

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: P565709

Luminaire Tested: **2SNX-40HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565709  
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-L850-CD  
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

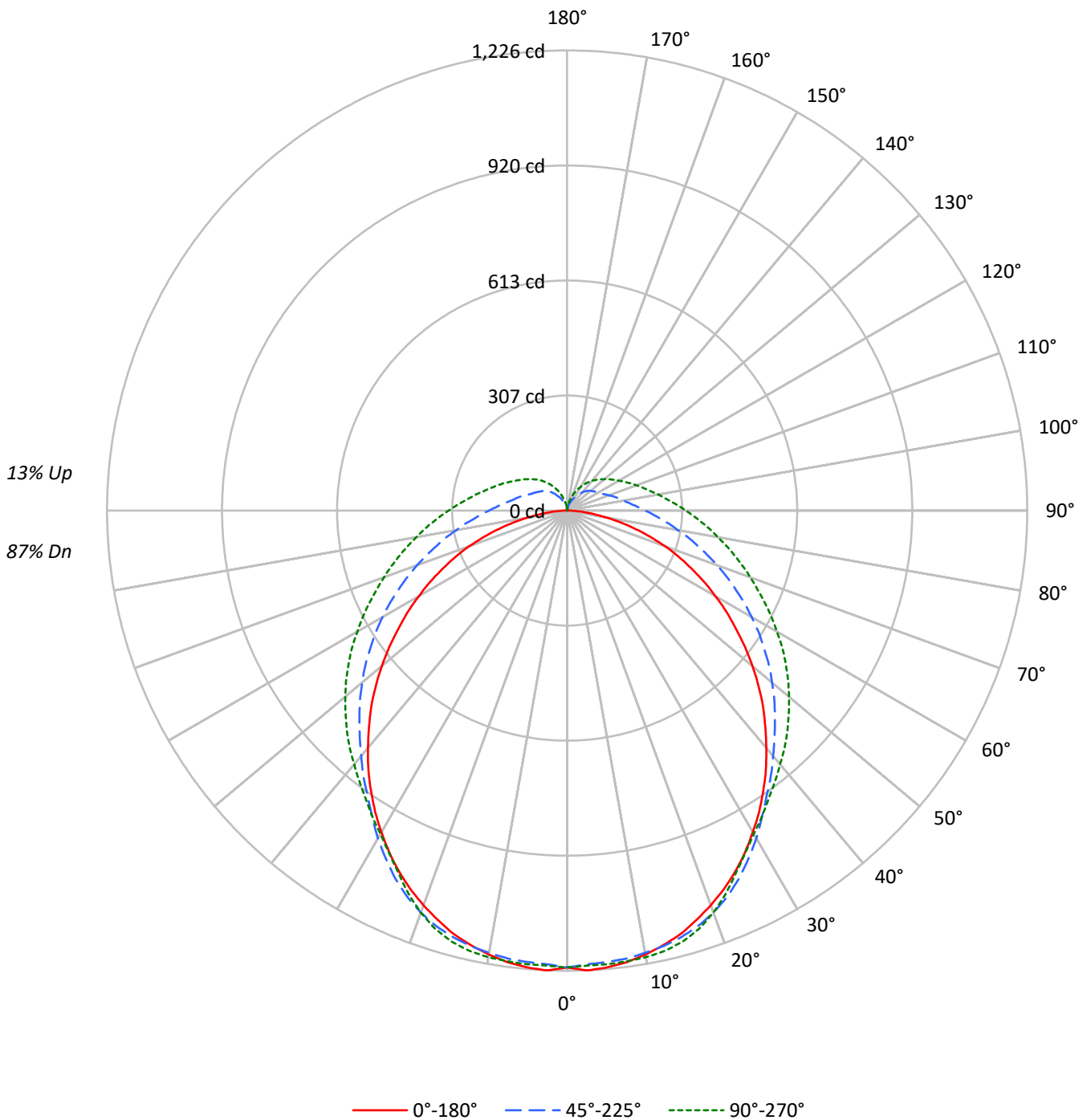
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4393.9 lumens  
Efficiency: N/A  
Efficacy: 159.5 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<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°	26204	26204	26204
5°	26210	24937	24779
10°	25869	23917	23635
15°	25465	22953	22481
20°	24879	21885	21011
25°	24255	20613	19289
30°	23463	19195	17851
35°	22624	17759	16777
40°	21680	16603	15907
45°	20746	15575	15160
50°	19653	14630	14404
55°	18390	13681	13664
60°	17153	12738	12890
65°	15774	11788	12181
70°	14192	10897	11541
75°	11864	10026	11015
80°	8907	9265	10567
85°	5376	8702	10310



