

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: P567403

Luminaire Tested: **8SNX-148HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-148HL-LC-UNV-L835-CD  
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

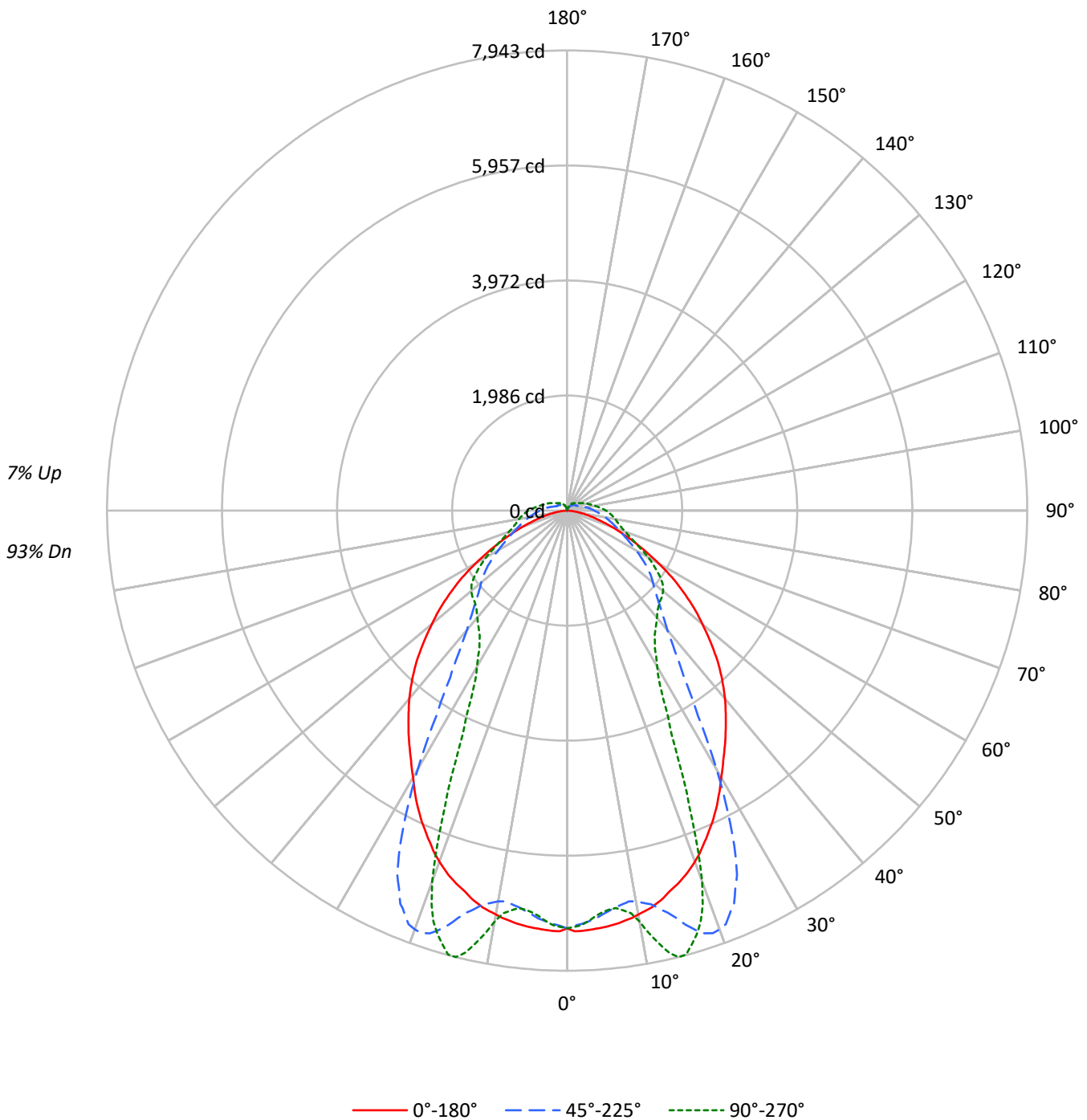
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16031.0 lumens  
Efficiency: N/A  
Efficacy: 154.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 103.6  
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

TEST NUMBER: P567403  
CATALOG NUMBER: 8SNX-148HL-LC-UNV-L835-CD

### 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78
2	99	91	84	79	95	88	83	78	84	79	75	80	76	72	76	72	69	67
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58
4	84	73	64	58	81	71	63	57	68	61	56	64	59	54	62	57	53	51
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	46	42	40
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27

