

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: P565690

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565690  
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-FDL-UNV-L830-CD  
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

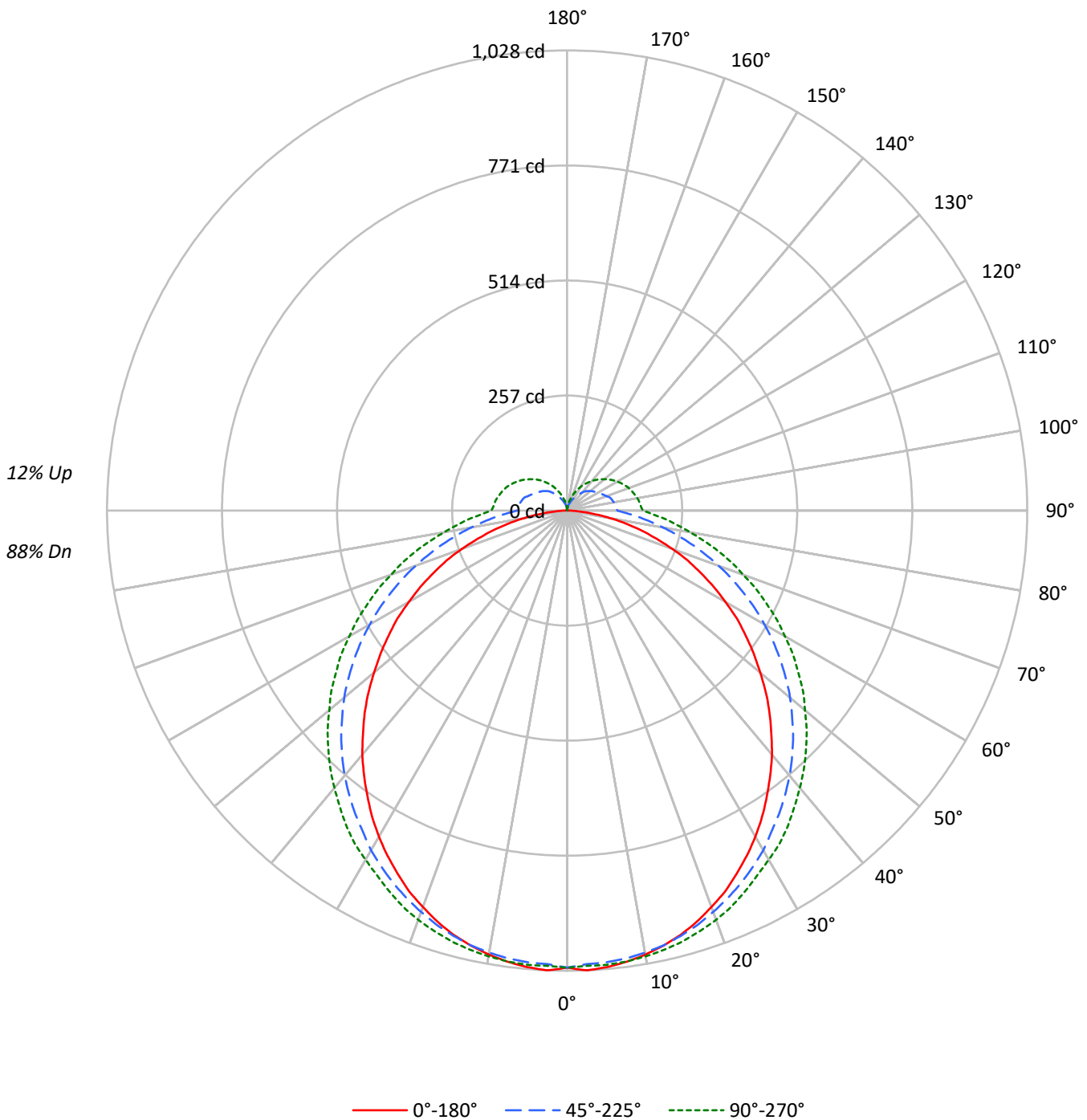
Lumens per Lamp: N/A  
Luminaire Lumens: 3676.0 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')  
CIE Type: Semi-Direct

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: P565690

CATALOG NUMBER: 2SNX-40HL-FDL-UNV-L830-CD

### 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	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°	21982	21982	21982
5°	22080	21638	21694
10°	21937	21420	21469
15°	21738	21163	21260
20°	21427	20856	21020
25°	21059	20545	20700
30°	20657	20234	20427
35°	20155	19861	20237
40°	19665	19549	19943
45°	19075	19190	19697
50°	18392	18808	19383
55°	17736	18335	19102
60°	16976	17833	18760
65°	16052	17253	18425
70°	14878	16614	18046
75°	13213	15903	17917
80°	10888	15413	17775
85°	7541	15574	18731



