

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: P566023

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P566023  
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-SLW-UNV-L835-CD  
Description: 4FT 10400 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

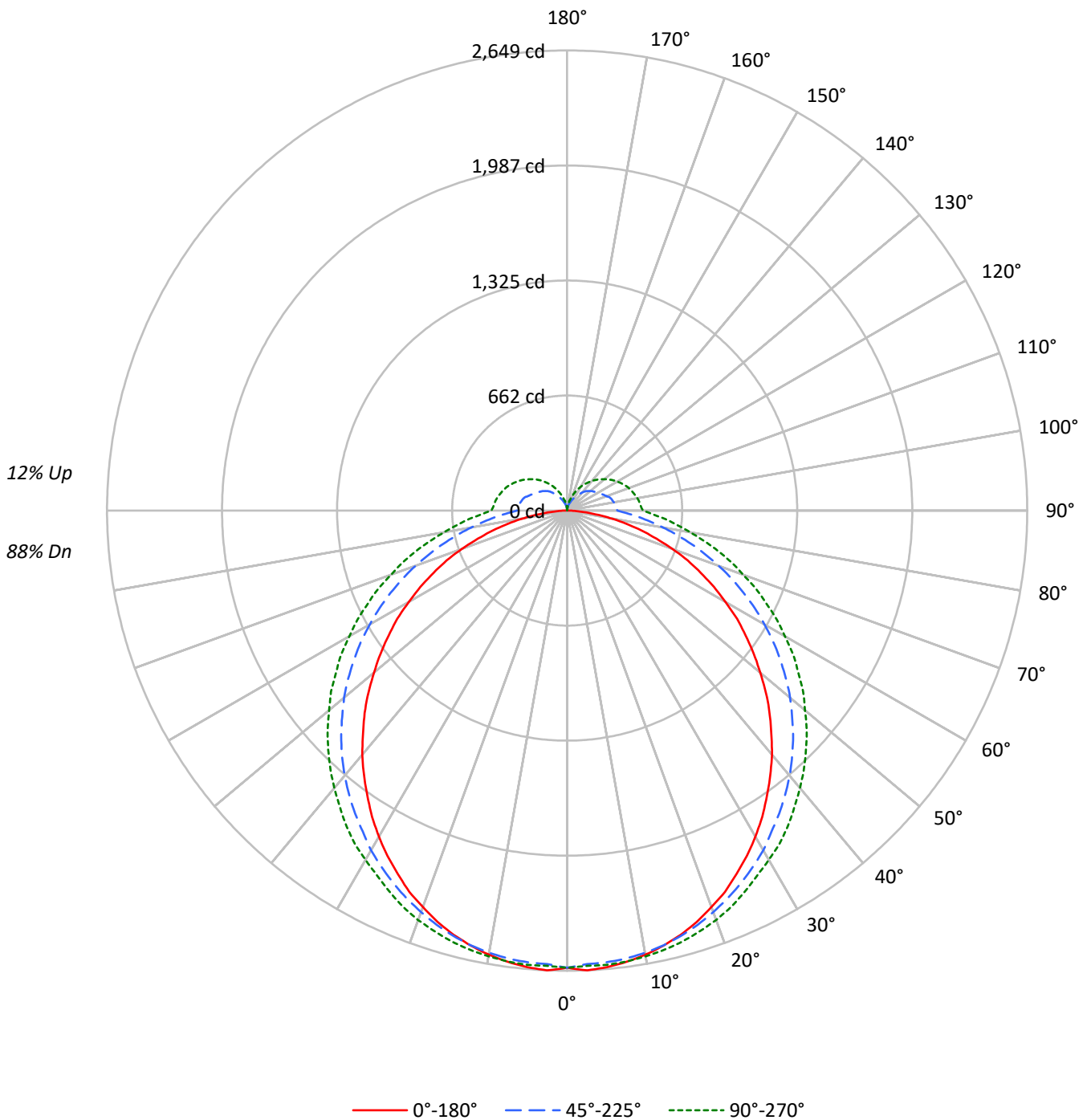
Lumens per Lamp: N/A  
Luminaire Lumens: 9474.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 75.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	28325	28325	28325
5°	28452	27603	27563
10°	28269	27058	26904
15°	28012	26471	26281
20°	27612	25828	25633
25°	27137	25184	24895
30°	26621	24536	24214
35°	25973	23812	23629
40°	25341	23149	22911
45°	24581	22415	22230
50°	23702	21633	21452
55°	22857	20721	20674
60°	21880	19731	19780
65°	20690	18603	18827
70°	19178	17330	17731
75°	17034	15865	16724
80°	14037	14410	15453
85°	9713	13110	14625



