

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: P567156

Luminaire Tested: **8SNX-102SL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-102SL-FDL-UNV-L840-CD
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

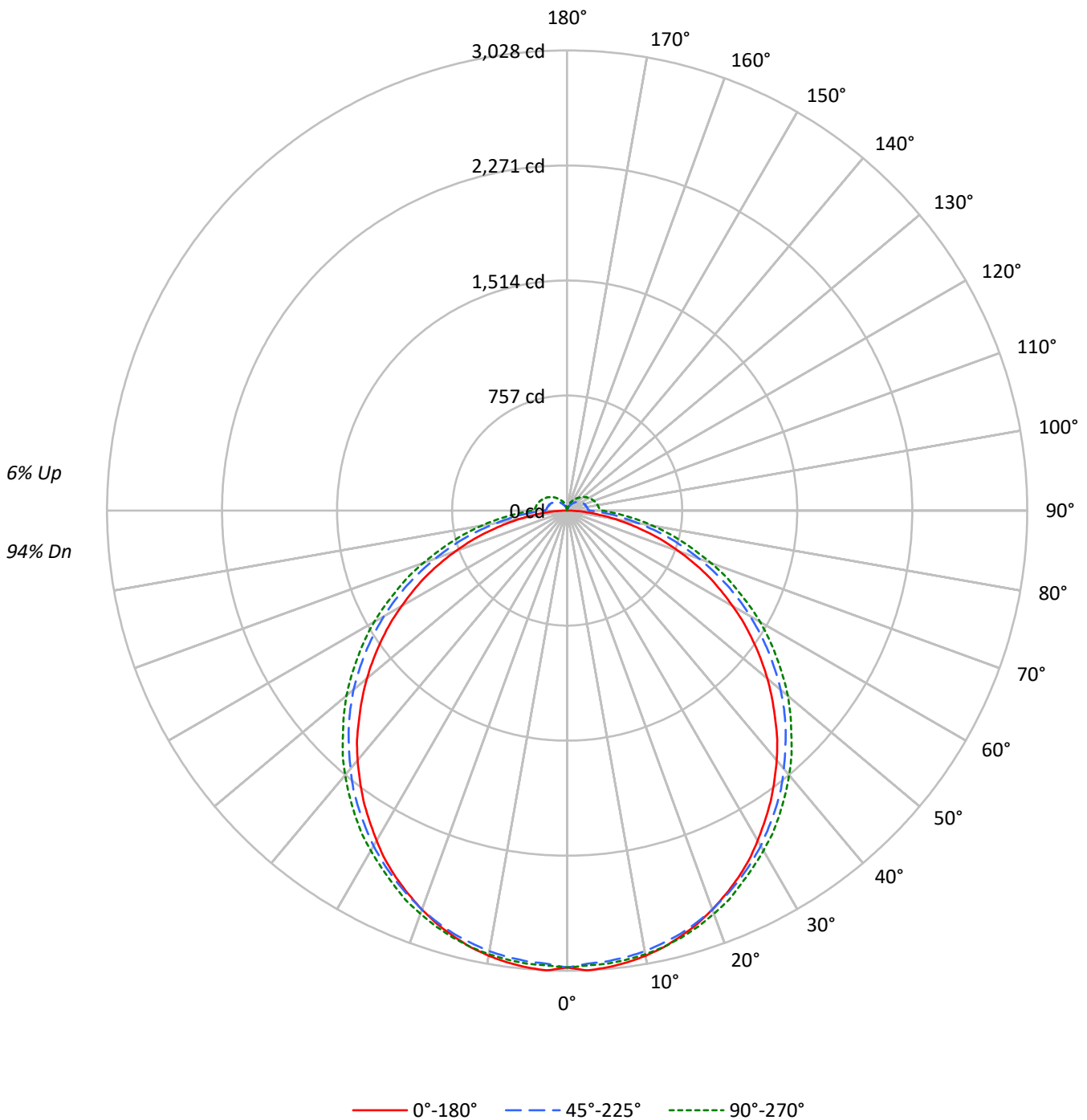
Lumens per Lamp: N/A
Luminaire Lumens: 9554.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Direct

