

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: P566759

Luminaire Tested: **4SNX-74HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566759
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-L835-CD
Description: 4FT 7400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

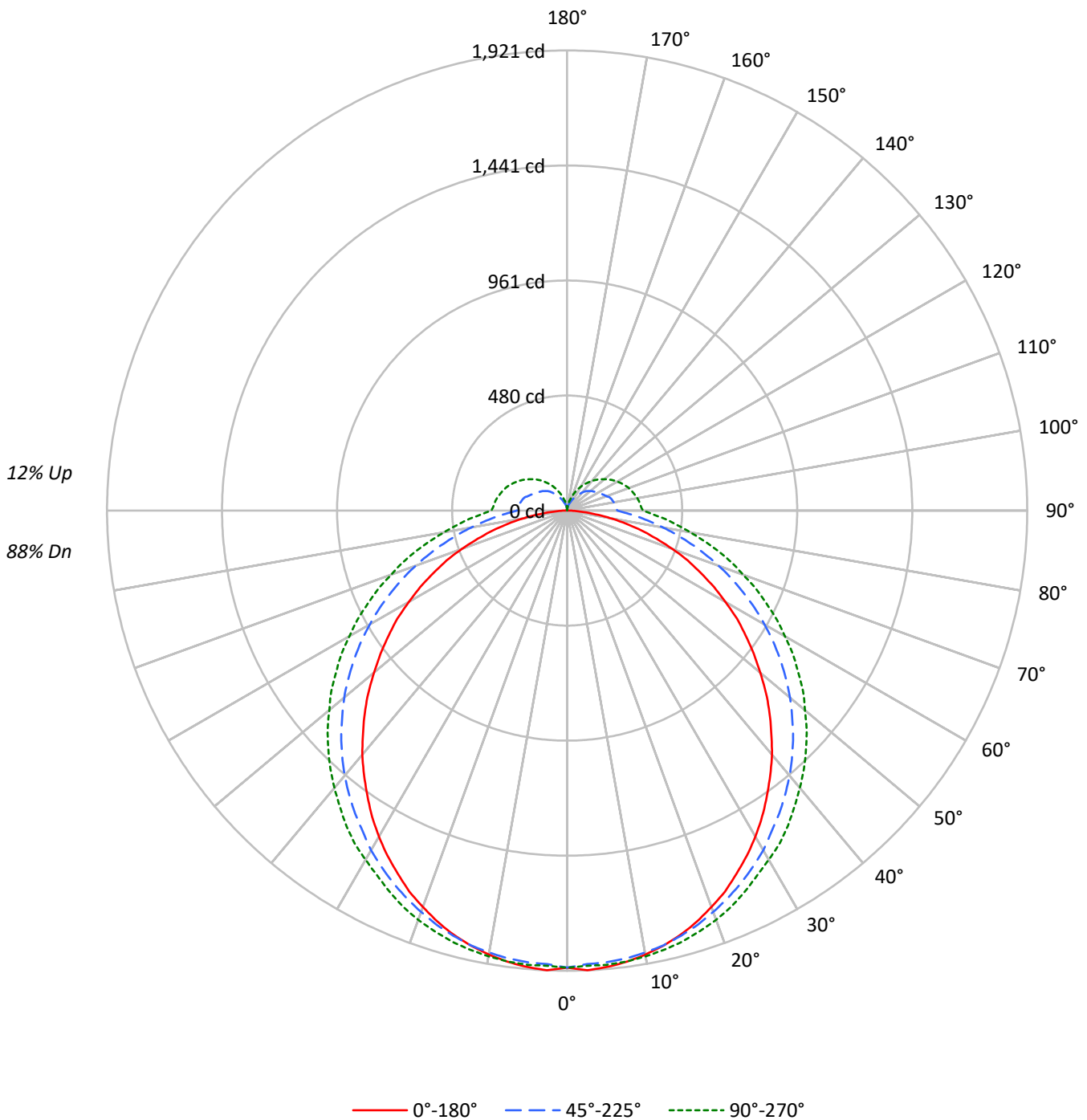
Lumens per Lamp: N/A
Luminaire Lumens: 6869.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

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

TEST NUMBER: P566759

CATALOG NUMBER: 4SNX-74HL-FDL-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566759

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	20536	20536	20536
5°	20647	20229	20269
10°	20534	20038	20058
15°	20366	19811	19863
20°	20094	19537	19639
25°	19770	19258	19340
30°	19416	18979	19085
35°	18966	18645	18907
40°	18532	18367	18633
45°	18005	18046	18403
50°	17394	17706	18110
55°	16814	17284	17849
60°	16143	16835	17529
65°	15327	16319	17215
70°	14288	15754	16861
75°	12810	15135	16738
80°	10740	14752	16606
85°	7792	15056	17503



