

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: P566846

Luminaire Tested: **4SNX-81HL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566846
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-81HL-UNV-L830-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

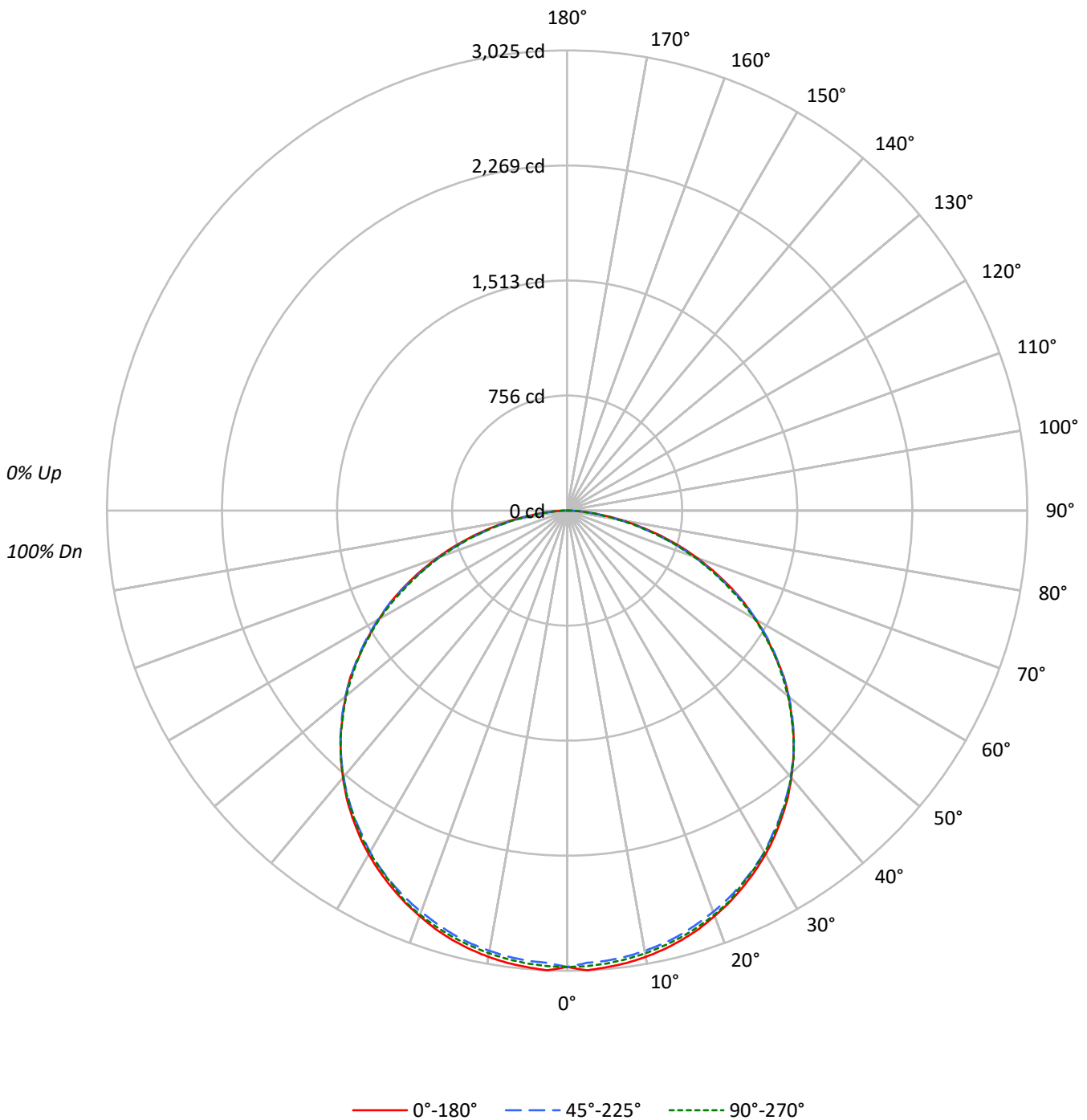
Lumens per Lamp: N/A
Luminaire Lumens: 8980.0 lumens
Efficiency: N/A
Efficacy: 163.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 55.1
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	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°	32291	32291	32291
5°	32551	32099	32291
10°	32567	32123	32304
15°	32553	32157	32341
20°	32487	32152	32386
25°	32447	32192	32251
30°	32426	32221	32252
35°	32346	32146	32196
40°	32217	32145	32163
45°	32042	32100	32042
50°	31825	31889	31718
55°	31328	31496	31328
60°	30802	30938	30664
65°	30039	29682	29359
70°	28608	27969	27887
75°	26400	25132	25236
80°	22588	21169	21565
85°	16772	16463	15364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	3.2
10°-20°	820.3	9.1
20°-30°	1255.8	14.0
30°-40°	1536.2	17.1
40°-50°	1624.8	18.1
50°-60°	1497.1	16.7
60°-70°	1152.2	12.8
70°-80°	647.4	7.2
80°-90°	161.5	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°	2360.8	26.3
0°-40°	3897.0	43.4
0°-60°	7018.9	78.2
0°-90°	8980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3000	3000	3000	3000	3000	
5°	3013	3004	2971	2997	2988	287
15°	2921	2914	2886	2911	2902	825
25°	2732	2730	2710	2730	2716	1260
35°	2462	2458	2446	2458	2450	1540
45°	2105	2111	2109	2104	2105	1623
55°	1669	1685	1678	1673	1669	1495