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.8	2.6
10°-20°	718.6	7.6
20°-30°	1093.2	11.5
30°-40°	1329.3	14.0
40°-50°	1406.3	14.8
50°-60°	1318.2	13.9
60°-70°	1084.5	11.4
70°-80°	750.4	7.9
80°-90°	417.2	4.4
90°-100°	274.9	2.9
100°-110°	246.5	2.6
110°-120°	204.0	2.2
120°-130°	157.7	1.7
130°-140°	111.7	1.2
140°-150°	67.3	0.7
150°-160°	32.3	0.3
160°-170°	10.6	0.1
170°-180°	1.3	0.0
0°-30°	2061.7	21.8
0°-40°	3391.0	35.8
0°-60°	6115.5	64.6
0°-90°	8367.6	88.3
90°-120°	725.4	7.7
90°-150°	1062.1	11.2
90°-180°	1106.0	11.7
0°-180°	9474.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2632	2632	2632	2632	2632	
5°	2638	2633	2610	2632	2625	250
15°	2528	2536	2534	2568	2568	712
25°	2307	2340	2367	2419	2421	1063
35°	2005	2059	2129	2197	2216	1255
45°	1648	1734	1840	1922	1945	1270
55°	1254	1366	1498	1592	1624	1123
65°	848	970	1121	1231	1266	841
75°	441	570	737	853	900	468
85°	97	242	409	522	568	112
90°	2	136	289	398	436	6
95°	2	130	281	384	422	1
105°	2	112	263	362	394	2
115°	3	97	222	321	357	3
125°	3	83	190	274	308	3
135°	3	65	159	226	253	2
145°	3	47	110	170	191	2
155°	5	32	68	109	126	2
165°	5	21	37	50	65	1
175°	5	8	11	11	6	0
180°	3	3	3	3	3	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2631.5	2631.5	2631.5	2631.5	2631.5
2.5°	2649.4	2641.2	2613.7	2631.5	2623.4
5°	2638.0	2633.1	2610.4	2631.5	2625.0
7.5°	2620.2	2618.5	2600.7	2625.0	2618.5
10°	2595.8	2599.1	2584.5	2610.4	2605.6
12.5°	2565.0	2569.9	2563.4	2592.6	2589.3
15°	2527.7	2535.8	2534.2	2568.2	2568.2
17.5°	2482.3	2493.6	2500.1	2539.0	2539.0
20°	2428.7	2446.6	2459.5	2501.7	2508.2
22.5°	2375.2	2396.3	2415.7	2459.5	2469.3
25°	2307.0	2339.5	2367.1	2419.0	2420.6
27.5°	2240.5	2276.2	2313.5	2363.8	2368.7
30°	2167.5	2212.9	2258.4	2307.0	2321.6
32.5°	2089.6	2139.9	2190.2	2255.1	2274.6
35°	2005.3	2058.8	2128.6	2196.7	2216.2
37.5°	1920.9	1980.9	2062.1	2131.8	2149.7
40°	1834.9	1901.4	1992.3	2063.7	2084.8
42.5°	1739.2	1820.3	1917.7	1993.9	2018.2
45°	1648.3	1734.3	1839.8	1922.5	1945.2
47.5°	1552.6	1643.5	1757.0	1844.7	1870.6
50°	1450.4	1554.2	1675.9	1763.5	1787.9
52.5°	1354.7	1460.1	1588.3	1679.2	1713.2
55°	1254.1	1366.0	1497.5	1591.6	1624.0
57.5°	1160.0	1267.1	1408.2	1502.3	1542.9
60°	1052.9	1171.4	1312.5	1414.7	1447.2
62.5°	952.3	1072.4	1218.4	1323.9	1361.2
65°	848.5	970.2	1121.1	1231.4	1265.5
67.5°	751.2	871.2	1025.3	1134.0	1177.9
70°	644.1	770.6	928.0	1039.9	1077.3
72.5°	538.6	670.0	830.7	950.7	992.9
75°	441.3	569.5	736.6	853.4	900.4
77.5°	347.2	477.0	645.7	765.8	806.3
80°	253.1	389.4	561.3	679.8	718.7
82.5°	167.1	309.9	480.2	598.7	640.8
85°	97.3	241.7	408.8	522.4	567.8
87.5°	42.2	183.3	342.3	454.3	491.6
90°	1.6	136.3	288.8	397.5	436.4
92.5°	1.6	133.0	282.3	389.4	426.7
95°	1.6	129.8	280.7	384.5	421.8
97.5°	1.6	128.2	277.4	381.3	417.0
100°	1.6	123.3	272.6	374.8	410.5
102.5°	1.6	116.8	267.7	368.3	402.4
105°	1.6	111.9	262.8	361.8	394.2
107.5°	1.6	107.1	254.7	353.7	386.1
110°	1.6	102.2	241.7	345.6	378.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	100.6	232.0	334.2	368.3
115°	3.2	97.3	222.3	321.2	356.9
117.5°	3.2	95.7	214.2	308.3	345.6
120°	3.2	90.9	206.0	296.9	332.6
122.5°	3.2	86.0	197.9	285.5	321.2
125°	3.2	82.7	189.8	274.2	308.3
127.5°	3.2	77.9	183.3	262.8	293.7
130°	3.2	74.6	175.2	249.8	280.7
132.5°	3.2	69.8	167.1	236.9	266.1
135°	3.2	64.9	159.0	225.5	253.1
137.5°	3.2	58.4	149.3	212.5	238.5
140°	3.2	53.5	136.3	199.6	223.9
142.5°	3.2	50.3	123.3	185.0	207.7
145°	3.2	47.0	110.3	170.4	191.4
147.5°	3.2	43.8	99.0	155.7	175.2
150°	3.2	38.9	87.6	142.8	159.0
152.5°	4.9	35.7	77.9	126.5	142.8
155°	4.9	32.4	68.1	108.7	126.5
157.5°	4.9	29.2	58.4	90.9	110.3
160°	4.9	26.0	50.3	74.6	94.1
162.5°	4.9	24.3	43.8	61.7	79.5
165°	4.9	21.1	37.3	50.3	64.9
167.5°	4.9	16.2	30.8	38.9	53.5
170°	4.9	13.0	24.3	27.6	40.6
172.5°	4.9	9.7	17.8	19.5	21.1
175°	4.9	8.1	11.4	11.4	6.5
177.5°	4.9	6.5	6.5	6.5	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)