

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: P567548

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567548
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-L840-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

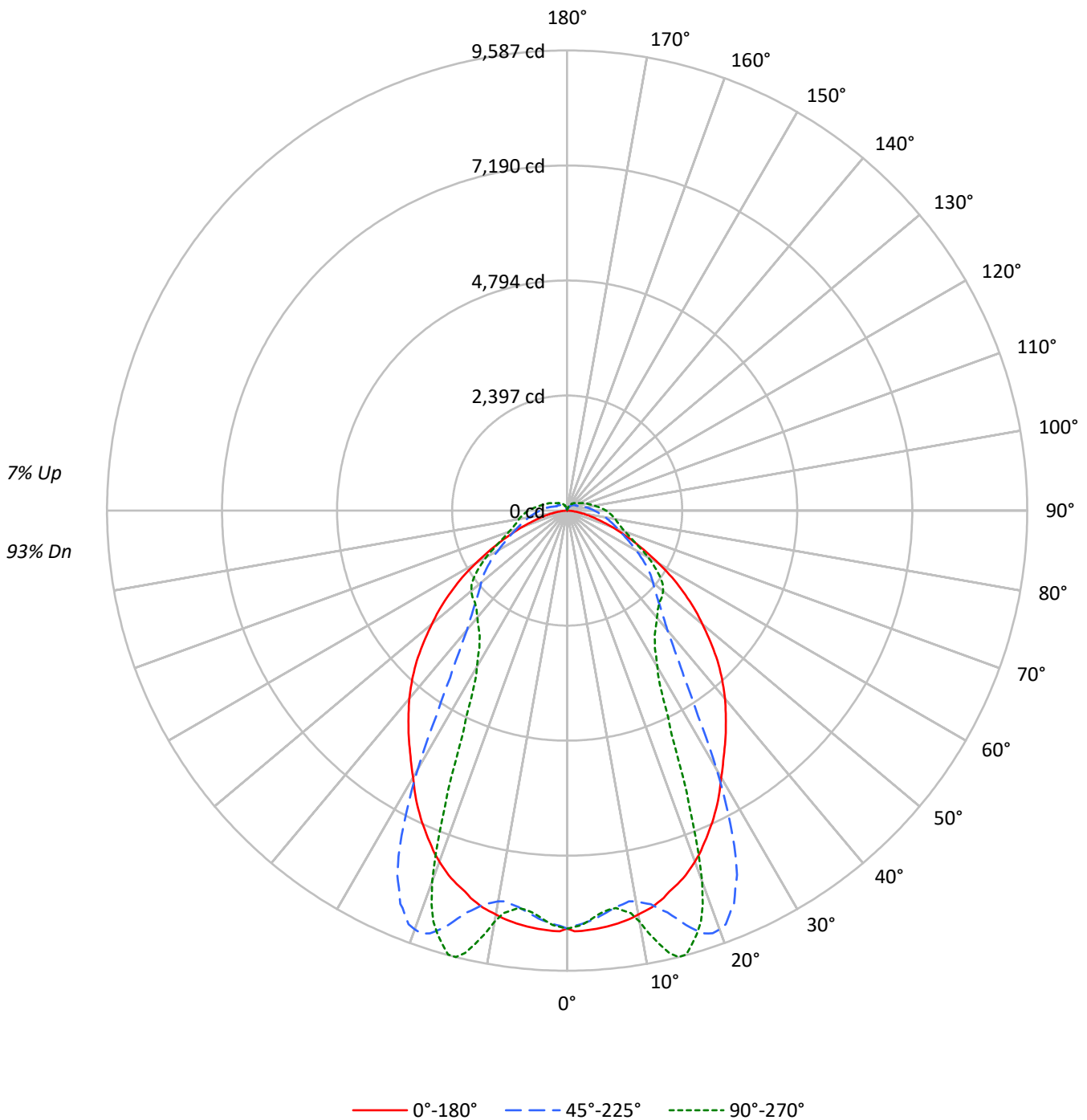
Lumens per Lamp: N/A
Luminaire Lumens: 19351.0 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

