

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: P565706

Luminaire Tested: **2SNX-40HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565706
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-L830-CD
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

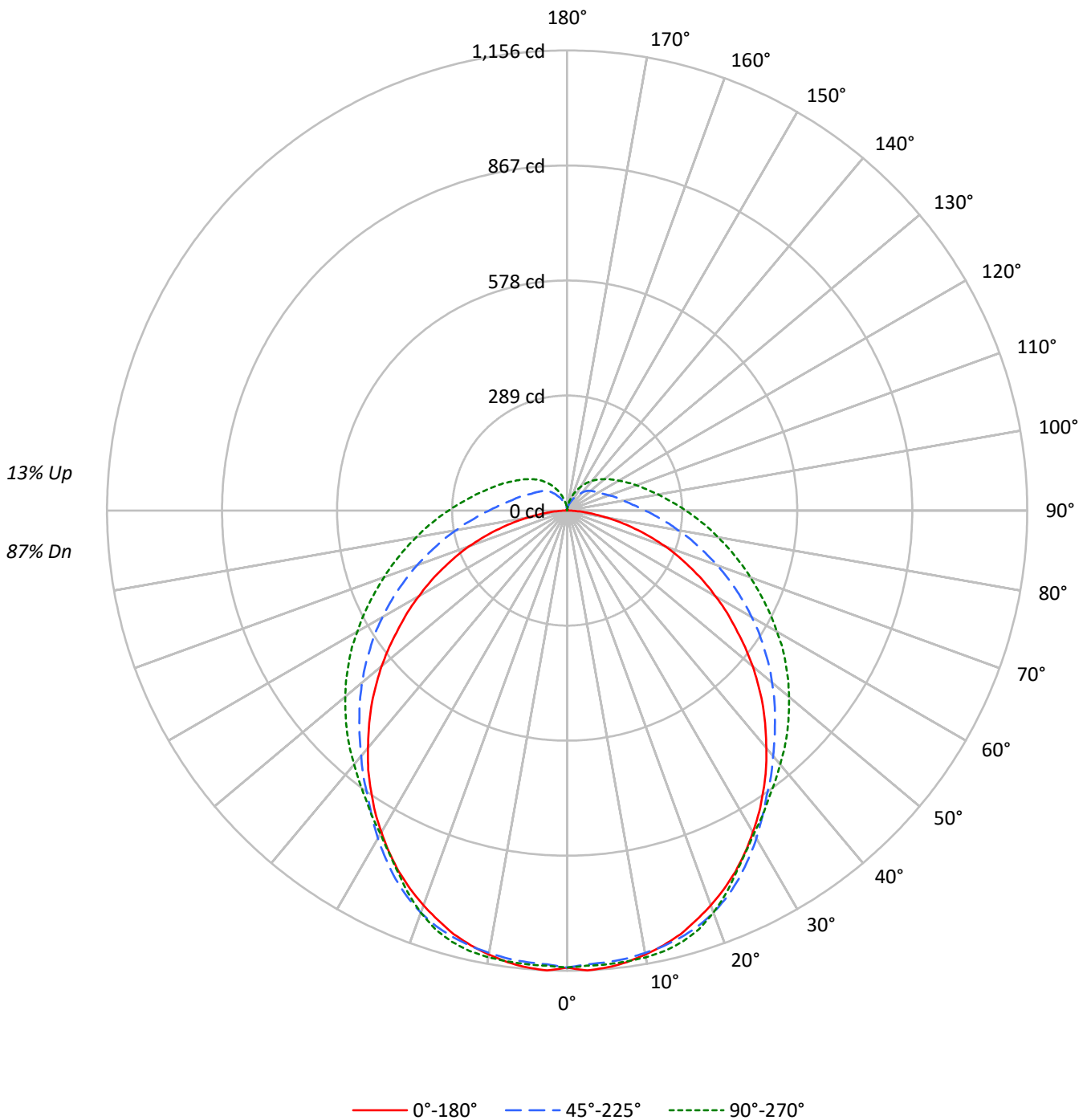
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4144.0 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: 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°	24714	24714	24714
5°	24719	23518	23370
10°	24398	22555	22289
15°	24015	21647	21203
20°	23462	20641	19817
25°	22874	19440	18191
30°	22128	18104	16835
35°	21335	16749	15822
40°	20445	15658	15003
45°	19565	14690	14296
50°	18535	13796	13583
55°	17344	12904	12886
60°	16179	12013	12157
65°	14875	11118	11489
70°	13383	10277	10885
75°	11185	9453	10387
80°	8402	8736	9965
85°	5060	8209	9722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	2.6
10°-20°	313.5	7.6
20°-30°	466.9	11.3
30°-40°	550.9	13.3
40°-50°	574.5	13.9
50°-60°	539.9	13.0
60°-70°	456.0	11.0
70°-80°	344.5	8.3
80°-90°	237.5	5.7
90°-100°	166.2	4.0
100°-110°	124.0	3.0
110°-120°	93.5	2.3
120°-130°	69.7	1.7
130°-140°	48.9	1.2
140°-150°	29.6	0.7
150°-160°	14.1	0.3
160°-170°	4.5	0.1
170°-180°	0.5	0.0
0°-30°	889.5	21.5
0°-40°	1440.4	34.8
0°-60°	2554.9	61.7
0°-90°	3592.8	86.7
90°-120°	383.7	9.3
90°-150°	532.0	12.8
90°-180°	551.0	13.3
0°-180°	4144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1152	1150	1139	1147	1144	109
15°	1102	1106	1109	1123	1121	310
25°	1000	1021	1021	1012	1004	460
35°	859	891	874	881	883	537
45°	696	731	738	769	783	536
55°	517	561	604	653	670	464
65°	344	399	466	528	548	342
75°	176	244	339	410	436	188
85°	40	126	235	312	339	45
90°	1	89	196	271	298	3
95°	1	70	166	238	262	1
105°	1	50	128	186	206	1
115°	1	43	99	148	166	1
125°	2	36	84	121	136	2
135°	2	28	70	98	110	2
145°	3	20	48	75	84	2
155°	3	13	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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CATALOG NUMBER: 2SNX-40HL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.0	1148.0	1148.0	1148.0	1148.0
2.5°	1156.4	1153.6	1140.9	1148.0	1144.5
5°	1152.2	1150.1	1138.8	1147.3	1144.5
7.5°	1144.5	1143.7	1135.3	1145.2	1142.3
10°	1132.5	1134.6	1128.3	1141.6	1139.5
12.5°	1118.5	1122.7	1120.6	1135.3	1133.2
