

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: P566970

Luminaire Tested: **4SNX-90HL-LN-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-90HL-LN-UNV-L930-CD
Description: 4FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

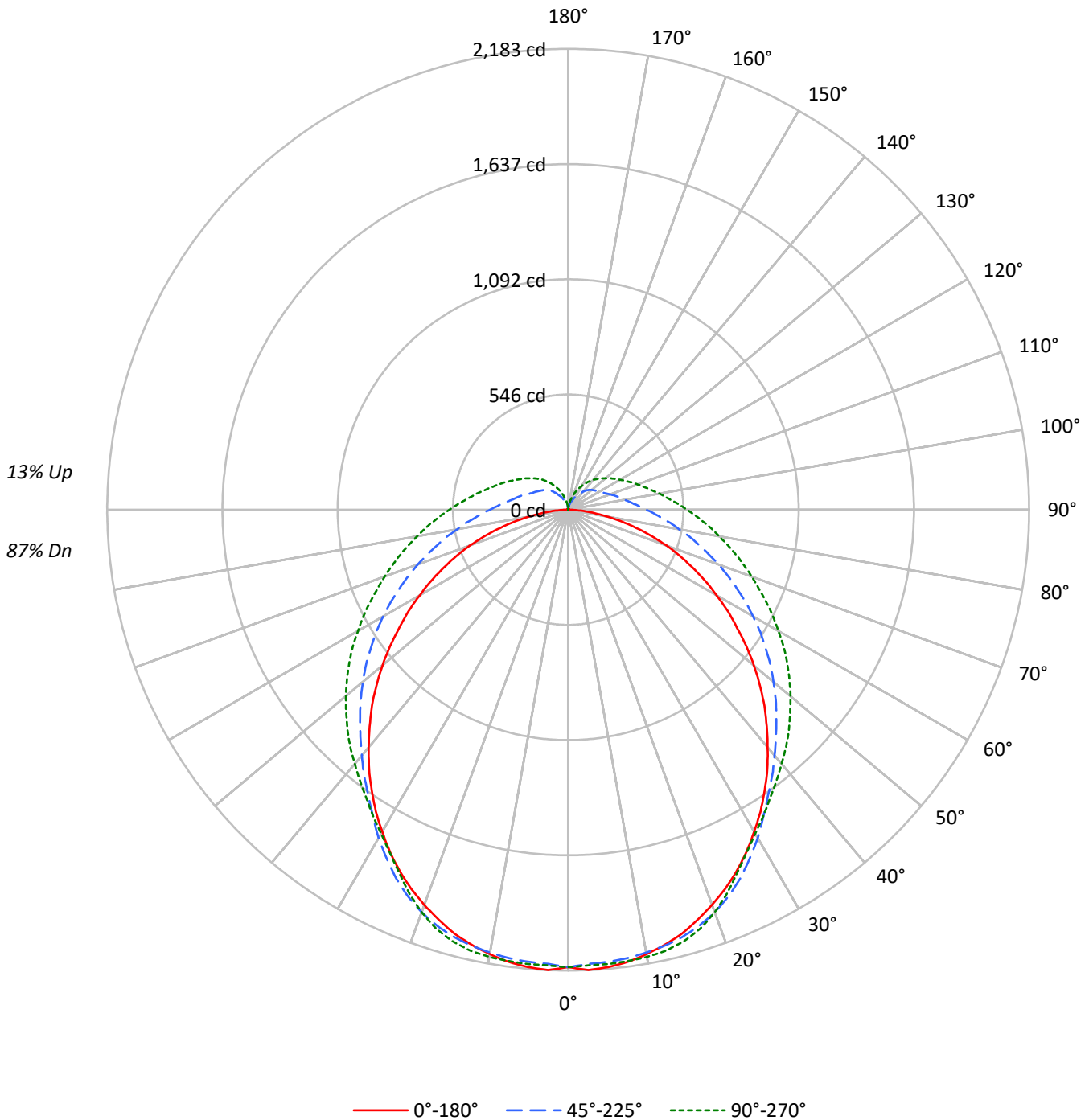
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7823.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
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	104	104	104		96	96	96		90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81		82	79	76		76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66		71	66	62		66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54		62	56	52		58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46		55	49	44		51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40		49	43	38		46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35		44	38	33		42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30		41	34	29		38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27		37	31	26		35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24		34	28	24		32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22		32	26	21		30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23326	23326	23326
5°	23417	22255	22058
10°	23197	21392	21039
15°	22918	20576	20013
20°	22477	19660	18705
25°	22003	18554	17171
30°	21377	17313	15891
35°	20709	16051	14935
40°	19951	15037	14161
45°	19207	14137	13495
50°	18323	13309	12822
55°	17289	12479	12164
60°	16298	11650	11475
65°	15195	10813	10844
70°	13933	10030	10274
75°	11982	9266	9804
80°	9441	8606	9406
85°	6325	8135	9178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	2.6
10°-20°	591.9	7.6
20°-30°	881.4	11.3
30°-40°	1040.0	13.3
40°-50°	1084.6	13.9
50°-60°	1019.3	13.0
60°-70°	860.7	11.0
70°-80°	650.4	8.3
80°-90°	448.3	5.7
90°-100°	313.7	4.0
100°-110°	234.1	3.0
110°-120°	176.5	2.3
120°-130°	131.6	1.7
130°-140°	92.4	1.2
140°-150°	55.9	0.7
150°-160°	26.7	0.3
160°-170°	8.6	0.1
170°-180°	1.0	0.0
0°-30°	1679.2	21.5
0°-40°	2719.2	34.8
0°-60°	4823.1	61.7
0°-90°	6782.5	86.7
90°-120°	724.4	9.3
90°-150°	1004.2	12.8
90°-180°	1041.0	13.3
0°-180°	7823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2167	2167	2167	2167	2167	
5°	2175	2171	2150	2166	2160	206
15°	2080	2089	2094	2121	2117	586
25°	1889	1927	1927	1910	1895	869
35°	1622	1682	1650	1663	1667	1014
45°	1314	1379	1394	1451	1478	1012
55°	976	1060	1141	1232	1265	876
65°	650	753	881	996	1034	645
75°	333	462	639	773	822	354
85°	76	237	443	589	641	85
90°	1	168	370	512	562	5
95°	1	131	313	448	495	1
105°	3	94	241	350	390	3
115°	3	81	187	278	314	3
125°	4	69	158	228	257	4
135°	4	53	131	186	208	3
145°	5	38	92	142	159	3
155°	5	25	56	90	105	2
165°	7	16	29	40	53	2
175°	7	7	8	8	4	1
180°	4	4	4	4	4	