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°	46861	46861	46861
5°	47002	43789	42894
10°	46525	41626	42535
15°	45527	43345	45281
20°	44236	45189	37897
25°	42102	40548	23302
30°	39424	30208	16864
35°	37251	20854	14226
40°	35314	16188	13111
45°	33043	13785	12400
50°	30052	12374	12172
55°	26895	11192	11262
60°	22806	9686	9741
65°	18549	8437	8130
70°	14555	7584	7159
75°	11287	7051	6676
80°	7944	6678	6608
85°	4419	6372	6561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	810.2	4.2
10°-20°	2475.7	12.8
20°-30°	3333.6	17.2
30°-40°	3154.9	16.3
40°-50°	2784.6	14.4
50°-60°	2261.7	11.7
60°-70°	1538.2	7.9
70°-80°	989.8	5.1
80°-90°	658.1	3.4
90°-100°	452.3	2.3
100°-110°	303.6	1.6
110°-120°	214.1	1.1
120°-130°	153.0	0.8
130°-140°	107.9	0.6
140°-150°	67.0	0.3
150°-160°	32.7	0.2
160°-170°	11.4	0.1
170°-180°	2.0	0.0
0°-30°	6619.5	34.2
0°-40°	9774.4	50.5
0°-60°	14820.8	76.6
0°-90°	18006.9	93.1
90°-120°	970.1	5.0
90°-150°	1298.0	6.7
90°-180°	1344.0	6.9
0°-180°	19351.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8707	8707	8707	8707	8707	
5°	8716	8636	8450	8444	8403	827
15°	8216	8163	8793	9570	9579	2316
25°	7159	8488	8376	6083	5144	3285
35°	5752	8072	4254	3277	3176	3600
45°	4432	5430	2692	2659	2715	3403
55°	2952	3212	2021	2257	2343	2636
65°	1522	1731	1353	1504	1551	1528
75°	585	818	954	1070	1120	637
85°	89	349	677	857	916	116
90°	3	242	564	759	810	5
95°	3	186	476	644	688	2
105°	6	130	313	440	493	6
115°	6	112	230	328	369	7
125°	9	94	198	248	266	8
135°	12	74	162	207	219	9
145°	12	53	115	160	174	8
155°	15	32	71	106	121	7
165°	15	21	38	53	65	4
175°	18	18	18	18	15	2
180°	15	15	15	15	15	