15°	1101.6	1106.5	1109.3	1123.4	1121.3
17.5°	1079.1	1088.2	1094.6	1105.8	1102.3
20°	1055.2	1067.9	1074.9	1080.5	1074.9
22.5°	1029.2	1046.1	1050.3	1047.5	1041.9
25°	1000.4	1020.8	1020.8	1011.7	1003.9
27.5°	968.1	993.4	986.4	975.8	969.5
30°	933.0	963.2	951.3	939.3	937.9
32.5°	897.9	929.5	911.9	909.1	911.2
35°	859.2	890.8	874.0	881.0	883.1
37.5°	820.6	852.2	841.0	851.5	857.8
40°	778.4	812.1	805.1	824.1	832.5
42.5°	737.0	772.1	771.4	796.0	808.6
45°	696.2	730.7	738.4	768.6	782.6
47.5°	652.0	687.1	706.1	741.2	755.2
50°	608.4	646.3	672.3	711.7	727.8
52.5°	563.4	603.5	639.3	682.9	699.7
55°	517.1	561.3	604.2	652.7	670.2
57.5°	475.6	520.6	571.2	621.1	641.4
60°	430.0	479.8	535.3	588.0	608.4
62.5°	388.5	439.8	501.6	557.1	578.9
65°	344.2	399.0	466.5	527.6	548.0
67.5°	303.5	359.7	433.5	495.3	517.8
70°	261.3	321.1	401.2	466.5	489.7
72.5°	217.8	281.0	368.8	438.4	462.3
75°	176.3	244.5	338.6	409.6	435.6
77.5°	137.7	209.4	311.2	384.3	409.6
80°	99.8	177.7	282.4	358.3	384.3
82.5°	66.0	150.3	259.2	335.1	362.5
85°	40.0	125.8	234.7	311.9	339.3
87.5°	18.3	105.4	215.0	291.6	318.3
90°	0.7	89.2	196.0	271.2	297.9
92.5°	0.7	78.0	180.6	253.6	279.6
95°	0.7	69.6	165.8	237.5	262.1
97.5°	0.7	63.9	154.6	222.0	245.9
100°	0.7	58.3	143.3	208.0	232.5
102.5°	1.4	53.4	134.9	195.3	218.5
105°	1.4	49.9	127.9	185.5	206.5
107.5°	1.4	47.8	120.1	175.6	195.3
110°	1.4	45.7	111.7	165.8	185.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	44.3	105.4	157.4	176.3
115°	1.4	42.9	99.1	147.5	166.5
117.5°	1.4	42.2	95.5	139.8	158.1
120°	2.1	40.0	91.3	132.8	150.3
122.5°	2.1	37.9	87.1	127.2	142.6
125°	2.1	36.5	83.6	120.8	136.3
127.5°	2.1	34.4	80.1	115.2	129.3
130°	2.1	32.3	77.3	109.6	122.9
132.5°	2.1	30.2	73.8	104.0	116.6
135°	2.1	28.1	69.6	98.4	110.3
137.5°	2.1	26.0	65.3	92.7	104.0
140°	2.1	23.9	59.7	87.1	97.7
142.5°	2.1	21.8	54.1	81.5	90.6
145°	2.8	20.4	48.5	75.2	84.3
147.5°	2.8	18.3	42.9	68.8	76.6
150°	2.8	16.9	38.6	62.5	69.6
152.5°	2.8	14.8	34.4	55.5	62.5
155°	2.8	13.3	29.5	47.8	55.5
157.5°	2.8	11.9	25.3	40.0	48.5
160°	2.8	11.2	21.8	33.0	41.5
162.5°	3.5	9.8	18.3	26.7	34.4
165°	3.5	8.4	15.5	21.1	28.1
167.5°	3.5	7.0	12.6	16.2	21.8
170°	3.5	5.6	9.8	11.2	16.9
172.5°	3.5	4.2	7.0	7.7	8.4
175°	3.5	3.5	4.2	4.2	2.1
177.5°	3.5	3.5	2.8	2.1	0.7
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)