

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: P566908

Luminaire Tested: **4SNX-87HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566908
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: 4SNX-87HL-FDL-UNV-L940-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

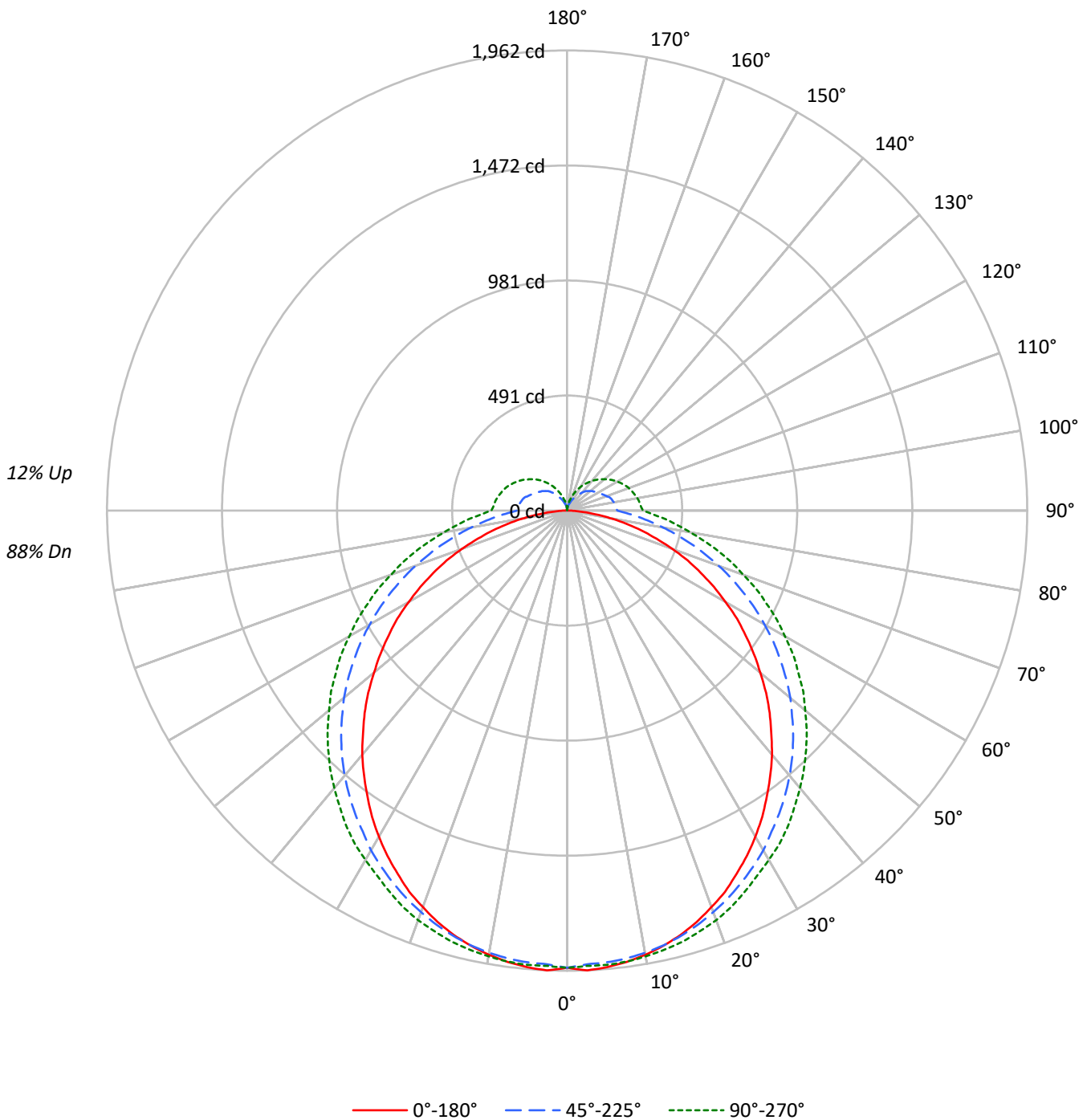
Lumens per Lamp: N/A
Luminaire Lumens: 7018.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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°	20982	20982	20982
5°	21095	20667	20708
10°	20979	20473	20494
15°	20807	20240	20294
20°	20530	19960	20066
25°	20199	19676	19760
30°	19837	19391	19499
35°	19377	19049	19318
40°	18933	18765	19037
45°	18395	18437	18802
50°	17771	18090	18503
55°	17178	17659	18235
60°	16494	17201	17908
65°	15658	16673	17589
70°	14597	16096	17226
75°	13087	15464	17102
80°	10974	15071	16966
85°	7957	15387	17881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	2.6
10°-20°	532.3	7.6
20°-30°	809.8	11.5
30°-40°	984.7	14.0
40°-50°	1041.7	14.8
50°-60°	976.5	13.9
60°-70°	803.3	11.4
70°-80°	555.8	7.9
80°-90°	309.1	4.4
90°-100°	203.6	2.9
100°-110°	182.6	2.6
110°-120°	151.1	2.2
120°-130°	116.8	1.7
130°-140°	82.7	1.2
140°-150°	49.9	0.7
150°-160°	24.0	0.3
160°-170°	7.8	0.1
170°-180°	1.0	0.0
0°-30°	1527.2	21.8
0°-40°	2511.9	35.8
0°-60°	4530.2	64.6
0°-90°	6198.4	88.3
90°-120°	537.3	7.7
90°-150°	786.8	11.2
90°-180°	820.0	11.7
0°-180°	7018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1949	1949	1949	1949	1949	
5°	1954	1950	1934	1949	1944	185
15°	1872	1878	1877	1902	1902	528
25°	1709	1733	1753	1792	1793	788
35°	1485	1525	1577	1627	1642	930
45°	1221	1285	1363	1424	1441	941
55°	929	1012	1109	1179	1203	832
65°	628	719	830	912	937	623
75°	327	422	546	632	667	347
85°	72	179	303	387	421	83
90°	1	101	214	294	323	5
95°	1	96	208	285	312	1
105°	1	83	195	268	292	1
115°	2	72	165	238	264	2
125°	2	61	141	203	228	2
135°	2	48	118	167	188	2
145°	2	35	82	126	142	2
155°	4	24	50	80	94	2
165°	4	16	28	37	48	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1949.3	1949.3	1949.3	1949.3	1949.3
2.5°	1962.5	1956.5	1936.1	1949.3	1943.3
5°	1954.1	1950.5	1933.7	1949.3	1944.5
7.5°	1940.9	1939.7	1926.5	1944.5	1939.7
10°	1922.9	1925.3	1914.5	1933.7	1930.1
12.5°	1900.1	1903.7	1898.9	1920.5	1918.1
15°	1872.4	1878.4	1877.2	1902.5	1902.5
17.5°	1838.8	1847.2	1852.0	1880.8	1880.8
