

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: P566823

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

Issue Date: 9/15/2022



**Test Information**

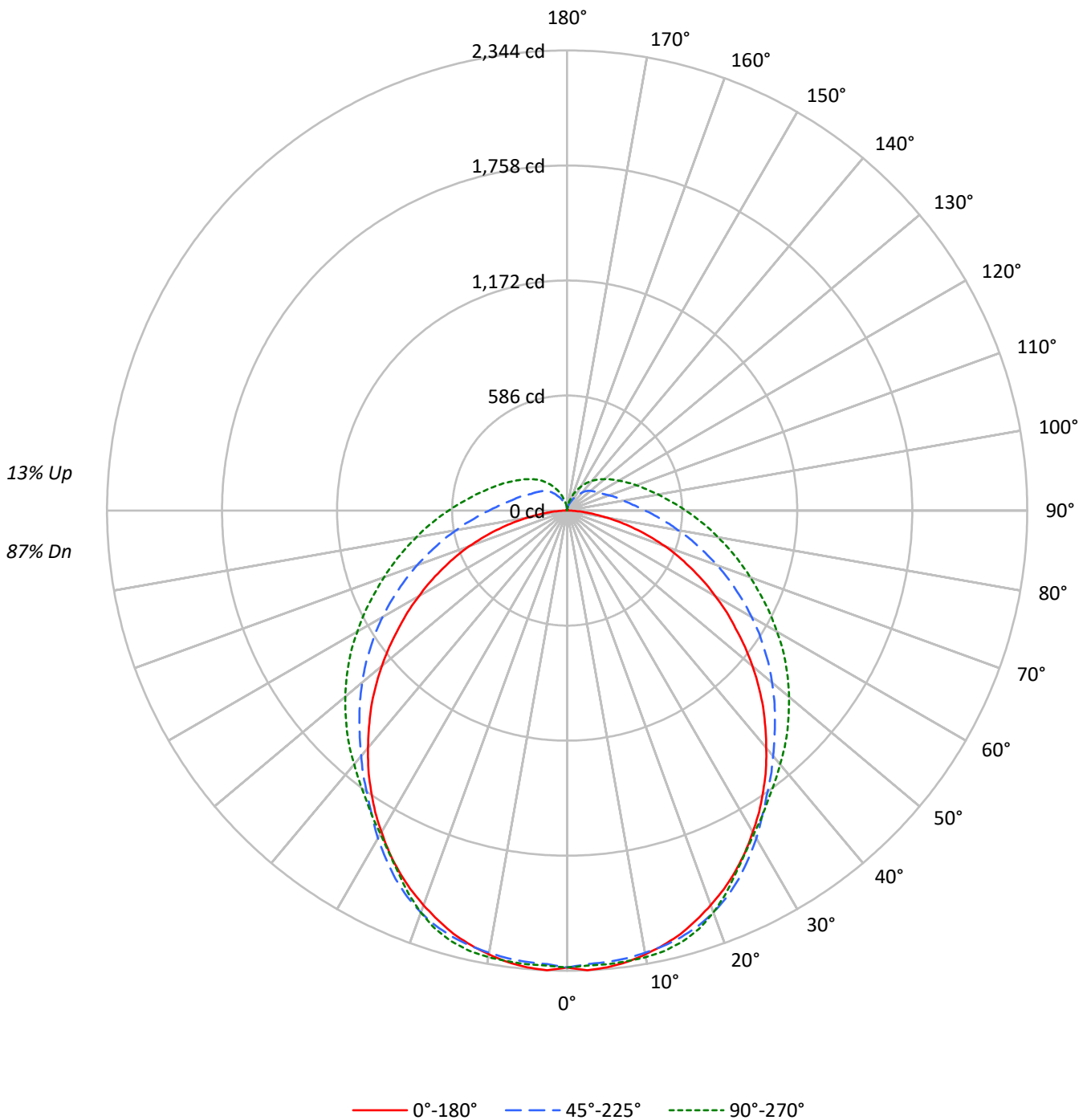
Test Method: LM-79-08  
Report Number: P566823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-81HL-LN-UNV-L835-CD  
Description: 4FT 8100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8400.0 lumens  
Efficiency: N/A  
Efficacy: 152.5 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): 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