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.6	2.6
10°-20°	332.5	7.6
20°-30°	495.1	11.3
30°-40°	584.1	13.3
40°-50°	609.2	13.9
50°-60°	572.5	13.0
60°-70°	483.5	11.0
70°-80°	365.3	8.3
80°-90°	251.8	5.7
90°-100°	176.2	4.0
100°-110°	131.5	3.0
110°-120°	99.1	2.3
120°-130°	73.9	1.7
130°-140°	51.9	1.2
140°-150°	31.4	0.7
150°-160°	15.0	0.3
160°-170°	4.8	0.1
170°-180°	0.6	0.0
0°-30°	943.2	21.5
0°-40°	1527.3	34.8
0°-60°	2709.0	61.7
0°-90°	3809.5	86.7
90°-120°	406.8	9.3
90°-150°	564.0	12.8
90°-180°	584.0	13.3
0°-180°	4393.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1222	1220	1208	1216	1214	116
15°	1168	1173	1176	1191	1189	329
25°	1061	1082	1082	1073	1064	488
35°	911	945	927	934	936	570
45°	738	775	783	815	830	569
55°	548	595	641	692	711	492
65°	365	423	495	559	581	362
75°	187	259	359	434	462	199
85°	42	133	249	331	360	48
90°	1	95	208	288	316	3
95°	1	74	176	252	278	1
105°	2	53	136	197	219	1
115°	2	45	105	156	176	2
125°	2	39	89	128	144	2
135°	2	30	74	104	117	2
145°	3	22	51	80	89	2
155°	3	14	31	51	59	1
165°	4	9	16	22	30	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°	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1226.2	1223.2	1209.8	1217.2	1213.5
5°	1221.7	1219.5	1207.5	1216.5	1213.5
7.5°	1213.5	1212.8	1203.8	1214.2	1211.3
10°	1200.8	1203.1	1196.4	1210.5	1208.3
12.5°	1185.9	1190.4	1188.2	1203.8	1201.6
15°	1168.1	1173.3	1176.2	1191.1	1188.9
17.5°	1144.2	1153.9	1160.6	1172.5	1168.8
20°	1118.9	1132.3	1139.7	1145.7	1139.7
22.5°	1091.3	1109.2	1113.7	1110.7	1104.7
25°	1060.8	1082.4	1082.4	1072.7	1064.5
27.5°	1026.5	1053.3	1045.9	1034.7	1028.0
30°	989.3	1021.3	1008.6	996.0	994.5
32.5°	952.0	985.5	966.9	963.9	966.2
35°	911.1	944.6	926.7	934.1	936.4
37.5°	870.1	903.6	891.7	902.9	909.6
40°	825.4	861.1	853.7	873.8	882.7
42.5°	781.4	818.7	817.9	844.0	857.4
45°	738.2	774.7	782.9	815.0	829.9
47.5°	691.3	728.5	748.7	785.9	800.8
50°	645.1	685.3	712.9	754.6	771.8
52.5°	597.4	639.9	677.9	724.1	742.0
55°	548.3	595.2	640.6	692.0	710.7
57.5°	504.3	552.0	605.6	658.5	680.1
60°	455.9	508.8	567.6	623.5	645.1
62.5°	411.9	466.3	531.9	590.7	613.8
65°	365.0	423.1	494.6	559.4	581.0
67.5°	321.8	381.4	459.6	525.2	549.0
70°	277.1	340.4	425.4	494.6	519.2
72.5°	230.9	298.0	391.1	464.8	490.2
75°	187.0	259.2	359.1	434.3	461.9
77.5°	146.0	222.0	330.0	407.5	434.3
80°	105.8	188.5	299.5	379.9	407.5
82.5°	70.0	159.4	274.9	355.3	384.4
85°	42.5	133.3	248.8	330.8	359.8
87.5°	19.4	111.7	227.9	309.1	337.5
90°	0.7	94.6	207.8	287.5	315.9
92.5°	0.7	82.7	191.4	268.9	296.5
95°	0.7	73.7	175.8	251.8	277.9
97.5°	0.7	67.8	163.9	235.4	260.7
100°	0.7	61.8	152.0	220.5	246.6
102.5°	1.5	56.6	143.0	207.1	231.7
105°	1.5	52.9	135.6	196.7	219.0
107.5°	1.5	50.7	127.4	186.2	207.1
110°	1.5	48.4	118.4	175.8	196.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	46.9	111.7	166.9	187.0
115°	1.5	45.4	105.0	156.4	176.5
117.5°	1.5	44.7	101.3	148.2	167.6
120°	2.2	42.5	96.8	140.8	159.4
122.5°	2.2	40.2	92.4	134.8	151.2
125°	2.2	38.7	88.6	128.1	144.5
127.5°	2.2	36.5	84.9	122.2	137.1
130°	2.2	34.3	81.9	116.2	130.4
132.5°	2.2	32.0	78.2	110.3	123.7
135°	2.2	29.8	73.7	104.3	117.0
137.5°	2.2	27.6	69.3	98.3	110.3
140°	2.2	25.3	63.3	92.4	103.5
142.5°	2.2	23.1	57.4	86.4	96.1
145°	3.0	21.6	51.4	79.7	89.4
147.5°	3.0	19.4	45.4	73.0	81.2
150°	3.0	17.9	41.0	66.3	73.7
152.5°	3.0	15.6	36.5	58.8	66.3
155°	3.0	14.2	31.3	50.7	58.8
157.5°	3.0	12.7	26.8	42.5	51.4
160°	3.0	11.9	23.1	35.0	44.0
162.5°	3.7	10.4	19.4	28.3	36.5
165°	3.7	8.9	16.4	22.3	29.8
167.5°	3.7	7.4	13.4	17.1	23.1
170°	3.7	6.0	10.4	11.9	17.9
172.5°	3.7	4.5	7.4	8.2	8.9
175°	3.7	3.7	4.5	4.5	2.2
177.5°	3.7	3.7	3.0	2.2	0.7
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)