

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: P566763

Luminaire Tested: **4SNX-74HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566763
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-74HL-FDL-UNV-L935-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

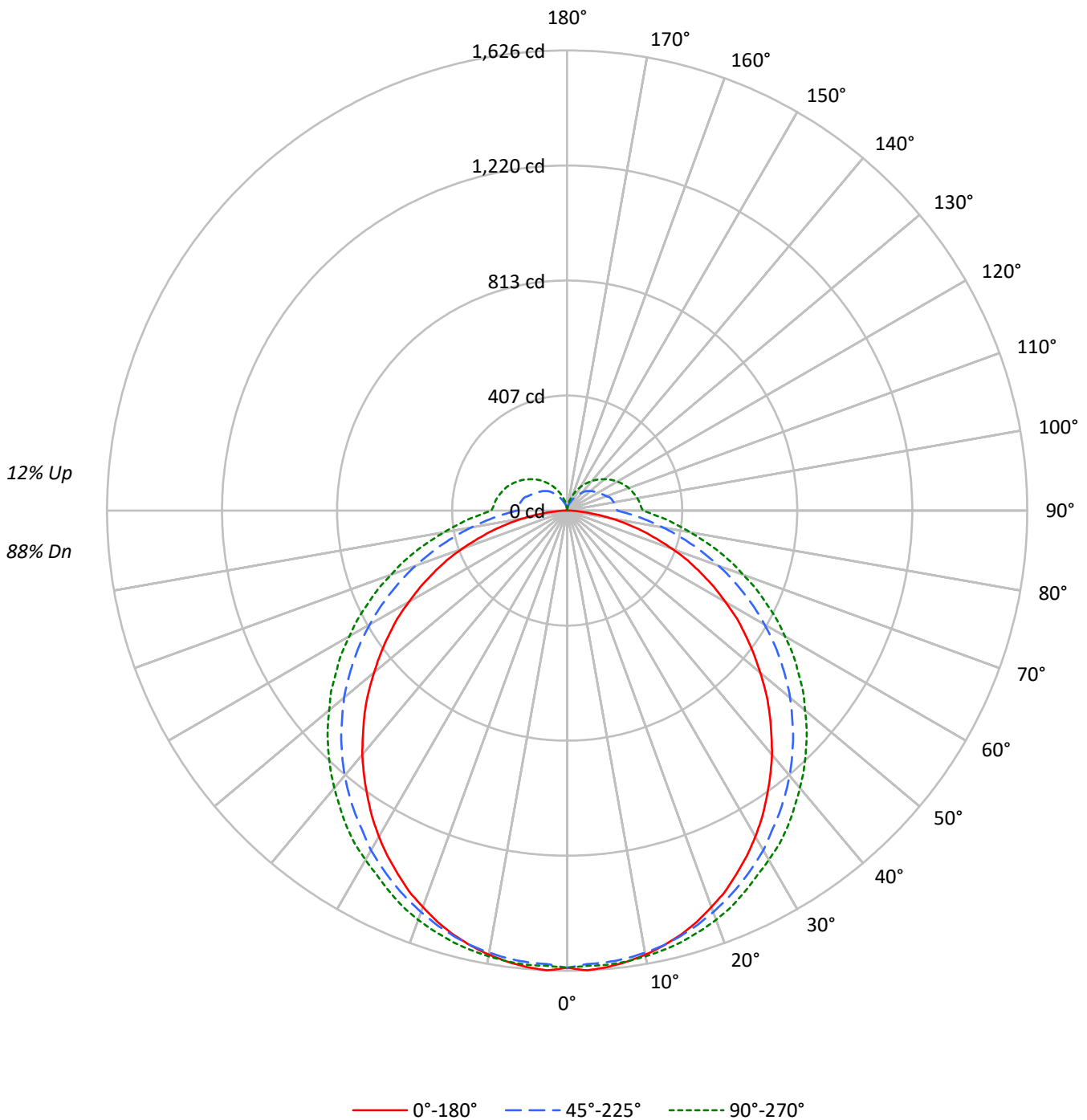
Lumens per Lamp: N/A
Luminaire Lumens: 5815.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 51.8
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°	17386	17386	17386
5°	17480	17124	17159
10°	17383	16964	16980
15°	17241	16770	16815
20°	17011	16538	16626
25°	16736	16304	16373
30°	16437	16066	16157
35°	16056	15784	16007
40°	15687	15548	15774
45°	15242	15276	15579
50°	14724	14989	15331
55°	14235	14632	15110
60°	13667	14252	14839
65°	12975	13816	14573
70°	12095	13338	14273
75°	10845	12814	14171
80°	9090	12487	14056
85°	6589	12745	14816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	2.6
10°-20°	441.1	7.6
20°-30°	671.0	11.5
30°-40°	815.9	14.0
40°-50°	863.2	14.8
50°-60°	809.1	13.9
60°-70°	665.6	11.4
70°-80°	460.6	7.9
80°-90°	256.1	4.4
90°-100°	168.7	2.9
100°-110°	151.3	2.6
110°-120°	125.2	2.2
120°-130°	96.8	1.7
130°-140°	68.5	1.2
140°-150°	41.3	0.7
150°-160°	19.9	0.3
160°-170°	6.5	0.1
170°-180°	0.8	0.0
0°-30°	1265.4	21.8
0°-40°	2081.3	35.8
0°-60°	3753.6	64.6
0°-90°	5135.9	88.3
90°-120°	445.2	7.7
90°-150°	651.9	11.2
90°-180°	679.0	11.7
0°-180°	5815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1619	1616	1602	1615	1611	154
15°	1552	1556	1555	1576	1576	437
25°	1416	1436	1453	1485	1486	653
35°	1231	1264	1306	1348	1360	770
45°	1012	1064	1129	1180	1194	780
55°	770	838	919	977	997	689
65°	521	596	688	756	777	516
75°	271	350	452	524	553	287
85°	60	148	251	321	348	69
90°	1	84	177	244	268	4
95°	1	80	172	236	259	1
105°	1	69	161	222	242	1
115°	2	60	136	197	219	2
125°	2	51	116	168	189	2
135°	2	40	98	138	155	2
145°	2	29	68	105	118	1
155°	3	20	42	67	78	1
165°	3	13	23	31	40	1
175°	3	5	7	7	4	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.2	1615.2	1615.2	1615.2	1615.2
2.5°	1626.1	1621.2	1604.2	1615.2	1610.2
5°	1619.2	1616.2	1602.2	1615.2	1611.2
7.5°	1608.2	1607.2	1596.3	1611.2	1607.2
10°	1593.3	1595.3	1586.3	1602.2	1599.2
12.5°	1574.4	1577.3	1573.4	1591.3	1589.3
15°	1551.5	1556.4	1555.4	1576.3	1576.3
17.5°	1523.6	1530.5	1534.5	1558.4	1558.4
