

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: P567552

Luminaire Tested: **8SNX-174HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

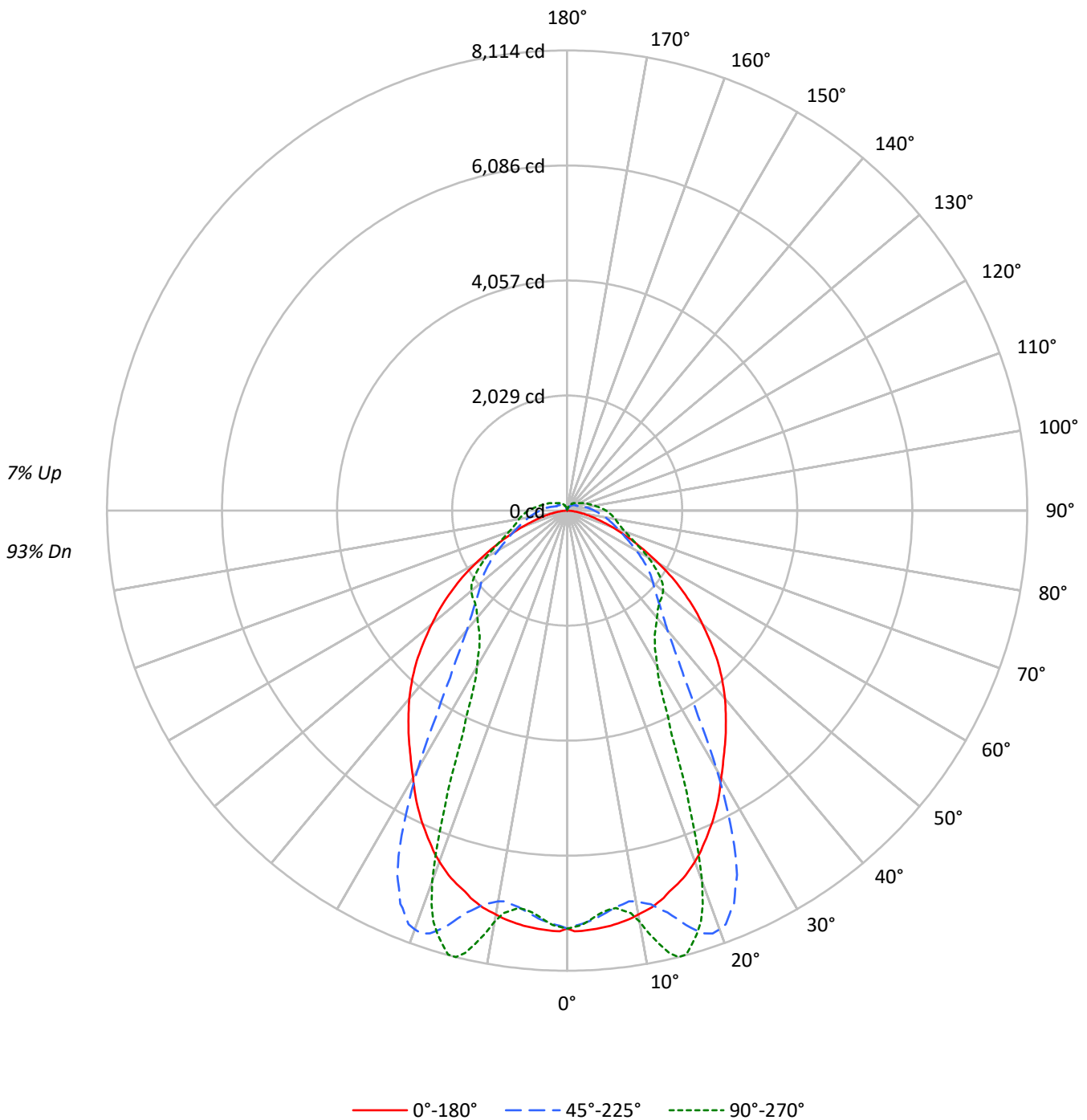
Test Method: LM-79-08  
Report Number: P567552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-174HL-LC-UNV-L940-CD  
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16378.0 lumens  
Efficiency: N/A  
Efficacy: 131.7 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): 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	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°	39661	39661	39661
5°	39781	37061	36304
10°	39377	35231	36000
15°	38532	36686	38325
20°	37440	38246	32075
25°	35634	34318	19722
30°	33367	25567	14273
35°	31528	17650	12041
40°	29889	13701	11097
45°	27966	11667	10495
50°	25436	10473	10302
55°	22763	9472	9532
60°	19303	8197	8245
65°	15698	7141	6881
70°	12319	6418	6059
75°	9553	5968	5650
80°	6724	5652	5593
85°	3741	5393	5553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	685.7	4.2
10°-20°	2095.4	12.8
20°-30°	2821.4	17.2
