

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: P567180

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-102SL-LW-UNV-L840-CD
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

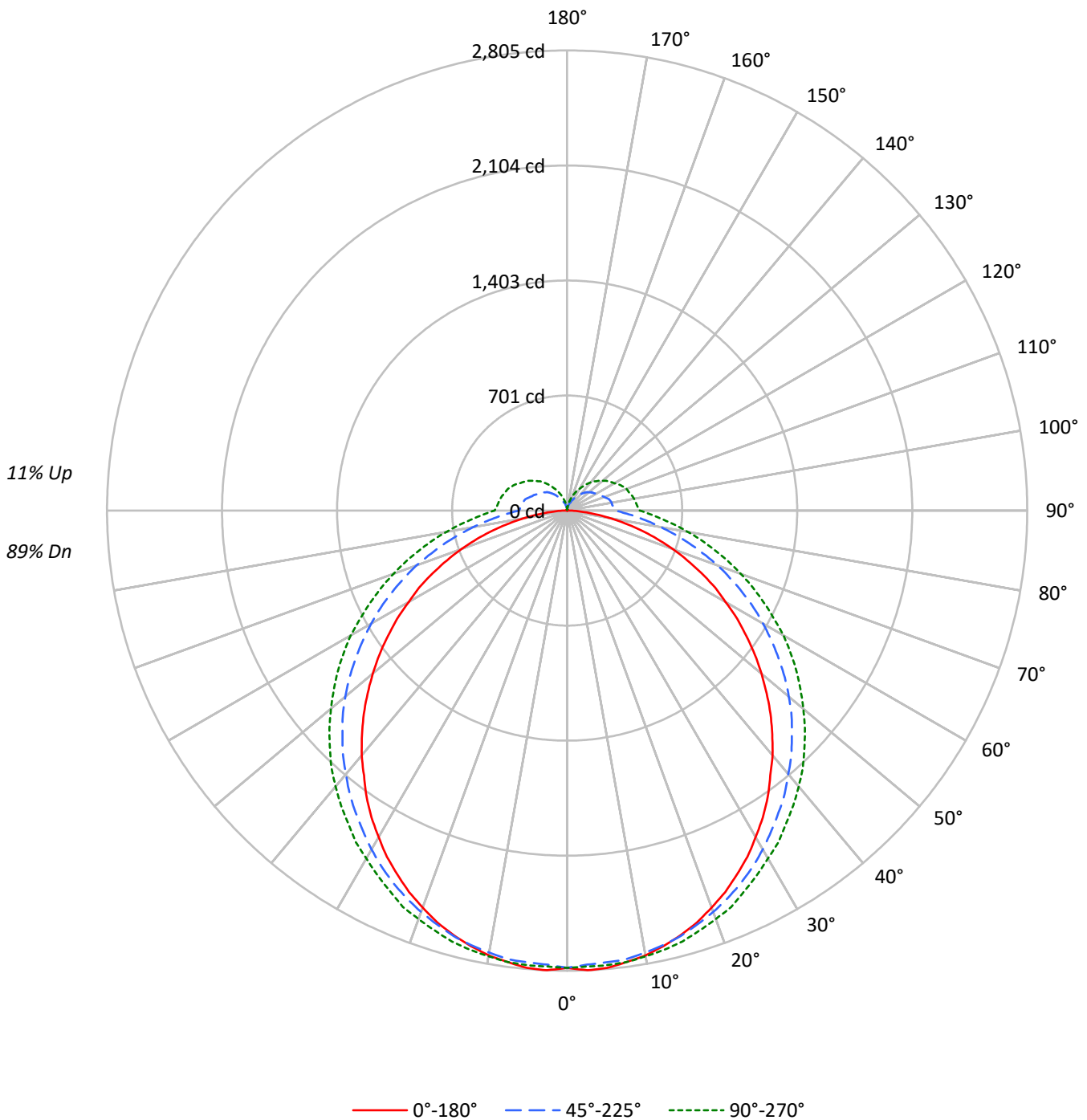
Lumens per Lamp: N/A
Luminaire Lumens: 9923.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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: P567180

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

Luminous Intensity Polar Plot





TEST NUMBER: P567180

CATALOG NUMBER: 8SNX-102SL-LW-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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15002	15002	15002
5°	15094	14325	14199
10°	14989	13770	13490
15°	14840	13231	12851
20°	14635	12669	12211
25°	14399	12130	11586
30°	14117	11574	10986
35°	13807	11015	10426
40°	13453	10468	9891
45°	13069	9919	9343
50°	12631	9354	8768
55°	12150	8721	8204
60°	11584	8060	7608
65°	10999	7346	6928
70°	10179	6582	6260
75°	9093	5690	5550
80°	7329	4789	4843
85°	5157	3951	4117



