

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: P566807

Luminaire Tested: **4SNX-81HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566807
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-81HL-FDL-UNV-L835-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

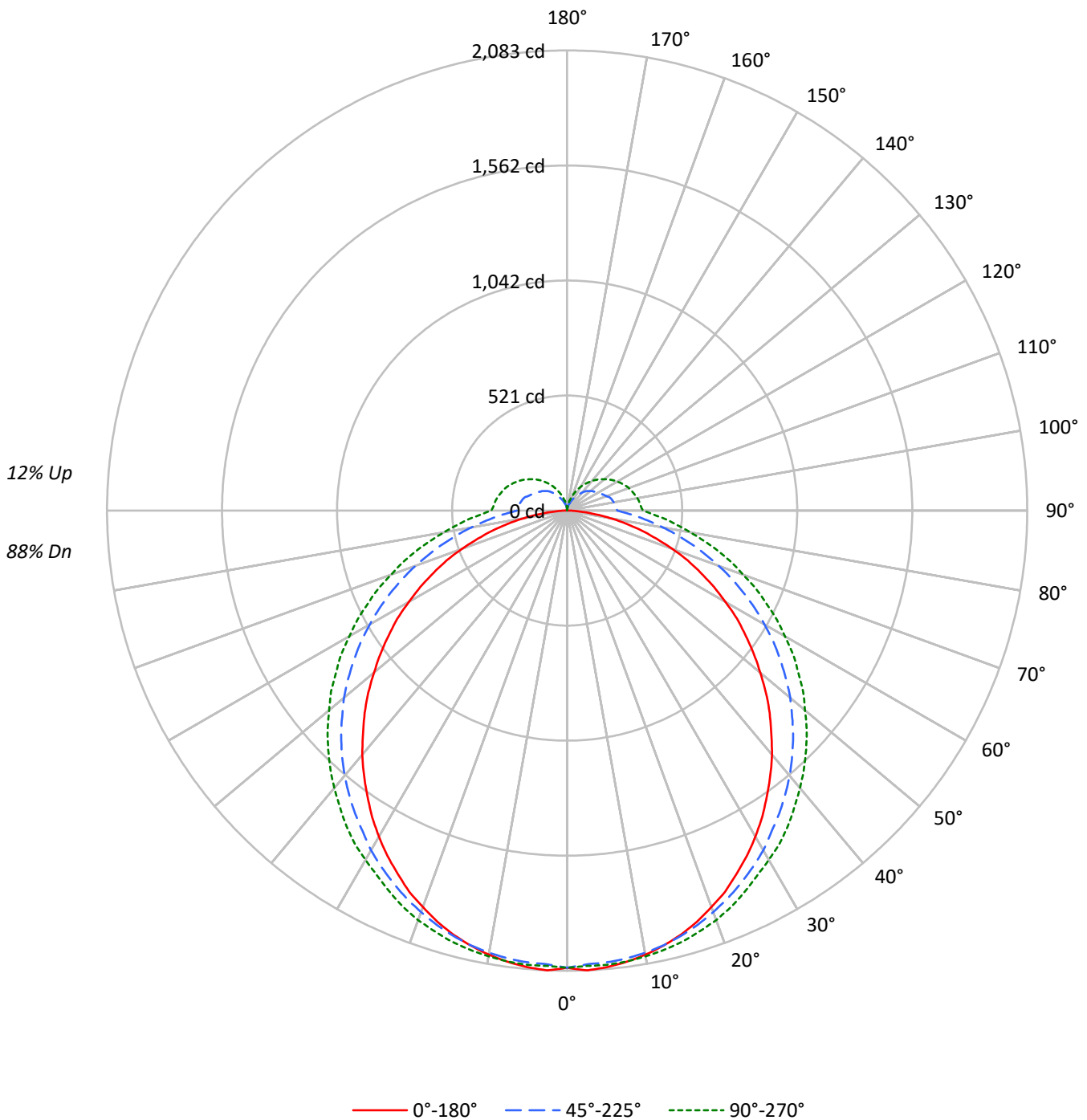
Lumens per Lamp: N/A
Luminaire Lumens: 7450.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 55.1
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	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°	22274	22274	22274
5°	22394	21939	21983
10°	22270	21733	21755
15°	22089	21486	21544
20°	21794	21189	21301
25°	21442	20888	20977
30°	21058	20585	20699
35°	20571	20221	20506
40°	20099	19921	20209
45°	19528	19572	19959
50°	18866	19203	19641
55°	18236	18745	19359
60°	17509	18259	19011
65°	16622	17701	18671
70°	15497	17086	18286
75°	13891	16416	18156
80°	11647	15999	18011
85°	8443	16332	18982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	2.6
10°-20°	565.1	7.6
20°-30°	859.7	11.5
30°-40°	1045.3	14.0
40°-50°	1105.9	14.8
50°-60°	1036.6	13.9
60°-70°	852.8	11.4
70°-80°	590.1	7.9
80°-90°	328.1	4.4
90°-100°	216.2	2.9
100°-110°	193.8	2.6
110°-120°	160.4	2.2
120°-130°	124.0	1.7
130°-140°	87.8	1.2
140°-150°	53.0	0.7
150°-160°	25.4	0.3
160°-170°	8.3	0.1
170°-180°	1.0	0.0
0°-30°	1621.2	21.8
0°-40°	2666.5	35.8
0°-60°	4809.0	64.6
0°-90°	6580.0	88.3
90°-120°	570.5	7.7
90°-150°	835.3	11.2
90°-180°	870.0	11.7
0°-180°	7450.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2069	2069	2069	2069	2069	
5°	2074	2071	2053	2069	2064	197
15°	1988	1994	1993	2020	2020	560
25°	1814	1840	1861	1902	1904	836
35°	1577	1619	1674	1727	1743	987
45°	1296	1364	1447	1512	1530	999
55°	986	1074	1178	1252	1277	883
65°	667	763	882	968	995	662
75°	347	448	579	671	708	368
85°	76	190	322	411	446	88
90°	1	107	227	313	343	5
95°	1	102	221	302	332	1
105°	1	88	207	284	310	1
115°	3	76	175	253	281	2
125°	3	65	149	216	242	2
135°	3	51	125	177	199	2
145°	3	37	87	134	150	2
155°	4	26	54	86	100	2
165°	4	17	29	40	51	1
175°	4	6	9	9	5	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2069.3	2069.3	2069.3	2069.3	2069.3
2.5°	2083.4	2077.0	2055.3	2069.3	2062.9
5°	2074.4	2070.6	2052.7	2069.3	2064.2
7.5°	2060.4	2059.1	2045.1	2064.2	2059.1
10°	2041.3	2043.8	2032.3	2052.7	2048.9
12.5°	2017.0	2020.8	2015.7	2038.7	2036.2
15°	1987.7	1994.1	1992.8	2019.6	2019.6
