

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: P566847

Luminaire Tested: **4SNX-81HL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566847
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-L835-CD
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

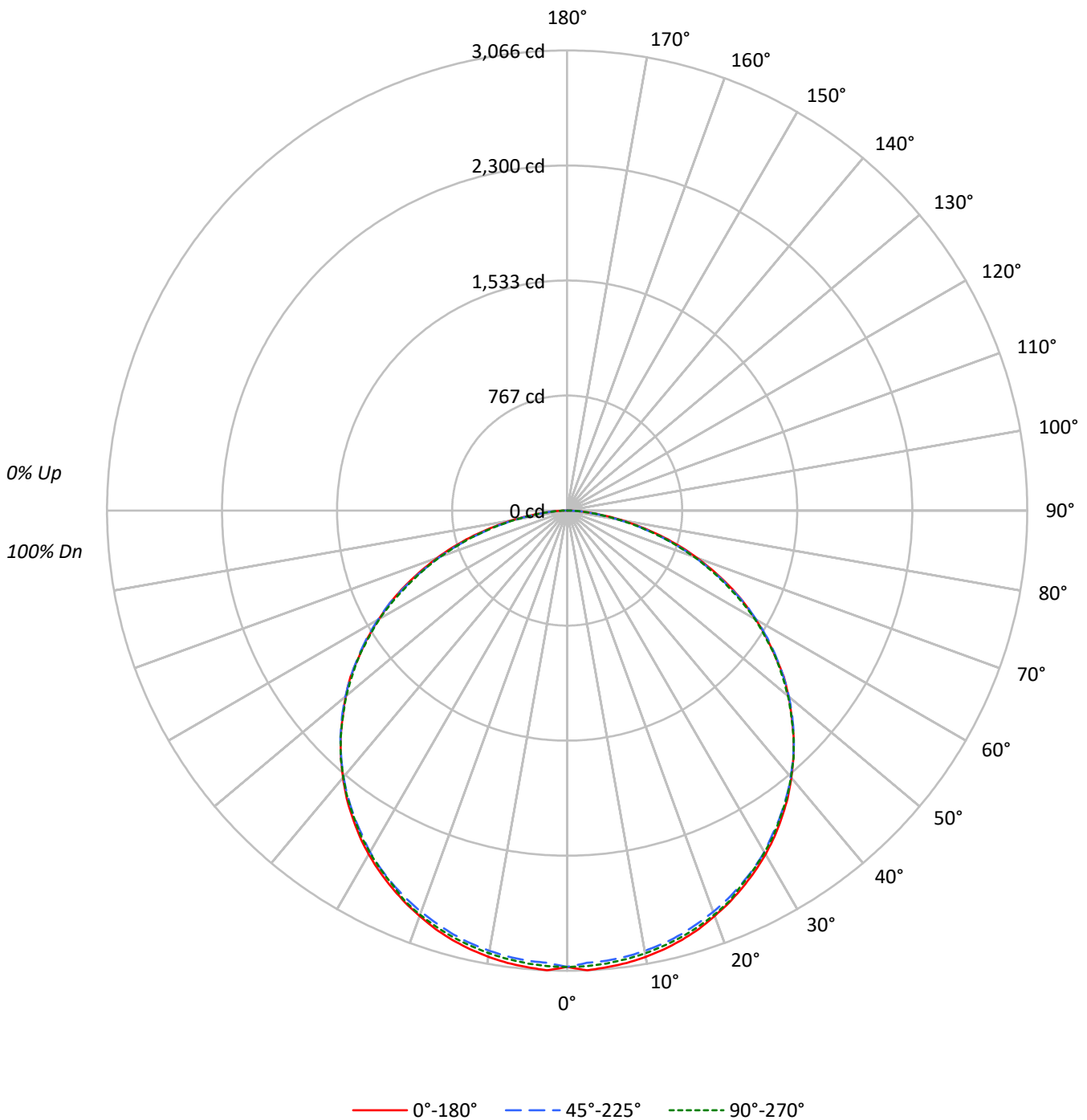
Lumens per Lamp: N/A
Luminaire Lumens: 9101.0 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 55.1
Input Voltage (V): NR
Input Current (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: P566847

CATALOG NUMBER: 4SNX-81HL-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566847