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

	0°	45°	90°
0°	38821	38821	38821
5°	38938	36276	35535
10°	38542	34484	35237
15°	37716	35908	37512
20°	36647	37436	31395
25°	34879	33591	19304
30°	32660	25026	13971
35°	30860	17276	11786
40°	29255	13411	10862
45°	27374	11420	10272
50°	24896	10251	10084
55°	22281	9272	9330
60°	18893	8024	8070
65°	15366	6989	6735
70°	12059	6282	5930
75°	9350	5842	5531
80°	6580	5533	5474
85°	3661	5279	5436



TEST NUMBER: P567403

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L835-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	671.2	4.2
10°-20°	2051.0	12.8
20°-30°	2761.6	17.2
30°-40°	2613.6	16.3
40°-50°	2306.9	14.4
50°-60°	1873.7	11.7
60°-70°	1274.3	7.9
70°-80°	819.9	5.1
80°-90°	545.2	3.4
90°-100°	374.7	2.3
100°-110°	251.5	1.6
110°-120°	177.4	1.1
120°-130°	126.7	0.8
130°-140°	89.4	0.6
140°-150°	55.5	0.3
150°-160°	27.1	0.2
160°-170°	9.5	0.1
170°-180°	1.6	0.0
0°-30°	5483.8	34.2
0°-40°	8097.4	50.5
0°-60°	12278.0	76.6
0°-90°	14917.5	93.1
90°-120°	803.6	5.0
90°-150°	1075.3	6.7
90°-180°	1114.0	6.9
0°-180°	16031.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7213	7213	7213	7213	7213	
5°	7220	7154	7000	6995	6961	685
15°	6807	6763	7284	7928	7935	1919
25°	5931	7032	6939	5040	4261	2721
35°	4766	6687	3525	2714	2631	2982
45°	3671	4499	2230	2203	2249	2819
55°	2445	2661	1674	1870	1941	2184
65°	1260	1434	1121	1246	1285	1266
75°	485	678	791	886	928	527
85°	73	289	560	710	759	96
90°	2	201	468	629	671	4
95°	2	154	394	534	570	2
105°	5	108	259	365	409	5
115°	5	93	191	272	306	6
125°	7	78	164	206	220	7
135°	10	61	135	171	181	8
145°	10	44	96	132	144	7
155°	12	27	59	88	100	6
165°	12	17	32	44	54	4
175°	15	15	15	15	12	1
180°	12	12	12	12	12	



TEST NUMBER: P567403

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7213.2	7213.2	7213.2	7213.2	7213.2
1°	7262.1	7240.1	7166.7	7205.8	7186.2
2°	7259.7	7223.0	7139.7	7183.8	7159.3
3°	7247.4	7208.3	7100.6	7127.5	7090.8
4°	7235.2	7188.7	7059.0	7059.0	7017.4
5°	7220.5	7154.4	7000.2	6995.3	6961.1
6°	7203.4	7127.5	6948.8	6943.9	6924.3
7°	7178.9	7081.0	6892.5	6926.8	6912.1
8°	7149.5	7036.9	6863.1	6948.8	6970.8
9°	7122.6	6983.1	6828.9	7017.4	7034.5
10°	7078.5	6934.1	6850.9	7154.4	7205.8
11°	7041.8	6892.5	6899.9	7289.0	7443.2
12°	7005.1	6848.5	6946.4	7457.9	7646.4
13°	6943.9	6814.2	7049.2	7641.5	7834.9
14°	6890.1	6787.3	7149.5	7827.5	7942.6
15°	6806.9	6762.8	7284.1	7927.9	7935.2
16°	6750.6	6745.7	7440.8	7935.2	7798.1
17°	6686.9	6738.3	7568.1	7807.9	7646.4
18°	6615.9	6753.0	7673.3	7648.8	7462.8
19°	6535.2	6767.7	7717.4	7428.6	7188.7
20°	6447.1	6789.7	7692.9	7198.5	6811.7
21°	6358.9	6819.1	7646.4	6956.2	6317.3
22.5°	6194.9	6890.1	7426.1	6275.7	5499.8
23°	6148.4	6904.8	7374.7	6062.8	5286.9
24°	6033.4	6965.9	7139.7	5565.9	4723.9
25°	5930.6	7032.0	6939.0	5039.7	4261.3
26°	5815.6	7081.0	6635.5	4555.0	3977.4
27°	5703.0	7110.4	6290.4	4178.1	3659.2
28°	5573.2	7142.2	5915.9	3852.6	3419.3
29°	5450.9	7147.1	5546.3	3593.1	3230.9
30°	5318.7	7122.6	5157.2	3385.1	3113.4
32.5°	5029.9	6988.0	4205.0	2988.6	2819.7
35°	4765.5	6686.9	3524.6	2714.4	2631.2
37.5°	4498.7	6212.1	3047.3	2543.1	2516.2
40°	4236.8	5649.1	2687.5	2406.0	2410.9
42.5°	3960.3	5069.0	2440.3	2293.4	2315.5
45°	3671.4	4498.7	2229.8	2202.9	2249.4
47.5°	3350.8	3977.4	2063.4	2144.1	2215.1
50°	3047.3	3460.9	1933.6	2087.8	2161.3
52.5°	2758.5	3037.5	1816.1	1992.4	2078.0
55°	2445.2	2660.6	1674.2	1870.0	1941.0
57.5°	2146.6	2320.4	1524.9	1718.2	1781.9
60°	1818.6	1985.0	1373.1	1554.2	1615.4
62.5°	1522.4	1698.7	1243.4	1390.3	1439.2
65°	1260.5	1434.3	1121.0	1245.8	1285.0