TEST NUMBER: P566759

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	2.6
10°-20°	521.0	7.6
20°-30°	792.6	11.5
30°-40°	963.8	14.0
40°-50°	1019.6	14.8
50°-60°	955.8	13.9
60°-70°	786.3	11.4
70°-80°	544.0	7.9
80°-90°	302.5	4.4
90°-100°	199.3	2.9
100°-110°	178.7	2.6
110°-120°	147.9	2.2
120°-130°	114.4	1.7
130°-140°	81.0	1.2
140°-150°	48.8	0.7
150°-160°	23.5	0.3
160°-170°	7.7	0.1
170°-180°	0.9	0.0
0°-30°	1494.8	21.8
0°-40°	2458.6	35.8
0°-60°	4434.0	64.6
0°-90°	6066.8	88.3
90°-120°	526.0	7.7
90°-150°	770.1	11.2
90°-180°	802.0	11.7
0°-180°	6869.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1908	1908	1908	1908	1908	
5°	1913	1909	1893	1908	1903	182
15°	1833	1838	1837	1862	1862	517
25°	1673	1696	1716	1754	1755	771
35°	1454	1493	1543	1593	1607	910
45°	1195	1258	1334	1394	1410	921
55°	909	990	1086	1154	1178	814
65°	615	703	813	893	918	610
75°	320	413	534	619	653	339
85°	71	175	296	379	412	81
90°	1	99	209	288	316	5
95°	1	94	204	279	306	1
105°	1	81	191	262	286	1
115°	2	71	161	233	259	2
125°	2	60	138	199	224	2
135°	2	47	115	164	184	2
145°	2	34	80	124	139	2
155°	4	24	49	79	92	2
165°	4	15	27	36	47	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



TEST NUMBER: P566759

CATALOG NUMBER: 4SNX-74HL-FDL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1907.9	1907.9	1907.9	1907.9	1907.9
2.5°	1920.9	1915.0	1895.0	1907.9	1902.1
5°	1912.6	1909.1	1892.7	1907.9	1903.2
7.5°	1899.7	1898.5	1885.6	1903.2	1898.5
10°	1882.1	1884.4	1873.8	1892.7	1889.1
12.5°	1859.7	1863.2	1858.5	1879.7	1877.4
15°	1832.7	1838.5	1837.4	1862.1	1862.1
17.5°	1799.7	1808.0	1812.7	1840.9	1840.9
20°	1760.9	1773.8	1783.3	1813.8	1818.5
22.5°	1722.1	1737.4	1751.5	1783.3	1790.3
25°	1672.7	1696.2	1716.2	1753.8	1755.0
27.5°	1624.5	1650.3	1677.4	1713.9	1717.4
30°	1571.5	1604.5	1637.4	1672.7	1683.3
32.5°	1515.1	1551.5	1588.0	1635.0	1649.2
35°	1453.9	1492.7	1543.3	1592.7	1606.8
37.5°	1392.7	1436.3	1495.1	1545.6	1558.6
40°	1330.4	1378.6	1444.5	1496.2	1511.5
42.5°	1261.0	1319.8	1390.4	1445.7	1463.3
45°	1195.1	1257.5	1333.9	1393.9	1410.4
47.5°	1125.7	1191.6	1273.9	1337.4	1356.3
50°	1051.6	1126.9	1215.1	1278.6	1296.3
52.5°	982.2	1058.7	1151.6	1217.5	1242.2
55°	909.3	990.4	1085.7	1153.9	1177.5
57.5°	841.0	918.7	1021.0	1089.2	1118.7
60°	763.4	849.3	951.6	1025.7	1049.3
62.5°	690.5	777.5	883.4	959.9	986.9
65°	615.2	703.4	812.8	892.8	917.5
67.5°	544.6	631.7	743.4	822.2	854.0
70°	467.0	558.7	672.8	754.0	781.1
72.5°	390.5	485.8	602.3	689.3	719.9
75°	320.0	412.9	534.0	618.7	652.8
77.5°	251.7	345.8	468.2	555.2	584.6
80°	183.5	282.3	407.0	492.9	521.1
82.5°	121.2	224.7	348.2	434.1	464.6
85°	70.6	175.3	296.4	378.8	411.7
87.5°	30.6	132.9	248.2	329.4	356.4
90°	1.2	98.8	209.4	288.2	316.4
92.5°	1.2	96.5	204.7	282.3	309.4
95°	1.2	94.1	203.5	278.8	305.8
97.5°	1.2	92.9	201.1	276.4	302.3
100°	1.2	89.4	197.6	271.7	297.6
102.5°	1.2	84.7	194.1	267.0	291.7
105°	1.2	81.2	190.6	262.3	285.8
107.5°	1.2	77.6	184.7	256.4	280.0
110°	1.2	74.1	175.3	250.5	274.1



TEST NUMBER: P566759

CATALOG NUMBER: 4SNX-74HL-FDL-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	72.9	168.2	242.3	267.0
115°	2.4	70.6	161.2	232.9	258.8
117.5°	2.4	69.4	155.3	223.5	250.5
120°	2.4	65.9	149.4	215.3	241.1
122.5°	2.4	62.3	143.5	207.0	232.9
125°	2.4	60.0	137.6	198.8	223.5
127.5°	2.4	56.5	132.9	190.6	212.9
130°	2.4	54.1	127.0	181.1	203.5
132.5°	2.4	50.6	121.2	171.7	192.9
135°	2.4	47.1	115.3	163.5	183.5
137.5°	2.4	42.3	108.2	154.1	172.9
140°	2.4	38.8	98.8	144.7	162.3
142.5°	2.4	36.5	89.4	134.1	150.6
145°	2.4	34.1	80.0	123.5	138.8
147.5°	2.4	31.8	71.8	112.9	127.0
150°	2.4	28.2	63.5	103.5	115.3
152.5°	3.5	25.9	56.5	91.8	103.5
155°	3.5	23.5	49.4	78.8	91.8
157.5°	3.5	21.2	42.3	65.9	80.0
160°	3.5	18.8	36.5	54.1	68.2
162.5°	3.5	17.6	31.8	44.7	57.6
165°	3.5	15.3	27.1	36.5	47.1
167.5°	3.5	11.8	22.3	28.2	38.8
170°	3.5	9.4	17.6	20.0	29.4
172.5°	3.5	7.1	12.9	14.1	15.3
175°	3.5	5.9	8.2	8.2	4.7
177.5°	3.5	4.7	4.7	4.7	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)