17.5°	1951.9	1960.9	1966.0	1996.6	1996.6
20°	1909.8	1923.9	1934.1	1967.3	1972.4
22.5°	1867.7	1884.3	1899.6	1934.1	1941.7
25°	1814.2	1839.7	1861.4	1902.2	1903.5
27.5°	1761.9	1789.9	1819.3	1858.8	1862.6
30°	1704.4	1740.2	1775.9	1814.2	1825.6
32.5°	1643.2	1682.8	1722.3	1773.3	1788.6
35°	1576.9	1619.0	1673.8	1727.4	1742.7
37.5°	1510.5	1557.7	1621.5	1676.4	1690.4
40°	1442.9	1495.2	1566.7	1622.8	1639.4
42.5°	1367.6	1431.4	1508.0	1567.9	1587.1
45°	1296.2	1363.8	1446.7	1511.8	1529.7
47.5°	1220.9	1292.4	1381.7	1450.6	1471.0
50°	1140.6	1222.2	1317.9	1386.8	1405.9
52.5°	1065.3	1148.2	1249.0	1320.4	1347.2
55°	986.2	1074.2	1177.5	1251.5	1277.1
57.5°	912.2	996.4	1107.4	1181.4	1213.3
60°	828.0	921.1	1032.1	1112.5	1138.0
62.5°	748.9	843.3	958.1	1041.0	1070.4
65°	667.2	762.9	881.6	968.3	995.1
67.5°	590.7	685.1	806.3	891.8	926.2
70°	506.5	606.0	729.7	817.8	847.1
72.5°	423.6	526.9	653.2	747.6	780.8
75°	347.0	447.8	579.2	671.1	708.1
77.5°	273.0	375.1	507.8	602.2	634.1
80°	199.0	306.2	441.4	534.6	565.2
82.5°	131.4	243.7	377.6	470.8	503.9
85°	76.5	190.1	321.5	410.8	446.5
87.5°	33.2	144.2	269.2	357.2	386.6
90°	1.3	107.2	227.1	312.6	343.2
92.5°	1.3	104.6	222.0	306.2	335.5
95°	1.3	102.1	220.7	302.4	331.7
97.5°	1.3	100.8	218.2	299.8	327.9
100°	1.3	97.0	214.3	294.7	322.8
102.5°	1.3	91.9	210.5	289.6	316.4
105°	1.3	88.0	206.7	284.5	310.0
107.5°	1.3	84.2	200.3	278.1	303.6
110°	1.3	80.4	190.1	271.7	297.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	79.1	182.4	262.8	289.6
115°	2.6	76.5	174.8	252.6	280.7
117.5°	2.6	75.3	168.4	242.4	271.7
120°	2.6	71.4	162.0	233.5	261.5
122.5°	2.6	67.6	155.6	224.5	252.6
125°	2.6	65.1	149.3	215.6	242.4
127.5°	2.6	61.2	144.2	206.7	230.9
130°	2.6	58.7	137.8	196.5	220.7
132.5°	2.6	54.9	131.4	186.3	209.2
135°	2.6	51.0	125.0	177.3	199.0
137.5°	2.6	45.9	117.4	167.1	187.5
140°	2.6	42.1	107.2	156.9	176.1
142.5°	2.6	39.5	97.0	145.4	163.3
145°	2.6	37.0	86.8	134.0	150.5
147.5°	2.6	34.4	77.8	122.5	137.8
150°	2.6	30.6	68.9	112.3	125.0
152.5°	3.8	28.1	61.2	99.5	112.3
155°	3.8	25.5	53.6	85.5	99.5
157.5°	3.8	23.0	45.9	71.4	86.8
160°	3.8	20.4	39.5	58.7	74.0
162.5°	3.8	19.1	34.4	48.5	62.5
165°	3.8	16.6	29.3	39.5	51.0
167.5°	3.8	12.8	24.2	30.6	42.1
170°	3.8	10.2	19.1	21.7	31.9
172.5°	3.8	7.7	14.0	15.3	16.6
175°	3.8	6.4	8.9	8.9	5.1
177.5°	3.8	5.1	5.1	5.1	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)