

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: P565700

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNX-40HL-LC-UNV-L840-CD
Description: 2FT 4000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

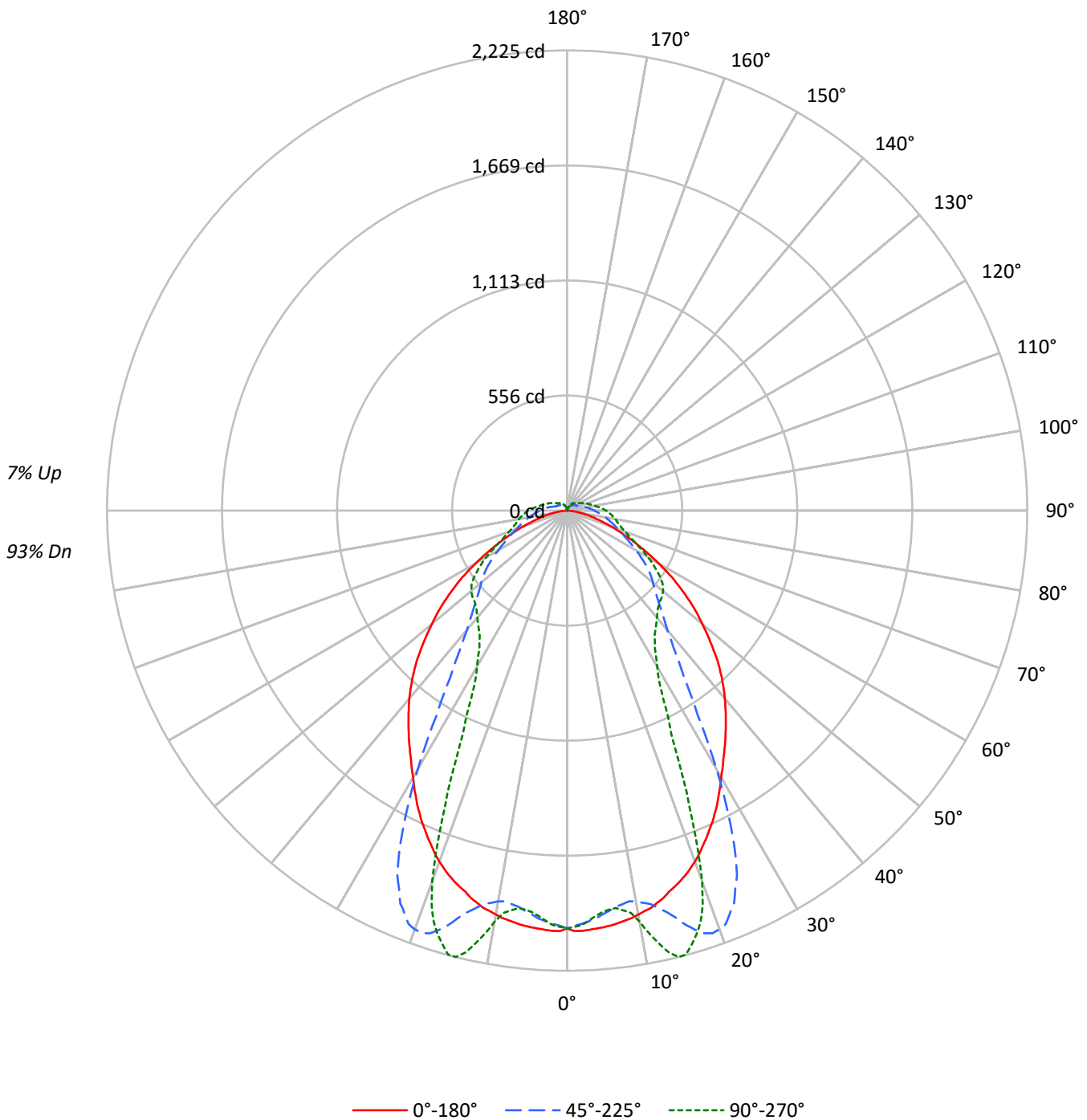
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4490.0 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 27.55
Input Voltage (V): NR
Input Current (Ain): 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	43493	43493	43493
5°	43386	40490	39811
10°	42712	38358	39477
15°	41563	39813	42026
20°	40150	41374	35174
25°	37981	37012	21626
30°	35331	27488	15652
35°	33143	18919	13205
40°	31170	14639	12170
45°	28898	12424	11508
50°	26002	11114	11297
55°	22972	10014	10452
60°	19166	8631	9042
65°	15260	7484	7545
70°	11621	6691	6644
75°	8609	6181	6195
80°	5598	5809	6133
85°	2606	5491	6089



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.0	4.2
10°-20°	574.4	12.8
20°-30°	773.5	17.2
30°-40°	732.0	16.3
40°-50°	646.1	14.4
50°-60°	524.8	11.7
60°-70°	356.9	7.9
70°-80°	229.7	5.1
80°-90°	152.7	3.4
90°-100°	105.0	2.3
100°-110°	70.4	1.6
110°-120°	49.7	1.1
120°-130°	35.5	0.8
130°-140°	25.0	0.6
140°-150°	15.5	0.3
150°-160°	7.6	0.2
160°-170°	2.7	0.1
170°-180°	0.5	0.0
0°-30°	1535.9	34.2
0°-40°	2267.9	50.5
0°-60°	3438.8	76.6
0°-90°	4178.1	93.1
90°-120°	225.1	5.0
90°-150°	301.2	6.7
90°-180°	312.0	6.9
0°-180°	4490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	2022	2004	1961	1959	1950	192
15°	1906	1894	2040	2220	2222	537
25°	1661	1970	1944	1412	1194	762
35°	1335	1873	987	760	737	835
45°	1028	1260	624	617	630	789
55°	685	745	469	524	544	612
65°	353	402	314	349	360	354
75°	136	190	221	248	260	148
85°	21	81	157	199	212	27
90°	1	56	131	176	188	1
