

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: P567452

Luminaire Tested: **8SNX-162HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567452  
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-162HL-LC-UNV-L840-CD  
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

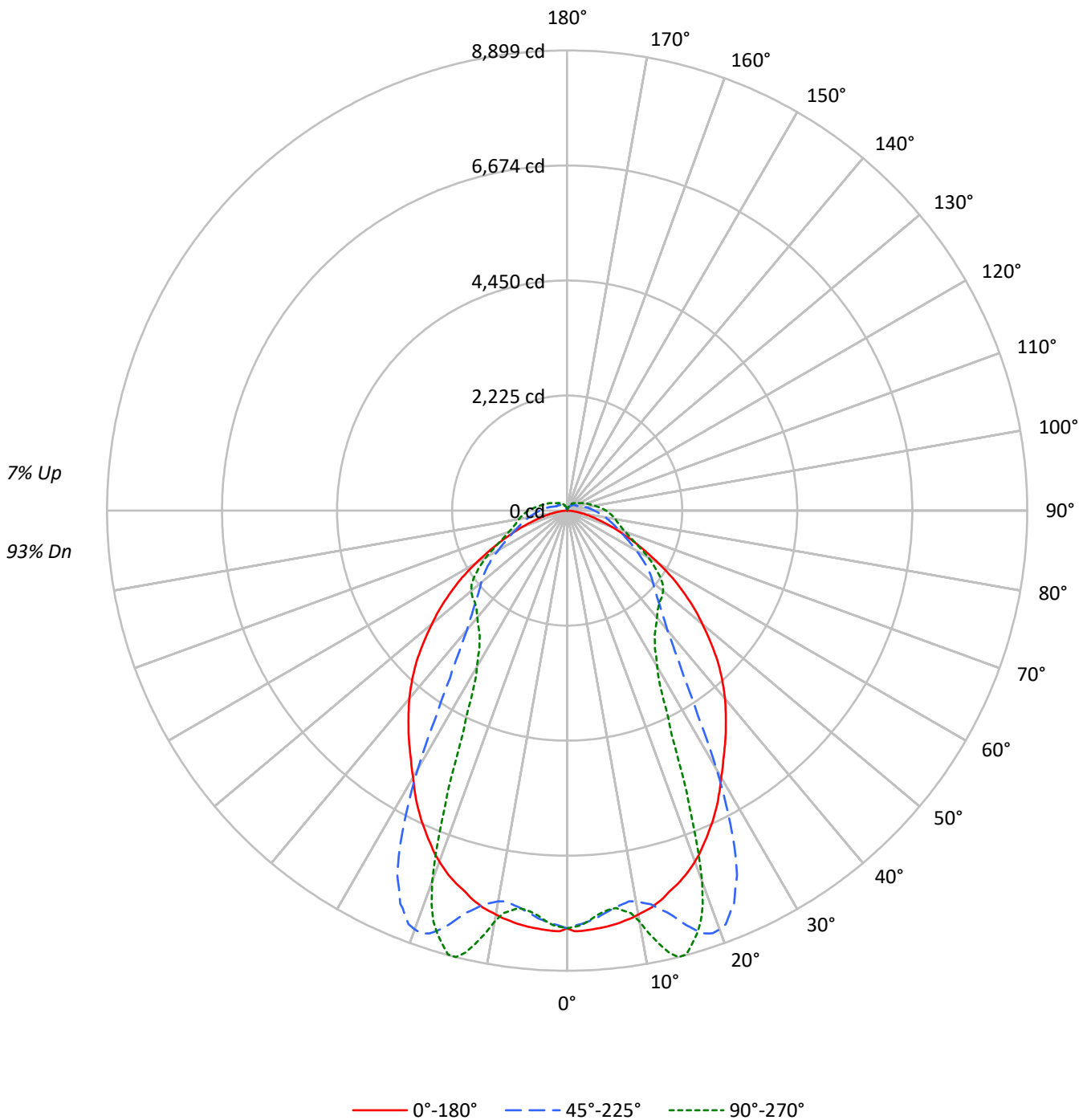
Lumens per Lamp: N/A  
Luminaire Lumens: 17961.0 lumens  
Efficiency: N/A  
Efficacy: 163.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 110.2  
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

TEST NUMBER: P567452

CATALOG NUMBER: 8SNX-162HL-LC-UNV-L840-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P567452

