301	8594	10181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	2.6
10°-20°	328.3	7.6
20°-30°	488.9	11.3
30°-40°	576.8	13.3
40°-50°	601.6	13.9
50°-60°	565.3	13.0
60°-70°	477.4	11.0
70°-80°	360.7	8.3
80°-90°	248.6	5.7
90°-100°	174.0	4.0
100°-110°	129.9	3.0
110°-120°	97.9	2.3
120°-130°	73.0	1.7
130°-140°	51.2	1.2
140°-150°	31.0	0.7
150°-160°	14.8	0.3
160°-170°	4.7	0.1
170°-180°	0.6	0.0
0°-30°	931.3	21.5
0°-40°	1508.2	34.8
0°-60°	2675.1	61.7
0°-90°	3761.9	86.7
90°-120°	401.7	9.3
90°-150°	557.0	12.8
90°-180°	577.0	13.3
0°-180°	4339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1206	1204	1192	1201	1198	114
15°	1153	1159	1162	1176	1174	325
25°	1048	1069	1069	1059	1051	482
35°	900	933	915	922	925	563
45°	729	765	773	805	820	561
55°	541	588	633	683	702	486
65°	360	418	488	552	574	358
75°	185	256	355	429	456	197
85°	42	132	246	327	355	47
90°	1	93	205	284	312	3
95°	1	73	174	249	274	1
105°	2	52	134	194	216	1
115°	2	45	104	154	174	2
125°	2	38	88	126	143	2
135°	2	29	73	103	116	2
145°	3	21	51	79	88	2
155°	3	14	31	50	58	1
165°	4	9	16	22	29	1
175°	4	4	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1202.0	1202.0	1202.0	1202.0	1202.0
2.5°	1210.8	1207.9	1194.6	1202.0	1198.3
5°	1206.4	1204.2	1192.4	1201.2	1198.3
7.5°	1198.3	1197.6	1188.7	1199.0	1196.1
10°	1185.8	1188.0	1181.4	1195.4	1193.2
12.5°	1171.1	1175.5	1173.3	1188.7	1186.5
15°	1153.4	1158.6	1161.5	1176.2	1174.0
17.5°	1129.9	1139.5	1146.1	1157.8	1154.2
20°	1104.9	1118.1	1125.5	1131.4	1125.5
22.5°	1077.7	1095.3	1099.7	1096.8	1090.9
25°	1047.5	1068.8	1068.8	1059.3	1051.2
27.5°	1013.7	1040.1	1032.8	1021.8	1015.1
30°	976.9	1008.5	996.0	983.5	982.0
32.5°	940.1	973.2	954.8	951.9	954.1
35°	899.6	932.8	915.1	922.5	924.7
37.5°	859.2	892.3	880.5	891.6	898.2
40°	815.1	850.4	843.0	862.9	871.7
42.5°	771.7	808.4	807.7	833.4	846.7
45°	729.0	765.0	773.1	804.8	819.5
47.5°	682.6	719.4	739.3	776.1	790.8
50°	637.0	676.8	704.0	745.2	762.1
52.5°	590.0	631.9	669.4	715.0	732.7
55°	541.4	587.8	632.6	683.4	701.8
57.5°	498.0	545.1	598.0	650.3	671.6
60°	450.2	502.4	560.5	615.7	637.0
62.5°	406.8	460.5	525.2	583.3	606.1
65°	360.4	417.8	488.4	552.4	573.8
67.5°	317.8	376.6	453.9	518.6	542.1
70°	273.6	336.2	420.0	488.4	512.7
72.5°	228.0	294.2	386.2	459.0	484.0
75°	184.6	256.0	354.6	428.9	456.1
77.5°	144.2	219.2	325.9	402.4	428.9
80°	104.5	186.1	295.7	375.2	402.4
82.5°	69.1	157.4	271.4	350.9	379.6
85°	41.9	131.7	245.7	326.6	355.3
87.5°	19.1	110.3	225.1	305.3	333.2
90°	0.7	93.4	205.2	283.9	311.9
92.5°	0.7	81.7	189.1	265.6	292.8
95°	0.7	72.8	173.6	248.6	274.4
97.5°	0.7	66.9	161.8	232.5	257.5
100°	0.7	61.1	150.1	217.7	243.5
102.5°	1.5	55.9	141.2	204.5	228.8
105°	1.5	52.2	133.9	194.2	216.3
107.5°	1.5	50.0	125.8	183.9	204.5
110°	1.5	47.8	117.0	173.6	194.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	46.3	110.3	164.8	184.6
115°	1.5	44.9	103.7	154.5	174.3
117.5°	1.5	44.1	100.0	146.4	165.5
120°	2.2	41.9	95.6	139.0	157.4
122.5°	2.2	39.7	91.2	133.1	149.3
125°	2.2	38.3	87.5	126.5	142.7
127.5°	2.2	36.0	83.9	120.6	135.4
130°	2.2	33.8	80.9	114.8	128.7
132.5°	2.2	31.6	77.2	108.9	122.1
135°	2.2	29.4	72.8	103.0	115.5
137.5°	2.2	27.2	68.4	97.1	108.9
140°	2.2	25.0	62.5	91.2	102.2
142.5°	2.2	22.8	56.6	85.3	94.9
145°	2.9	21.3	50.8	78.7	88.3
147.5°	2.9	19.1	44.9	72.1	80.2
150°	2.9	17.7	40.5	65.5	72.8
152.5°	2.9	15.4	36.0	58.1	65.5
155°	2.9	14.0	30.9	50.0	58.1
157.5°	2.9	12.5	26.5	41.9	50.8
160°	2.9	11.8	22.8	34.6	43.4
162.5°	3.7	10.3	19.1	28.0	36.0
165°	3.7	8.8	16.2	22.1	29.4
167.5°	3.7	7.4	13.2	16.9	22.8
170°	3.7	5.9	10.3	11.8	17.7
172.5°	3.7	4.4	7.4	8.1	8.8
175°	3.7	3.7	4.4	4.4	2.2
177.5°	3.7	3.7	2.9	2.2	0.7
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)