

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: P566917

Luminaire Tested: **4SNX-87HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-87HL-LC-UNV-L950-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

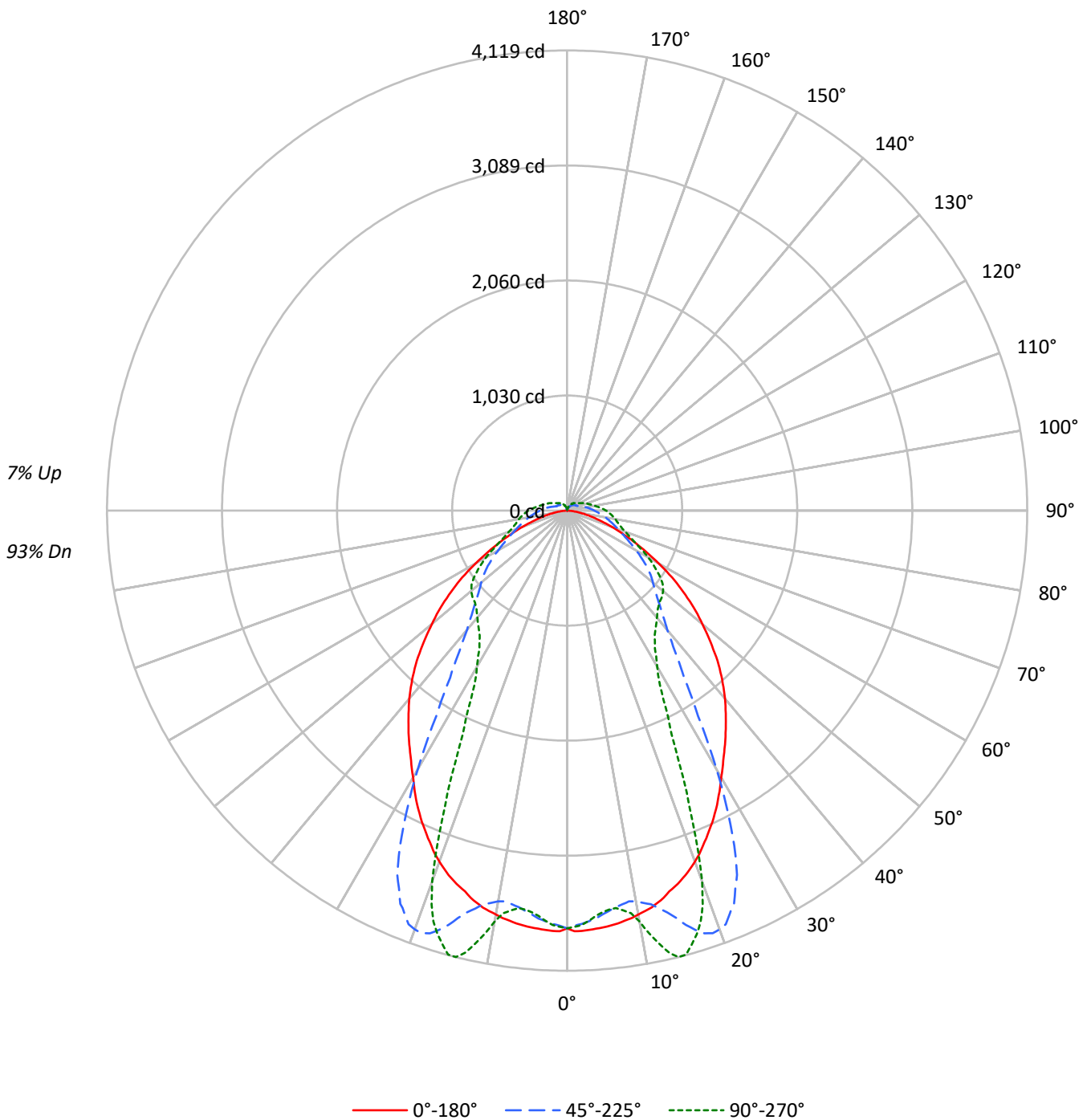
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8313.0 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 62.2
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: P566917
CATALOG NUMBER: 4SNX-87HL-LC-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566917

