

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: P565724

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNX-40HL-SLW-UNV-L840-CD  
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

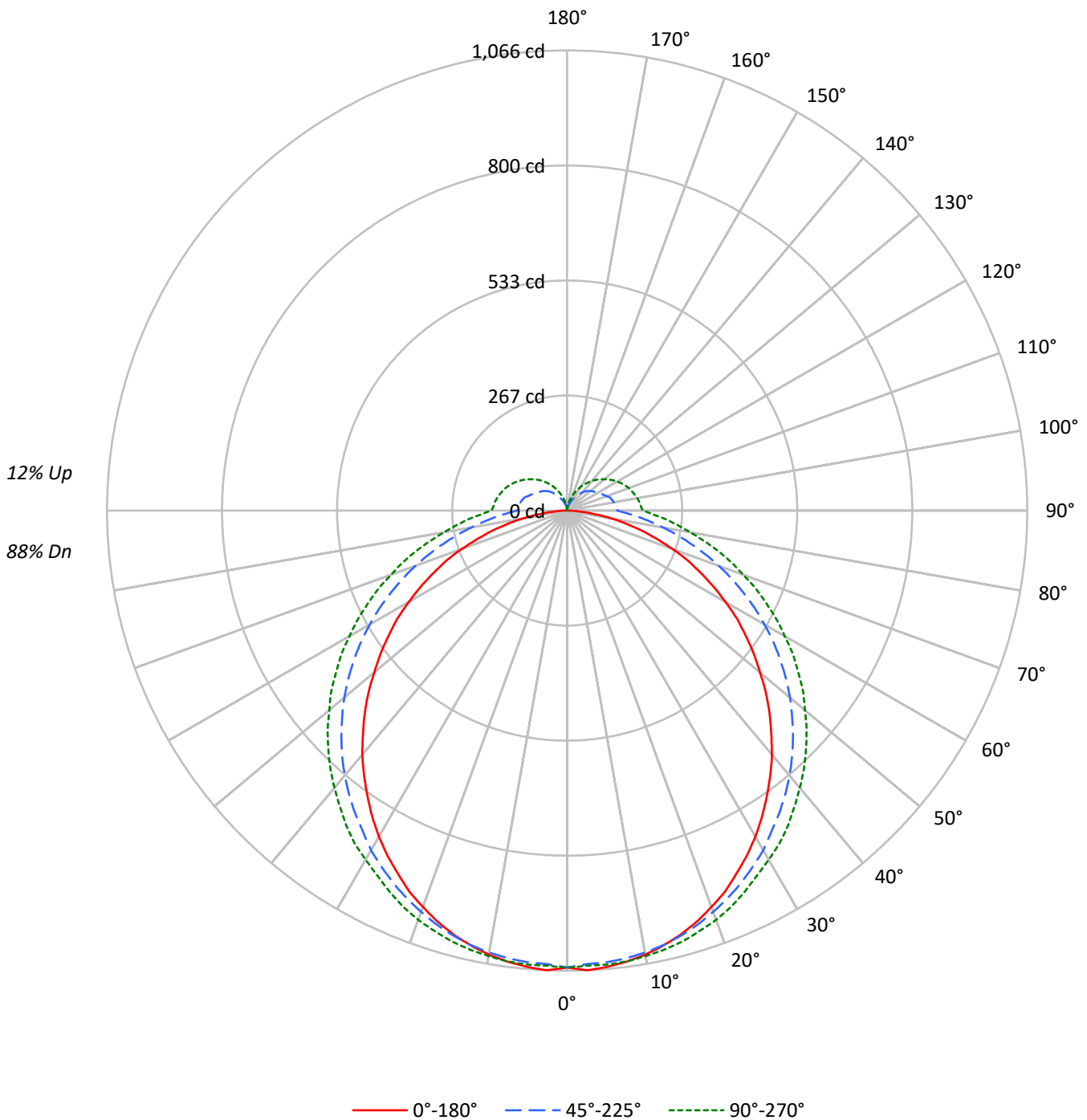
Lumens per Lamp: N/A  
Luminaire Lumens: 3811.0 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.08')  
CIE Type: Semi-Direct

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

TEST NUMBER: P565724

CATALOG NUMBER: 2SNX-40HL-SLW-UNV-L840-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P565724

CATALOG NUMBER: 2SNX-40HL-SLW-UNV-L840-CD

**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	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	22787	22787	22787
5°	22850	22180	22174
10°	22660	21714	21644
15°	22412	21218	21144
20°	22049	20679	20621
25°	21625	20138	20028
30°	21167	19594	19481
35°	20599	18990	19010
40°	20045	18436	18432
45°	19384	17825	17885
50°	18618	17174	17258
55°	17876	16417	16633
60°	17011	15598	15912
65°	15965	14667	15145
70°	14639	13616	14263
75°	12784	12412	13455
80°	10216	11207	12432
85°	6567	10111	11766