CATALOG NUMBER: 8SNX-162HL-LC-UNV-L840-CD

**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°	43495	43495	43495
5°	43626	40643	39813
10°	43183	38636	39479
15°	42256	40231	42028
20°	41059	41943	35175
25°	39078	37635	21628
30°	36592	28038	15653
35°	34576	19356	13205
40°	32777	15025	12170
45°	30670	12794	11509
50°	27894	11485	11298
55°	24963	10388	10453
60°	21168	8990	9041
65°	17216	7831	7546
70°	13510	7039	6644
75°	10477	6545	6196
80°	7373	6199	6133
85°	4105	5915	6090



TEST NUMBER: P567452

CATALOG NUMBER: 8SNX-162HL-LC-UNV-L840-CD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.0	4.2
10°-20°	2297.9	12.8
20°-30°	3094.1	17.2
30°-40°	2928.3	16.3
40°-50°	2584.6	14.4
50°-60°	2099.3	11.7
60°-70°	1427.7	7.9
70°-80°	918.7	5.1
80°-90°	610.9	3.4
90°-100°	419.8	2.3
100°-110°	281.8	1.6
110°-120°	198.8	1.1
120°-130°	142.0	0.8
130°-140°	100.2	0.6
140°-150°	62.2	0.3
150°-160°	30.3	0.2
160°-170°	10.6	0.1
170°-180°	1.8	0.0
0°-30°	6144.0	34.2
0°-40°	9072.3	50.5
0°-60°	13756.1	76.6
0°-90°	16713.4	93.1
90°-120°	900.4	5.0
90°-150°	1204.8	6.7
90°-180°	1248.0	6.9
0°-180°	17961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8082	8082	8082	8082	8082	
5°	8090	8016	7843	7838	7799	767
15°	7626	7577	8161	8882	8890	2150
25°	6645	7879	7774	5646	4774	3049
35°	5339	7492	3949	3041	2948	3341
45°	4114	5040	2498	2468	2520	3158
55°	2740	2981	1876	2095	2175	2447
65°	1412	1607	1256	1396	1440	1418
75°	543	760	886	993	1039	591
85°	82	324	628	795	850	108
90°	3	225	524	705	751	5
95°	3	173	442	598	639	2
105°	6	121	291	409	458	5
115°	6	104	214	304	343	6
125°	8	88	184	230	247	8
135°	11	69	151	192	203	9
145°	11	49	107	148	162	7
155°	14	30	66	99	112	6
165°	14	19	36	49	60	4
175°	16	16	16	16	14	2
180°	14	14	14	14	14	



TEST NUMBER: P567452

CATALOG NUMBER: 8SNX-162HL-LC-UNV-L840-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8081.6	8081.6	8081.6	8081.6	8081.6
1°	8136.4	8111.7	8029.5	8073.3	8051.4
2°	8133.7	8092.5	7999.3	8048.7	8021.2
3°	8120.0	8076.1	7955.4	7985.6	7944.5
4°	8106.2	8054.1	7908.8	7908.8	7862.2
5°	8089.8	8015.7	7843.0	7837.5	7799.1
6°	8070.6	7985.6	7785.4	7779.9	7758.0
7°	8043.2	7933.5	7722.3	7760.7	7744.3
8°	8010.3	7884.1	7689.4	7785.4	7810.1
9°	7980.1	7823.8	7651.0	7862.2	7881.4
10°	7930.7	7768.9	7675.7	8015.7	8073.3
11°	7889.6	7722.3	7730.6	8166.6	8339.3
12°	7848.5	7673.0	7782.7	8355.8	8567.0
13°	7779.9	7634.6	7897.8	8561.5	8778.1
14°	7719.6	7604.4	8010.3	8769.9	8898.8
15°	7626.3	7577.0	8161.1	8882.3	8890.5
16°	7563.3	7557.8	8336.6	8890.5	8737.0
17°	7492.0	7549.6	8479.2	8747.9	8567.0
18°	7412.4	7566.0	8597.1	8569.7	8361.3
19°	7321.9	7582.5	8646.5	8322.9	8054.1
20°	7223.2	7607.1	8619.1	8065.1	7631.8
21°	7124.5	7640.1	8567.0	7793.6	7077.9
22.5°	6940.8	7719.6	8320.1	7031.3	6162.0
23°	6888.7	7736.0	8262.6	6792.7	5923.4
24°	6759.8	7804.6	7999.3	6236.0	5292.6
25°	6644.6	7878.6	7774.4	5646.4	4774.3
26°	6515.7	7933.5	7434.4	5103.4	4456.2
27°	6389.6	7966.4	7047.7	4681.1	4099.7
28°	6244.2	8002.0	6628.1	4316.4	3831.0
29°	6107.1	8007.5	6214.1	4025.7	3619.8
30°	5959.0	7980.1	5778.0	3792.6	3488.2
32.5°	5635.4	7829.3	4711.3	3348.4	3159.1
35°	5339.3	7492.0	3948.9	3041.2	2948.0
37.5°	5040.4	6960.0	3414.2	2849.3	2819.1
40°	4746.9	6329.2	3011.0	2695.7	2701.2
42.5°	4437.0	5679.3	2734.1	2569.5	2594.2
45°	4113.5	5040.4	2498.2	2468.1	2520.2
47.5°	3754.2	4456.2	2311.8	2402.3	2481.8
50°	3414.2	3877.6	2166.4	2339.2	2421.5
52.5°	3090.6	3403.2	2034.8	2232.2	2328.2
55°	2739.6	2980.9	1875.7	2095.1	2174.6
57.5°	2405.0	2599.7	1708.5	1925.1	1996.4
60°	2037.5	2224.0	1538.4	1741.4	1809.9
62.5°	1705.7	1903.2	1393.1	1557.6	1612.5
65°	1412.3	1607.0	1256.0	1395.8	1439.7