95°	1	43	110	149	160	1
105°	1	30	73	102	114	1
115°	1	26	54	76	86	2
125°	2	22	46	58	62	2
135°	3	17	38	48	51	2
145°	3	12	27	37	40	2
155°	3	8	16	25	28	2
165°	3	5	9	12	15	1
175°	4	4	4	4	3	0
180°	3	3	3	3	3	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2020.3	2020.3	2020.3	2020.3	2020.3
1°	2034.0	2027.8	2007.3	2018.2	2012.7
2°	2033.3	2023.0	1999.7	2012.1	2005.2
3°	2029.9	2018.9	1988.7	1996.3	1986.0
4°	2026.4	2013.4	1977.1	1977.1	1965.4
5°	2022.3	2003.8	1960.6	1959.3	1949.7
6°	2017.5	1996.3	1946.2	1944.9	1939.4
7°	2010.7	1983.3	1930.5	1940.1	1936.0
8°	2002.5	1970.9	1922.2	1946.2	1952.4
9°	1994.9	1955.8	1912.6	1965.4	1970.2
10°	1982.6	1942.1	1918.8	2003.8	2018.2
11°	1972.3	1930.5	1932.5	2041.5	2084.7
12°	1962.0	1918.1	1945.6	2088.8	2141.6
13°	1944.9	1908.5	1974.3	2140.2	2194.4
14°	1929.8	1901.0	2002.5	2192.3	2224.6
15°	1906.5	1894.1	2040.2	2220.5	2222.5
16°	1890.7	1889.3	2084.0	2222.5	2184.1
17°	1872.9	1887.3	2119.7	2186.9	2141.6
18°	1853.0	1891.4	2149.2	2142.3	2090.2
19°	1830.4	1895.5	2161.5	2080.6	2013.4
20°	1805.7	1901.7	2154.6	2016.2	1907.9
21°	1781.0	1909.9	2141.6	1948.3	1769.4
22.5°	1735.1	1929.8	2079.9	1757.7	1540.4
23°	1722.1	1933.9	2065.5	1698.1	1480.8
24°	1689.8	1951.0	1999.7	1558.9	1323.1
25°	1661.1	1969.5	1943.5	1411.5	1193.5
26°	1628.8	1983.3	1858.5	1275.8	1114.0
27°	1597.3	1991.5	1761.8	1170.2	1024.9
28°	1561.0	2000.4	1656.9	1079.0	957.7
29°	1526.7	2001.8	1553.4	1006.4	904.9
30°	1489.7	1994.9	1444.4	948.1	872.0
32.5°	1408.8	1957.2	1177.8	837.0	789.7
35°	1334.7	1872.9	987.2	760.3	737.0
37.5°	1260.0	1739.9	853.5	712.3	704.7
40°	1186.7	1582.2	752.7	673.9	675.3
42.5°	1109.2	1419.7	683.5	642.3	648.5
45°	1028.3	1260.0	624.5	617.0	630.0
47.5°	938.5	1114.0	577.9	600.5	620.4
