

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: P566811

Luminaire Tested: **4SNX-81HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566811
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-L935-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

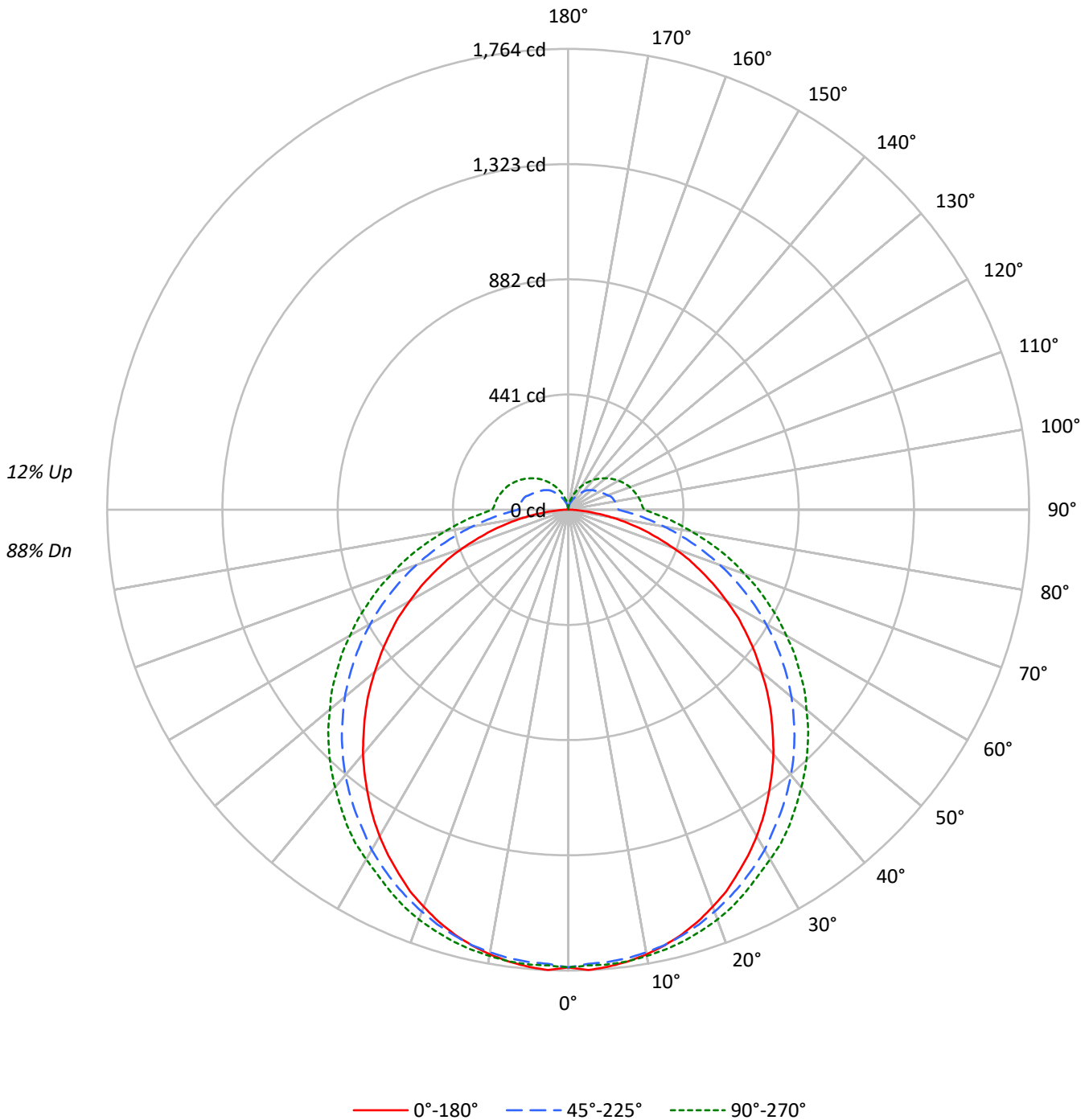
Lumens per Lamp: N/A
Luminaire Lumens: 6307.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (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	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°	18856	18856	18856
5°	18959	18574	18610
10°	18853	18399	18418
15°	18699	18189	18238
20°	18450	17938	18033
25°	18152	17683	17758
30°	17827	17426	17524
35°	17414	17119	17360
40°	17015	16864	17109
45°	16531	16570	16897
50°	15971	16257	16628
55°	15438	15870	16388
60°	14824	15458	16094
65°	14073	14984	15806
70°	13120	14466	15482
75°	11761	13897	15369
80°	9862	13545	15248
85°	7151	13827	16070