20°	1799.1	1812.3	1821.9	1853.2	1858.0
22.5°	1759.4	1775.1	1789.5	1821.9	1829.1
25°	1709.0	1733.0	1753.4	1791.9	1793.1
27.5°	1659.7	1686.1	1713.8	1751.0	1754.6
30°	1605.6	1639.3	1672.9	1709.0	1719.8
32.5°	1547.9	1585.2	1622.4	1670.5	1684.9
35°	1485.4	1525.1	1576.8	1627.2	1641.7
37.5°	1422.9	1467.4	1527.5	1579.2	1592.4
40°	1359.2	1408.5	1475.8	1528.7	1544.3
42.5°	1288.3	1348.4	1420.5	1477.0	1495.0
45°	1221.0	1284.7	1362.8	1424.1	1441.0
47.5°	1150.1	1217.4	1301.6	1366.5	1385.7
50°	1074.4	1151.3	1241.5	1306.4	1324.4
52.5°	1003.5	1081.6	1176.6	1243.9	1269.1
55°	929.0	1011.9	1109.3	1179.0	1203.0
57.5°	859.3	938.6	1043.2	1112.9	1142.9
60°	780.0	867.7	972.3	1048.0	1072.0
62.5°	705.5	794.4	902.6	980.7	1008.3
65°	628.5	718.7	830.4	912.2	937.4
67.5°	556.4	645.4	759.5	840.1	872.5
70°	477.1	570.9	687.4	770.4	798.0
72.5°	399.0	496.3	615.3	704.3	735.5
75°	326.9	421.8	545.6	632.1	667.0
77.5°	257.2	353.3	478.3	567.3	597.3
80°	187.5	288.4	415.8	503.6	532.4
82.5°	123.8	229.5	355.7	443.5	474.7
85°	72.1	179.1	302.9	387.0	420.6
87.5°	31.2	135.8	253.6	336.5	364.1
90°	1.2	101.0	213.9	294.4	323.3
92.5°	1.2	98.5	209.1	288.4	316.1
95°	1.2	96.1	207.9	284.8	312.5
97.5°	1.2	94.9	205.5	282.4	308.9
100°	1.2	91.3	201.9	277.6	304.1
102.5°	1.2	86.5	198.3	272.8	298.0
105°	1.2	82.9	194.7	268.0	292.0
107.5°	1.2	79.3	188.7	262.0	286.0
110°	1.2	75.7	179.1	256.0	280.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	74.5	171.9	247.6	272.8
115°	2.4	72.1	164.6	238.0	264.4
117.5°	2.4	70.9	158.6	228.3	256.0
120°	2.4	67.3	152.6	219.9	246.4
122.5°	2.4	63.7	146.6	211.5	238.0
125°	2.4	61.3	140.6	203.1	228.3
127.5°	2.4	57.7	135.8	194.7	217.5
130°	2.4	55.3	129.8	185.1	207.9
132.5°	2.4	51.7	123.8	175.5	197.1
135°	2.4	48.1	117.8	167.1	187.5
137.5°	2.4	43.3	110.6	157.4	176.7
140°	2.4	39.7	101.0	147.8	165.8
142.5°	2.4	37.3	91.3	137.0	153.8
145°	2.4	34.9	81.7	126.2	141.8
147.5°	2.4	32.4	73.3	115.4	129.8
150°	2.4	28.8	64.9	105.8	117.8
152.5°	3.6	26.4	57.7	93.7	105.8
155°	3.6	24.0	50.5	80.5	93.7
157.5°	3.6	21.6	43.3	67.3	81.7
160°	3.6	19.2	37.3	55.3	69.7
162.5°	3.6	18.0	32.4	45.7	58.9
165°	3.6	15.6	27.6	37.3	48.1
167.5°	3.6	12.0	22.8	28.8	39.7
170°	3.6	9.6	18.0	20.4	30.0
172.5°	3.6	7.2	13.2	14.4	15.6
175°	3.6	6.0	8.4	8.4	4.8
177.5°	3.6	4.8	4.8	4.8	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)