30°-40°	2670.2	16.3
40°-50°	2356.8	14.4
50°-60°	1914.3	11.7
60°-70°	1301.9	7.9
70°-80°	837.7	5.1
80°-90°	557.0	3.4
90°-100°	382.8	2.3
100°-110°	257.0	1.6
110°-120°	181.2	1.1
120°-130°	129.5	0.8
130°-140°	91.3	0.6
140°-150°	56.7	0.3
150°-160°	27.7	0.2
160°-170°	9.7	0.1
170°-180°	1.7	0.0
0°-30°	5602.5	34.2
0°-40°	8272.7	50.5
0°-60°	12543.8	76.6
0°-90°	15240.4	93.1
90°-120°	821.0	5.0
90°-150°	1098.5	6.7
90°-180°	1138.0	6.9
0°-180°	16378.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7369	7369	7369	7369	7369	
5°	7377	7309	7152	7147	7112	700
15°	6954	6909	7442	8100	8107	1960
25°	6059	7184	7089	5149	4354	2780
35°	4869	6832	3601	2773	2688	3047
45°	3751	4596	2278	2250	2298	2880
55°	2498	2718	1710	1910	1983	2231
65°	1288	1465	1145	1273	1313	1293
75°	495	693	808	905	948	539
85°	75	295	573	725	775	98
90°	2	205	478	643	685	4
95°	2	158	403	545	583	2
105°	5	110	265	373	418	5
115°	5	95	195	278	313	6
125°	8	80	168	210	225	7
135°	10	62	138	175	185	8
145°	10	45	98	135	148	7
155°	12	28	60	90	102	6
165°	12	18	32	45	55	4
175°	15	15	15	15	12	1
180°	12	12	12	12	12	