CATALOG NUMBER: 4SNX-81HL-UNV-L835-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	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°	32726	32726	32726
5°	32990	32531	32726
10°	33005	32556	32739
15°	32992	32590	32777
20°	32925	32586	32822
25°	32885	32625	32686
30°	32863	32655	32687
35°	32782	32580	32630
40°	32651	32578	32596
45°	32474	32532	32474
50°	32254	32319	32147
55°	31751	31920	31751
60°	31215	31355	31078
65°	30444	30082	29756
70°	28992	28343	28265
75°	26754	25469	25577
80°	22892	21454	21850
85°	17006	16685	15574



TEST NUMBER: P566847

CATALOG NUMBER: 4SNX-81HL-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	3.2
10°-20°	831.4	9.1
20°-30°	1272.7	14.0
30°-40°	1556.9	17.1
40°-50°	1646.7	18.1
50°-60°	1517.3	16.7
60°-70°	1167.8	12.8
70°-80°	656.1	7.2
80°-90°	163.7	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°	2392.6	26.3
0°-40°	3949.5	43.4
0°-60°	7113.5	78.2
0°-90°	9101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3040	3040	3040	3040	3040	
5°	3053	3044	3011	3038	3029	290
15°	2961	2953	2924	2950	2941	836
25°	2769	2766	2747	2766	2752	1277
35°	2495	2491	2479	2491	2483	1561
45°	2133	2140	2137	2132	2133	1645
55°	1692	1707	1701	1696	1692	1515
65°	1195	1198	1181	1164	1168	1179
75°	643	633	612	603	615	678
85°	138	135	135	131	126	170
90°	0	0	0	0	0	



TEST NUMBER: P566847

CATALOG NUMBER: 4SNX-81HL-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3040.3	3040.3	3040.3	3040.3	3040.3
2.5°	3066.1	3049.3	3015.9	3045.5	3037.8
5°	3053.2	3044.2	3010.7	3037.8	3028.8
7.5°	3040.3	3030.0	2997.9	3027.5	3014.6
10°	3019.7	3010.7	2978.6	3006.9	2995.3
12.5°	2992.7	2985.0	2955.4	2982.4	2970.9
15°	2960.6	2952.8	2924.5	2950.3	2941.3
17.5°	2922.0	2913.0	2885.9	2913.0	2906.5
20°	2874.4	2869.2	2844.8	2869.2	2865.4
22.5°	2825.5	2819.0	2799.7	2817.7	2819.0
25°	2768.9	2766.3	2747.0	2766.3	2752.1
27.5°	2709.7	2709.7	2690.4	2703.2	2694.2
30°	2644.0	2642.8	2627.3	2633.8	2629.9
32.5°	2573.3	2572.0	2551.4	2568.1	2561.7
35°	2494.8	2490.9	2479.4	2490.9	2483.2
37.5°	2413.7	2409.9	2400.9	2407.3	2406.0
40°	2323.7	2323.7	2318.5	2323.7	2319.8
42.5°	2231.0	2234.9	2228.5	2233.6	2233.6
45°	2133.3	2139.7	2137.1	2132.0	2133.3
47.5°	2029.0	2040.6	2034.2	2032.9	2026.5
50°	1926.1	1936.4	1930.0	1923.5	1919.7
52.5°	1819.3	1824.5	1816.7	1814.2	1805.2
55°	1691.9	1707.4	1700.9	1695.8	1691.9
57.5°	1574.8	1586.4	1581.3	1571.0	1564.6
60°	1450.0	1459.1	1456.5	1444.9	1443.6
62.5°	1327.8	1330.4	1327.8	1307.2	1308.5
65°	1195.3	1197.9	1181.1	1164.4	1168.3
67.5°	1056.3	1064.1	1040.9	1016.4	1033.2
70°	921.2	918.7	900.6	873.6	898.1
72.5°	782.3	779.7	759.1	739.8	756.5
75°	643.3	633.0	612.4	603.4	615.0
77.5°	499.2	487.6	478.6	472.2	477.3
80°	369.3	353.8	346.1	341.0	352.5
82.5°	245.7	234.2	230.3	234.2	231.6
85°	137.7	135.1	135.1	131.2	126.1
87.5°	56.6	59.2	60.5	59.2	56.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)