

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: P567556

Luminaire Tested: **8SNX-174HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567556  
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-L840-CD  
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

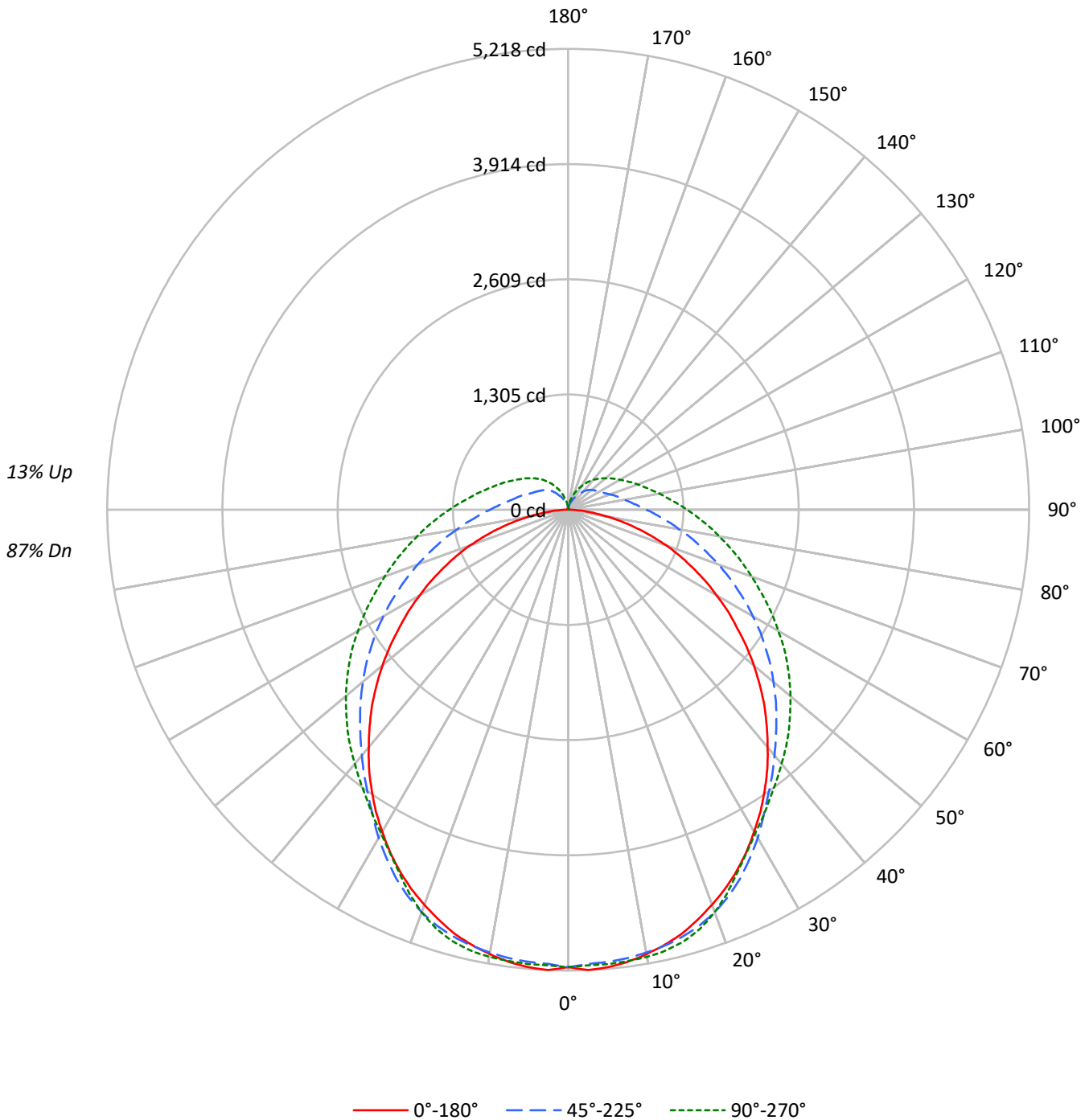
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18698.0 lumens  
Efficiency: N/A  
Efficacy: 150.3 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°	27877	27877	27877
5°	28035	26628	26360
10°	27824	25625	25144
15°	27541	24674	23917
20°	27064	23602	22354
25°	26548	22297	20521
30°	25850	20828	18990
35°	25105	19329	17848
40°	24252	18128	16924
45°	23422	17063	16126
50°	22428	16082	15323
55°	21259	15098	14536
60°	20155	14115	13714
65°	18935	13123	12960
70°	17551	12194	12278
75°	15352	11289	11717
80°	12476	10512	11241
85°	9012	9972	10968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.1	2.6
10°-20°	1414.7	7.6
20°-30°	2106.7	11.3
30°-40°	2485.7	13.3
40°-50°	2592.4	13.9
50°-60°	2436.2	13.0
60°-70°	2057.3	11.0
70°-80°	1554.5	8.3
80°-90°	1071.5	5.7
90°-100°	749.9	4.0
100°-110°	559.6	3.0
110°-120°	421.8	2.3
120°-130°	314.6	1.7
130°-140°	220.8	1.2
140°-150°	133.5	0.7
150°-160°	63.8	0.3
160°-170°	20.5	0.1
170°-180°	2.4	0.0
0°-30°	4013.4	21.5
0°-40°	6499.2	34.8
0°-60°	11527.7	61.7
0°-90°	16211.1	86.7
90°-120°	1731.3	9.3
90°-150°	2400.2	12.8
90°-180°	2487.0	13.3
0°-180°	18698.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5180	5180	5180	5180	5180	
5°	5199	5189	5138	5176	5164	493
15°	4970	4993	5005	5069	5059	1400
25°	4514	4606	4606	4565	4530	2077
35°	3877	4020	3943	3975	3985	2424
45°	3141	3297	3332	3468	3531	2419
55°	2333	2533	2726	2945	3024	2093
65°	1553	1800	2105	2381	2473	1542
75°	796	1103	1528	1848	1965	847
85°	181	567	1059	1408	1531	203
90°	3	403	884	1224	1344	13
95°	3	314	748	1071	1182	3
105°	6	225	577	837	932	6
115°	6	193	447	666	751	7
125°	10	165	377	545	615	9
135°	10	127	314	444	498	7
145°	13	92	219	339	380	7
155°	13	60	133	216	250	6
165°	16	38	70	95	127	4
175°	16	16	19	19	10	1
180°	10	10	10	10	10	



