

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: P566944

Luminaire Tested: **4SNX-87HL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566944
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-L840-CD
Description: 4FT 8700 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

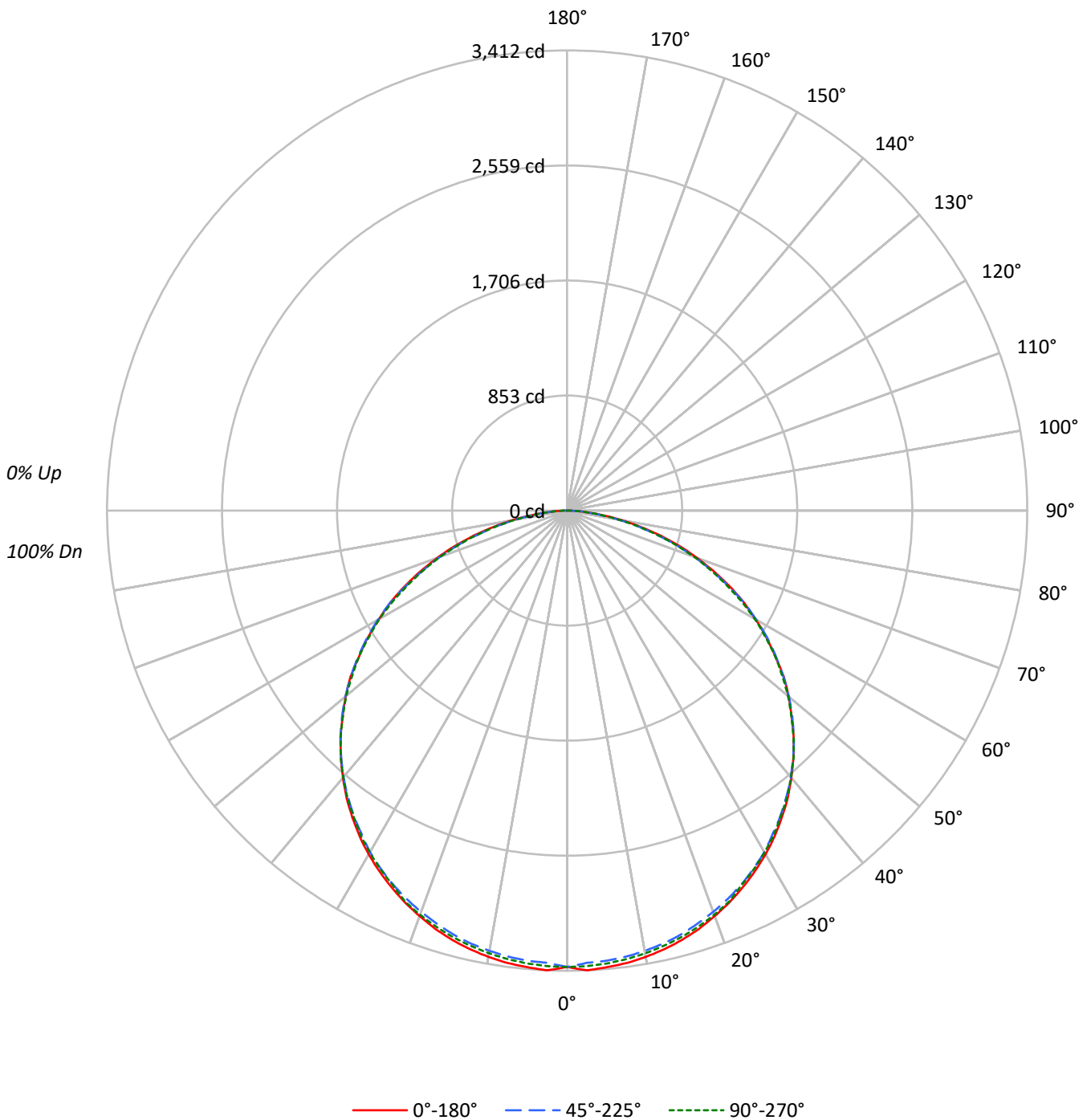
Lumens per Lamp: N/A
Luminaire Lumens: 10129.0 lumens
Efficiency: N/A
Efficacy: 162.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P566944