TEST NUMBER: P567552

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7369.3	7369.3	7369.3	7369.3	7369.3
1°	7419.3	7396.8	7321.8	7361.8	7341.8
2°	7416.8	7379.3	7294.3	7339.3	7314.3
3°	7404.3	7364.3	7254.3	7281.8	7244.3
4°	7391.8	7344.3	7211.8	7211.8	7169.2
5°	7376.8	7309.3	7151.7	7146.7	7111.7
6°	7359.3	7281.8	7099.2	7094.2	7074.2
7°	7334.3	7234.3	7041.7	7076.7	7061.7
8°	7304.3	7189.2	7011.7	7099.2	7121.7
9°	7276.8	7134.2	6976.7	7169.2	7186.7
10°	7231.8	7084.2	6999.2	7309.3	7361.8
11°	7194.3	7041.7	7049.2	7446.8	7604.4
12°	7156.7	6996.7	7096.7	7619.4	7811.9
13°	7094.2	6961.7	7201.8	7806.9	8004.4
14°	7039.2	6934.2	7304.3	7996.9	8114.5
15°	6954.2	6909.2	7441.8	8099.5	8107.0
16°	6896.7	6891.7	7601.8	8107.0	7966.9
17°	6831.7	6884.2	7731.9	7976.9	7811.9
18°	6759.1	6899.2	7839.4	7814.4	7624.4
19°	6676.6	6914.2	7884.4	7589.3	7344.3
20°	6586.6	6936.7	7859.4	7354.3	6959.2
21°	6496.6	6966.7	7811.9	7106.7	6454.1
22.5°	6329.0	7039.2	7586.8	6411.6	5618.9
23°	6281.5	7054.2	7534.3	6194.0	5401.3
24°	6164.0	7116.7	7294.3	5686.4	4826.2
25°	6059.0	7184.2	7089.2	5148.8	4353.6
26°	5941.4	7234.3	6779.1	4653.6	4063.5
27°	5826.4	7264.3	6426.6	4268.5	3738.4
28°	5693.9	7296.8	6044.0	3936.0	3493.4
29°	5568.9	7301.8	5666.4	3670.9	3300.8
30°	5433.8	7276.8	5268.8	3458.3	3180.8
32.5°	5138.8	7139.2	4296.0	3053.2	2880.7
35°	4868.7	6831.7	3600.9	2773.2	2688.2
37.5°	4596.1	6346.5	3113.3	2598.1	2570.6
40°	4328.6	5771.4	2745.7	2458.1	2463.1
42.5°	4046.0	5178.8	2493.1	2343.1	2365.6
45°	3750.9	4596.1	2278.1	2250.5	2298.1
47.5°	3423.3	4063.5	2108.0	2190.5	2263.1
50°	3113.3	3535.9	1975.5	2133.0	2208.0
52.5°	2818.2	3103.3	1855.5	2035.5	2123.0
55°	2498.1	2718.2	1710.4	1910.5	1983.0
57.5°	2193.0	2370.6	1557.9	1755.4	1820.4
60°	1858.0	2028.0	1402.8	1587.9	1650.4
62.5°	1555.4	1735.4	1270.3	1420.3	1470.4
65°	1287.8	1465.4	1145.3	1272.8	1312.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1050.3	1240.3	1042.8	1150.3	1187.8
70°	827.7	1027.8	952.7	1050.3	1090.3
72.5°	647.7	850.2	877.7	967.7	1007.7
75°	495.1	692.7	807.7	905.2	947.7
77.5°	367.6	565.1	742.7	855.2	900.2
80°	242.6	450.1	685.2	810.2	862.7
82.5°	152.5	362.6	627.7	765.2	820.2
85°	75.0	295.1	572.6	725.2	775.2
87.5°	25.0	245.1	522.6	685.2	727.7
90°	2.5	205.0	477.6	642.7	685.2
92.5°	2.5	177.5	440.1	592.6	635.2
95°	2.5	157.5	402.6	545.1	582.6
97.5°	2.5	142.5	367.6	495.1	535.1
100°	2.5	127.5	330.1	447.6	490.1
102.5°	5.0	117.5	297.6	407.6	452.6
105°	5.0	110.0	265.1	372.6	417.6
107.5°	5.0	105.0	237.6	345.1	387.6
110°	5.0	100.0	217.6	320.1	365.1
112.5°	5.0	97.5	205.0	297.6	340.1
115°	5.0	95.0	195.0	277.6	312.6
117.5°	7.5	92.5	187.5	257.6	285.1
120°	7.5	87.5	182.5	240.1	262.6
122.5°	7.5	82.5	175.0	225.1	242.6
125°	7.5	80.0	167.5	210.1	225.1
127.5°	7.5	75.0	160.0	197.5	212.6
130°	10.0	70.0	152.5	187.5	200.0
132.5°	10.0	65.0	145.0	182.5	192.5
135°	10.0	62.5	137.5	175.0	185.0
137.5°	10.0	57.5	130.0	167.5	177.5
140°	10.0	52.5	120.0	157.5	167.5
142.5°	10.0	50.0	110.0	147.5	157.5
145°	10.0	45.0	97.5	135.0	147.5
147.5°	12.5	42.5	87.5	125.0	135.0
150°	12.5	37.5	77.5	115.0	125.0
152.5°	12.5	32.5	67.5	102.5	112.5
155°	12.5	27.5	60.0	90.0	102.5
157.5°	12.5	25.0	52.5	75.0	90.0
160°	12.5	22.5	45.0	65.0	77.5
162.5°	12.5	20.0	40.0	55.0	67.5
165°	12.5	17.5	32.5	45.0	55.0
167.5°	15.0	17.5	27.5	35.0	45.0
170°	15.0	17.5	22.5	27.5	35.0
172.5°	15.0	15.0	17.5	20.0	22.5
175°	15.0	15.0	15.0	15.0	12.5
177.5°	15.0	15.0	15.0	12.5	12.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	12.5	12.5	12.5	12.5	12.5

(END OF REPORT)