

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: P565991

Luminaire Tested: **4SNX-104HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P565991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNX-104HL-FDL-UNV-L835-CD  
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

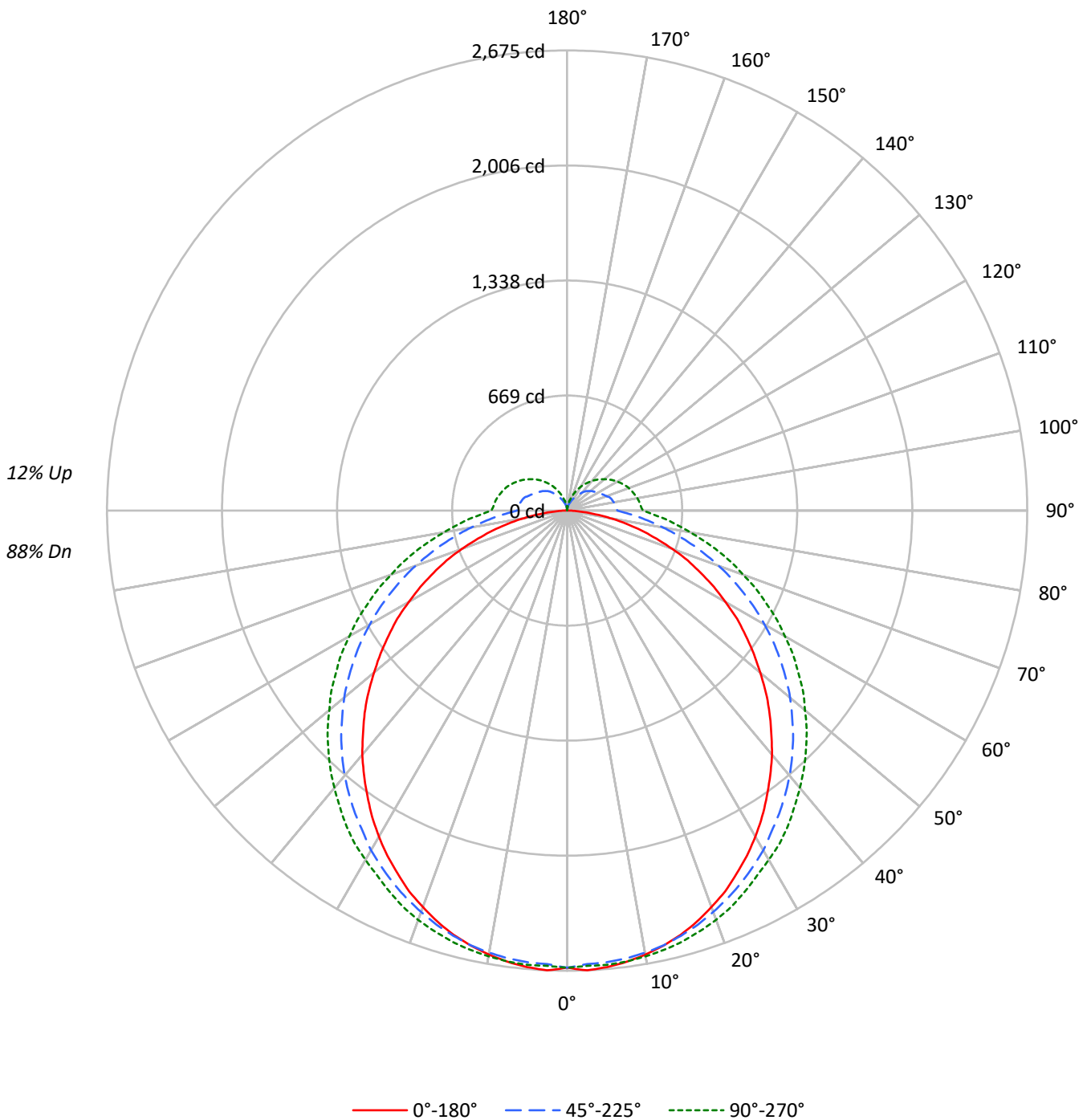
Lumens per Lamp: N/A  
Luminaire Lumens: 9566.0 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.04')  
CIE Type: Semi-Direct

Input Watts (W): 75.5  
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	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	28601	28601	28601
5°	28754	28171	28227
10°	28595	27907	27935
15°	28362	27589	27662
20°	27984	27207	27351
25°	27532	26819	26934
30°	27040	26431	26579
35°	26413	25965	26331
40°	25807	25578	25949
45°	25075	25132	25627
50°	24223	24657	25220
55°	23415	24070	24856
60°	22483	23446	24410
65°	21343	22728	23976
70°	19897	21941	23480
75°	17838	21079	23312
80°	14960	20545	23125
85°	10849	20969	24373



