

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: P567003

Luminaire Tested: **4SNX-93HL-FDL-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567003
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-93HL-FDL-UNV-L935-CD
Description: 4FT 9300 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

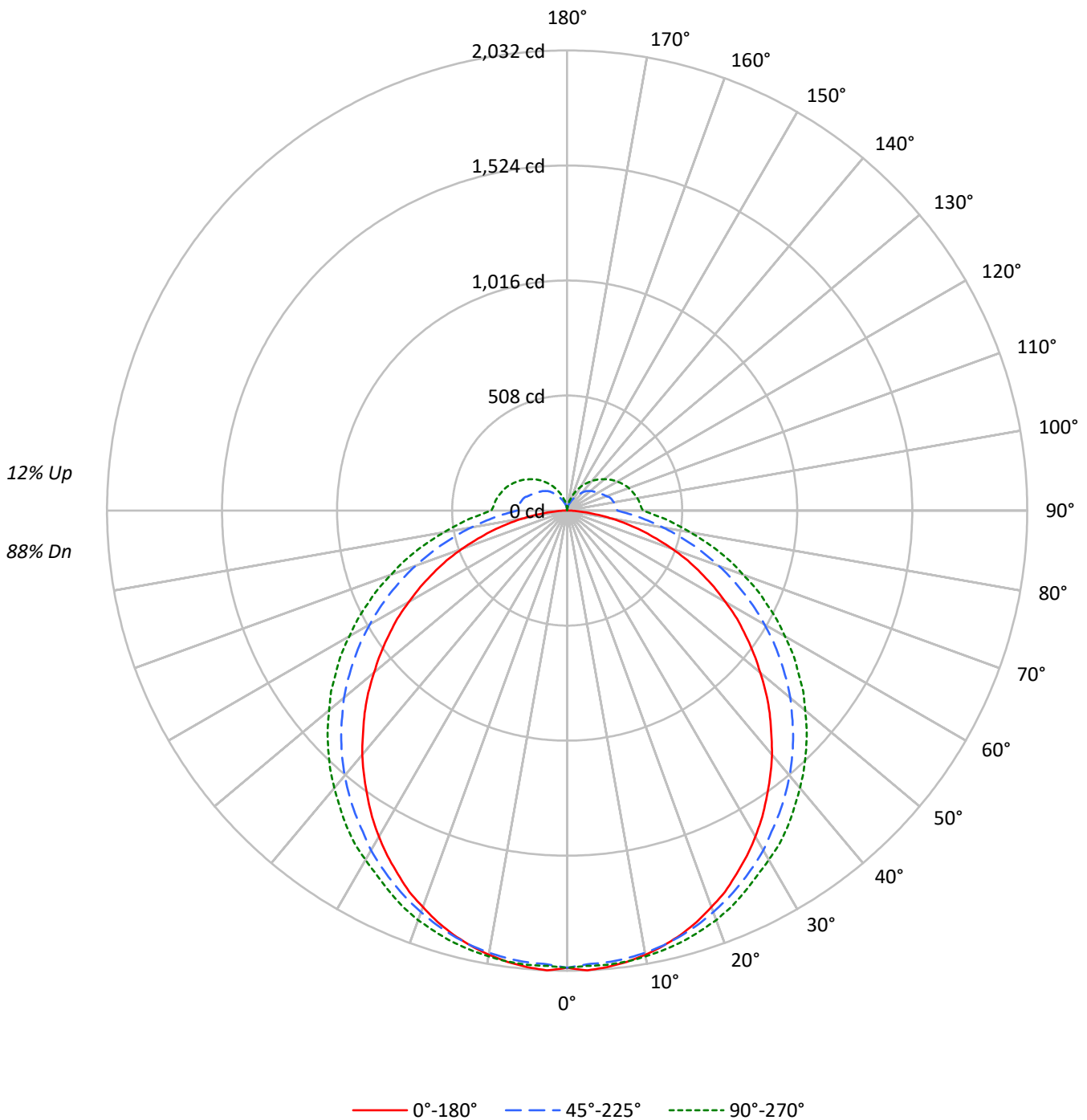
Lumens per Lamp: N/A
Luminaire Lumens: 7268.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 67.4
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°	21730	21730	21730
5°	21846	21404	21446
10°	21726	21203	21224
15°	21548	20961	21017
20°	21262	20671	20781
25°	20918	20377	20464
30°	20544	20082	20193
35°	20067	19727	20005
40°	19609	19434	19715
45°	19050	19094	19471
50°	18404	18734	19162
55°	17790	18288	18886
60°	17082	17813	18546
65°	16216	17267	18215
70°	15117	16670	17839
75°	13551	16017	17712
80°	11366	15608	17571
85°	8244	15930	18519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	2.6
10°-20°	551.3	7.6
20°-30°	838.7	11.5
30°-40°	1019.7	14.0
40°-50°	1078.9	14.8
50°-60°	1011.3	13.9
60°-70°	832.0	11.4
70°-80°	575.6	7.9
80°-90°	320.1	4.4
90°-100°	210.9	2.9
100°-110°	189.1	2.6
110°-120°	156.5	2.2
120°-130°	121.0	1.7
130°-140°	85.7	1.2
140°-150°	51.7	0.7
150°-160°	24.8	0.3
160°-170°	8.1	0.1
170°-180°	1.0	0.0
0°-30°	1581.6	21.8
0°-40°	2601.4	35.8
0°-60°	4691.5	64.6
0°-90°	6419.2	88.3
90°-120°	556.5	7.7
90°-150°	814.8	11.2
90°-180°	849.0	11.7
0°-180°	7268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2019	2019	2019	2019	2019	
5°	2024	2020	2003	2019	2014	192
15°	1939	1945	1944	1970	1970	547
25°	1770	1795	1816	1856	1857	816
35°	1538	1579	1633	1685	1700	963
45°	1264	1330	1411	1475	1492	975
55°	962	1048	1149	1221	1246	861
65°	651	744	860	945	971	645
75°	338	437	565	655	691	359
85°	75	185	314	401	436	86
90°	1	104	222	305	335	5
95°	1	100	215	295	324	1
105°	1	86	202	278	302	1
115°	2	75	170	246	274	2
125°	2	64	146	210	236	2
135°	2	50	122	173	194	2
145°	2	36	85	131	147	2
155°	4	25	52	83	97	2
165°	4	16	29	39	50	1
175°	4	6	9	9	5	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2018.8	2018.8	2018.8	2018.8	2018.8
2.5°	2032.5	2026.2	2005.1	2018.8	2012.5
5°	2023.7	2020.0	2002.6	2018.8	2013.8
7.5°	2010.1	2008.8	1995.1	2013.8	2008.8
10°	1991.4	1993.9	1982.7	2002.6	1998.9
12.5°	1967.7	1971.5	1966.5	1988.9	1986.4
15°	1939.1	1945.3	1944.1	1970.2	1970.2