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L950-CD

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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40261	40261	40261
5°	40309	37576	36853
10°	39827	35679	36545
15°	38899	37111	38905
20°	37723	38649	32561
25°	35829	34644	20020
30°	33475	25783	14490
35°	31552	17781	12223
40°	29828	13787	11265
45°	27823	11728	10653
50°	25210	10515	10458
55°	22459	9498	9676
60°	18934	8207	8369
65°	15284	7138	6985
70°	11863	6405	6151
75°	9045	5943	5735
80°	6172	5613	5678
85°	3187	5339	5638



TEST NUMBER: P566917

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L950-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.1	4.2
10°-20°	1063.5	12.8
20°-30°	1432.1	17.2
30°-40°	1355.3	16.3
40°-50°	1196.3	14.4
50°-60°	971.6	11.7
60°-70°	660.8	7.9
70°-80°	425.2	5.1
80°-90°	282.7	3.4
90°-100°	194.3	2.3
100°-110°	130.4	1.6
110°-120°	92.0	1.1
120°-130°	65.7	0.8
130°-140°	46.4	0.6
140°-150°	28.8	0.3
150°-160°	14.0	0.2
160°-170°	4.9	0.1
170°-180°	0.9	0.0
0°-30°	2843.7	34.2
0°-40°	4199.0	50.5
0°-60°	6366.9	76.6
0°-90°	7735.6	93.1
90°-120°	416.7	5.0
90°-150°	557.6	6.7
90°-180°	577.0	6.9
0°-180°	8313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3740	3740	3740	3740	3740	
5°	3744	3710	3630	3628	3610	355
15°	3530	3507	3777	4111	4115	995
25°	3075	3646	3598	2613	2210	1411
35°	2471	3468	1828	1408	1364	1546
45°	1904	2333	1156	1142	1166	1462
55°	1268	1380	868	970	1006	1132
65°	654	744	581	646	666	656
75°	251	352	410	460	481	273
85°	38	150	291	368	394	50
90°	1	104	242	326	348	2
95°	1	80	204	277	296	1
105°	2	56	134	189	212	2
115°	2	48	99	141	159	3
125°	4	41	85	107	114	4
135°	5	32	70	89	94	4
145°	5	23	50	68	75	3
155°	6	14	30	46	52	3
165°	6	9	16	23	28	2
175°	8	8	8	8	6	1
180°	6	6	6	6	6	



TEST NUMBER: P566917

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3740.4	3740.4	3740.4	3740.4	3740.4
1°	3765.8	3754.4	3716.3	3736.6	3726.5
2°	3764.6	3745.5	3702.4	3725.2	3712.5
3°	3758.2	3737.9	3682.1	3696.0	3677.0
4°	3751.9	3727.7	3660.5	3660.5	3638.9
5°	3744.2	3710.0	3630.0	3627.5	3609.7
6°	3735.4	3696.0	3603.4	3600.8	3590.7
7°	3722.7	3671.9	3574.2	3591.9	3584.3
8°	3707.4	3649.1	3558.9	3603.4	3614.8
9°	3693.5	3621.1	3541.2	3638.9	3647.8
10°	3670.6	3595.7	3552.6	3710.0	3736.6
11°	3651.6	3574.2	3578.0	3779.8	3859.7
12°	3632.6	3551.3	3602.1	3867.4	3965.1
13°	3600.8	3533.6	3655.4	3962.6	4062.8
14°	3572.9	3519.6	3707.4	4059.0	4118.7
15°	3529.7	3506.9	3777.2	4111.1	4114.9
16°	3500.6	3498.0	3858.5	4114.9	4043.8
17°	3467.6	3494.2	3924.5	4048.9	3965.1
18°	3430.7	3501.8	3979.1	3966.4	3869.9
19°	3388.9	3509.4	4001.9	3852.1	3727.7
20°	3343.2	3520.9	3989.2	3732.8	3532.3
21°	3297.5	3536.1	3965.1	3607.2	3275.9
22.5°	3212.4	3572.9	3850.9	3254.3	2852.0
23°	3188.3	3580.5	3824.2	3143.9	2741.6
24°	3128.7	3612.2	3702.4	2886.2	2449.6
25°	3075.4	3646.5	3598.3	2613.4	2209.7
26°	3015.7	3671.9	3440.9	2362.0	2062.5
27°	2957.3	3687.1	3261.9	2166.6	1897.5
28°	2890.1	3703.6	3067.7	1997.8	1773.1
29°	2826.6	3706.2	2876.1	1863.2	1675.4
30°	2758.1	3693.5	2674.3	1755.4	1614.5
32.5°	2608.3	3623.7	2180.5	1549.7	1462.2
35°	2471.2	3467.6	1827.7	1407.6	1364.4
37.5°	2332.9	3221.3	1580.2	1318.7	1304.8
40°	2197.0	2929.4	1393.6	1247.7	1250.2
42.5°	2053.6	2628.6	1265.4	1189.3	1200.7
45°	1903.9	2332.9	1156.3	1142.3	1166.4
47.5°	1737.6	2062.5	1070.0	1111.9	1148.7
50°	1580.2	1794.7	1002.7	1082.7	1120.7
52.5°	1430.4	1575.1	941.8	1033.2	1077.6
55°	1268.0	1379.7	868.2	969.7	1006.5
57.5°	1113.1	1203.2	790.7	891.0	924.0
60°	943.0	1029.4	712.0	806.0	837.7
62.5°	789.5	880.9	644.8	720.9	746.3
65°	653.7	743.8	581.3	646.0	666.3



