

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: P566861

Luminaire Tested: **4SNX-84HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566861
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-L950-CD
Description: 4FT 8400 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

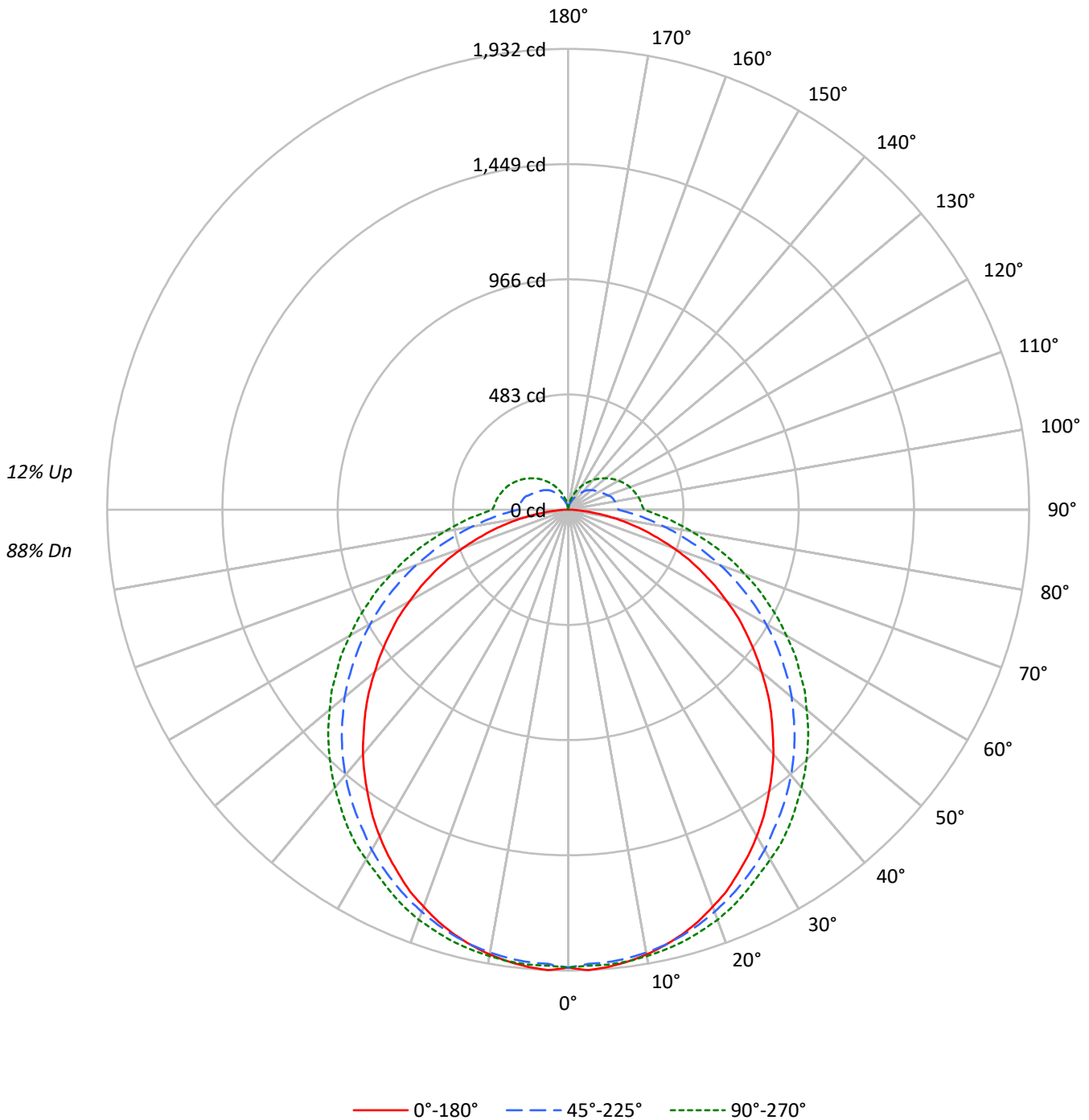
Lumens per Lamp: N/A
Luminaire Lumens: 6910.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 57.9
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°	20659	20659	20659
5°	20771	20349	20390
10°	20656	20158	20178
15°	20487	19928	19982
20°	20214	19653	19757
25°	19888	19374	19456
30°	19532	19093	19199
35°	19080	18756	19020
40°	18642	18477	18745
45°	18112	18154	18512
50°	17498	17812	18218
55°	16914	17387	17955
60°	16240	16936	17633
65°	15419	16418	17318
70°	14374	15850	16961
75°	12886	15226	16838
80°	10804	14839	16704
85°	7836	15148	17609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	2.6
10°-20°	524.1	7.6
20°-30°	797.4	11.5
30°-40°	969.5	14.0
40°-50°	1025.7	14.8
50°-60°	961.5	13.9
60°-70°	791.0	11.4
70°-80°	547.3	7.9
80°-90°	304.3	4.4
90°-100°	200.5	2.9
100°-110°	179.8	2.6
110°-120°	148.8	2.2
120°-130°	115.0	1.7
130°-140°	81.4	1.2
140°-150°	49.1	0.7
150°-160°	23.6	0.3
160°-170°	7.7	0.1
170°-180°	0.9	0.0
0°-30°	1503.7	21.8
0°-40°	2473.2	35.8
0°-60°	4460.5	64.6
0°-90°	6103.1	88.3
90°-120°	529.1	7.7
90°-150°	774.7	11.2
90°-180°	807.0	11.7
0°-180°	6910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1919	1919	1919	1919	1919	
5°	1924	1920	1904	1919	1915	183
15°	1844	1850	1848	1873	1873	520
25°	1683	1706	1726	1764	1766	776
35°	1463	1502	1552	1602	1616	915
45°	1202	1265	1342	1402	1419	927
55°	915	996	1092	1161	1184	819
65°	619	708	818	898	923	614
75°	322	415	537	622	657	341
85°	71	176	298	381	414	82
90°	1	99	211	290	318	5
95°	1	95	205	280	308	1
105°	1	82	192	264	288	1
115°	2	71	162	234	260	2
125°	2	60	138	200	225	2
135°	2	47	116	164	185	2
145°	2	34	80	124	140	2
155°	4	24	50	79	92	2
165°	4	15	27	37	47	1
175°	4	6	8	8	5	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1919.3	1919.3	1919.3	1919.3	1919.3
2.5°	1932.3	1926.4	1906.3	1919.3	1913.4
5°	1924.1	1920.5	1903.9	1919.3	1914.6
7.5°	1911.0	1909.9	1896.8	1914.6	1909.9
10°	1893.3	1895.7	1885.0	1903.9	1900.4
12.5°	1870.8	1874.4	1869.6	1890.9	1888.6
15°	1843.6	1849.5	1848.3	1873.2	1873.2