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.3	2.6
10°-20°	725.6	7.6
20°-30°	1103.8	11.5
30°-40°	1342.2	14.0
40°-50°	1420.0	14.8
50°-60°	1331.0	13.9
60°-70°	1095.0	11.4
70°-80°	757.7	7.9
80°-90°	421.3	4.4
90°-100°	277.5	2.9
100°-110°	248.9	2.6
110°-120°	206.0	2.2
120°-130°	159.3	1.7
130°-140°	112.7	1.2
140°-150°	68.0	0.7
150°-160°	32.7	0.3
160°-170°	10.7	0.1
170°-180°	1.3	0.0
0°-30°	2081.7	21.8
0°-40°	3423.9	35.8
0°-60°	6174.9	64.6
0°-90°	8448.9	88.3
90°-120°	732.4	7.7
90°-150°	1072.5	11.2
90°-180°	1117.0	11.7
0°-180°	9566.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2657	2657	2657	2657	2657	
5°	2664	2659	2636	2657	2650	253
15°	2552	2560	2559	2593	2593	719
25°	2329	2362	2390	2442	2444	1074
35°	2025	2079	2149	2218	2238	1267
45°	1664	1751	1858	1941	1964	1283
55°	1266	1379	1512	1607	1640	1134
65°	857	980	1132	1243	1278	849
75°	446	575	744	862	909	473
85°	98	244	413	528	573	113
90°	2	138	292	401	441	6
95°	2	131	283	388	426	1
105°	2	113	265	365	398	2
115°	3	98	224	324	360	3
125°	3	84	192	277	311	3
135°	3	66	160	228	256	3
145°	3	48	111	172	193	2
155°	5	33	69	110	128	2
165°	5	21	38	51	66	1
175°	5	8	12	12	7	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2657.1	2657.1	2657.1	2657.1	2657.1
2.5°	2675.1	2666.9	2639.0	2657.1	2648.9
5°	2663.6	2658.7	2635.8	2657.1	2650.5
7.5°	2645.6	2644.0	2625.9	2650.5	2644.0
10°	2621.0	2624.3	2609.6	2635.8	2630.9
12.5°	2589.9	2594.8	2588.3	2617.7	2614.5
15°	2552.2	2560.4	2558.8	2593.2	2593.2
17.5°	2506.4	2517.8	2524.4	2563.7	2563.7
20°	2452.3	2470.3	2483.4	2526.0	2532.6
22.5°	2398.2	2419.5	2439.2	2483.4	2493.3
25°	2329.4	2362.2	2390.0	2442.5	2444.1
27.5°	2262.3	2298.3	2336.0	2386.8	2391.7
30°	2188.6	2234.4	2280.3	2329.4	2344.2
32.5°	2109.9	2160.7	2211.5	2277.0	2296.7
35°	2024.7	2078.8	2149.2	2218.0	2237.7
37.5°	1939.6	2000.2	2082.1	2152.5	2170.5
40°	1852.7	1919.9	2011.6	2083.7	2105.0
42.5°	1756.1	1838.0	1936.3	2013.3	2037.8
45°	1664.4	1751.2	1857.7	1941.2	1964.1
47.5°	1567.7	1659.4	1774.1	1862.6	1888.8
50°	1464.5	1569.3	1692.2	1780.7	1805.2
52.5°	1367.8	1474.3	1603.7	1695.5	1729.9
55°	1266.3	1379.3	1512.0	1607.0	1639.8
57.5°	1171.3	1279.4	1421.9	1516.9	1557.9
60°	1063.2	1182.7	1325.3	1428.5	1461.2
62.5°	961.6	1082.8	1230.2	1336.7	1374.4
65°	856.7	979.6	1132.0	1243.3	1277.8
67.5°	758.5	879.7	1035.3	1145.1	1189.3
70°	650.3	778.1	937.0	1050.0	1087.7
72.5°	543.9	676.6	838.7	960.0	1002.5
75°	445.6	575.0	743.7	861.7	909.2
77.5°	350.6	481.6	652.0	773.2	814.2
80°	255.6	393.2	566.8	686.4	725.7
82.5°	168.7	312.9	484.9	604.5	647.1
85°	98.3	244.1	412.8	527.5	573.3
87.5°	42.6	185.1	345.6	458.7	496.4
90°	1.6	137.6	291.6	401.3	440.7
92.5°	1.6	134.3	285.0	393.2	430.8
95°	1.6	131.1	283.4	388.2	425.9
97.5°	1.6	129.4	280.1	385.0	421.0
100°	1.6	124.5	275.2	378.4	414.4
102.5°	1.6	117.9	270.3	371.9	406.3
105°	1.6	113.0	265.4	365.3	398.1
107.5°	1.6	108.1	257.2	357.1	389.9
110°	1.6	103.2	244.1	348.9	381.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	101.6	234.3	337.5	371.9
115°	3.3	98.3	224.4	324.4	360.4
117.5°	3.3	96.7	216.2	311.2	348.9
120°	3.3	91.7	208.0	299.8	335.8
122.5°	3.3	86.8	199.9	288.3	324.4
125°	3.3	83.5	191.7	276.8	311.2
127.5°	3.3	78.6	185.1	265.4	296.5
130°	3.3	75.4	176.9	252.3	283.4
132.5°	3.3	70.4	168.7	239.2	268.7
135°	3.3	65.5	160.5	227.7	255.6
137.5°	3.3	59.0	150.7	214.6	240.8
140°	3.3	54.1	137.6	201.5	226.1
142.5°	3.3	50.8	124.5	186.7	209.7
145°	3.3	47.5	111.4	172.0	193.3
147.5°	3.3	44.2	99.9	157.3	176.9
150°	3.3	39.3	88.5	144.2	160.5
152.5°	4.9	36.0	78.6	127.8	144.2
155°	4.9	32.8	68.8	109.8	127.8
157.5°	4.9	29.5	59.0	91.7	111.4
160°	4.9	26.2	50.8	75.4	95.0
162.5°	4.9	24.6	44.2	62.2	80.3
165°	4.9	21.3	37.7	50.8	65.5
167.5°	4.9	16.4	31.1	39.3	54.1
170°	4.9	13.1	24.6	27.8	41.0
172.5°	4.9	9.8	18.0	19.7	21.3
175°	4.9	8.2	11.5	11.5	6.6
177.5°	4.9	6.6	6.6	6.6	3.3
180°	3.3	3.3	3.3	3.3	3.3

(END OF REPORT)