

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: P566859

Luminaire Tested: **4SNX-84HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566859
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-84HL-FDL-UNV-L935-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

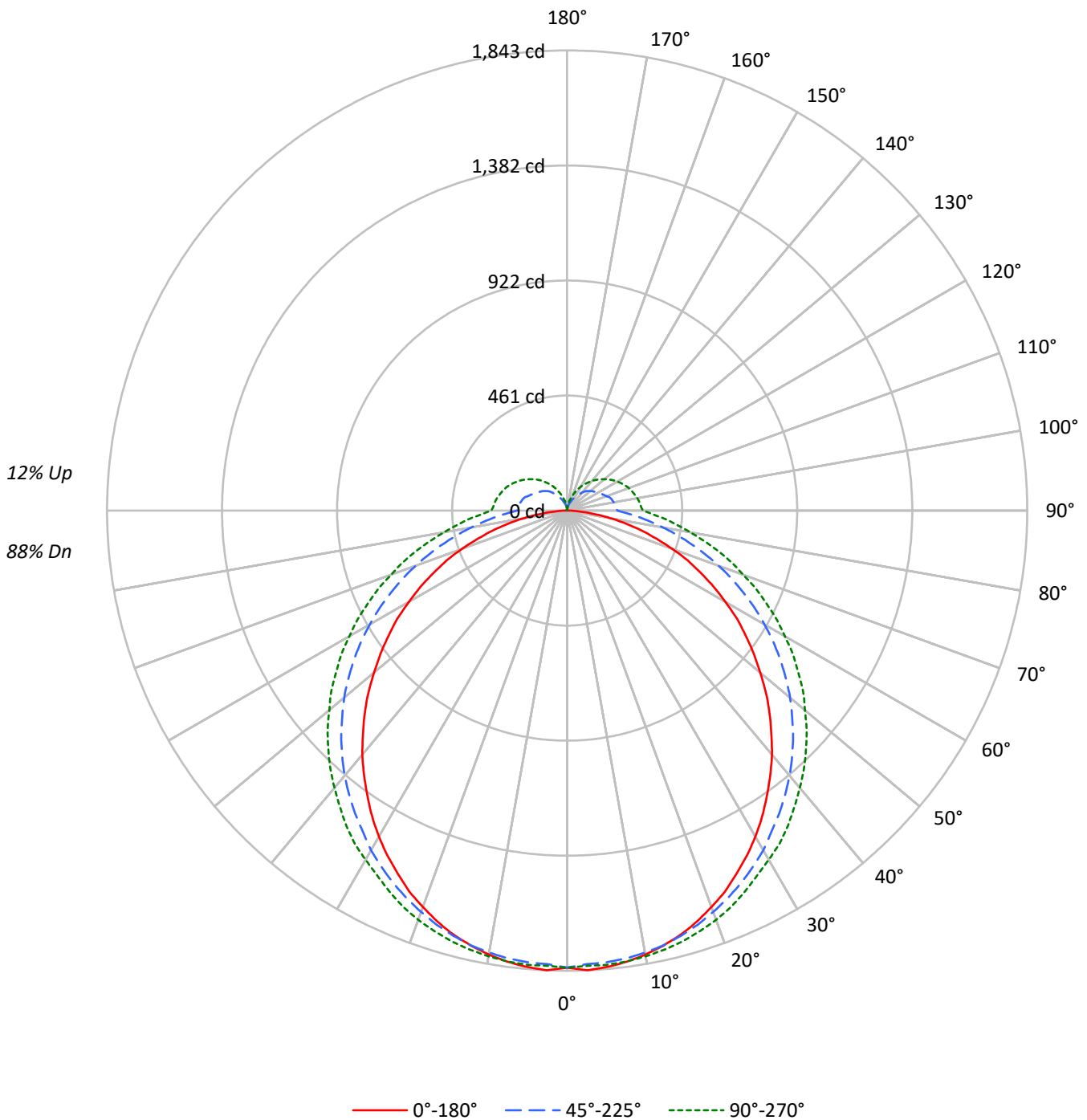
Lumens per Lamp: N/A
Luminaire Lumens: 6590.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 57.9
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	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°	19702	19702	19702
5°	19809	19407	19445
10°	19699	19224	19244
15°	19538	19005	19056
20°	19279	18743	18842
25°	18966	18476	18555
30°	18627	18208	18310
35°	18195	17887	18139
40°	17778	17621	17876
45°	17274	17312	17655
50°	16688	16987	17374
55°	16130	16582	17123
60°	15488	16152	16816
65°	14704	15657	16515
70°	13707	15115	16175
75°	12290	14520	16058
80°	10301	14154	15930
85°	7472	14447	16793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	2.6
10°-20°	499.9	7.6
20°-30°	760.4	11.5
30°-40°	924.6	14.0
40°-50°	978.2	14.8
50°-60°	917.0	13.9
60°-70°	754.3	11.4
70°-80°	521.9	7.9
80°-90°	290.2	4.4
90°-100°	191.2	2.9
100°-110°	171.5	2.6
110°-120°	141.9	2.2
120°-130°	109.7	1.7
130°-140°	77.7	1.2
140°-150°	46.8	0.7
150°-160°	22.5	0.3
160°-170°	7.4	0.1
170°-180°	0.9	0.0
0°-30°	1434.1	21.8
0°-40°	2358.7	35.8
0°-60°	4253.9	64.6
0°-90°	5820.4	88.3
90°-120°	504.6	7.7
90°-150°	738.8	11.2
90°-180°	770.0	11.7
0°-180°	6590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1835	1832	1816	1830	1826	174
15°	1758	1764	1763	1786	1786	496
25°	1605	1627	1646	1683	1684	740
35°	1395	1432	1481	1528	1542	873
45°	1147	1206	1280	1337	1353	884
55°	872	950	1042	1107	1130	781
65°	590	675	780	856	880	585
75°	307	396	512	594	626	326
85°	68	168	284	363	395	78
90°	1	95	201	276	304	4
95°	1	90	195	268	293	1
105°	1	78	183	252	274	1
115°	2	68	155	223	248	2
125°	2	58	132	191	214	2
135°	2	45	111	157	176	2
145°	2	33	77	118	133	1
155°	3	23	47	76	88	2
165°	3	15	26	35	45	1
175°	3	6	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°	1830.4	1830.4	1830.4	1830.4	1830.4
2.5°	1842.9	1837.2	1818.0	1830.4	1824.8
5°	1835.0	1831.6	1815.8	1830.4	1825.9
7.5°	1822.5	1821.4	1809.0	1825.9	1821.4
10°	1805.6	1807.9	1797.7	1815.8	1812.4
12.5°	1784.2	1787.6	1783.0	1803.4	1801.1
15°	1758.2	1763.9	1762.7	1786.4	1786.4
