

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: P565995

Luminaire Tested: **4SNX-104HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565995
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-104HL-FDL-UNV-L935-CD
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

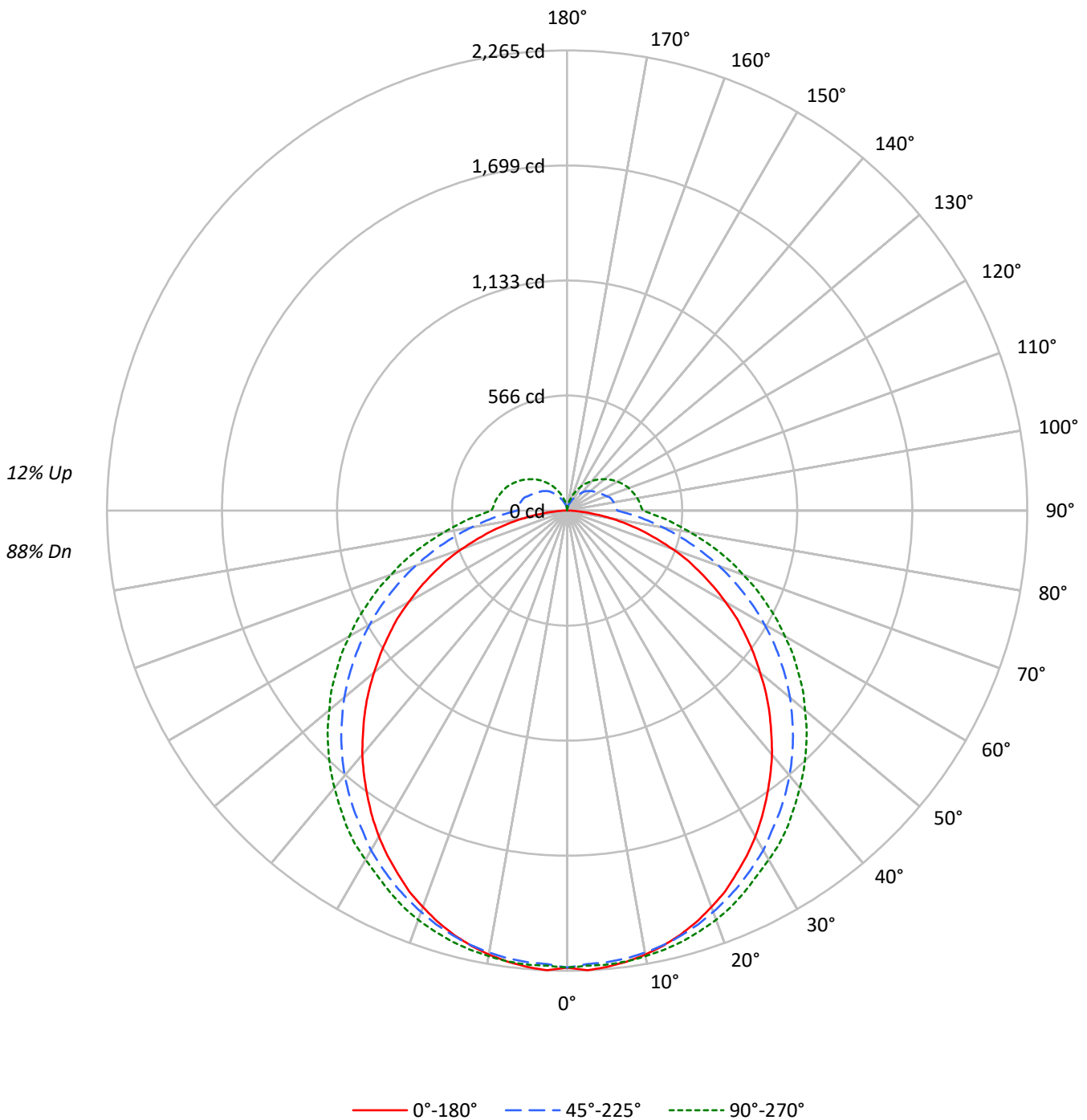
Lumens per Lamp: N/A
Luminaire Lumens: 8098.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 75.5
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

TEST NUMBER: P565995

CATALOG NUMBER: 4SNX-104HL-FDL-UNV-L935-CD

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°	24211	24211	24211
5°	24342	23848	23896
10°	24207	23624	23647
15°	24010	23355	23417
20°	23690	23032	23153
25°	23308	22704	22801
30°	22890	22376	22499
35°	22359	21980	22290
40°	21847	21653	21967
45°	21226	21275	21695
50°	20507	20873	21350
55°	19823	20377	21041
60°	19032	19847	20665
65°	18069	19239	20296
70°	16843	18573	19877
75°	15100	17845	19733
80°	12660	17391	19575
85°	9182	17754	20636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	2.6
10°-20°	614.3	7.6
20°-30°	934.5	11.5
30°-40°	1136.2	14.0
40°-50°	1202.1	14.8
50°-60°	1126.8	13.9
60°-70°	927.0	11.4
70°-80°	641.4	7.9
80°-90°	356.7	4.4
90°-100°	235.0	2.9
100°-110°	210.7	2.6
110°-120°	174.4	2.2
120°-130°	134.8	1.7
130°-140°	95.4	1.2
140°-150°	57.6	0.7
150°-160°	27.7	0.3
160°-170°	9.1	0.1
170°-180°	1.1	0.0
0°-30°	1762.2	21.8
0°-40°	2898.5	35.8
0°-60°	5227.3	64.6
0°-90°	7152.3	88.3
90°-120°	620.1	7.7
90°-150°	907.9	11.2
90°-180°	946.0	11.7
0°-180°	8098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2249	2249	2249	2249	2249	
5°	2255	2251	2231	2249	2244	214
15°	2161	2168	2166	2195	2195	609
25°	1972	2000	2023	2068	2069	909
35°	1714	1760	1819	1878	1894	1073
45°	1409	1482	1573	1643	1663	1086
55°	1072	1168	1280	1360	1388	960
65°	725	829	958	1052	1082	719
75°	377	487	630	729	770	400
85°	83	207	350	446	485	96
90°	1	116	247	340	373	6
95°	1	111	240	329	361	1
105°	1	96	225	309	337	1
115°	3	83	190	275	305	2
125°	3	71	162	234	264	3
135°	3	56	136	193	216	2
145°	3	40	94	146	164	2
155°	4	28	58	93	108	2
165°	4	18	32	43	56	1
175°	4	7	10	10	6	0
180°	3	3	3	3	3	