17.5°	1810.5	1818.7	1823.5	1851.9	1851.9
20°	1771.4	1784.4	1793.9	1824.7	1829.4
22.5°	1732.4	1747.8	1762.0	1793.9	1801.0
25°	1682.7	1706.3	1726.5	1764.3	1765.5
27.5°	1634.2	1660.2	1687.4	1724.1	1727.6
30°	1580.9	1614.0	1647.2	1682.7	1693.3
32.5°	1524.1	1560.8	1597.5	1644.8	1659.0
35°	1462.6	1501.6	1552.5	1602.2	1616.4
37.5°	1401.0	1444.8	1504.0	1554.9	1567.9
40°	1338.3	1386.8	1453.1	1505.2	1520.6
42.5°	1268.5	1327.7	1398.7	1454.3	1472.0
45°	1202.2	1265.0	1341.9	1402.2	1418.8
47.5°	1132.4	1198.7	1281.5	1345.4	1364.4
50°	1057.9	1133.6	1222.4	1286.3	1304.0
52.5°	988.1	1065.0	1158.5	1224.7	1249.6
55°	914.7	996.3	1092.2	1160.8	1184.5
57.5°	846.1	924.2	1027.1	1095.7	1125.3
60°	768.0	854.4	957.3	1031.8	1055.5
62.5°	694.6	782.2	888.7	965.6	992.8
65°	618.9	707.6	817.7	898.1	923.0
67.5°	547.9	635.4	747.9	827.1	859.1
70°	469.8	562.1	676.9	758.5	785.7
72.5°	392.9	488.7	605.9	693.4	724.2
75°	321.9	415.3	537.2	622.4	656.7
77.5°	253.2	347.9	471.0	558.5	588.1
80°	184.6	284.0	409.4	495.8	524.2
82.5°	121.9	226.0	350.3	436.6	467.4
85°	71.0	176.3	298.2	381.0	414.2
87.5°	30.8	133.7	249.7	331.3	358.5
90°	1.2	99.4	210.6	289.9	318.3
92.5°	1.2	97.0	205.9	284.0	311.2
95°	1.2	94.7	204.7	280.4	307.7
97.5°	1.2	93.5	202.3	278.1	304.1
100°	1.2	89.9	198.8	273.3	299.4
102.5°	1.2	85.2	195.2	268.6	293.5
105°	1.2	81.6	191.7	263.9	287.5
107.5°	1.2	78.1	185.8	258.0	281.6
110°	1.2	74.5	176.3	252.0	275.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	73.4	169.2	243.8	268.6
115°	2.4	71.0	162.1	234.3	260.3
117.5°	2.4	69.8	156.2	224.8	252.0
120°	2.4	66.3	150.3	216.5	242.6
122.5°	2.4	62.7	144.4	208.3	234.3
125°	2.4	60.3	138.4	200.0	224.8
127.5°	2.4	56.8	133.7	191.7	214.2
130°	2.4	54.4	127.8	182.2	204.7
132.5°	2.4	50.9	121.9	172.8	194.1
135°	2.4	47.3	116.0	164.5	184.6
137.5°	2.4	42.6	108.9	155.0	173.9
140°	2.4	39.0	99.4	145.5	163.3
142.5°	2.4	36.7	89.9	134.9	151.5
145°	2.4	34.3	80.5	124.2	139.6
147.5°	2.4	31.9	72.2	113.6	127.8
150°	2.4	28.4	63.9	104.1	116.0
152.5°	3.5	26.0	56.8	92.3	104.1
155°	3.5	23.7	49.7	79.3	92.3
157.5°	3.5	21.3	42.6	66.3	80.5
160°	3.5	18.9	36.7	54.4	68.6
162.5°	3.5	17.7	31.9	45.0	58.0
165°	3.5	15.4	27.2	36.7	47.3
167.5°	3.5	11.8	22.5	28.4	39.0
170°	3.5	9.5	17.7	20.1	29.6
172.5°	3.5	7.1	13.0	14.2	15.4
175°	3.5	5.9	8.3	8.3	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)