CATALOG NUMBER: 4SNX-87HL-UNV-L840-CD

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36423	36423	36423
5°	36717	36205	36423
10°	36733	36233	36436
15°	36718	36271	36479
20°	36644	36267	36529
25°	36599	36311	36378
30°	36575	36344	36380
35°	36485	36259	36316
40°	36338	36258	36278
45°	36141	36207	36141
50°	35898	35970	35777
55°	35337	35527	35337
60°	34742	34897	34589
65°	33882	33482	33116
70°	32268	31547	31456
75°	29777	28347	28467
80°	25477	23877	24324
85°	18921	18575	17327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	3.2
10°-20°	925.3	9.1
20°-30°	1416.5	14.0
30°-40°	1732.8	17.1
40°-50°	1832.7	18.1
50°-60°	1688.6	16.7
60°-70°	1299.7	12.8
70°-80°	730.2	7.2
80°-90°	182.2	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°	2662.9	26.3
0°-40°	4395.6	43.4
0°-60°	7917.0	78.2
0°-90°	10129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3384	3384	3384	3384	3384	
5°	3398	3388	3351	3381	3371	323
15°	3295	3286	3255	3284	3274	930
25°	3082	3079	3057	3079	3063	1421
35°	2777	2772	2759	2772	2764	1738
45°	2374	2381	2378	2373	2374	1831
55°	1883	1900	1893	1887	1883	1686
65°	1330	1333	1315	1296	1300	1312
75°	716	704	682	672	684	754
85°	153	150	150	146	140	189
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3383.8	3383.8	3383.8	3383.8	3383.8
2.5°	3412.4	3393.8	3356.5	3389.5	3380.9
5°	3398.1	3388.0	3350.8	3380.9	3370.9
7.5°	3383.8	3372.3	3336.5	3369.4	3355.1
10°	3360.8	3350.8	3315.0	3346.5	3333.6
12.5°	3330.8	3322.2	3289.2	3319.3	3306.4
15°	3295.0	3286.4	3254.9	3283.5	3273.5
17.5°	3252.0	3242.0	3211.9	3242.0	3234.8
20°	3199.0	3193.3	3166.1	3193.3	3189.0
22.5°	3144.6	3137.5	3116.0	3136.0	3137.5
25°	3081.6	3078.7	3057.3	3078.7	3063.0
27.5°	3015.7	3015.7	2994.3	3008.6	2998.6
30°	2942.7	2941.3	2924.1	2931.3	2927.0
32.5°	2863.9	2862.5	2839.6	2858.2	2851.1
35°	2776.6	2772.3	2759.4	2772.3	2763.7
37.5°	2686.4	2682.1	2672.1	2679.2	2677.8
40°	2586.1	2586.1	2580.4	2586.1	2581.8
42.5°	2483.0	2487.3	2480.2	2485.9	2485.9
45°	2374.2	2381.4	2378.5	2372.8	2374.2
47.5°	2258.2	2271.1	2264.0	2262.5	2255.4
50°	2143.7	2155.1	2148.0	2140.8	2136.5
52.5°	2024.8	2030.5	2021.9	2019.1	2009.1
55°	1883.0	1900.2	1893.1	1887.3	1883.0
57.5°	1752.7	1765.6	1759.9	1748.4	1741.3
60°	1613.8	1623.9	1621.0	1608.1	1606.7
62.5°	1477.8	1480.7	1477.8	1454.9	1456.3
65°	1330.3	1333.2	1314.6	1295.9	1300.2
67.5°	1175.7	1184.2	1158.5	1131.3	1149.9
70°	1025.3	1022.4	1002.4	972.3	999.5
72.5°	870.6	867.8	844.9	823.4	842.0
75°	716.0	704.5	681.6	671.6	684.5
77.5°	555.6	542.7	532.7	525.5	531.3
80°	411.0	393.8	385.2	379.5	392.4
82.5°	273.5	260.6	256.3	260.6	257.8
85°	153.2	150.4	150.4	146.1	140.3
87.5°	63.0	65.9	67.3	65.9	63.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)