

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: P565707

Luminaire Tested: **2SNX-40HL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

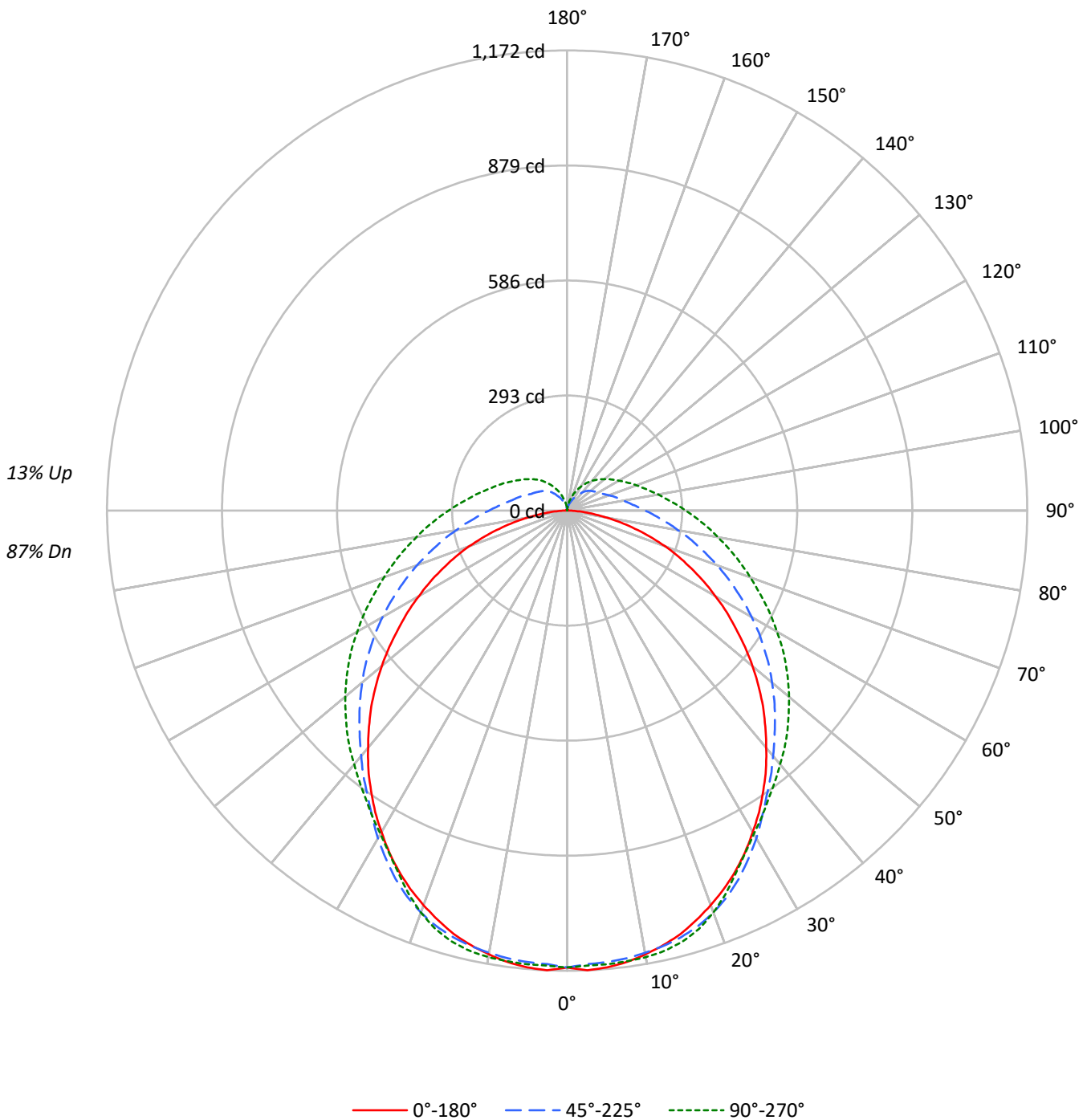
Test Method: LM-79-08  
Report Number: P565707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-40HL-LN-UNV-L835-CD  
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4199.9 lumens  
Efficiency: N/A  
Efficacy: 152.4 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<sub>in</sub>): 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°	25048	25048	25048
5°	25054	23836	23684
10°	24727	22859	22590
15°	24340	21940	21489
20°	23780	20919	20084
25°	23183	19703	18437
30°	22427	18348	17063
35°	21623	16976	16036
40°	20721	15870	15206
45°	19829	14889	14489
50°	18785	13983	13768
55°	17579	13079	13061
60°	16397	12177	12321
65°	15078	11268	11644
70°	13567	10416	11032
75°	11338	9582	10528
80°	8511	8853	10100
85°	5136	8318	9854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.5	2.6
10°-20°	317.8	7.6
20°-30°	473.2	11.3
30°-40°	558.4	13.3
40°-50°	582.3	13.9
50°-60°	547.2	13.0
60°-70°	462.1	11.0
70°-80°	349.2	8.3
80°-90°	240.7	5.7
90°-100°	168.4	4.0
100°-110°	125.7	3.0
110°-120°	94.7	2.3
120°-130°	70.7	1.7
130°-140°	49.6	1.2
140°-150°	30.0	0.7
150°-160°	14.3	0.3
160°-170°	4.6	0.1
170°-180°	0.5	0.0
0°-30°	901.5	21.5
0°-40°	1459.9	34.8
0°-60°	2589.4	61.7
0°-90°	3641.3	86.7
90°-120°	388.9	9.3
90°-150°	539.1	12.8
90°-180°	559.0	13.3
0°-180°	4199.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1168	1166	1154	1163	1160	111
15°	1116	1122	1124	1139	1136	314
25°	1014	1035	1035	1025	1018	466
35°	871	903	886	893	895	545
45°	706	740	748	779	793	543
55°	524	569	612	662	679	470
65°	349	404	473	535	555	346
75°	179	248	343	415	442	190
85°	41	128	238	316	344	45
90°	1	90	199	275	302	3
95°	1	70	168	241	266	1
105°	1	51	130	188	209	1
115°	1	43	100	150	169	1
125°	2	37	85	122	138	2
135°	2	28	70	100	112	2
145°	3	21	49	76	85	2
155°	3	14	30	48	56	1
165°	4	8	16	21	28	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°	1163.5	1163.5	1163.5	1163.5	1163.5
2.5°	1172.0	1169.2	1156.4	1163.5	1159.9
5°	1167.8	1165.6	1154.2	1162.8	1159.9
7.5°	1159.9	1159.2	1150.7	1160.6	1157.8
10°	1147.8	1149.9	1143.5	1157.1	1154.9
12.5°	1133.6	1137.8	1135.7	1150.7	1148.5
