

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: P566921

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566921
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-87HL-LN-UNV-L850-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

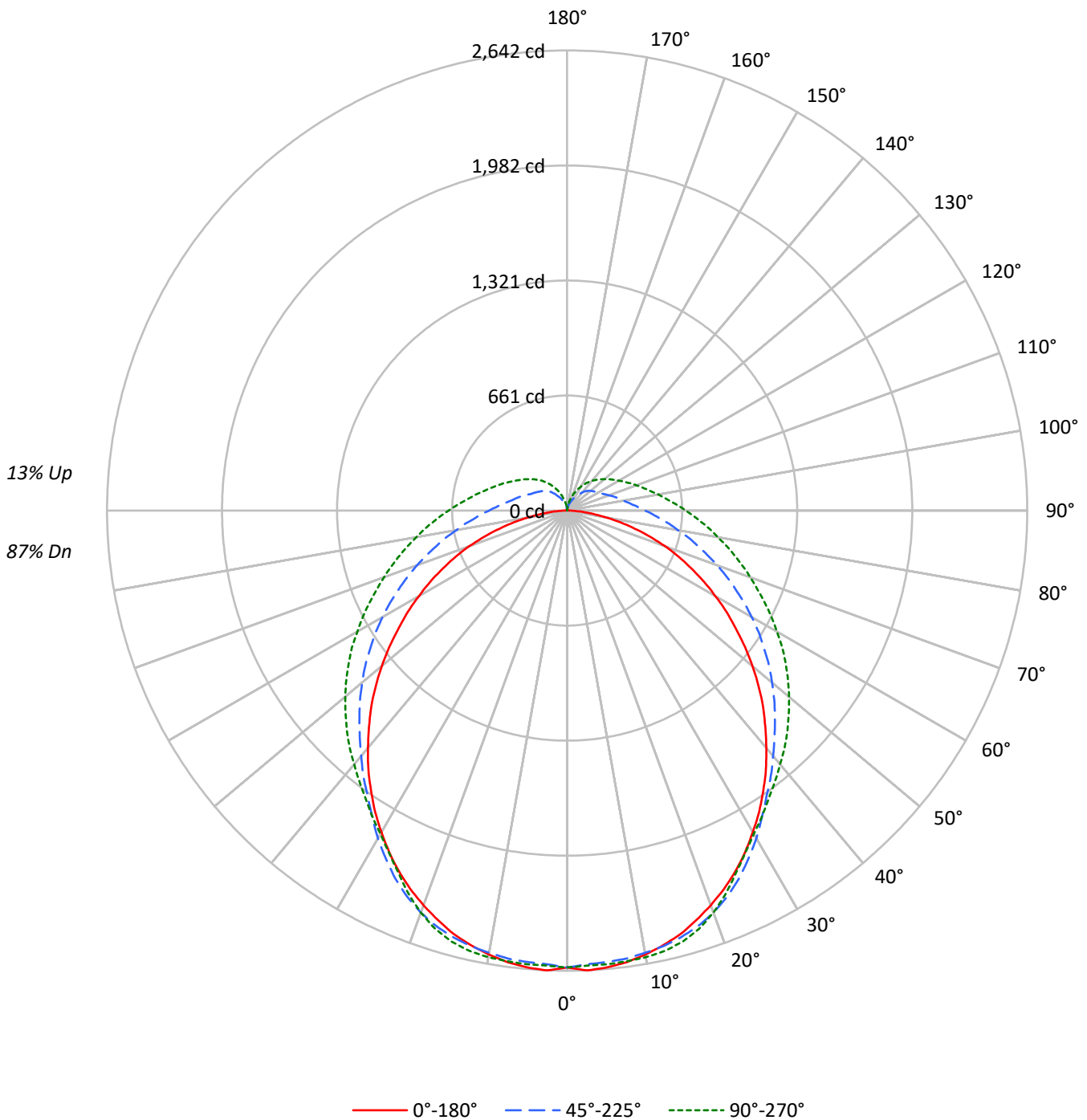
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9469.0 lumens
Efficiency: N/A
Efficacy: 152.2 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): 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	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°	28235	28235	28235
5°	28343	26936	26699
10°	28078	25892	25466
15°	27740	24904	24224
20°	27207	23796	22640
25°	26633	22457	20784
30°	25875	20956	19234
35°	25067	19428	18077
40°	24149	18201	17141
45°	23249	17112	16333
50°	22179	16110	15519
55°	20927	15104	14723
60°	19727	14101	13889
65°	18391	13089	13125
70°	16864	12140	12436
75°	14501	11216	11867
80°	11432	10415	11385
85°	7655	9847	11109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	2.6
10°-20°	716.4	7.6
20°-30°	1066.8	11.3
30°-40°	1258.8	13.3
40°-50°	1312.8	13.9
50°-60°	1233.7	13.0
60°-70°	1041.9	11.0
70°-80°	787.2	8.3
80°-90°	542.6	5.7
90°-100°	379.8	4.0
100°-110°	283.4	3.0
110°-120°	213.6	2.3
120°-130°	159.3	1.7
130°-140°	111.8	1.2
140°-150°	67.6	0.7
150°-160°	32.3	0.3
160°-170°	10.4	0.1
170°-180°	1.2	0.0
0°-30°	2032.5	21.5
0°-40°	3291.3	34.8
0°-60°	5837.8	61.7
0°-90°	8209.5	86.7
90°-120°	876.7	9.3
90°-150°	1215.5	12.8
90°-180°	1259.0	13.3
0°-180°	9469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2623	2623	2623	2623	2623	
5°	2633	2628	2602	2622	2615	250
15°	2517	2528	2535	2567	2562	709
25°	2286	2332	2332	2312	2294	1052
35°	1963	2036	1997	2013	2018	1228
45°	1591	1670	1687	1756	1788	1225
55°	1182	1283	1381	1491	1532	1060
65°	787	912	1066	1206	1252	781
75°	403	559	774	936	995	429
85°	92	287	536	713	775	103
90°	2	204	448	620	681	6
95°	2	159	379	543	599	1
105°	3	114	292	424	472	3
115°	3	98	226	337	380	3
125°	5	84	191	276	311	4
135°	5	64	159	225	252	4
145°	6	47	111	172	193	4
155°	6	30	67	109	127	3
165°	8	19	35	48	64	2
175°	8	8	10	10	5	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2623.1	2623.1	2623.1	2623.1	2623.1
2.5°	2642.4	2635.9	2607.0	2623.1	2615.1
5°	2632.7	2627.9	2602.2	2621.5	2615.1
7.5°	2615.1	2613.5	2594.2	2616.7	2610.2
10°	2587.8	2592.6	2578.1	2608.6	2603.8
12.5°	2555.7	2565.3	2560.5	2594.2	2589.4
15°	2517.1	2528.4	2534.8	2566.9	2562.1