TEST NUMBER: P566917

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	533.1	629.5	529.3	583.8	602.9
70°	420.1	521.7	483.6	533.1	553.4
72.5°	328.7	431.5	445.5	491.2	511.5
75°	251.3	351.6	410.0	459.5	481.0
77.5°	186.6	286.8	377.0	434.1	456.9
80°	123.1	228.5	347.8	411.2	437.9
82.5°	77.4	184.0	318.6	388.4	416.3
85°	38.1	149.8	290.7	368.1	393.5
87.5°	12.7	124.4	265.3	347.8	369.3
90°	1.3	104.1	242.4	326.2	347.8
92.5°	1.3	90.1	223.4	300.8	322.4
95°	1.3	80.0	204.3	276.7	295.7
97.5°	1.3	72.3	186.6	251.3	271.6
100°	1.3	64.7	167.5	227.2	248.8
102.5°	2.5	59.7	151.0	206.9	229.7
105°	2.5	55.8	134.5	189.1	212.0
107.5°	2.5	53.3	120.6	175.2	196.7
110°	2.5	50.8	110.4	162.5	185.3
112.5°	2.5	49.5	104.1	151.0	172.6
115°	2.5	48.2	99.0	140.9	158.7
117.5°	3.8	47.0	95.2	130.7	144.7
120°	3.8	44.4	92.7	121.8	133.3
122.5°	3.8	41.9	88.8	114.2	123.1
125°	3.8	40.6	85.0	106.6	114.2
127.5°	3.8	38.1	81.2	100.3	107.9
130°	5.1	35.5	77.4	95.2	101.5
132.5°	5.1	33.0	73.6	92.7	97.7
135°	5.1	31.7	69.8	88.8	93.9
137.5°	5.1	29.2	66.0	85.0	90.1
140°	5.1	26.7	60.9	80.0	85.0
142.5°	5.1	25.4	55.8	74.9	80.0
145°	5.1	22.8	49.5	68.5	74.9
147.5°	6.3	21.6	44.4	63.5	68.5
150°	6.3	19.0	39.3	58.4	63.5
152.5°	6.3	16.5	34.3	52.0	57.1
155°	6.3	14.0	30.5	45.7	52.0
157.5°	6.3	12.7	26.7	38.1	45.7
160°	6.3	11.4	22.8	33.0	39.3
162.5°	6.3	10.2	20.3	27.9	34.3
165°	6.3	8.9	16.5	22.8	27.9
167.5°	7.6	8.9	14.0	17.8	22.8
170°	7.6	8.9	11.4	14.0	17.8
172.5°	7.6	7.6	8.9	10.2	11.4
175°	7.6	7.6	7.6	7.6	6.3
177.5°	7.6	7.6	7.6	6.3	6.3



TEST NUMBER: P566917

CATALOG NUMBER: 4SNX-87HL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	6.3	6.3	6.3	6.3	6.3

(END OF REPORT)