TEST NUMBER: P567452

CATALOG NUMBER: 8SNX-162HL-LC-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1151.8	1360.2	1143.5	1261.5	1302.6
70°	907.7	1127.1	1044.8	1151.8	1195.6
72.5°	710.3	932.4	962.5	1061.3	1105.1
75°	543.0	759.6	885.8	992.7	1039.3
77.5°	403.1	619.8	814.5	937.9	987.2
80°	266.0	493.6	751.4	888.5	946.1
82.5°	167.3	397.6	688.3	839.1	899.5
85°	82.3	323.6	628.0	795.3	850.1
87.5°	27.4	268.7	573.1	751.4	798.0
90°	2.7	224.9	523.8	704.8	751.4
92.5°	2.7	194.7	482.6	649.9	696.5
95°	2.7	172.8	441.5	597.8	639.0
97.5°	2.7	156.3	403.1	543.0	586.9
100°	2.7	139.9	362.0	490.9	537.5
102.5°	5.5	128.9	326.3	447.0	496.4
105°	5.5	120.7	290.7	408.6	458.0
107.5°	5.5	115.2	260.5	378.4	425.1
110°	5.5	109.7	238.6	351.0	400.4
112.5°	5.5	106.9	224.9	326.3	373.0
115°	5.5	104.2	213.9	304.4	342.8
117.5°	8.2	101.5	205.7	282.5	312.6
120°	8.2	96.0	200.2	263.3	287.9
122.5°	8.2	90.5	192.0	246.8	266.0
125°	8.2	87.8	183.7	230.4	246.8
127.5°	8.2	82.3	175.5	216.6	233.1
130°	11.0	76.8	167.3	205.7	219.4
132.5°	11.0	71.3	159.1	200.2	211.2
135°	11.0	68.6	150.8	192.0	202.9
137.5°	11.0	63.1	142.6	183.7	194.7
140°	11.0	57.6	131.6	172.8	183.7
142.5°	11.0	54.8	120.7	161.8	172.8
145°	11.0	49.4	106.9	148.1	161.8
147.5°	13.7	46.6	96.0	137.1	148.1
150°	13.7	41.1	85.0	126.1	137.1
152.5°	13.7	35.6	74.0	112.4	123.4
155°	13.7	30.2	65.8	98.7	112.4
157.5°	13.7	27.4	57.6	82.3	98.7
160°	13.7	24.7	49.4	71.3	85.0
162.5°	13.7	21.9	43.9	60.3	74.0
165°	13.7	19.2	35.6	49.4	60.3
167.5°	16.5	19.2	30.2	38.4	49.4
170°	16.5	19.2	24.7	30.2	38.4
172.5°	16.5	16.5	19.2	21.9	24.7
175°	16.5	16.5	16.5	16.5	13.7
177.5°	16.5	16.5	16.5	13.7	13.7



TEST NUMBER: P567452

CATALOG NUMBER: 8SNX-162HL-LC-UNV-L840-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	13.7	13.7	13.7	13.7	13.7

(END OF REPORT)