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CATALOG NUMBER: 4SNX-90HL-LN-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2167.1	2167.1	2167.1	2167.1	2167.1
2.5°	2183.0	2177.7	2153.9	2167.1	2160.5
5°	2175.1	2171.1	2149.9	2165.8	2160.5
7.5°	2160.5	2159.2	2143.2	2161.8	2156.5
10°	2137.9	2141.9	2130.0	2155.2	2151.2
12.5°	2111.4	2119.4	2115.4	2143.2	2139.3
15°	2079.6	2088.9	2094.2	2120.7	2116.7
17.5°	2037.1	2054.4	2066.3	2087.5	2080.9
20°	1992.0	2015.9	2029.2	2039.8	2029.2
22.5°	1943.0	1974.8	1982.8	1977.5	1966.9
25°	1888.6	1927.1	1927.1	1909.8	1895.2
27.5°	1827.6	1875.3	1862.1	1842.2	1830.2
30°	1761.3	1818.3	1795.8	1773.2	1770.6
32.5°	1695.0	1754.6	1721.5	1716.2	1720.2
35°	1622.0	1681.7	1649.9	1663.1	1667.1
37.5°	1549.1	1608.8	1587.5	1607.4	1619.4
40°	1469.5	1533.2	1519.9	1555.7	1571.6
42.5°	1391.3	1457.6	1456.2	1502.7	1526.5
45°	1314.3	1379.3	1393.9	1450.9	1477.5
47.5°	1230.8	1297.1	1332.9	1399.2	1425.7
50°	1148.5	1220.2	1269.2	1343.5	1374.0
52.5°	1063.7	1139.3	1206.9	1289.1	1321.0
55°	976.1	1059.7	1140.6	1232.1	1265.3
57.5°	897.9	982.8	1078.3	1172.4	1210.9
60°	811.7	905.8	1010.6	1110.1	1148.5
62.5°	733.4	830.2	947.0	1051.7	1092.8
65°	649.9	753.3	880.6	996.0	1034.5
67.5°	572.9	679.0	818.3	935.0	977.5
70°	493.4	606.1	757.3	880.6	924.4
72.5°	411.1	530.5	696.3	827.6	872.7
75°	332.9	461.5	639.3	773.2	822.3
77.5°	259.9	395.2	587.5	725.5	773.2
80°	188.3	335.5	533.2	676.4	725.5
82.5°	124.7	283.8	489.4	632.6	684.4
85°	75.6	237.4	443.0	588.9	640.6
87.5°	34.5	198.9	405.8	550.4	600.8
90°	1.3	168.4	370.0	511.9	562.3
92.5°	1.3	147.2	340.8	478.8	527.9
95°	1.3	131.3	313.0	448.3	494.7
97.5°	1.3	120.7	291.8	419.1	464.2
100°	1.3	110.1	270.6	392.6	439.0
102.5°	2.7	100.8	254.6	368.7	412.5
105°	2.7	94.2	241.4	350.1	389.9
107.5°	2.7	90.2	226.8	331.6	368.7
110°	2.7	86.2	210.9	313.0	350.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	83.6	198.9	297.1	332.9
115°	2.7	80.9	187.0	278.5	314.3
117.5°	2.7	79.6	180.4	263.9	298.4
120°	4.0	75.6	172.4	250.7	283.8
122.5°	4.0	71.6	164.5	240.1	269.2
125°	4.0	69.0	157.8	228.1	257.3
127.5°	4.0	65.0	151.2	217.5	244.0
130°	4.0	61.0	145.9	206.9	232.1
132.5°	4.0	57.0	139.3	196.3	220.2
135°	4.0	53.1	131.3	185.7	208.2
137.5°	4.0	49.1	123.3	175.1	196.3
140°	4.0	45.1	112.7	164.5	184.4
142.5°	4.0	41.1	102.1	153.8	171.1
145°	5.3	38.5	91.5	141.9	159.2
147.5°	5.3	34.5	80.9	130.0	144.6
150°	5.3	31.8	72.9	118.0	131.3
152.5°	5.3	27.9	65.0	104.8	118.0
155°	5.3	25.2	55.7	90.2	104.8
157.5°	5.3	22.5	47.7	75.6	91.5
160°	5.3	21.2	41.1	62.3	78.2
162.5°	6.6	18.6	34.5	50.4	65.0
165°	6.6	15.9	29.2	39.8	53.1
167.5°	6.6	13.3	23.9	30.5	41.1
170°	6.6	10.6	18.6	21.2	31.8
172.5°	6.6	8.0	13.3	14.6	15.9
175°	6.6	6.6	8.0	8.0	4.0
177.5°	6.6	6.6	5.3	4.0	1.3
180°	4.0	4.0	4.0	4.0	4.0

(END OF REPORT)