

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: P565716

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565716
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-LW-UNV-L840-CD
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

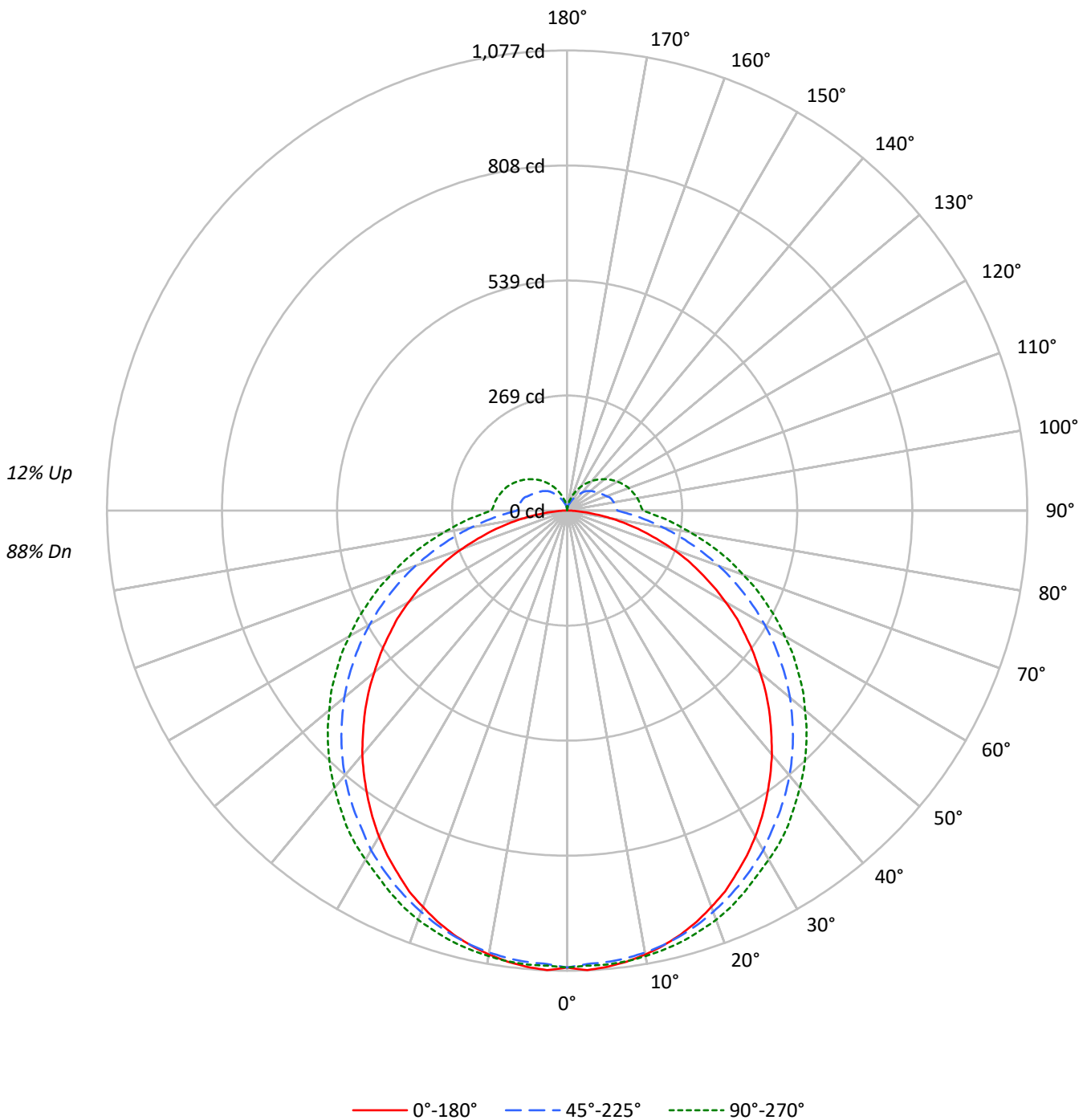
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3850.0 lumens
Efficiency: N/A
Efficacy: 139.7 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: 0.17')
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	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°	23022	23022	23022
5°	22998	21907	21781
10°	22726	20996	20711
15°	22393	20096	19736
20°	21946	19193	18792
25°	21436	18318	17825
30°	20890	17465	16935
35°	20235	16577	16136
40°	19586	15745	15268
45°	18823	14873	14440
50°	17956	13977	13559
55°	17092	12996	12690
60°	16100	11970	11751
65°	14901	10858	10782
70°	13403	9660	9731
75°	11376	8356	8725
80°	8663	7056	7574
85°	5010	5810	6613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	2.6
10°-20°	292.0	7.6
20°-30°	444.3	11.5
30°-40°	540.2	14.0
40°-50°	571.5	14.8
50°-60°	535.7	13.9
60°-70°	440.7	11.4
70°-80°	304.9	7.9
80°-90°	169.6	4.4
90°-100°	111.7	2.9
100°-110°	100.2	2.6
110°-120°	82.9	2.2
120°-130°	64.1	1.7
130°-140°	45.4	1.2
140°-150°	27.4	0.7
150°-160°	13.1	0.3
160°-170°	4.3	0.1
170°-180°	0.5	0.0
0°-30°	837.8	21.8
0°-40°	1378.0	35.8
0°-60°	2485.2	64.6
0°-90°	3400.4	88.3
90°-120°	294.8	7.7
90°-150°	431.6	11.2
90°-180°	450.0	11.7
0°-180°	3850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1072	1070	1061	1069	1067	102
15°	1027	1030	1030	1044	1044	290
25°	938	951	962	983	984	432
35°	815	837	865	893	901	510
45°	670	705	748	781	790	516
55°	510	555	608	647	660	456
65°	345	394	456	500	514	342
75°	179	231	299	347	366	190
85°	40	98	166	212	231	46
90°	1	55	117	162	177	3
95°	1	53	114	156	171	1
105°	1	46	107	147	160	1
115°	1	40	90	130	145	1
125°	1	34	77	111	125	1
135°	1	26	65	92	103	1
145°	1	19	45	69	78	1
155°	2	13	28	44	51	1
165°	2	9	15	20	26	1
175°	2	3	5	5	3	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.4	1069.4	1069.4	1069.4	1069.4
2.5°	1076.6	1073.3	1062.1	1069.4	1066.1
5°	1072.0	1070.0	1060.8	1069.4	1066.7
7.5°	1064.8	1064.1	1056.9	1066.7	1064.1
10°	1054.9	1056.2	1050.3	1060.8	1058.8
