

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: P566945

Luminaire Tested: **4SNX-87HL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-17)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-87HL-UNV-L850-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

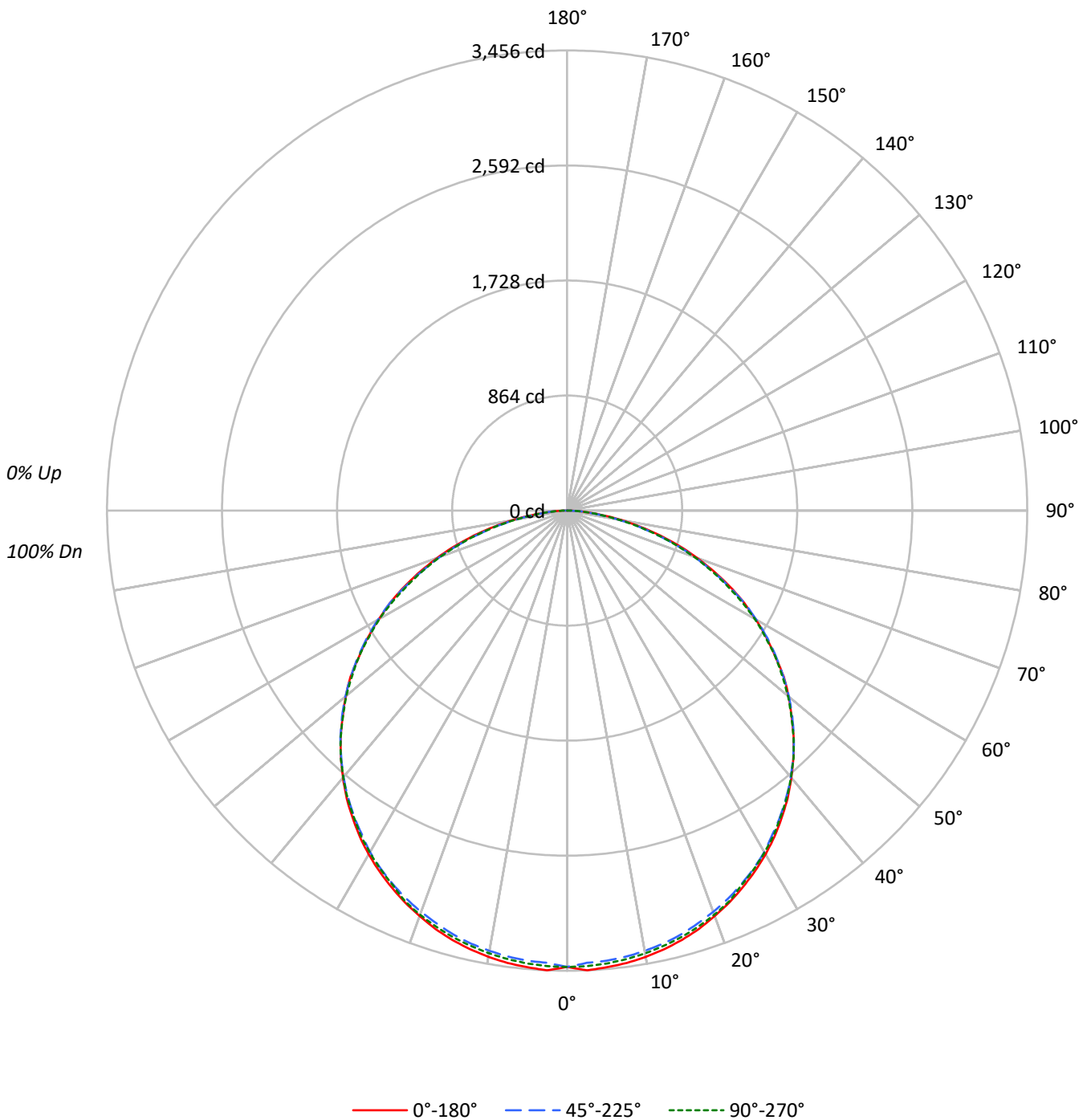
Lumens per Lamp: N/A
Luminaire Lumens: 10259.0 lumens
Efficiency: N/A
Efficacy: 164.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