15°	1116.5	1121.5	1124.3	1138.6	1136.4
17.5°	1093.7	1103.0	1109.4	1120.8	1117.2
20°	1069.5	1082.3	1089.4	1095.1	1089.4
22.5°	1043.1	1060.2	1064.5	1061.7	1056.0
25°	1013.9	1034.6	1034.6	1025.3	1017.5
27.5°	981.2	1006.8	999.7	989.0	982.6
30°	945.6	976.2	964.1	952.0	950.6
32.5°	910.0	942.0	924.2	921.4	923.5
35°	870.8	902.9	885.8	892.9	895.0
37.5°	831.7	863.7	852.3	863.0	869.4
40°	788.9	823.1	816.0	835.2	843.8
42.5°	746.9	782.5	781.8	806.7	819.6
45°	705.6	740.5	748.4	779.0	793.2
47.5°	660.8	696.4	715.6	751.2	765.4
50°	616.6	655.1	681.4	721.3	737.7
52.5°	571.1	611.6	648.0	692.1	709.2
55°	524.1	568.9	612.4	661.5	679.3
57.5°	482.1	527.6	578.9	629.4	650.1
60°	435.8	486.3	542.6	596.0	616.6
62.5°	393.8	445.7	508.4	564.6	586.7
65°	348.9	404.4	472.8	534.7	555.4
67.5°	307.6	364.6	439.3	502.0	524.8
70°	264.9	325.4	406.6	472.8	496.3
72.5°	220.7	284.8	373.8	444.3	468.5
75°	178.7	247.8	343.2	415.1	441.5
77.5°	139.6	212.2	315.4	389.5	415.1
80°	101.1	180.1	286.2	363.1	389.5
82.5°	66.9	152.4	262.7	339.6	367.4
85°	40.6	127.5	237.8	316.1	343.9
87.5°	18.5	106.8	217.9	295.5	322.6
90°	0.7	90.4	198.7	274.8	301.9
92.5°	0.7	79.0	183.0	257.0	283.4
95°	0.7	70.5	168.0	240.7	265.6
97.5°	0.7	64.8	156.6	225.0	249.2
100°	0.7	59.1	145.3	210.8	235.7
102.5°	1.4	54.1	136.7	197.9	221.4
105°	1.4	50.6	129.6	188.0	209.3
107.5°	1.4	48.4	121.8	178.0	197.9
110°	1.4	46.3	113.2	168.0	188.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	44.9	106.8	159.5	178.7
115°	1.4	43.4	100.4	149.5	168.8
117.5°	1.4	42.7	96.8	141.7	160.2
120°	2.1	40.6	92.6	134.6	152.4
122.5°	2.1	38.5	88.3	128.9	144.5
125°	2.1	37.0	84.7	122.5	138.1
127.5°	2.1	34.9	81.2	116.8	131.0
130°	2.1	32.8	78.3	111.1	124.6
132.5°	2.1	30.6	74.8	105.4	118.2
135°	2.1	28.5	70.5	99.7	111.8
137.5°	2.1	26.3	66.2	94.0	105.4
140°	2.1	24.2	60.5	88.3	99.0
142.5°	2.1	22.1	54.8	82.6	91.9
145°	2.8	20.6	49.1	76.2	85.4
147.5°	2.8	18.5	43.4	69.8	77.6
150°	2.8	17.1	39.2	63.4	70.5
152.5°	2.8	15.0	34.9	56.3	63.4
155°	2.8	13.5	29.9	48.4	56.3
157.5°	2.8	12.1	25.6	40.6	49.1
160°	2.8	11.4	22.1	33.5	42.0
162.5°	3.6	10.0	18.5	27.1	34.9
165°	3.6	8.5	15.7	21.4	28.5
167.5°	3.6	7.1	12.8	16.4	22.1
170°	3.6	5.7	10.0	11.4	17.1
172.5°	3.6	4.3	7.1	7.8	8.5
175°	3.6	3.6	4.3	4.3	2.1
177.5°	3.6	3.6	2.8	2.1	0.7
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)