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CATALOG NUMBER: 8SNX-174HL-LN-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5179.7	5179.7	5179.7	5179.7	5179.7
2.5°	5217.7	5205.1	5148.0	5179.7	5163.8
5°	5198.7	5189.2	5138.5	5176.5	5163.8
7.5°	5163.8	5160.7	5122.6	5167.0	5154.3
10°	5110.0	5119.5	5090.9	5151.2	5141.7
12.5°	5046.6	5065.6	5056.1	5122.6	5113.1
15°	4970.5	4992.7	5005.3	5068.7	5059.2
17.5°	4869.0	4910.2	4938.8	4989.5	4973.6
20°	4761.3	4818.3	4850.0	4875.4	4850.0
22.5°	4644.0	4720.1	4739.1	4726.4	4701.0
25°	4514.0	4605.9	4605.9	4564.7	4529.9
27.5°	4368.2	4482.3	4450.6	4403.1	4374.5
30°	4209.7	4346.0	4292.1	4238.2	4231.9
32.5°	4051.2	4193.8	4114.6	4101.9	4111.4
35°	3876.8	4019.5	3943.4	3975.1	3984.6
37.5°	3702.5	3845.1	3794.4	3842.0	3870.5
40°	3512.3	3664.5	3632.8	3718.3	3756.4
42.5°	3325.3	3483.8	3480.6	3591.5	3648.6
45°	3141.4	3296.7	3331.6	3467.9	3531.3
47.5°	2941.7	3100.2	3185.8	3344.3	3407.7
50°	2745.2	2916.4	3033.6	3211.2	3284.1
52.5°	2542.3	2723.0	2884.7	3081.2	3157.3
55°	2333.1	2532.8	2726.2	2944.9	3024.1
57.5°	2146.1	2348.9	2577.2	2802.2	2894.2
60°	1940.0	2165.1	2415.5	2653.2	2745.2
62.5°	1753.0	1984.4	2263.3	2513.8	2612.0
65°	1553.3	1800.5	2104.8	2380.6	2472.6
67.5°	1369.4	1623.0	1955.9	2234.8	2336.3
70°	1179.2	1448.7	1810.0	2104.8	2209.5
72.5°	982.7	1268.0	1664.2	1978.0	2085.8
75°	795.7	1103.1	1527.9	1848.1	1965.4
77.5°	621.3	944.6	1404.3	1734.0	1848.1
80°	450.1	802.0	1274.3	1616.7	1734.0
82.5°	298.0	678.4	1169.7	1512.1	1635.7
85°	180.7	567.4	1058.8	1407.5	1531.1
87.5°	82.4	475.5	970.0	1315.5	1436.0
90°	3.2	402.6	884.4	1223.6	1344.1
92.5°	3.2	351.9	814.7	1144.4	1261.6
95°	3.2	313.8	748.1	1071.4	1182.4
97.5°	3.2	288.5	697.4	1001.7	1109.5
100°	3.2	263.1	646.7	938.3	1049.3
102.5°	6.3	240.9	608.6	881.2	985.9
105°	6.3	225.1	576.9	836.9	932.0
107.5°	6.3	215.6	542.1	792.5	881.2
110°	6.3	206.0	504.0	748.1	836.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	6.3	199.7	475.5	710.1	795.7
115°	6.3	193.4	447.0	665.7	751.3
117.5°	6.3	190.2	431.1	630.8	713.2
120°	9.5	180.7	412.1	599.1	678.4
122.5°	9.5	171.2	393.1	573.8	643.5
125°	9.5	164.8	377.2	545.2	615.0
127.5°	9.5	155.3	361.4	519.9	583.3
130°	9.5	145.8	348.7	494.5	554.7
132.5°	9.5	136.3	332.8	469.2	526.2
135°	9.5	126.8	313.8	443.8	497.7
137.5°	9.5	117.3	294.8	418.4	469.2
140°	9.5	107.8	269.4	393.1	440.6
142.5°	9.5	98.3	244.1	367.7	408.9
145°	12.7	91.9	218.7	339.2	380.4
147.5°	12.7	82.4	193.4	310.7	345.5
150°	12.7	76.1	174.3	282.1	313.8
152.5°	12.7	66.6	155.3	250.4	282.1
155°	12.7	60.2	133.1	215.6	250.4
157.5°	12.7	53.9	114.1	180.7	218.7
160°	12.7	50.7	98.3	149.0	187.0
162.5°	15.8	44.4	82.4	120.5	155.3
165°	15.8	38.0	69.7	95.1	126.8
167.5°	15.8	31.7	57.1	72.9	98.3
170°	15.8	25.4	44.4	50.7	76.1
172.5°	15.8	19.0	31.7	34.9	38.0
175°	15.8	15.8	19.0	19.0	9.5
177.5°	15.8	15.8	12.7	9.5	3.2
180°	9.5	9.5	9.5	9.5	9.5

(END OF REPORT)