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

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36890	36890	36890
5°	37188	36670	36889
10°	37206	36698	36904
15°	37190	36737	36947
20°	37114	36732	36998
25°	37069	36776	36845
30°	37045	36810	36846
35°	36953	36725	36782
40°	36805	36723	36744
45°	36605	36671	36605
50°	36358	36430	36236
55°	35791	35983	35791
60°	35187	35344	35032
65°	34318	33910	33541
70°	32683	31950	31859
75°	30160	28713	28833
80°	25805	24181	24634
85°	19168	18809	17550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.2	3.2
10°-20°	937.1	9.1
20°-30°	1434.7	14.0
30°-40°	1755.0	17.1
40°-50°	1856.2	18.1
50°-60°	1710.3	16.7
60°-70°	1316.4	12.8
70°-80°	739.6	7.2
80°-90°	184.5	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2697.0	26.3
0°-40°	4452.0	43.4
0°-60°	8018.6	78.2
0°-90°	10259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3427	3427	3427	3427	3427	
5°	3442	3432	3394	3424	3414	327
15°	3337	3329	3297	3326	3316	942
25°	3121	3118	3096	3118	3102	1440
35°	2812	2808	2795	2808	2799	1760
45°	2405	2412	2409	2403	2405	1854
55°	1907	1925	1917	1912	1907	1708
65°	1347	1350	1331	1313	1317	1329
75°	725	714	690	680	693	764
85°	155	152	152	148	142	192
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3427.2	3427.2	3427.2	3427.2	3427.2
2.5°	3456.2	3437.3	3399.6	3433.0	3424.3
5°	3441.7	3431.5	3393.8	3424.3	3414.1
7.5°	3427.2	3415.6	3379.3	3412.7	3398.2
10°	3404.0	3393.8	3357.6	3389.5	3376.4
12.5°	3373.5	3364.8	3331.5	3361.9	3348.9
15°	3337.3	3328.6	3296.7	3325.7	3315.5
17.5°	3293.7	3283.6	3253.1	3283.6	3276.3
20°	3240.1	3234.3	3206.7	3234.3	3229.9
22.5°	3185.0	3177.7	3156.0	3176.3	3177.7
25°	3121.2	3118.3	3096.5	3118.3	3102.3
27.5°	3054.4	3054.4	3032.7	3047.2	3037.0
30°	2980.5	2979.0	2961.6	2968.9	2964.5
32.5°	2900.7	2899.3	2876.0	2894.9	2887.7
35°	2812.2	2807.9	2794.8	2807.9	2799.2
37.5°	2720.9	2716.5	2706.4	2713.6	2712.2
40°	2619.3	2619.3	2613.5	2619.3	2615.0
42.5°	2514.9	2519.3	2512.0	2517.8	2517.8
45°	2404.7	2411.9	2409.0	2403.2	2404.7
47.5°	2287.2	2300.3	2293.0	2291.6	2284.3
50°	2171.2	2182.8	2175.5	2168.3	2163.9
52.5°	2050.8	2056.6	2047.9	2045.0	2034.8
55°	1907.2	1924.6	1917.4	1911.6	1907.2
57.5°	1775.2	1788.3	1782.5	1770.9	1763.6
60°	1634.5	1644.7	1641.8	1628.7	1627.3
62.5°	1496.8	1499.7	1496.8	1473.6	1475.0
65°	1347.4	1350.3	1331.4	1312.6	1316.9
67.5°	1190.7	1199.4	1173.3	1145.8	1164.6
70°	1038.5	1035.6	1015.2	984.8	1012.3
72.5°	881.8	878.9	855.7	834.0	852.8
75°	725.2	713.6	690.4	680.2	693.3
77.5°	562.7	549.7	539.5	532.3	538.1
80°	416.3	398.8	390.1	384.3	397.4
82.5°	277.0	264.0	259.6	264.0	261.1
85°	155.2	152.3	152.3	147.9	142.1
87.5°	63.8	66.7	68.2	66.7	63.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)