TEST NUMBER: P567180

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	2.7
10°-20°	761.0	7.7
20°-30°	1157.1	11.7
30°-40°	1404.6	14.2
40°-50°	1484.3	15.0
50°-60°	1388.9	14.0
60°-70°	1139.6	11.5
70°-80°	783.8	7.9
80°-90°	429.3	4.3
90°-100°	276.4	2.8
100°-110°	248.0	2.5
110°-120°	205.3	2.1
120°-130°	158.1	1.6
130°-140°	111.1	1.1
140°-150°	66.9	0.7
150°-160°	32.0	0.3
160°-170°	10.5	0.1
170°-180°	1.3	0.0
0°-30°	2182.8	22.0
0°-40°	3587.4	36.2
0°-60°	6460.6	65.1
0°-90°	8813.3	88.8
90°-120°	729.8	7.4
90°-150°	1065.9	10.7
90°-180°	1110.0	11.2
0°-180°	9923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2787	2787	2787	2787	2787	
5°	2799	2793	2764	2787	2782	265
15°	2678	2690	2684	2718	2718	755
25°	2448	2477	2506	2558	2558	1128
35°	2132	2184	2247	2310	2328	1332
45°	1753	1833	1937	2023	2046	1351
55°	1333	1442	1575	1672	1707	1193
65°	902	1023	1178	1287	1322	894
75°	471	598	770	891	931	496
85°	103	247	420	534	575	120
90°	0	138	293	402	442	7
95°	0	132	282	385	425	0
105°	0	109	264	362	397	4
115°	6	98	224	322	362	6
125°	6	80	190	276	310	5
135°	6	63	155	224	253	4
145°	6	46	109	172	190	4
155°	6	29	69	109	126	3
165°	6	17	34	52	63	2
175°	6	6	12	12	6	1
180°	6	6	6	6	6	



TEST NUMBER: P567180

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2787.4	2787.4	2787.4	2787.4	2787.4
2.5°	2804.6	2798.9	2770.2	2793.1	2781.6
5°	2798.9	2793.1	2764.4	2787.4	2781.6
7.5°	2775.9	2775.9	2758.7	2781.6	2775.9
10°	2752.9	2752.9	2735.7	2764.4	2758.7
12.5°	2718.4	2724.2	2712.7	2747.2	2741.4
15°	2678.2	2689.7	2683.9	2718.4	2718.4
17.5°	2632.2	2643.7	2643.7	2683.9	2683.9
20°	2574.7	2592.0	2603.5	2649.5	2649.5
22.5°	2517.3	2540.3	2557.5	2597.7	2615.0
25°	2448.3	2477.0	2505.8	2557.5	2557.5
27.5°	2379.3	2413.8	2448.3	2500.0	2505.8
30°	2298.9	2339.1	2385.1	2436.8	2448.3
32.5°	2218.4	2270.1	2316.1	2379.3	2396.6
35°	2132.2	2183.9	2247.2	2310.4	2327.6
37.5°	2034.5	2097.7	2178.2	2247.2	2264.4
40°	1948.3	2017.3	2097.7	2178.2	2195.4
42.5°	1850.6	1925.3	2023.0	2097.7	2126.5
45°	1752.9	1833.4	1936.8	2023.0	2046.0
47.5°	1649.4	1741.4	1856.3	1936.8	1965.5
50°	1546.0	1643.7	1764.4	1856.3	1879.3
52.5°	1442.5	1546.0	1672.4	1764.4	1793.1
55°	1333.4	1442.5	1574.7	1672.4	1706.9
57.5°	1229.9	1339.1	1477.0	1580.5	1615.0
60°	1115.0	1241.4	1379.3	1482.8	1523.0
62.5°	1017.3	1132.2	1281.6	1385.1	1419.6
65°	902.3	1023.0	1178.2	1287.4	1321.9
67.5°	793.1	919.6	1074.7	1189.7	1224.2
70°	683.9	810.4	977.0	1086.2	1126.5
72.5°	574.7	706.9	867.8	988.5	1028.7
75°	471.3	597.7	770.1	890.8	931.0
77.5°	362.1	500.0	672.4	793.1	839.1
80°	264.4	408.1	580.5	701.2	747.1
82.5°	178.2	321.8	494.3	615.0	660.9
85°	103.4	247.1	419.5	534.5	574.7
87.5°	51.7	189.7	350.6	465.5	505.8
90°	0.0	137.9	293.1	402.3	442.5
92.5°	0.0	132.2	287.4	390.8	431.0
95°	0.0	132.2	281.6	385.1	425.3
97.5°	0.0	126.4	275.9	385.1	419.5
100°	0.0	120.7	275.9	379.3	413.8
102.5°	0.0	114.9	270.1	373.6	408.1
105°	0.0	109.2	264.4	362.1	396.6
107.5°	5.7	109.2	252.9	356.3	390.8
110°	5.7	103.4	241.4	350.6	385.1



TEST NUMBER: P567180

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.7	97.7	229.9	339.1	373.6
115°	5.7	97.7	224.1	321.8	362.1
117.5°	5.7	92.0	212.6	310.3	350.6
120°	5.7	92.0	206.9	298.9	333.3
122.5°	5.7	86.2	195.4	287.4	321.8
125°	5.7	80.5	189.7	275.9	310.3
127.5°	5.7	74.7	183.9	264.4	298.9
130°	5.7	69.0	172.4	252.9	281.6
132.5°	5.7	69.0	166.7	235.6	270.1
135°	5.7	63.2	155.2	224.1	252.9
137.5°	5.7	57.5	143.7	212.6	241.4
140°	5.7	51.7	132.2	201.2	224.1
142.5°	5.7	51.7	120.7	183.9	206.9
145°	5.7	46.0	109.2	172.4	189.7
147.5°	5.7	40.2	97.7	155.2	172.4
150°	5.7	40.2	86.2	137.9	155.2
152.5°	5.7	34.5	74.7	126.4	143.7
155°	5.7	28.7	69.0	109.2	126.4
157.5°	5.7	28.7	57.5	92.0	109.2
160°	5.7	23.0	51.7	74.7	92.0
162.5°	5.7	23.0	46.0	63.2	80.5
165°	5.7	17.2	34.5	51.7	63.2
167.5°	5.7	17.2	28.7	40.2	51.7
170°	5.7	11.5	23.0	28.7	40.2
172.5°	5.7	11.5	17.2	17.2	17.2
175°	5.7	5.7	11.5	11.5	5.7
177.5°	5.7	5.7	5.7	5.7	5.7
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)