TEST NUMBER: P565724

CATALOG NUMBER: 2SNX-40HL-SLW-UNV-L840-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.5	2.6
10°-20°	289.1	7.6
20°-30°	439.8	11.5
30°-40°	534.7	14.0
40°-50°	565.7	14.8
50°-60°	530.3	13.9
60°-70°	436.2	11.4
70°-80°	301.8	7.9
80°-90°	167.8	4.4
90°-100°	110.6	2.9
100°-110°	99.2	2.6
110°-120°	82.1	2.2
120°-130°	63.4	1.7
130°-140°	44.9	1.2
140°-150°	27.1	0.7
150°-160°	13.0	0.3
160°-170°	4.3	0.1
170°-180°	0.5	0.0
0°-30°	829.3	21.8
0°-40°	1364.0	35.8
0°-60°	2460.0	64.6
0°-90°	3365.9	88.3
90°-120°	291.8	7.7
90°-150°	427.3	11.2
90°-180°	445.0	11.7
0°-180°	3811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1061	1059	1050	1058	1056	101
15°	1017	1020	1019	1033	1033	287
25°	928	941	952	973	974	428
35°	807	828	856	884	892	505
45°	663	698	740	773	782	511
55°	504	550	602	640	653	452
65°	341	390	451	495	509	338
75°	178	229	296	343	362	188
85°	39	97	164	210	228	45
90°	1	55	116	160	176	3
95°	1	52	113	155	170	1
105°	1	45	106	146	159	1
115°	1	39	89	129	144	1
125°	1	33	76	110	124	1
135°	1	26	64	91	102	1
145°	1	19	44	68	77	1
155°	2	13	27	44	51	1
165°	2	8	15	20	26	1
175°	2	3	5	5	3	0
180°	1	1	1	1	1	



TEST NUMBER: P565724

CATALOG NUMBER: 2SNX-40HL-SLW-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1065.7	1062.5	1051.4	1058.5	1055.3
5°	1061.2	1059.2	1050.1	1058.5	1055.9
7.5°	1054.0	1053.3	1046.1	1055.9	1053.3
10°	1044.2	1045.5	1039.6	1050.1	1048.1
12.5°	1031.8	1033.7	1031.1	1042.9	1041.6
15°	1016.8	1020.0	1019.4	1033.1	1033.1
17.5°	998.5	1003.1	1005.7	1021.3	1021.3
20°	977.0	984.1	989.4	1006.3	1008.9
22.5°	955.4	963.9	971.8	989.4	993.3
25°	928.0	941.1	952.2	973.1	973.7
27.5°	901.3	915.6	930.6	950.9	952.8
30°	871.9	890.2	908.4	928.0	933.9
32.5°	840.6	860.8	881.0	907.1	915.0
35°	806.6	828.2	856.2	883.6	891.5
37.5°	772.7	796.8	829.5	857.5	864.7
40°	738.1	764.9	801.4	830.1	838.6
42.5°	699.6	732.2	771.4	802.1	811.9
45°	663.1	697.6	740.1	773.4	782.5
47.5°	624.6	661.1	706.8	742.0	752.5
50°	583.4	625.2	674.2	709.4	719.2
52.5°	544.9	587.4	638.9	675.5	689.2
55°	504.5	549.5	602.4	640.2	653.3
57.5°	466.6	509.7	566.5	604.3	620.6
60°	423.5	471.2	528.0	569.1	582.1
62.5°	383.1	431.4	490.1	532.5	547.5
65°	341.3	390.3	451.0	495.3	509.0
67.5°	302.2	350.5	412.5	456.2	473.8
70°	259.1	310.0	373.3	418.3	433.3
72.5°	216.7	269.5	334.1	382.4	399.4
75°	177.5	229.1	296.3	343.3	362.2
77.5°	139.7	191.9	259.7	308.0	324.4
80°	101.8	156.6	225.8	273.4	289.1
82.5°	67.2	124.7	193.2	240.8	257.8
85°	39.2	97.2	164.5	210.1	228.4
87.5°	17.0	73.7	137.7	182.7	197.7
90°	0.7	54.8	116.2	159.9	175.6
92.5°	0.7	53.5	113.6	156.6	171.6
95°	0.7	52.2	112.9	154.7	169.7
97.5°	0.7	51.6	111.6	153.4	167.7
100°	0.7	49.6	109.6	150.8	165.1
102.5°	0.7	47.0	107.7	148.1	161.8
105°	0.7	45.0	105.7	145.5	158.6
107.5°	0.7	43.1	102.5	142.3	155.3
110°	0.7	41.1	97.2	139.0	152.1



TEST NUMBER: P565724

CATALOG NUMBER: 2SNX-40HL-SLW-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	40.5	93.3	134.4	148.1
115°	1.3	39.2	89.4	129.2	143.6
117.5°	1.3	38.5	86.1	124.0	139.0
120°	1.3	36.5	82.9	119.4	133.8
122.5°	1.3	34.6	79.6	114.9	129.2
125°	1.3	33.3	76.4	110.3	124.0
127.5°	1.3	31.3	73.7	105.7	118.1
130°	1.3	30.0	70.5	100.5	112.9
132.5°	1.3	28.1	67.2	95.3	107.0
135°	1.3	26.1	64.0	90.7	101.8
137.5°	1.3	23.5	60.0	85.5	95.9
140°	1.3	21.5	54.8	80.3	90.1
142.5°	1.3	20.2	49.6	74.4	83.5
145°	1.3	18.9	44.4	68.5	77.0
147.5°	1.3	17.6	39.8	62.7	70.5
150°	1.3	15.7	35.2	57.4	64.0
152.5°	2.0	14.4	31.3	50.9	57.4
155°	2.0	13.1	27.4	43.7	50.9
157.5°	2.0	11.7	23.5	36.5	44.4
160°	2.0	10.4	20.2	30.0	37.9
162.5°	2.0	9.8	17.6	24.8	32.0
165°	2.0	8.5	15.0	20.2	26.1
167.5°	2.0	6.5	12.4	15.7	21.5
170°	2.0	5.2	9.8	11.1	16.3
172.5°	2.0	3.9	7.2	7.8	8.5
175°	2.0	3.3	4.6	4.6	2.6
177.5°	2.0	2.6	2.6	2.6	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)