65°	1179	1182	1165	1149	1153	1163
75°	635	625	604	595	607	669
85°	136	133	133	130	124	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2999.9	2999.9	2999.9	2999.9	2999.9
2.5°	3025.3	3008.8	2975.8	3005.0	2997.4
5°	3012.6	3003.7	2970.7	2997.4	2988.5
7.5°	2999.9	2989.8	2958.0	2987.2	2974.5
10°	2979.6	2970.7	2939.0	2966.9	2955.5
12.5°	2952.9	2945.3	2916.1	2942.8	2931.4
15°	2921.2	2913.6	2885.7	2911.0	2902.2
17.5°	2883.1	2874.2	2847.6	2874.2	2867.9
20°	2836.1	2831.1	2806.9	2831.1	2827.3
22.5°	2787.9	2781.6	2762.5	2780.3	2781.6
25°	2732.0	2729.5	2710.5	2729.5	2715.5
27.5°	2673.6	2673.6	2654.6	2667.3	2658.4
30°	2608.9	2607.6	2592.4	2598.7	2594.9
32.5°	2539.1	2537.8	2517.5	2534.0	2527.6
35°	2461.6	2457.8	2446.4	2457.8	2450.2
37.5°	2381.6	2377.8	2369.0	2375.3	2374.0
40°	2292.8	2292.8	2287.7	2292.8	2289.0
42.5°	2201.4	2205.2	2198.8	2203.9	2203.9
45°	2104.9	2111.2	2108.7	2103.6	2104.9
47.5°	2002.1	2013.5	2007.1	2005.9	1999.5
50°	1900.5	1910.7	1904.3	1898.0	1894.1
52.5°	1795.1	1800.2	1792.6	1790.0	1781.2
55°	1669.4	1684.7	1678.3	1673.2	1669.4
57.5°	1553.9	1565.3	1560.3	1550.1	1543.8
60°	1430.8	1439.7	1437.1	1425.7	1424.4
62.5°	1310.2	1312.7	1310.2	1289.8	1291.1
65°	1179.4	1181.9	1165.4	1148.9	1152.7
67.5°	1042.3	1049.9	1027.1	1002.9	1019.4
70°	909.0	906.4	888.7	862.0	886.1
72.5°	771.9	769.3	749.0	730.0	746.5
75°	634.8	624.6	604.3	595.4	606.8
77.5°	492.6	481.2	472.3	465.9	471.0
80°	364.4	349.1	341.5	336.4	347.9
82.5°	242.5	231.1	227.2	231.1	228.5
85°	135.8	133.3	133.3	129.5	124.4
87.5°	55.9	58.4	59.7	58.4	55.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)