TEST NUMBER: P565995

CATALOG NUMBER: 4SNX-104HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2249.3	2249.3	2249.3	2249.3	2249.3
2.5°	2264.6	2257.6	2234.1	2249.3	2242.4
5°	2254.9	2250.7	2231.3	2249.3	2243.8
7.5°	2239.6	2238.2	2223.0	2243.8	2238.2
10°	2218.8	2221.6	2209.1	2231.3	2227.1
12.5°	2192.5	2196.6	2191.1	2216.0	2213.3
15°	2160.6	2167.5	2166.1	2195.2	2195.2
17.5°	2121.7	2131.4	2137.0	2170.3	2170.3
20°	2076.0	2091.2	2102.3	2138.4	2143.9
22.5°	2030.2	2048.2	2064.9	2102.3	2110.6
25°	1972.0	1999.7	2023.3	2067.6	2069.0
27.5°	1915.1	1945.6	1977.5	2020.5	2024.7
30°	1852.7	1891.5	1930.4	1972.0	1984.4
32.5°	1786.1	1829.1	1872.1	1927.6	1944.2
35°	1714.0	1759.8	1819.4	1877.7	1894.3
37.5°	1641.9	1693.2	1762.6	1822.2	1837.4
40°	1568.4	1625.3	1702.9	1763.9	1782.0
42.5°	1486.6	1555.9	1639.1	1704.3	1725.1
45°	1408.9	1482.4	1572.6	1643.3	1662.7
47.5°	1327.1	1404.8	1501.9	1576.7	1598.9
50°	1239.8	1328.5	1432.5	1507.4	1528.2
52.5°	1157.9	1248.1	1357.6	1435.3	1464.4
55°	1072.0	1167.6	1280.0	1360.4	1388.1
57.5°	991.5	1083.1	1203.7	1284.1	1318.8
60°	900.0	1001.2	1121.9	1209.2	1237.0
62.5°	814.0	916.6	1041.5	1131.6	1163.5
65°	725.3	829.3	958.2	1052.5	1081.7
67.5°	642.1	744.7	876.4	969.3	1006.8
70°	550.5	658.7	793.2	888.9	920.8
72.5°	460.4	572.7	710.0	812.6	848.7
75°	377.2	486.7	629.6	729.4	769.6
77.5°	296.8	407.7	551.9	654.5	689.2
80°	216.3	332.8	479.8	581.0	614.3
82.5°	142.8	264.9	410.5	511.7	547.8
85°	83.2	206.6	349.5	446.5	485.4
87.5°	36.1	156.7	292.6	388.3	420.2
90°	1.4	116.5	246.8	339.8	373.0
92.5°	1.4	113.7	241.3	332.8	364.7
95°	1.4	110.9	239.9	328.7	360.6
97.5°	1.4	109.6	237.1	325.9	356.4
100°	1.4	105.4	233.0	320.3	350.8
102.5°	1.4	99.8	228.8	314.8	343.9
105°	1.4	95.7	224.7	309.2	337.0
107.5°	1.4	91.5	217.7	302.3	330.0
110°	1.4	87.4	206.6	295.4	323.1



TEST NUMBER: P565995

CATALOG NUMBER: 4SNX-104HL-FDL-UNV-L935-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	86.0	198.3	285.7	314.8
115°	2.8	83.2	190.0	274.6	305.1
117.5°	2.8	81.8	183.1	263.5	295.4
120°	2.8	77.7	176.1	253.8	284.3
122.5°	2.8	73.5	169.2	244.1	274.6
125°	2.8	70.7	162.2	234.4	263.5
127.5°	2.8	66.6	156.7	224.7	251.0
130°	2.8	63.8	149.8	213.6	239.9
132.5°	2.8	59.6	142.8	202.5	227.4
135°	2.8	55.5	135.9	192.8	216.3
137.5°	2.8	49.9	127.6	181.7	203.9
140°	2.8	45.8	116.5	170.6	191.4
142.5°	2.8	43.0	105.4	158.1	177.5
145°	2.8	40.2	94.3	145.6	163.6
147.5°	2.8	37.4	84.6	133.1	149.8
150°	2.8	33.3	74.9	122.0	135.9
152.5°	4.2	30.5	66.6	108.2	122.0
155°	4.2	27.7	58.2	92.9	108.2
157.5°	4.2	25.0	49.9	77.7	94.3
160°	4.2	22.2	43.0	63.8	80.4
162.5°	4.2	20.8	37.4	52.7	68.0
165°	4.2	18.0	31.9	43.0	55.5
167.5°	4.2	13.9	26.3	33.3	45.8
170°	4.2	11.1	20.8	23.6	34.7
172.5°	4.2	8.3	15.3	16.6	18.0
175°	4.2	6.9	9.7	9.7	5.5
177.5°	4.2	5.5	5.5	5.5	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)