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.9	2.6
10°-20°	278.8	7.6
20°-30°	424.2	11.5
30°-40°	515.8	14.0
40°-50°	545.7	14.8
50°-60°	511.5	13.9
60°-70°	420.8	11.4
70°-80°	291.2	7.9
80°-90°	161.9	4.4
90°-100°	106.7	2.9
100°-110°	95.6	2.6
110°-120°	79.2	2.2
120°-130°	61.2	1.7
130°-140°	43.3	1.2
140°-150°	26.1	0.7
150°-160°	12.6	0.3
160°-170°	4.1	0.1
170°-180°	0.5	0.0
0°-30°	800.0	21.8
0°-40°	1315.7	35.8
0°-60°	2372.9	64.6
0°-90°	3246.7	88.3
90°-120°	281.4	7.7
90°-150°	412.1	11.2
90°-180°	429.0	11.7
0°-180°	3676.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1024	1022	1013	1021	1018	97
15°	981	984	983	996	996	276
25°	895	908	918	939	939	413
35°	778	799	826	852	860	487
45°	640	673	714	746	755	493
55°	487	530	581	618	630	436
65°	329	376	435	478	491	326
75°	171	221	286	331	349	182
85°	38	94	159	203	220	43
90°	1	53	112	154	169	2
95°	1	50	109	149	164	0
105°	1	43	102	140	153	1
115°	1	38	86	125	138	1
125°	1	32	74	106	120	1
135°	1	25	62	88	98	1
145°	1	18	43	66	74	1
155°	2	13	26	42	49	1
165°	2	8	14	20	25	1
175°	2	3	4	4	2	0
180°	1	1	1	1	1	



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CATALOG NUMBER: 2SNX-40HL-FDL-UNV-L830-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1028.0	1024.8	1014.1	1021.1	1017.9
5°	1023.6	1021.7	1012.9	1021.1	1018.5
7.5°	1016.6	1016.0	1009.1	1018.5	1016.0
10°	1007.2	1008.5	1002.8	1012.9	1011.0
12.5°	995.2	997.1	994.6	1005.9	1004.7
15°	980.8	983.9	983.3	996.5	996.5
17.5°	963.1	967.5	970.1	985.2	985.2
20°	942.4	949.3	954.3	970.7	973.2
22.5°	921.6	929.8	937.3	954.3	958.1
25°	895.2	907.7	918.4	938.6	939.2
27.5°	869.3	883.2	897.7	917.2	919.1
30°	841.0	858.6	876.3	895.2	900.8
32.5°	810.8	830.3	849.8	875.0	882.6
35°	778.1	798.8	825.9	852.3	859.9
37.5°	745.3	768.6	800.1	827.2	834.1
40°	712.0	737.8	773.0	800.7	808.9
42.5°	674.8	706.3	744.1	773.7	783.1
45°	639.6	672.9	713.9	746.0	754.8
47.5°	602.4	637.7	681.7	715.7	725.8
50°	562.8	603.1	650.3	684.3	693.7
52.5°	525.6	566.6	616.3	651.5	664.8
55°	486.6	530.0	581.0	617.5	630.1
57.5°	450.1	491.6	546.4	582.9	598.7
60°	408.5	454.5	509.3	548.9	561.5
62.5°	369.5	416.1	472.8	513.7	528.2
65°	329.2	376.4	435.0	477.8	491.0
67.5°	291.5	338.0	397.8	440.0	457.0
70°	249.9	299.0	360.1	403.5	418.0
72.5°	209.0	260.0	322.3	368.9	385.3
75°	171.2	221.0	285.8	331.1	349.4
77.5°	134.7	185.1	250.5	297.1	312.9
80°	98.2	151.1	217.8	263.8	278.9
82.5°	64.8	120.2	186.3	232.3	248.7
85°	37.8	93.8	158.6	202.7	220.3
87.5°	16.4	71.1	132.8	176.3	190.7
90°	0.6	52.9	112.1	154.2	169.3
92.5°	0.6	51.6	109.5	151.1	165.6
95°	0.6	50.4	108.9	149.2	163.7
97.5°	0.6	49.7	107.6	147.9	161.8
100°	0.6	47.8	105.8	145.4	159.3
102.5°	0.6	45.3	103.9	142.9	156.1
105°	0.6	43.4	102.0	140.4	153.0
107.5°	0.6	41.5	98.8	137.2	149.8
110°	0.6	39.7	93.8	134.1	146.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	39.0	90.0	129.7	142.9
115°	1.3	37.8	86.2	124.6	138.5
117.5°	1.3	37.1	83.1	119.6	134.1
120°	1.3	35.3	79.9	115.2	129.0
122.5°	1.3	33.4	76.8	110.8	124.6
125°	1.3	32.1	73.7	106.4	119.6
127.5°	1.3	30.2	71.1	102.0	113.9
130°	1.3	29.0	68.0	96.9	108.9
132.5°	1.3	27.1	64.8	91.9	103.2
135°	1.3	25.2	61.7	87.5	98.2
137.5°	1.3	22.7	57.9	82.5	92.5
140°	1.3	20.8	52.9	77.4	86.9
142.5°	1.3	19.5	47.8	71.8	80.6
145°	1.3	18.3	42.8	66.1	74.3
147.5°	1.3	17.0	38.4	60.4	68.0
150°	1.3	15.1	34.0	55.4	61.7
152.5°	1.9	13.8	30.2	49.1	55.4
155°	1.9	12.6	26.4	42.2	49.1
157.5°	1.9	11.3	22.7	35.3	42.8
160°	1.9	10.1	19.5	29.0	36.5
162.5°	1.9	9.4	17.0	23.9	30.8
165°	1.9	8.2	14.5	19.5	25.2
167.5°	1.9	6.3	12.0	15.1	20.8
170°	1.9	5.0	9.4	10.7	15.7
172.5°	1.9	3.8	6.9	7.6	8.2
175°	1.9	3.1	4.4	4.4	2.5
177.5°	1.9	2.5	2.5	2.5	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)