

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: P566764

Luminaire Tested: **4SNX-74HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566764
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-L940-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

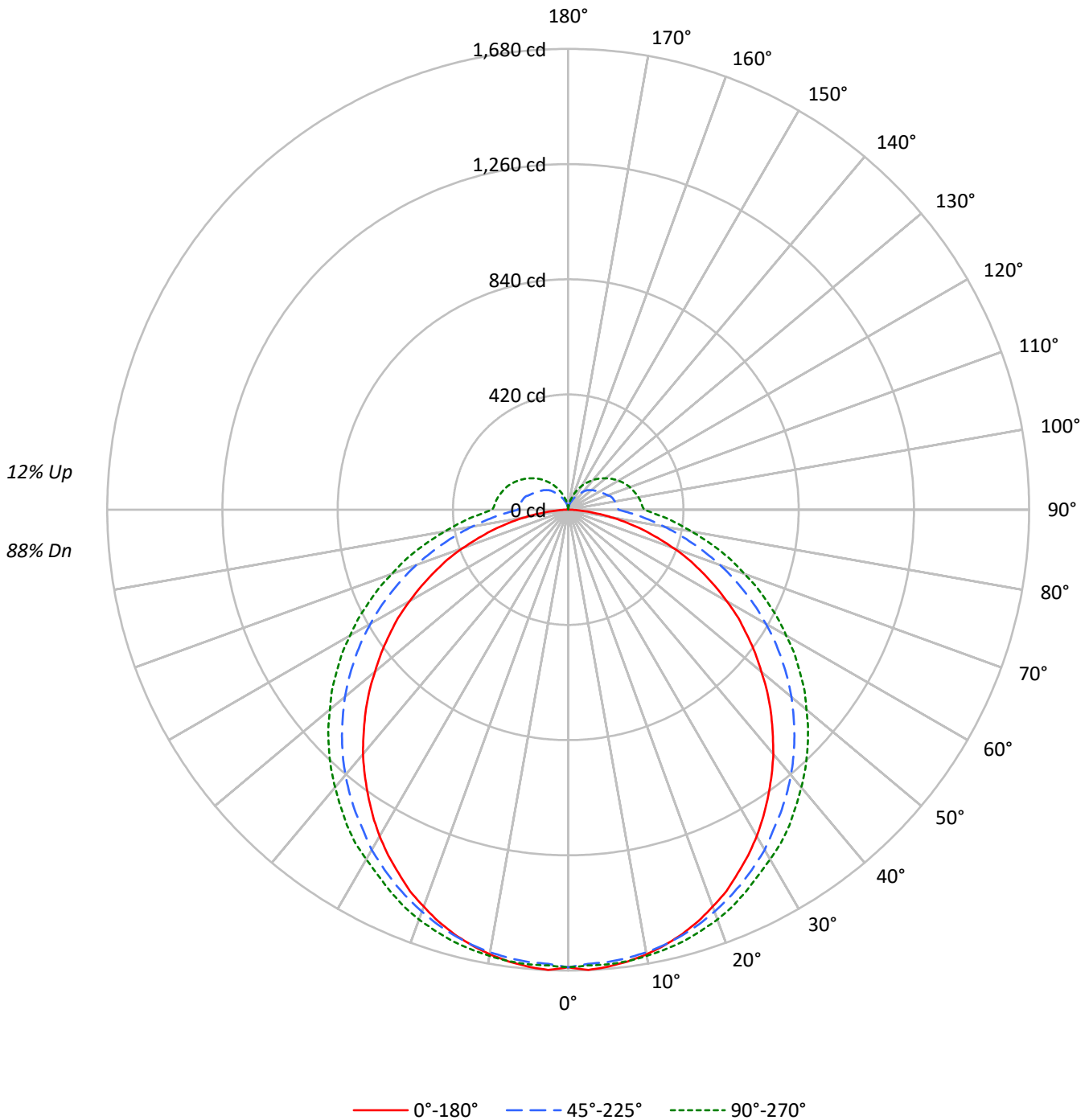
Lumens per Lamp: N/A
Luminaire Lumens: 6006.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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°	17956	17956	17956
5°	18053	17687	17722
10°	17953	17521	17539
15°	17807	17321	17367
20°	17570	17082	17172
25°	17286	16839	16910
30°	16977	16595	16687
35°	16583	16302	16532
40°	16203	16059	16292
45°	15743	15778	16091
50°	15209	15480	15834
55°	14701	15112	15605
60°	14115	14721	15326
65°	13401	14269	15052
70°	12492	13776	14742
75°	11201	13233	14635
80°	9388	12900	14518
85°	6809	13167	15305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	2.6
10°-20°	455.6	7.6
20°-30°	693.0	11.5
30°-40°	842.7	14.0
40°-50°	891.5	14.8
50°-60°	835.7	13.9
60°-70°	687.5	11.4
70°-80°	475.7	7.9
80°-90°	264.5	4.4
90°-100°	174.3	2.9
100°-110°	156.3	2.6
110°-120°	129.3	2.2
120°-130°	100.0	1.7
130°-140°	70.8	1.2
140°-150°	42.7	0.7
150°-160°	20.5	0.3
160°-170°	6.7	0.1
170°-180°	0.8	0.0
0°-30°	1307.0	21.8
0°-40°	2149.7	35.8
0°-60°	3876.9	64.6
0°-90°	5304.6	88.3
90°-120°	459.9	7.7
90°-150°	673.4	11.2
90°-180°	701.0	11.7
0°-180°	6006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1672	1669	1655	1668	1664	159
15°	1602	1608	1606	1628	1628	452
25°	1462	1483	1501	1534	1534	674
35°	1271	1305	1349	1393	1405	796
45°	1045	1100	1166	1219	1233	805
55°	795	866	949	1009	1030	712
65°	538	615	711	781	802	533
75°	280	361	467	541	571	297
85°	62	153	259	331	360	71
90°	1	86	183	252	277	4
95°	1	82	178	244	267	1
105°	1	71	167	229	250	1
115°	2	62	141	204	226	2
125°	2	52	120	174	195	2
135°	2	41	101	143	160	2
145°	2	30	70	108	121	1
155°	3	21	43	69	80	1
165°	3	13	24	32	41	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°	1668.2	1668.2	1668.2	1668.2	1668.2
2.5°	1679.5	1674.4	1656.9	1668.2	1663.1
5°	1672.3	1669.3	1654.9	1668.2	1664.1
7.5°	1661.0	1660.0	1648.7	1664.1	1660.0
10°	1645.6	1647.7	1638.4	1654.9	1651.8
12.5°	1626.1	1629.2	1625.0	1643.6	1641.5
15°	1602.4	1607.6	1606.5	1628.1	1628.1
17.5°	1573.6	1580.8	1584.9	1609.6	1609.6