Input Watts (W): 70
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: P567156

CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567156

CATALOG NUMBER: 8SNX-102SL-FDL-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	0
RCR																				
0	118	118	118	118	114	114	114	114	108	108	108		102	102	102		97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87		88	86	83		84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71		77	73	69		73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59		68	62	57		64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50		60	54	49		57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43		54	47	42		51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38		49	42	37		47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33		44	38	33		43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30		41	34	29		39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27		37	31	26		36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24		35	28	24		33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16181	16181	16181
5°	16299	15918	15937
10°	16240	15751	15737
15°	16126	15557	15512
20°	15968	15321	15247
25°	15786	15061	14935
30°	15536	14796	14646
35°	15284	14485	14344
40°	15007	14141	14005
45°	14655	13801	13610
50°	14317	13413	13248
55°	13898	12932	12746
60°	13428	12381	12253
65°	12934	11724	11571
70°	12074	10898	10866
75°	11043	9924	10020
80°	9525	8629	9085
85°	7693	7521	7984



TEST NUMBER: P567156

CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.1	3.0
10°-20°	818.2	8.6
20°-30°	1239.9	13.0
30°-40°	1496.8	15.7
40°-50°	1563.0	16.4
50°-60°	1435.9	15.0
60°-70°	1135.5	11.9
70°-80°	718.6	7.5
80°-90°	308.9	3.2
90°-100°	136.0	1.4
100°-110°	121.7	1.3
110°-120°	102.8	1.1
120°-130°	80.1	0.8
130°-140°	55.5	0.6
140°-150°	33.3	0.3
150°-160°	16.2	0.2
160°-170°	5.6	0.1
170°-180°	0.8	0.0
0°-30°	2343.2	24.5
0°-40°	3840.0	40.2
0°-60°	6838.9	71.6
0°-90°	9002.0	94.2
90°-120°	360.4	3.8
90°-150°	529.3	5.5
90°-180°	552.0	5.8
0°-180°	9554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3006	3006	3006	3006	3006	
5°	3018	3010	2978	3003	2993	287
15°	2898	2898	2883	2913	2908	818
25°	2665	2676	2680	2716	2710	1227
35°	2335	2362	2392	2430	2438	1460
45°	1936	1983	2034	2072	2086	1495
55°	1492	1553	1617	1670	1682	1335
65°	1027	1084	1161	1215	1233	1011
75°	541	606	694	753	782	574
85°	132	203	291	354	376	146
90°	8	73	149	208	230	11
95°	2	63	135	190	210	1
105°	2	58	127	178	196	2
115°	2	49	115	161	178	2
125°	3	44	96	139	154	3
135°	3	34	78	110	124	3
145°	3	25	54	83	91	2
155°	3	17	36	52	63	2
165°	5	12	19	25	36	1
175°	5	7	8	8	5	0
180°	5	5	5	5	5	