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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	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°	25048	25048	25048
5°	25143	23895	23684
10°	24908	22969	22591
15°	24609	22093	21489
20°	24136	21110	20085
25°	23626	19922	18437
30°	22954	18590	17063
35°	22238	17235	16036
40°	21423	16146	15205
45°	20624	15180	14489
50°	19675	14292	13768
55°	18564	13399	13061
60°	17499	12509	12322
65°	16315	11612	11644
70°	14961	10771	11032
75°	12863	9949	10527
80°	10138	9240	10100
85°	6793	8734	9854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.1	2.6
10°-20°	635.6	7.6
20°-30°	946.4	11.3
30°-40°	1116.7	13.3
40°-50°	1164.6	13.9
50°-60°	1094.4	13.0
60°-70°	924.3	11.0
70°-80°	698.3	8.3
80°-90°	481.4	5.7
90°-100°	336.9	4.0
100°-110°	251.4	3.0
110°-120°	189.5	2.3
120°-130°	141.3	1.7
130°-140°	99.2	1.2
140°-150°	60.0	0.7
150°-160°	28.7	0.3
160°-170°	9.2	0.1
170°-180°	1.1	0.0
0°-30°	1803.0	21.5
0°-40°	2919.7	34.8
0°-60°	5178.8	61.7
0°-90°	7282.8	86.7
90°-120°	777.7	9.3
90°-150°	1078.3	12.8
90°-180°	1117.0	13.3
0°-180°	8400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2327	2327	2327	2327	2327	
5°	2336	2331	2308	2326	2320	222
15°	2233	2243	2249	2277	2273	629
25°	2028	2069	2069	2051	2035	933
35°	1742	1806	1772	1786	1790	1089
45°	1411	1481	1497	1558	1586	1087
55°	1048	1138	1225	1323	1359	940
65°	698	809	946	1070	1111	693
75°	357	496	686	830	883	381
85°	81	255	476	632	688	91
90°	1	181	397	550	604	6
95°	1	141	336	481	531	1
105°	3	101	259	376	419	3
115°	3	87	201	299	338	3
125°	4	74	170	245	276	4
135°	4	57	141	199	224	3
145°	6	41	98	152	171	3
155°	6	27	60	97	112	3
165°	7	17	31	43	57	2
175°	7	7	8	8	4	1
180°	4	4	4	4	4	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2327.0	2327.0	2327.0	2327.0	2327.0
2.5°	2344.0	2338.3	2312.7	2327.0	2319.8
5°	2335.5	2331.2	2308.4	2325.5	2319.8
7.5°	2319.8	2318.4	2301.3	2321.3	2315.6
10°	2295.6	2299.9	2287.1	2314.1	2309.9
12.5°	2267.1	2275.7	2271.4	2301.3	2297.1
15°	2233.0	2242.9	2248.6	2277.1	2272.8
17.5°	2187.4	2205.9	2218.7	2241.5	2234.4
20°	2139.0	2164.6	2178.9	2190.2	2178.9
22.5°	2086.3	2120.5	2129.0	2123.3	2111.9
25°	2027.9	2069.2	2069.2	2050.7	2035.0
27.5°	1962.4	2013.7	1999.4	1978.1	1965.2
30°	1891.2	1952.4	1928.2	1904.0	1901.2
32.5°	1820.0	1884.1	1848.5	1842.8	1847.0
35°	1741.7	1805.7	1771.6	1785.8	1790.1
37.5°	1663.3	1727.4	1704.6	1726.0	1738.8
40°	1577.9	1646.2	1632.0	1670.5	1687.5
42.5°	1493.9	1565.1	1563.6	1613.5	1639.1
45°	1411.3	1481.0	1496.7	1557.9	1586.4
47.5°	1321.6	1392.8	1431.2	1502.4	1530.9
50°	1233.3	1310.2	1362.9	1442.6	1475.4
52.5°	1142.1	1223.3	1295.9	1384.2	1418.4
55°	1048.1	1137.8	1224.7	1323.0	1358.6
57.5°	964.1	1055.2	1157.8	1258.9	1300.2
60°	871.5	972.7	1085.2	1192.0	1233.3
62.5°	787.5	891.5	1016.8	1129.3	1173.4
65°	697.8	808.9	945.6	1069.5	1110.8
67.5°	615.2	729.1	878.7	1004.0	1049.6
70°	529.8	650.8	813.2	945.6	992.6
72.5°	441.5	569.6	747.6	888.6	937.0
75°	357.4	495.6	686.4	830.2	882.9
77.5°	279.1	424.4	630.9	779.0	830.2
80°	202.2	360.3	572.5	726.3	779.0
82.5°	133.9	304.8	525.5	679.3	734.8
85°	81.2	254.9	475.6	632.3	687.8
87.5°	37.0	213.6	435.8	591.0	645.1
90°	1.4	180.9	397.3	549.7	603.8
92.5°	1.4	158.1	366.0	514.1	566.8
95°	1.4	141.0	336.1	481.3	531.2
97.5°	1.4	129.6	313.3	450.0	498.4
100°	1.4	118.2	290.5	421.5	471.4
102.5°	2.8	108.2	273.4	395.9	442.9
105°	2.8	101.1	259.2	376.0	418.7
107.5°	2.8	96.8	243.5	356.0	395.9
110°	2.8	92.6	226.4	336.1	376.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	89.7	213.6	319.0	357.4
115°	2.8	86.9	200.8	299.1	337.5
117.5°	2.8	85.4	193.7	283.4	320.4
120°	4.3	81.2	185.1	269.2	304.8
122.5°	4.3	76.9	176.6	257.8	289.1
125°	4.3	74.1	169.5	244.9	276.3
127.5°	4.3	69.8	162.3	233.6	262.0
130°	4.3	65.5	156.6	222.2	249.2
132.5°	4.3	61.2	149.5	210.8	236.4
135°	4.3	57.0	141.0	199.4	223.6
137.5°	4.3	52.7	132.4	188.0	210.8
140°	4.3	48.4	121.0	176.6	197.9
142.5°	4.3	44.1	109.7	165.2	183.7
145°	5.7	41.3	98.3	152.4	170.9
147.5°	5.7	37.0	86.9	139.6	155.2
150°	5.7	34.2	78.3	126.7	141.0
152.5°	5.7	29.9	69.8	112.5	126.7
155°	5.7	27.1	59.8	96.8	112.5
157.5°	5.7	24.2	51.3	81.2	98.3
160°	5.7	22.8	44.1	66.9	84.0
162.5°	7.1	19.9	37.0	54.1	69.8
165°	7.1	17.1	31.3	42.7	57.0
167.5°	7.1	14.2	25.6	32.8	44.1
170°	7.1	11.4	19.9	22.8	34.2
172.5°	7.1	8.5	14.2	15.7	17.1
175°	7.1	7.1	8.5	8.5	4.3
177.5°	7.1	7.1	5.7	4.3	1.4
180°	4.3	4.3	4.3	4.3	4.3

(END OF REPORT)