TEST NUMBER: P567403

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1028.0	1214.0	1020.7	1125.9	1162.6
70°	810.2	1006.0	932.5	1028.0	1067.2
72.5°	633.9	832.2	859.1	947.2	986.4
75°	484.6	678.0	790.6	886.0	927.7
77.5°	359.8	553.2	726.9	837.1	881.1
80°	237.4	440.6	670.7	793.0	844.4
82.5°	149.3	354.9	614.4	749.0	802.8
85°	73.4	288.8	560.5	709.8	758.8
87.5°	24.5	239.9	511.6	670.7	712.3
90°	2.4	200.7	467.5	629.0	670.7
92.5°	2.4	173.8	430.8	580.1	621.7
95°	2.4	154.2	394.1	533.6	570.3
97.5°	2.4	139.5	359.8	484.6	523.8
100°	2.4	124.8	323.1	438.1	479.7
102.5°	4.9	115.0	291.3	399.0	443.0
105°	4.9	107.7	259.4	364.7	408.8
107.5°	4.9	102.8	232.5	337.8	379.4
110°	4.9	97.9	212.9	313.3	357.4
112.5°	4.9	95.5	200.7	291.3	332.9
115°	4.9	93.0	190.9	271.7	306.0
117.5°	7.3	90.6	183.6	252.1	279.0
120°	7.3	85.7	178.7	235.0	257.0
122.5°	7.3	80.8	171.3	220.3	237.4
125°	7.3	78.3	164.0	205.6	220.3
127.5°	7.3	73.4	156.6	193.4	208.0
130°	9.8	68.5	149.3	183.6	195.8
132.5°	9.8	63.6	142.0	178.7	188.5
135°	9.8	61.2	134.6	171.3	181.1
137.5°	9.8	56.3	127.3	164.0	173.8
140°	9.8	51.4	117.5	154.2	164.0
142.5°	9.8	49.0	107.7	144.4	154.2
145°	9.8	44.1	95.5	132.2	144.4
147.5°	12.2	41.6	85.7	122.4	132.2
150°	12.2	36.7	75.9	112.6	122.4
152.5°	12.2	31.8	66.1	100.4	110.1
155°	12.2	26.9	58.7	88.1	100.4
157.5°	12.2	24.5	51.4	73.4	88.1
160°	12.2	22.0	44.1	63.6	75.9
162.5°	12.2	19.6	39.2	53.8	66.1
165°	12.2	17.1	31.8	44.1	53.8
167.5°	14.7	17.1	26.9	34.3	44.1
170°	14.7	17.1	22.0	26.9	34.3
172.5°	14.7	14.7	17.1	19.6	22.0
175°	14.7	14.7	14.7	14.7	12.2
177.5°	14.7	14.7	14.7	12.2	12.2



TEST NUMBER: P567403

CATALOG NUMBER: 8SNX-148HL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	12.2	12.2	12.2	12.2	12.2

(END OF REPORT)