50°	853.5	969.3	541.6	584.8	605.3
52.5°	772.6	850.8	508.7	558.0	582.0
55°	684.9	745.2	468.9	523.8	543.6
57.5°	601.2	649.9	427.1	481.2	499.1
60°	509.4	556.0	384.6	435.3	452.5
62.5°	426.4	475.8	348.3	389.4	403.1
65°	353.1	401.7	314.0	348.9	359.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	287.9	340.0	285.9	315.3	325.6
70°	226.9	281.8	261.2	287.9	298.9
72.5°	177.6	233.1	240.6	265.3	276.3
75°	135.7	189.9	221.4	248.2	259.8
77.5°	100.8	154.9	203.6	234.5	246.8
80°	66.5	123.4	187.8	222.1	236.5
82.5°	41.8	99.4	172.1	209.8	224.9
85°	20.6	80.9	157.0	198.8	212.5
87.5°	6.9	67.2	143.3	187.8	199.5
90°	0.7	56.2	130.9	176.2	187.8
92.5°	0.7	48.7	120.7	162.5	174.1
95°	0.7	43.2	110.4	149.4	159.7
97.5°	0.7	39.1	100.8	135.7	146.7
100°	0.7	35.0	90.5	122.7	134.4
102.5°	1.4	32.2	81.6	111.7	124.1
105°	1.4	30.2	72.7	102.1	114.5
107.5°	1.4	28.8	65.1	94.6	106.3
110°	1.4	27.4	59.6	87.7	100.1
112.5°	1.4	26.7	56.2	81.6	93.2
115°	1.4	26.1	53.5	76.1	85.7
117.5°	2.1	25.4	51.4	70.6	78.2
120°	2.1	24.0	50.0	65.8	72.0
122.5°	2.1	22.6	48.0	61.7	66.5
125°	2.1	21.9	45.9	57.6	61.7
127.5°	2.1	20.6	43.9	54.2	58.3
130°	2.7	19.2	41.8	51.4	54.8
132.5°	2.7	17.8	39.8	50.0	52.8
135°	2.7	17.1	37.7	48.0	50.7
137.5°	2.7	15.8	35.6	45.9	48.7
140°	2.7	14.4	32.9	43.2	45.9
142.5°	2.7	13.7	30.2	40.4	43.2
145°	2.7	12.3	26.7	37.0	40.4
147.5°	3.4	11.7	24.0	34.3	37.0
150°	3.4	10.3	21.3	31.5	34.3
152.5°	3.4	8.9	18.5	28.1	30.8
155°	3.4	7.5	16.5	24.7	28.1
157.5°	3.4	6.9	14.4	20.6	24.7
160°	3.4	6.2	12.3	17.8	21.3
162.5°	3.4	5.5	11.0	15.1	18.5
165°	3.4	4.8	8.9	12.3	15.1
167.5°	4.1	4.8	7.5	9.6	12.3
170°	4.1	4.8	6.2	7.5	9.6
172.5°	4.1	4.1	4.8	5.5	6.2
175°	4.1	4.1	4.1	4.1	3.4
177.5°	4.1	4.1	4.1	3.4	3.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)