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.6
10°-20°	478.4	7.6
20°-30°	727.8	11.5
30°-40°	884.9	14.0
40°-50°	936.2	14.8
50°-60°	877.6	13.9
60°-70°	722.0	11.4
70°-80°	499.5	7.9
80°-90°	277.8	4.4
90°-100°	183.0	2.9
100°-110°	164.1	2.6
110°-120°	135.8	2.2
120°-130°	105.0	1.7
130°-140°	74.3	1.2
140°-150°	44.8	0.7
150°-160°	21.5	0.3
160°-170°	7.0	0.1
170°-180°	0.9	0.0
0°-30°	1372.5	21.8
0°-40°	2257.4	35.8
0°-60°	4071.2	64.6
0°-90°	5570.5	88.3
90°-120°	482.9	7.7
90°-150°	707.1	11.2
90°-180°	737.0	11.7
0°-180°	6307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1756	1753	1738	1752	1748	167
15°	1683	1688	1687	1710	1710	474
25°	1536	1557	1576	1610	1611	708
35°	1335	1371	1417	1462	1475	835
45°	1097	1155	1225	1280	1295	846
55°	835	909	997	1060	1081	747
65°	565	646	746	820	842	560
75°	294	379	490	568	599	312
85°	65	161	272	348	378	75
90°	1	91	192	265	290	4
95°	1	86	187	256	281	1
105°	1	74	175	241	262	1
115°	2	65	148	214	238	2
125°	2	55	126	182	205	2
135°	2	43	106	150	168	2
145°	2	31	73	113	127	1
155°	3	22	45	72	84	1
165°	3	14	25	34	43	1
175°	3	5	8	8	4	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1751.8	1751.8	1751.8	1751.8	1751.8
2.5°	1763.7	1758.3	1740.0	1751.8	1746.4
5°	1756.2	1752.9	1737.8	1751.8	1747.5
7.5°	1744.3	1743.2	1731.3	1747.5	1743.2
10°	1728.1	1730.2	1720.5	1737.8	1734.6
12.5°	1707.6	1710.8	1706.5	1725.9	1723.8
15°	1682.7	1688.1	1687.0	1709.7	1709.7
17.5°	1652.5	1660.0	1664.4	1690.3	1690.3
20°	1616.8	1628.7	1637.4	1665.4	1669.8
22.5°	1581.2	1595.2	1608.2	1637.4	1643.8
25°	1535.8	1557.4	1575.8	1610.4	1611.4
27.5°	1491.5	1515.3	1540.2	1573.6	1576.9
30°	1442.9	1473.2	1503.4	1535.8	1545.6
32.5°	1391.1	1424.6	1458.1	1501.3	1514.2
35°	1334.9	1370.6	1417.0	1462.4	1475.3
37.5°	1278.8	1318.7	1372.7	1419.2	1431.1
40°	1221.5	1265.8	1326.3	1373.8	1387.9
42.5°	1157.8	1211.8	1276.6	1327.4	1343.6
45°	1097.3	1154.6	1224.8	1279.9	1295.0
47.5°	1033.6	1094.1	1169.7	1228.0	1245.3
50°	965.6	1034.7	1115.7	1174.0	1190.2
52.5°	901.8	972.0	1057.4	1117.9	1140.5
55°	834.9	909.4	996.9	1059.5	1081.1
57.5°	772.2	843.5	937.5	1000.1	1027.1
60°	701.0	779.8	873.8	941.8	963.4
62.5°	634.0	713.9	811.1	881.3	906.2
65°	564.9	645.9	746.3	819.8	842.4
67.5°	500.1	580.0	682.6	755.0	784.1
70°	428.8	513.0	617.8	692.3	717.2
72.5°	358.6	446.1	553.0	632.9	661.0
75°	293.8	379.1	490.3	568.1	599.4
77.5°	231.1	317.5	429.9	509.8	536.8
80°	168.5	259.2	373.7	452.5	478.5
82.5°	111.2	206.3	319.7	398.5	426.6
85°	64.8	160.9	272.2	347.8	378.0
87.5°	28.1	122.0	227.9	302.4	327.3
90°	1.1	90.7	192.2	264.6	290.5
92.5°	1.1	88.6	187.9	259.2	284.1
95°	1.1	86.4	186.8	256.0	280.8
97.5°	1.1	85.3	184.7	253.8	277.6
100°	1.1	82.1	181.4	249.5	273.3
102.5°	1.1	77.8	178.2	245.2	267.9
105°	1.1	74.5	175.0	240.9	262.5
107.5°	1.1	71.3	169.6	235.5	257.1
110°	1.1	68.0	160.9	230.1	251.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	67.0	154.4	222.5	245.2
115°	2.2	64.8	148.0	213.8	237.6
117.5°	2.2	63.7	142.6	205.2	230.1
120°	2.2	60.5	137.2	197.6	221.4
122.5°	2.2	57.2	131.8	190.1	213.8
125°	2.2	55.1	126.4	182.5	205.2
127.5°	2.2	51.8	122.0	175.0	195.5
130°	2.2	49.7	116.6	166.3	186.8
132.5°	2.2	46.4	111.2	157.7	177.1
135°	2.2	43.2	105.8	150.1	168.5
137.5°	2.2	38.9	99.4	141.5	158.8
140°	2.2	35.6	90.7	132.8	149.0
142.5°	2.2	33.5	82.1	123.1	138.2
145°	2.2	31.3	73.4	113.4	127.4
147.5°	2.2	29.2	65.9	103.7	116.6
150°	2.2	25.9	58.3	95.0	105.8
152.5°	3.2	23.8	51.8	84.2	95.0
155°	3.2	21.6	45.4	72.4	84.2
157.5°	3.2	19.4	38.9	60.5	73.4
160°	3.2	17.3	33.5	49.7	62.6
162.5°	3.2	16.2	29.2	41.0	52.9
165°	3.2	14.0	24.8	33.5	43.2
167.5°	3.2	10.8	20.5	25.9	35.6
170°	3.2	8.6	16.2	18.4	27.0
172.5°	3.2	6.5	11.9	13.0	14.0
175°	3.2	5.4	7.6	7.6	4.3
177.5°	3.2	4.3	4.3	4.3	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)