

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: P567558

Luminaire Tested: **8SNX-174HL-LN-UNV-L930-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567558  
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: 8SNX-174HL-LN-UNV-L930-CD  
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

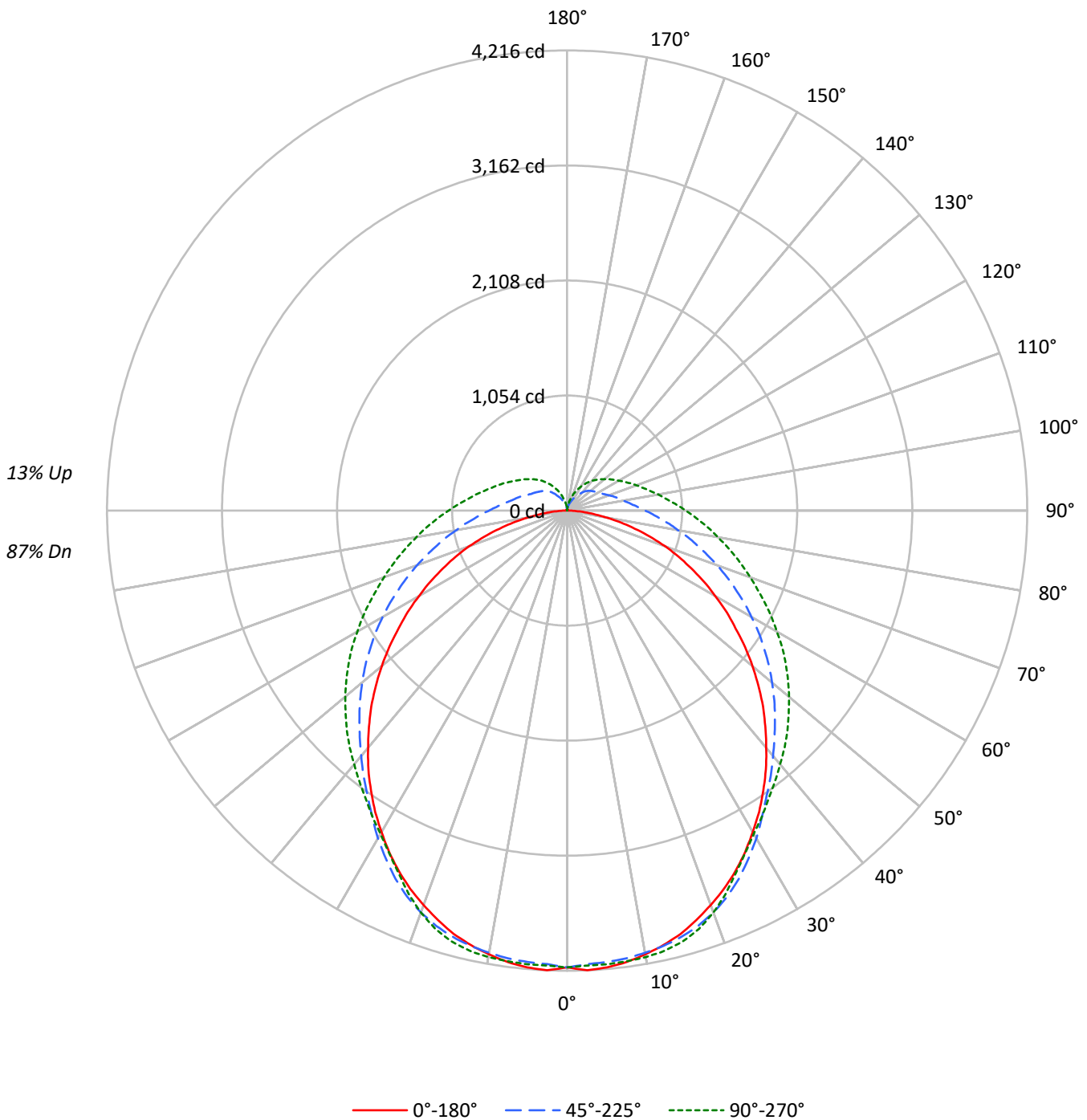
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15107.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 124.4  
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	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°	22523	22523	22523
5°	22651	21514	21298
10°	22480	20704	20315
15°	22252	19936	19323
20°	21866	19069	18061
25°	21449	18015	16580
30°	20886	16828	15343
35°	20284	15617	14420
40°	19595	14646	13674
45°	18924	13786	13029
50°	18121	12994	12380
55°	17176	12198	11744
60°	16284	11404	11080
65°	15299	10603	10471
70°	14180	9852	9920
75°	12402	9121	9466
80°	10081	8494	9082
85°	7282	8056	8861



