

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: P566955

Luminaire Tested: **4SNX-90HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566955
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-90HL-FDL-UNV-L935-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

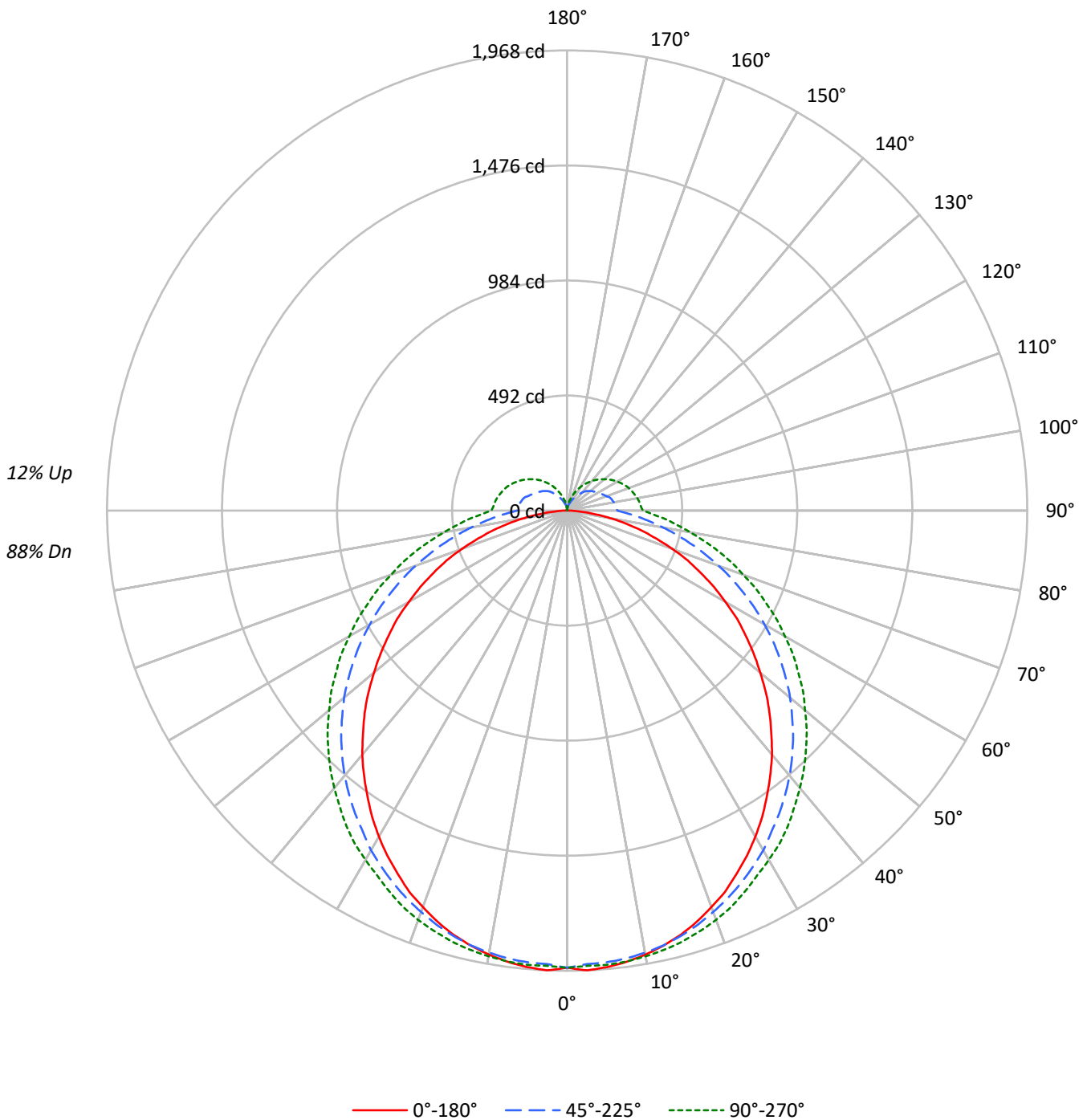
Lumens per Lamp: N/A
Luminaire Lumens: 7038.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 64.4
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°	21042	21042	21042
5°	21155	20726	20768
10°	21039	20531	20552
15°	20866	20298	20352
20°	20589	20017	20123
25°	20256	19732	19817
30°	19894	19446	19555
35°	19433	19104	19372
40°	18987	18819	19091
45°	18448	18489	18855
50°	17822	18141	18556
55°	17226	17709	18287
60°	16541	17249	17960
65°	15703	16721	17639
70°	14640	16143	17276
75°	13123	15509	17151
80°	11003	15115	17013
85°	7979	15427	17932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	2.6
10°-20°	533.9	7.6
20°-30°	812.1	11.5
30°-40°	987.5	14.0
40°-50°	1044.7	14.8
50°-60°	979.3	13.9
60°-70°	805.6	11.4
70°-80°	557.4	7.9
80°-90°	310.0	4.4
90°-100°	204.2	2.9
100°-110°	183.1	2.6
110°-120°	151.6	2.2
120°-130°	117.2	1.7
130°-140°	82.9	1.2
140°-150°	50.0	0.7
150°-160°	24.0	0.3
160°-170°	7.9	0.1
170°-180°	1.0	0.0
0°-30°	1531.6	21.8
0°-40°	2519.1	35.8
0°-60°	4543.1	64.6
0°-90°	6216.1	88.3
90°-120°	538.9	7.7
90°-150°	789.0	11.2
90°-180°	822.0	11.7
0°-180°	7038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1960	1956	1939	1955	1950	186
15°	1878	1884	1883	1908	1908	529
25°	1714	1738	1758	1797	1798	790
35°	1490	1529	1581	1632	1646	932
45°	1224	1288	1367	1428	1445	944
55°	932	1015	1112	1182	1206	834
65°	630	721	833	915	940	625
75°	328	423	547	634	669	348
85°	72	180	304	388	422	83
90°	1	101	214	295	324	5
95°	1	96	208	286	313	1
105°	1	83	195	269	293	1
115°	2	72	165	239	265	2
125°	2	62	141	204	229	2
135°	2	48	118	168	188	2
145°	2	35	82	126	142	2
155°	4	24	51	81	94	2
165°	4	16	28	37	48	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°	1954.9	1954.9	1954.9	1954.9	1954.9
2.5°	1968.1	1962.1	1941.6	1954.9	1948.9
5°	1959.7	1956.1	1939.2	1954.9	1950.1
7.5°	1946.4	1945.2	1932.0	1950.1	1945.2
10°	1928.4	1930.8	1919.9	1939.2	1935.6
12.5°	1905.5	1909.1	1904.3	1926.0	1923.5
15°	1877.7	1883.8	1882.6	1907.9	1907.9
17.5°	1844.0	1852.4	1857.3	1886.2	1886.2