17.5°	2465.8	2486.6	2501.1	2526.8	2518.7
20°	2411.2	2440.1	2456.1	2469.0	2456.1
22.5°	2351.8	2390.3	2399.9	2393.5	2380.7
25°	2286.0	2332.5	2332.5	2311.7	2294.0
27.5°	2212.1	2269.9	2253.9	2229.8	2215.3
30°	2131.9	2200.9	2173.6	2146.3	2143.1
32.5°	2051.6	2123.8	2083.7	2077.3	2082.1
35°	1963.3	2035.5	1997.0	2013.1	2017.9
37.5°	1875.0	1947.3	1921.6	1945.6	1960.1
40°	1778.7	1855.7	1839.7	1883.0	1902.3
42.5°	1684.0	1764.2	1762.6	1818.8	1847.7
45°	1590.9	1669.5	1687.2	1756.2	1788.3
47.5°	1489.7	1570.0	1613.3	1693.6	1725.7
50°	1390.2	1476.9	1536.3	1626.2	1663.1
52.5°	1287.5	1379.0	1460.8	1560.4	1598.9
55°	1181.5	1282.6	1380.6	1491.3	1531.5
57.5°	1086.8	1189.5	1305.1	1419.1	1465.7
60°	982.5	1096.4	1223.3	1343.7	1390.2
62.5°	887.7	1004.9	1146.2	1273.0	1322.8
65°	786.6	911.8	1065.9	1205.6	1252.1
67.5°	693.5	821.9	990.5	1131.7	1183.1
70°	597.2	733.6	916.6	1065.9	1118.9
72.5°	497.6	642.1	842.8	1001.7	1056.3
75°	402.9	558.7	773.8	935.9	995.3
77.5°	314.6	478.4	711.2	878.1	935.9
80°	228.0	406.1	645.3	818.7	878.1
82.5°	150.9	343.5	592.4	765.7	828.3
85°	91.5	287.4	536.2	712.8	775.4
87.5°	41.7	240.8	491.2	666.2	727.2
90°	1.6	203.9	447.9	619.7	680.7
92.5°	1.6	178.2	412.6	579.5	638.9
95°	1.6	158.9	378.9	542.6	598.8
97.5°	1.6	146.1	353.2	507.3	561.9
100°	1.6	133.2	327.5	475.2	531.4
102.5°	3.2	122.0	308.2	446.3	499.3
105°	3.2	114.0	292.2	423.8	472.0
107.5°	3.2	109.2	274.5	401.3	446.3
110°	3.2	104.3	255.2	378.9	423.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	101.1	240.8	359.6	402.9
115°	3.2	97.9	226.3	337.1	380.5
117.5°	3.2	96.3	218.3	319.5	361.2
120°	4.8	91.5	208.7	303.4	343.5
122.5°	4.8	86.7	199.1	290.6	325.9
125°	4.8	83.5	191.0	276.1	311.4
127.5°	4.8	78.7	183.0	263.3	295.4
130°	4.8	73.8	176.6	250.4	280.9
132.5°	4.8	69.0	168.6	237.6	266.5
135°	4.8	64.2	158.9	224.7	252.0
137.5°	4.8	59.4	149.3	211.9	237.6
140°	4.8	54.6	136.5	199.1	223.1
142.5°	4.8	49.8	123.6	186.2	207.1
145°	6.4	46.6	110.8	171.8	192.6
147.5°	6.4	41.7	97.9	157.3	175.0
150°	6.4	38.5	88.3	142.9	158.9
152.5°	6.4	33.7	78.7	126.8	142.9
155°	6.4	30.5	67.4	109.2	126.8
157.5°	6.4	27.3	57.8	91.5	110.8
160°	6.4	25.7	49.8	75.4	94.7
162.5°	8.0	22.5	41.7	61.0	78.7
165°	8.0	19.3	35.3	48.2	64.2
167.5°	8.0	16.1	28.9	36.9	49.8
170°	8.0	12.8	22.5	25.7	38.5
172.5°	8.0	9.6	16.1	17.7	19.3
175°	8.0	8.0	9.6	9.6	4.8
177.5°	8.0	8.0	6.4	4.8	1.6
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)