17.5°	1904.3	1913.0	1918.0	1947.8	1947.8
20°	1863.2	1876.9	1886.8	1919.2	1924.2
22.5°	1822.1	1838.3	1853.2	1886.8	1894.3
25°	1769.8	1794.7	1815.9	1855.7	1857.0
27.5°	1718.8	1746.2	1774.8	1813.4	1817.1
30°	1662.8	1697.7	1732.5	1769.8	1781.0
32.5°	1603.1	1641.7	1680.2	1730.0	1745.0
35°	1538.3	1579.4	1632.9	1685.2	1700.1
37.5°	1473.6	1519.7	1581.9	1635.4	1649.1
40°	1407.7	1458.7	1528.4	1583.2	1599.3
42.5°	1334.2	1396.5	1471.1	1529.6	1548.3
45°	1264.5	1330.5	1411.4	1474.9	1492.3
47.5°	1191.1	1260.8	1347.9	1415.1	1435.0
50°	1112.7	1192.3	1285.7	1352.9	1371.6
52.5°	1039.3	1120.2	1218.5	1288.2	1314.3
55°	962.1	1048.0	1148.8	1221.0	1245.9
57.5°	889.9	972.0	1080.3	1152.5	1183.6
60°	807.8	898.6	1006.9	1085.3	1110.2
62.5°	730.6	822.7	934.7	1015.6	1044.2
65°	650.9	744.3	860.0	944.7	970.8
67.5°	576.3	668.4	786.6	870.0	903.6
70°	494.1	591.2	711.9	797.8	826.4
72.5°	413.2	514.0	637.2	729.3	761.7
75°	338.5	436.9	565.1	654.7	690.8
77.5°	266.3	365.9	495.4	587.5	618.6
80°	194.2	298.7	430.6	521.5	551.4
82.5°	128.2	237.7	368.4	459.3	491.6
85°	74.7	185.4	313.6	400.8	435.6
87.5°	32.4	140.6	262.6	348.5	377.1
90°	1.2	104.5	221.5	304.9	334.8
92.5°	1.2	102.1	216.6	298.7	327.3
95°	1.2	99.6	215.3	295.0	323.6
97.5°	1.2	98.3	212.8	292.5	319.9
100°	1.2	94.6	209.1	287.5	314.9
102.5°	1.2	89.6	205.4	282.5	308.7
105°	1.2	85.9	201.6	277.5	302.4
107.5°	1.2	82.1	195.4	271.3	296.2
110°	1.2	78.4	185.4	265.1	290.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	77.2	178.0	256.4	282.5
115°	2.5	74.7	170.5	246.4	273.8
117.5°	2.5	73.4	164.3	236.5	265.1
120°	2.5	69.7	158.1	227.8	255.1
122.5°	2.5	66.0	151.8	219.1	246.4
125°	2.5	63.5	145.6	210.3	236.5
127.5°	2.5	59.7	140.6	201.6	225.3
130°	2.5	57.3	134.4	191.7	215.3
132.5°	2.5	53.5	128.2	181.7	204.1
135°	2.5	49.8	122.0	173.0	194.2
137.5°	2.5	44.8	114.5	163.0	183.0
140°	2.5	41.1	104.5	153.1	171.8
142.5°	2.5	38.6	94.6	141.9	159.3
145°	2.5	36.1	84.6	130.7	146.9
147.5°	2.5	33.6	75.9	119.5	134.4
150°	2.5	29.9	67.2	109.5	122.0
152.5°	3.7	27.4	59.7	97.1	109.5
155°	3.7	24.9	52.3	83.4	97.1
157.5°	3.7	22.4	44.8	69.7	84.6
160°	3.7	19.9	38.6	57.3	72.2
162.5°	3.7	18.7	33.6	47.3	61.0
165°	3.7	16.2	28.6	38.6	49.8
167.5°	3.7	12.4	23.6	29.9	41.1
170°	3.7	10.0	18.7	21.2	31.1
172.5°	3.7	7.5	13.7	14.9	16.2
175°	3.7	6.2	8.7	8.7	5.0
177.5°	3.7	5.0	5.0	5.0	2.5
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)