20°	1539.7	1551.0	1559.2	1586.0	1590.1
22.5°	1505.7	1519.1	1531.4	1559.2	1565.4
25°	1462.5	1483.1	1500.6	1533.5	1534.5
27.5°	1420.4	1443.0	1466.6	1498.5	1501.6
30°	1374.1	1402.9	1431.7	1462.5	1471.8
32.5°	1324.7	1356.6	1388.5	1429.6	1442.0
35°	1271.2	1305.2	1349.4	1392.6	1404.9
37.5°	1217.7	1255.8	1307.2	1351.5	1362.8
40°	1163.2	1205.4	1263.0	1308.3	1321.6
42.5°	1102.6	1154.0	1215.7	1264.0	1279.5
45°	1045.0	1099.5	1166.3	1218.8	1233.2
47.5°	984.3	1041.9	1113.9	1169.4	1185.9
50°	919.5	985.3	1062.4	1118.0	1133.4
52.5°	858.8	925.7	1006.9	1064.5	1086.1
55°	795.0	866.0	949.3	1009.0	1029.5
57.5°	735.4	803.3	892.7	952.4	978.1
60°	667.5	742.6	832.1	896.9	917.4
62.5°	603.7	679.8	772.4	839.3	862.9
65°	537.9	615.0	710.7	780.6	802.2
67.5°	476.2	552.3	650.0	718.9	746.7
70°	408.3	488.5	588.3	659.3	682.9
72.5°	341.5	424.8	526.6	602.7	629.4
75°	279.8	361.0	466.9	541.0	570.8
77.5°	220.1	302.4	409.3	485.5	511.2
80°	160.4	246.8	355.9	430.9	455.6
82.5°	105.9	196.4	304.4	379.5	406.3
85°	61.7	153.2	259.2	331.2	360.0
87.5°	26.7	116.2	217.0	288.0	311.6
90°	1.0	86.4	183.1	252.0	276.7
92.5°	1.0	84.3	179.0	246.8	270.5
95°	1.0	82.3	177.9	243.8	267.4
97.5°	1.0	81.3	175.9	241.7	264.3
100°	1.0	78.2	172.8	237.6	260.2
102.5°	1.0	74.1	169.7	233.5	255.1
105°	1.0	71.0	166.6	229.4	249.9
107.5°	1.0	67.9	161.5	224.2	244.8
110°	1.0	64.8	153.2	219.1	239.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	63.8	147.1	211.9	233.5
115°	2.1	61.7	140.9	203.6	226.3
117.5°	2.1	60.7	135.8	195.4	219.1
120°	2.1	57.6	130.6	188.2	210.8
122.5°	2.1	54.5	125.5	181.0	203.6
125°	2.1	52.5	120.3	173.8	195.4
127.5°	2.1	49.4	116.2	166.6	186.2
130°	2.1	47.3	111.1	158.4	177.9
132.5°	2.1	44.2	105.9	150.2	168.7
135°	2.1	41.1	100.8	143.0	160.4
137.5°	2.1	37.0	94.6	134.7	151.2
140°	2.1	33.9	86.4	126.5	141.9
142.5°	2.1	31.9	78.2	117.2	131.6
145°	2.1	29.8	69.9	108.0	121.4
147.5°	2.1	27.8	62.7	98.7	111.1
150°	2.1	24.7	55.5	90.5	100.8
152.5°	3.1	22.6	49.4	80.2	90.5
155°	3.1	20.6	43.2	68.9	80.2
157.5°	3.1	18.5	37.0	57.6	69.9
160°	3.1	16.5	31.9	47.3	59.7
162.5°	3.1	15.4	27.8	39.1	50.4
165°	3.1	13.4	23.7	31.9	41.1
167.5°	3.1	10.3	19.5	24.7	33.9
170°	3.1	8.2	15.4	17.5	25.7
172.5°	3.1	6.2	11.3	12.3	13.4
175°	3.1	5.1	7.2	7.2	4.1
177.5°	3.1	4.1	4.1	4.1	2.1
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)