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.6	2.6
10°-20°	1143.0	7.6
20°-30°	1702.1	11.3
30°-40°	2008.4	13.3
40°-50°	2094.5	13.9
50°-60°	1968.3	13.0
60°-70°	1662.2	11.0
70°-80°	1255.9	8.3
80°-90°	865.8	5.7
90°-100°	605.9	4.0
100°-110°	452.1	3.0
110°-120°	340.8	2.3
120°-130°	254.2	1.7
130°-140°	178.4	1.2
140°-150°	107.9	0.7
150°-160°	51.6	0.3
160°-170°	16.5	0.1
170°-180°	2.0	0.0
0°-30°	3242.7	21.5
0°-40°	5251.0	34.8
0°-60°	9313.8	61.7
0°-90°	13097.7	86.7
90°-120°	1398.8	9.3
90°-150°	1939.2	12.8
90°-180°	2009.0	13.3
0°-180°	15107.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4185	4185	4185	4185	4185	
5°	4200	4193	4152	4182	4172	399
15°	4016	4034	4044	4095	4088	1131
25°	3647	3721	3721	3688	3660	1678
35°	3132	3248	3186	3212	3219	1959
45°	2538	2664	2692	2802	2853	1955
55°	1885	2046	2203	2379	2443	1691
65°	1255	1455	1701	1923	1998	1246
75°	643	891	1234	1493	1588	685
85°	146	458	855	1137	1237	164
90°	3	325	715	989	1086	10
95°	3	254	604	866	955	2
105°	5	182	466	676	753	5
115°	5	156	361	538	607	5
125°	8	133	305	440	497	7
135°	8	102	254	359	402	6
145°	10	74	177	274	307	6
155°	10	49	108	174	202	5
165°	13	31	56	77	102	4
175°	13	13	15	15	8	1
180°	8	8	8	8	8	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4184.9	4184.9	4184.9	4184.9	4184.9
2.5°	4215.7	4205.4	4159.3	4184.9	4172.1
5°	4200.3	4192.6	4151.6	4182.4	4172.1
7.5°	4172.1	4169.6	4138.8	4174.7	4164.4
10°	4128.6	4136.3	4113.2	4161.9	4154.2
12.5°	4077.4	4092.7	4085.0	4138.8	4131.1
15°	4015.9	4033.8	4044.1	4095.3	4087.6
17.5°	3933.9	3967.2	3990.3	4031.3	4018.4
20°	3846.8	3892.9	3918.6	3939.0	3918.6
22.5°	3752.1	3813.6	3828.9	3818.7	3798.2
25°	3647.1	3721.4	3721.4	3688.1	3659.9
27.5°	3529.3	3621.5	3595.9	3557.4	3534.4
30°	3401.2	3511.3	3467.8	3424.3	3419.1
32.5°	3273.2	3388.4	3324.4	3314.1	3321.8
35°	3132.3	3247.5	3186.1	3211.7	3219.4
37.5°	2991.4	3106.7	3065.7	3104.1	3127.2
40°	2837.8	2960.7	2935.1	3004.2	3035.0
42.5°	2686.6	2814.7	2812.1	2901.8	2947.9
45°	2538.1	2663.6	2691.8	2801.9	2853.1
47.5°	2376.7	2504.8	2574.0	2702.0	2753.2
50°	2218.0	2356.3	2451.0	2594.4	2653.4
52.5°	2054.0	2200.0	2330.6	2489.4	2550.9
55°	1885.0	2046.4	2202.6	2379.3	2443.3
57.5°	1733.9	1897.8	2082.2	2264.1	2338.3
60°	1567.4	1749.3	1951.6	2143.7	2218.0
62.5°	1416.3	1603.3	1828.7	2031.0	2110.4
65°	1255.0	1454.7	1700.6	1923.4	1997.7
67.5°	1106.4	1311.3	1580.2	1805.6	1887.6
70°	952.7	1170.4	1462.4	1700.6	1785.1
72.5°	794.0	1024.5	1344.6	1598.2	1685.2
75°	642.8	891.3	1234.5	1493.2	1587.9
77.5°	502.0	763.2	1134.6	1400.9	1493.2
80°	363.7	648.0	1029.6	1306.2	1400.9
82.5°	240.7	548.1	945.1	1221.7	1321.6
85°	146.0	458.4	855.4	1137.2	1237.0
87.5°	66.6	384.2	783.7	1062.9	1160.2
90°	2.6	325.3	714.6	988.6	1085.9
92.5°	2.6	284.3	658.2	924.6	1019.3
95°	2.6	253.6	604.4	865.7	955.3
97.5°	2.6	233.1	563.5	809.3	896.4
100°	2.6	212.6	522.5	758.1	847.7
102.5°	5.1	194.6	491.7	712.0	796.5
105°	5.1	181.8	466.1	676.1	753.0
107.5°	5.1	174.2	438.0	640.3	712.0
110°	5.1	166.5	407.2	604.4	676.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	5.1	161.4	384.2	573.7	642.8
115°	5.1	156.2	361.1	537.8	607.0
117.5°	5.1	153.7	348.3	509.7	576.3
120°	7.7	146.0	332.9	484.1	548.1
122.5°	7.7	138.3	317.6	463.6	519.9
125°	7.7	133.2	304.8	440.5	496.9
127.5°	7.7	125.5	292.0	420.0	471.3
130°	7.7	117.8	281.7	399.5	448.2
132.5°	7.7	110.1	268.9	379.1	425.2
135°	7.7	102.4	253.6	358.6	402.1
137.5°	7.7	94.8	238.2	338.1	379.1
140°	7.7	87.1	217.7	317.6	356.0
142.5°	7.7	79.4	197.2	297.1	330.4
145°	10.2	74.3	176.7	274.0	307.3
147.5°	10.2	66.6	156.2	251.0	279.2
150°	10.2	61.5	140.9	227.9	253.6
152.5°	10.2	53.8	125.5	202.3	227.9
155°	10.2	48.7	107.6	174.2	202.3
157.5°	10.2	43.5	92.2	146.0	176.7
160°	10.2	41.0	79.4	120.4	151.1
162.5°	12.8	35.9	66.6	97.3	125.5
165°	12.8	30.7	56.3	76.8	102.4
167.5°	12.8	25.6	46.1	58.9	79.4
170°	12.8	20.5	35.9	41.0	61.5
172.5°	12.8	15.4	25.6	28.2	30.7
175°	12.8	12.8	15.4	15.4	7.7
177.5°	12.8	12.8	10.2	7.7	2.6
180°	7.7	7.7	7.7	7.7	7.7

(END OF REPORT)