20°	1490.7	1501.7	1509.6	1535.5	1539.5
22.5°	1457.8	1470.8	1482.7	1509.6	1515.6
25°	1416.0	1435.9	1452.9	1484.7	1485.7
27.5°	1375.2	1397.1	1420.0	1450.9	1453.9
30°	1330.4	1358.3	1386.1	1416.0	1425.0
32.5°	1282.6	1313.5	1344.3	1384.2	1396.1
35°	1230.8	1263.7	1306.5	1348.3	1360.3
37.5°	1179.0	1215.9	1265.7	1308.5	1319.4
40°	1126.2	1167.1	1222.8	1266.7	1279.6
42.5°	1067.5	1117.3	1177.0	1223.8	1238.8
45°	1011.7	1064.5	1129.2	1180.0	1194.0
47.5°	953.0	1008.7	1078.4	1132.2	1148.2
50°	890.2	954.0	1028.7	1082.4	1097.4
52.5°	831.5	896.2	974.9	1030.6	1051.6
55°	769.8	838.5	919.1	976.9	996.8
57.5°	712.0	777.7	864.4	922.1	947.0
60°	646.3	719.0	805.6	868.3	888.3
62.5°	584.5	658.2	747.8	812.6	835.5
65°	520.8	595.5	688.1	755.8	776.7
67.5°	461.1	534.7	629.3	696.1	722.9
70°	395.3	473.0	569.6	638.3	661.2
72.5°	330.6	411.3	509.8	583.5	609.4
75°	270.9	349.5	452.1	523.8	552.7
77.5°	213.1	292.8	396.3	470.0	494.9
80°	155.3	239.0	344.5	417.2	441.1
82.5°	102.6	190.2	294.8	367.4	393.3
85°	59.7	148.4	250.9	320.6	348.5
87.5°	25.9	112.5	210.1	278.8	301.7
90°	1.0	83.6	177.3	244.0	267.9
92.5°	1.0	81.7	173.3	239.0	261.9
95°	1.0	79.7	172.3	236.0	258.9
97.5°	1.0	78.7	170.3	234.0	255.9
100°	1.0	75.7	167.3	230.0	251.9
102.5°	1.0	71.7	164.3	226.0	247.0
105°	1.0	68.7	161.3	222.1	242.0
107.5°	1.0	65.7	156.3	217.1	237.0
110°	1.0	62.7	148.4	212.1	232.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	61.7	142.4	205.1	226.0
115°	2.0	59.7	136.4	197.2	219.1
117.5°	2.0	58.8	131.4	189.2	212.1
120°	2.0	55.8	126.5	182.2	204.1
122.5°	2.0	52.8	121.5	175.3	197.2
125°	2.0	50.8	116.5	168.3	189.2
127.5°	2.0	47.8	112.5	161.3	180.2
130°	2.0	45.8	107.5	153.4	172.3
132.5°	2.0	42.8	102.6	145.4	163.3
135°	2.0	39.8	97.6	138.4	155.3
137.5°	2.0	35.8	91.6	130.4	146.4
140°	2.0	32.9	83.6	122.5	137.4
142.5°	2.0	30.9	75.7	113.5	127.5
145°	2.0	28.9	67.7	104.6	117.5
147.5°	2.0	26.9	60.7	95.6	107.5
150°	2.0	23.9	53.8	87.6	97.6
152.5°	3.0	21.9	47.8	77.7	87.6
155°	3.0	19.9	41.8	66.7	77.7
157.5°	3.0	17.9	35.8	55.8	67.7
160°	3.0	15.9	30.9	45.8	57.8
162.5°	3.0	14.9	26.9	37.8	48.8
165°	3.0	12.9	22.9	30.9	39.8
167.5°	3.0	10.0	18.9	23.9	32.9
170°	3.0	8.0	14.9	16.9	24.9
172.5°	3.0	6.0	11.0	11.9	12.9
175°	3.0	5.0	7.0	7.0	4.0
177.5°	3.0	4.0	4.0	4.0	2.0
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)