20°	1804.2	1817.5	1827.1	1858.5	1863.3
22.5°	1764.5	1780.1	1794.6	1827.1	1834.4
25°	1713.8	1737.9	1758.4	1797.0	1798.2
27.5°	1664.4	1690.9	1718.7	1756.0	1759.6
30°	1610.2	1643.9	1677.7	1713.8	1724.7
32.5°	1552.3	1589.7	1627.1	1675.3	1689.7
35°	1489.7	1529.4	1581.3	1631.9	1646.3
37.5°	1427.0	1471.6	1531.8	1583.7	1596.9
40°	1363.1	1412.5	1480.0	1533.1	1548.7
42.5°	1292.0	1352.3	1424.6	1481.2	1499.3
45°	1224.5	1288.4	1366.7	1428.2	1445.1
47.5°	1153.4	1220.9	1305.3	1370.3	1389.6
50°	1077.5	1154.6	1245.0	1310.1	1328.2
52.5°	1006.4	1084.7	1179.9	1247.4	1272.7
55°	931.6	1014.8	1112.4	1182.3	1206.4
57.5°	861.7	941.3	1046.1	1116.0	1146.2
60°	782.2	870.2	975.0	1051.0	1075.1
62.5°	707.5	796.7	905.1	983.5	1011.2
65°	630.3	720.7	832.8	914.8	940.1
67.5°	558.0	647.2	761.7	842.5	875.0
70°	478.5	572.5	689.4	772.6	800.3
72.5°	400.1	497.8	617.1	706.3	737.6
75°	327.8	423.0	547.2	634.0	668.9
77.5°	257.9	354.3	479.7	568.9	599.0
80°	188.0	289.3	417.0	505.0	533.9
82.5°	124.1	230.2	356.7	444.7	476.1
85°	72.3	179.6	303.7	388.1	421.8
87.5°	31.3	136.2	254.3	337.5	365.2
90°	1.2	101.2	214.5	295.3	324.2
92.5°	1.2	98.8	209.7	289.3	317.0
95°	1.2	96.4	208.5	285.6	313.4
97.5°	1.2	95.2	206.1	283.2	309.7
100°	1.2	91.6	202.5	278.4	304.9
102.5°	1.2	86.8	198.9	273.6	298.9
105°	1.2	83.2	195.2	268.8	292.9
107.5°	1.2	79.5	189.2	262.7	286.8
110°	1.2	75.9	179.6	256.7	280.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	74.7	172.3	248.3	273.6
115°	2.4	72.3	165.1	238.6	265.2
117.5°	2.4	71.1	159.1	229.0	256.7
120°	2.4	67.5	153.1	220.6	247.1
122.5°	2.4	63.9	147.0	212.1	238.6
125°	2.4	61.5	141.0	203.7	229.0
127.5°	2.4	57.9	136.2	195.2	218.1
130°	2.4	55.4	130.2	185.6	208.5
132.5°	2.4	51.8	124.1	176.0	197.7
135°	2.4	48.2	118.1	167.5	188.0
137.5°	2.4	43.4	110.9	157.9	177.2
140°	2.4	39.8	101.2	148.2	166.3
142.5°	2.4	37.4	91.6	137.4	154.3
145°	2.4	35.0	82.0	126.5	142.2
147.5°	2.4	32.5	73.5	115.7	130.2
150°	2.4	28.9	65.1	106.1	118.1
152.5°	3.6	26.5	57.9	94.0	106.1
155°	3.6	24.1	50.6	80.8	94.0
157.5°	3.6	21.7	43.4	67.5	82.0
160°	3.6	19.3	37.4	55.4	69.9
162.5°	3.6	18.1	32.5	45.8	59.1
165°	3.6	15.7	27.7	37.4	48.2
167.5°	3.6	12.1	22.9	28.9	39.8
170°	3.6	9.6	18.1	20.5	30.1
172.5°	3.6	7.2	13.3	14.5	15.7
175°	3.6	6.0	8.4	8.4	4.8
177.5°	3.6	4.8	4.8	4.8	2.4
180°	2.4	2.4	2.4	2.4	2.4

(END OF REPORT)