TEST NUMBER: P567548

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8707.0	8707.0	8707.0	8707.0	8707.0
1°	8766.1	8739.5	8650.9	8698.1	8674.5
2°	8763.1	8718.8	8618.4	8671.5	8642.0
3°	8748.4	8701.1	8571.1	8603.6	8559.3
4°	8733.6	8677.5	8520.9	8520.9	8470.6
5°	8715.9	8636.1	8450.0	8444.0	8402.7
6°	8695.2	8603.6	8387.9	8382.0	8358.4
7°	8665.6	8547.5	8320.0	8361.3	8343.6
8°	8630.2	8494.3	8284.5	8387.9	8414.5
9°	8597.7	8429.3	8243.1	8470.6	8491.3
10°	8544.5	8370.2	8269.7	8636.1	8698.1
11°	8500.2	8320.0	8328.8	8798.6	8984.7
12°	8455.9	8266.8	8385.0	9002.4	9229.9
13°	8382.0	8225.4	8509.0	9224.0	9457.4
14°	8317.0	8192.9	8630.2	9448.6	9587.4
15°	8216.5	8163.4	8792.7	9569.7	9578.6
16°	8148.6	8142.7	8981.8	9578.6	9413.1
17°	8071.8	8133.8	9135.4	9424.9	9229.9
18°	7986.1	8151.5	9262.4	9232.9	9008.4
19°	7888.6	8169.3	9315.6	8967.0	8677.5
20°	7782.2	8195.9	9286.1	8689.3	8222.5
21°	7675.9	8231.3	9229.9	8396.8	7625.6
22.5°	7477.9	8317.0	8964.0	7575.4	6638.8
23°	7421.8	8334.7	8902.0	7318.4	6381.8
24°	7282.9	8408.6	8618.4	6718.6	5702.2
25°	7158.8	8488.4	8376.1	6083.4	5143.8
26°	7020.0	8547.5	8009.7	5498.4	4801.1
27°	6884.1	8582.9	7593.1	5043.4	4417.0
28°	6727.5	8621.3	7141.1	4650.4	4127.5
29°	6579.7	8627.2	6695.0	4337.2	3900.0
30°	6420.2	8597.7	6225.2	4086.1	3758.2
32.5°	6071.6	8435.2	5075.9	3607.5	3403.6
35°	5752.5	8071.8	4254.5	3276.6	3176.1
37.5°	5430.4	7498.6	3678.4	3069.8	3037.3
40°	5114.3	6819.1	3244.1	2904.3	2910.2
42.5°	4780.4	6118.8	2945.7	2768.4	2795.0
45°	4431.8	5430.4	2691.6	2659.1	2715.2
47.5°	4044.8	4801.1	2490.7	2588.2	2673.8
50°	3678.4	4177.7	2334.1	2520.2	2608.8
52.5°	3329.8	3666.6	2192.3	2405.0	2508.4
55°	2951.6	3211.6	2020.9	2257.3	2342.9
57.5°	2591.1	2800.9	1840.7	2074.1	2150.9
60°	2195.2	2396.1	1657.5	1876.1	1950.0
62.5°	1837.7	2050.4	1500.9	1678.2	1737.3
65°	1521.6	1731.4	1353.2	1503.9	1551.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1240.9	1465.4	1232.0	1359.1	1403.4
70°	977.9	1214.3	1125.7	1240.9	1288.2
72.5°	765.2	1004.5	1037.0	1143.4	1190.7
75°	585.0	818.4	954.3	1069.5	1119.8
77.5°	434.3	667.7	877.5	1010.4	1063.6
80°	286.6	531.8	809.5	957.3	1019.3
82.5°	180.2	428.4	741.6	904.1	969.1
85°	88.6	348.6	676.6	856.8	915.9
87.5°	29.5	289.5	617.5	809.5	859.8
90°	3.0	242.3	564.3	759.3	809.5
92.5°	3.0	209.8	520.0	700.2	750.5
95°	3.0	186.1	475.7	644.1	688.4
97.5°	3.0	168.4	434.3	585.0	632.3
100°	3.0	150.7	390.0	528.9	579.1
102.5°	5.9	138.9	351.6	481.6	534.8
105°	5.9	130.0	313.2	440.2	493.4
107.5°	5.9	124.1	280.7	407.7	458.0
110°	5.9	118.2	257.0	378.2	431.4
112.5°	5.9	115.2	242.3	351.6	401.8
115°	5.9	112.3	230.5	328.0	369.3
117.5°	8.9	109.3	221.6	304.3	336.8
120°	8.9	103.4	215.7	283.6	310.2
122.5°	8.9	97.5	206.8	265.9	286.6
125°	8.9	94.5	198.0	248.2	265.9
127.5°	8.9	88.6	189.1	233.4	251.1
130°	11.8	82.7	180.2	221.6	236.4
132.5°	11.8	76.8	171.4	215.7	227.5
135°	11.8	73.9	162.5	206.8	218.6
137.5°	11.8	68.0	153.6	198.0	209.8
140°	11.8	62.0	141.8	186.1	198.0
142.5°	11.8	59.1	130.0	174.3	186.1
145°	11.8	53.2	115.2	159.5	174.3
147.5°	14.8	50.2	103.4	147.7	159.5
150°	14.8	44.3	91.6	135.9	147.7
152.5°	14.8	38.4	79.8	121.1	133.0
155°	14.8	32.5	70.9	106.4	121.1
157.5°	14.8	29.5	62.0	88.6	106.4
160°	14.8	26.6	53.2	76.8	91.6
162.5°	14.8	23.6	47.3	65.0	79.8
165°	14.8	20.7	38.4	53.2	65.0
167.5°	17.7	20.7	32.5	41.4	53.2
170°	17.7	20.7	26.6	32.5	41.4
172.5°	17.7	17.7	20.7	23.6	26.6
175°	17.7	17.7	17.7	17.7	14.8
177.5°	17.7	17.7	17.7	14.8	14.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	14.8	14.8	14.8	14.8	14.8

(END OF REPORT)