TEST NUMBER: P567156

CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3006.5	3006.5	3006.5	3006.5	3006.5
2.5°	3028.5	3018.3	2984.5	3008.2	2996.3
5°	3018.3	3009.8	2977.7	3003.1	2992.9
7.5°	2999.7	2992.9	2964.2	2991.2	2981.1
10°	2974.3	2969.2	2943.9	2970.9	2964.2
12.5°	2942.2	2940.5	2915.1	2945.6	2940.5
15°	2898.2	2898.2	2883.0	2913.4	2908.3
17.5°	2850.8	2852.5	2840.7	2872.8	2869.4
20°	2793.3	2801.7	2793.3	2827.1	2823.7
22.5°	2730.7	2742.5	2739.1	2773.0	2774.7
25°	2664.7	2676.5	2679.9	2715.5	2710.4
27.5°	2592.0	2610.6	2617.3	2649.5	2647.8
30°	2507.4	2532.7	2548.0	2575.0	2583.5
32.5°	2421.1	2451.5	2470.1	2507.4	2517.5
35°	2334.8	2361.9	2392.3	2429.5	2438.0
37.5°	2240.0	2270.5	2311.1	2346.6	2356.8
40°	2145.3	2179.1	2218.0	2257.0	2272.2
42.5°	2047.2	2082.7	2125.0	2170.7	2185.9
45°	1935.5	1982.9	2033.6	2072.5	2086.1
47.5°	1828.9	1881.4	1935.5	1977.8	1993.0
50°	1720.6	1776.5	1834.0	1872.9	1896.6
52.5°	1607.3	1668.2	1725.7	1774.8	1790.0
55°	1492.2	1553.1	1617.4	1669.9	1681.7
57.5°	1380.6	1439.8	1504.1	1553.1	1576.8
60°	1258.8	1323.0	1392.4	1441.5	1466.9
62.5°	1140.3	1202.9	1277.4	1329.8	1350.1
65°	1027.0	1084.5	1160.6	1214.8	1233.4
67.5°	901.8	967.8	1040.5	1103.1	1126.8
70°	778.3	840.9	923.8	983.0	1006.7
72.5°	663.2	724.1	807.0	866.2	888.2
75°	541.4	605.7	693.7	752.9	781.6
77.5°	424.7	495.7	580.3	644.6	676.8
80°	316.4	379.0	470.3	541.4	570.2
82.5°	214.9	282.5	377.3	443.3	475.4
85°	132.0	203.0	291.0	353.6	375.6
87.5°	62.6	130.3	211.5	272.4	299.5
90°	8.5	72.8	148.9	208.1	230.1
92.5°	1.7	62.6	137.0	192.9	213.2
95°	1.7	62.6	135.4	189.5	209.8
97.5°	1.7	60.9	133.7	187.8	206.4
100°	1.7	59.2	132.0	184.4	204.7
102.5°	1.7	59.2	128.6	181.0	199.6
105°	1.7	57.5	126.9	177.6	196.3
107.5°	1.7	55.8	123.5	174.3	192.9
110°	1.7	52.4	121.8	169.2	187.8



TEST NUMBER: P567156

CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	50.8	118.4	165.8	182.7
115°	1.7	49.1	115.0	160.7	177.6
117.5°	1.7	47.4	110.0	155.7	172.6
120°	3.4	47.4	106.6	150.6	165.8
122.5°	3.4	45.7	101.5	143.8	159.0
125°	3.4	44.0	96.4	138.7	154.0
127.5°	3.4	42.3	91.4	132.0	145.5
130°	3.4	38.9	88.0	125.2	138.7
132.5°	3.4	37.2	82.9	116.7	130.3
135°	3.4	33.8	77.8	110.0	123.5
137.5°	3.4	32.1	72.8	103.2	115.0
140°	3.4	30.5	66.0	96.4	108.3
142.5°	3.4	27.1	60.9	89.7	99.8
145°	3.4	25.4	54.1	82.9	91.4
147.5°	3.4	22.0	49.1	76.1	84.6
150°	3.4	20.3	44.0	69.4	77.8
152.5°	3.4	18.6	38.9	60.9	69.4
155°	3.4	16.9	35.5	52.4	62.6
157.5°	3.4	15.2	30.5	45.7	55.8
160°	5.1	13.5	27.1	38.9	47.4
162.5°	5.1	11.8	22.0	32.1	42.3
165°	5.1	11.8	18.6	25.4	35.5
167.5°	5.1	10.2	15.2	20.3	28.8
170°	5.1	8.5	13.5	15.2	22.0
172.5°	5.1	6.8	10.2	10.2	11.8
175°	5.1	6.8	8.5	8.5	5.1
177.5°	5.1	5.1	5.1	5.1	3.4
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)