12.5°	1042.3	1044.3	1041.7	1053.6	1052.2
15°	1027.2	1030.5	1029.8	1043.7	1043.7
17.5°	1008.7	1013.3	1016.0	1031.8	1031.8
20°	987.0	994.2	999.5	1016.6	1019.3
22.5°	965.2	973.8	981.7	999.5	1003.5
25°	937.5	950.7	961.9	983.0	983.7
27.5°	910.5	925.0	940.2	960.6	962.6
30°	880.8	899.3	917.7	937.5	943.5
32.5°	849.2	869.6	890.1	916.4	924.3
35°	814.9	836.6	865.0	892.7	900.6
37.5°	780.6	805.0	838.0	866.3	873.6
40°	745.7	772.7	809.6	838.6	847.2
42.5°	706.8	739.7	779.3	810.3	820.2
45°	669.8	704.8	747.6	781.3	790.5
47.5°	630.9	667.9	714.0	749.6	760.2
50°	589.4	631.6	681.1	716.7	726.5
52.5°	550.5	593.4	645.5	682.4	696.2
55°	509.6	555.1	608.5	646.8	660.0
57.5°	471.4	514.9	572.3	610.5	627.0
60°	427.9	476.0	533.4	574.9	588.1
62.5°	387.0	435.8	495.1	538.0	553.2
65°	344.8	394.3	455.6	500.4	514.3
67.5°	305.3	354.0	416.7	460.8	478.7
70°	261.7	313.2	377.1	422.6	437.8
72.5°	218.9	272.3	337.6	386.3	403.5
75°	179.3	231.4	299.3	346.8	365.9
77.5°	141.1	193.8	262.4	311.2	327.7
80°	102.9	158.2	228.1	276.2	292.1
82.5°	67.9	125.9	195.2	243.3	260.4
85°	39.6	98.2	166.1	212.3	230.8
87.5°	17.1	74.5	139.1	184.6	199.8
90°	0.7	55.4	117.4	161.5	177.4
92.5°	0.7	54.1	114.7	158.2	173.4
95°	0.7	52.7	114.1	156.3	171.4
97.5°	0.7	52.1	112.7	154.9	169.4
100°	0.7	50.1	110.8	152.3	166.8
102.5°	0.7	47.5	108.8	149.7	163.5
105°	0.7	45.5	106.8	147.0	160.2
107.5°	0.7	43.5	103.5	143.7	156.9
110°	0.7	41.5	98.2	140.4	153.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	40.9	94.3	135.8	149.7
115°	1.3	39.6	90.3	130.5	145.0
117.5°	1.3	38.9	87.0	125.3	140.4
120°	1.3	36.9	83.7	120.7	135.2
122.5°	1.3	34.9	80.4	116.0	130.5
125°	1.3	33.6	77.1	111.4	125.3
127.5°	1.3	31.6	74.5	106.8	119.3
130°	1.3	30.3	71.2	101.5	114.1
132.5°	1.3	28.3	67.9	96.3	108.1
135°	1.3	26.4	64.6	91.6	102.9
137.5°	1.3	23.7	60.7	86.4	96.9
140°	1.3	21.8	55.4	81.1	91.0
142.5°	1.3	20.4	50.1	75.2	84.4
145°	1.3	19.1	44.8	69.2	77.8
147.5°	1.3	17.8	40.2	63.3	71.2
150°	1.3	15.8	35.6	58.0	64.6
152.5°	2.0	14.5	31.6	51.4	58.0
155°	2.0	13.2	27.7	44.2	51.4
157.5°	2.0	11.9	23.7	36.9	44.8
160°	2.0	10.5	20.4	30.3	38.2
162.5°	2.0	9.9	17.8	25.1	32.3
165°	2.0	8.6	15.2	20.4	26.4
167.5°	2.0	6.6	12.5	15.8	21.8
170°	2.0	5.3	9.9	11.2	16.5
172.5°	2.0	4.0	7.3	7.9	8.6
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)