17.5°	1726.6	1734.5	1739.0	1766.1	1766.1
20°	1689.4	1701.8	1710.8	1740.2	1744.7
22.5°	1652.1	1666.8	1680.4	1710.8	1717.6
25°	1604.7	1627.3	1646.5	1682.6	1683.7
27.5°	1558.5	1583.3	1609.3	1644.2	1647.6
30°	1507.7	1539.3	1570.9	1604.7	1614.9
32.5°	1453.5	1488.5	1523.5	1568.6	1582.2
35°	1394.8	1432.1	1480.6	1528.0	1541.5
37.5°	1336.2	1377.9	1434.3	1482.9	1495.3
40°	1276.3	1322.6	1385.8	1435.5	1450.1
42.5°	1209.8	1266.2	1333.9	1386.9	1403.9
45°	1146.6	1206.4	1279.7	1337.3	1353.1
47.5°	1080.0	1143.2	1222.2	1283.1	1301.2
50°	1008.9	1081.1	1165.8	1226.7	1243.6
52.5°	942.3	1015.7	1104.8	1168.0	1191.7
55°	872.3	950.2	1041.6	1107.1	1129.6
57.5°	806.9	881.4	979.5	1045.0	1073.2
60°	732.4	814.8	913.0	984.1	1006.6
62.5°	662.4	745.9	847.5	920.9	946.8
65°	590.2	674.9	779.8	856.5	880.2
67.5°	522.5	606.0	713.2	788.8	819.3
70°	448.0	536.0	645.5	723.4	749.3
72.5°	374.7	466.1	577.8	661.3	690.6
75°	307.0	396.1	512.3	593.6	626.3
77.5°	241.5	331.8	449.1	532.7	560.9
80°	176.0	270.8	390.5	472.8	499.9
82.5°	116.2	215.5	334.0	416.4	445.8
85°	67.7	168.1	284.4	363.4	395.0
87.5°	29.3	127.5	238.1	316.0	341.9
90°	1.1	94.8	200.9	276.5	303.6
92.5°	1.1	92.5	196.4	270.8	296.8
95°	1.1	90.3	195.2	267.5	293.4
97.5°	1.1	89.2	193.0	265.2	290.0
100°	1.1	85.8	189.6	260.7	285.5
102.5°	1.1	81.3	186.2	256.2	279.9
105°	1.1	77.9	182.8	251.7	274.2
107.5°	1.1	74.5	177.2	246.0	268.6
110°	1.1	71.1	168.1	240.4	262.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	70.0	161.4	232.5	256.2
115°	2.3	67.7	154.6	223.4	248.3
117.5°	2.3	66.6	149.0	214.4	240.4
120°	2.3	63.2	143.3	206.5	231.3
122.5°	2.3	59.8	137.7	198.6	223.4
125°	2.3	57.6	132.0	190.7	214.4
127.5°	2.3	54.2	127.5	182.8	204.3
130°	2.3	51.9	121.9	173.8	195.2
132.5°	2.3	48.5	116.2	164.8	185.1
135°	2.3	45.1	110.6	156.9	176.0
137.5°	2.3	40.6	103.8	147.8	165.9
140°	2.3	37.2	94.8	138.8	155.7
142.5°	2.3	35.0	85.8	128.7	144.4
145°	2.3	32.7	76.7	118.5	133.2
147.5°	2.3	30.5	68.8	108.3	121.9
150°	2.3	27.1	60.9	99.3	110.6
152.5°	3.4	24.8	54.2	88.0	99.3
155°	3.4	22.6	47.4	75.6	88.0
157.5°	3.4	20.3	40.6	63.2	76.7
160°	3.4	18.1	35.0	51.9	65.5
162.5°	3.4	16.9	30.5	42.9	55.3
165°	3.4	14.7	26.0	35.0	45.1
167.5°	3.4	11.3	21.4	27.1	37.2
170°	3.4	9.0	16.9	19.2	28.2
172.5°	3.4	6.8	12.4	13.5	14.7
175°	3.4	5.6	7.9	7.9	4.5
177.5°	3.4	4.5	4.5	4.5	2.3
180°	2.3	2.3	2.3	2.3	2.3

(END OF REPORT)