

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: P567157

Luminaire Tested: **8SNX-102SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567157
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-L850-CD
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

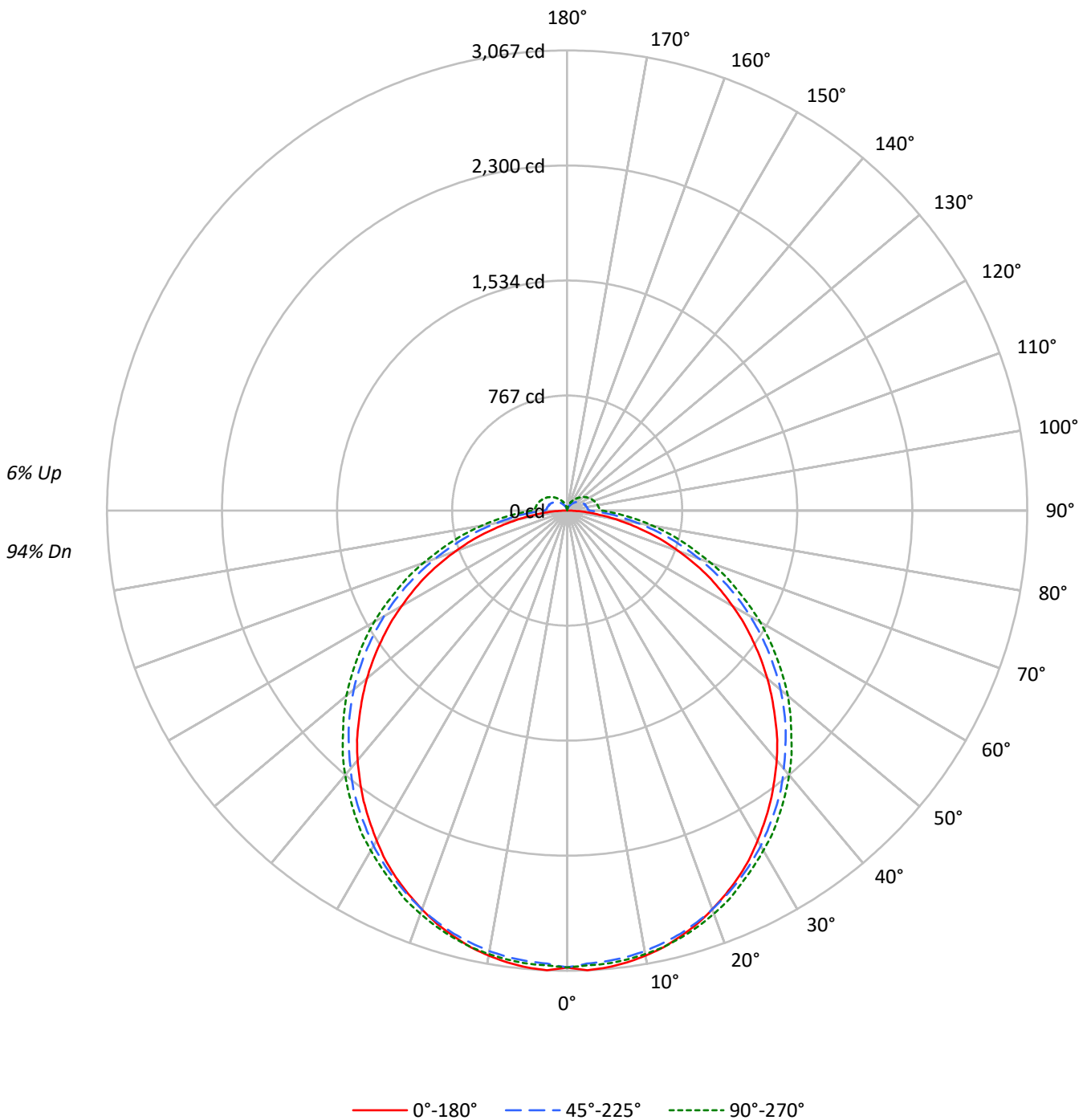
Lumens per Lamp: N/A
Luminaire Lumens: 9676.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Direct

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: P567157

CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567157

CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L850-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°	16388	16388	16388
5°	16507	16121	16140
10°	16447	15952	15938
15°	16332	15755	15710
20°	16172	15516	15442
25°	15987	15253	15125
30°	15734	14985	14833
35°	15479	14670	14527
40°	15198	14322	14184
45°	14842	13977	13783
50°	14501	13584	13417
55°	14076	13097	12909
60°	13599	12540	12409
65°	13099	11874	11719
70°	12228	11037	11004
75°	11184	10050	10148
80°	9645	8739	9200
85°	7792	7617	8086



TEST NUMBER: P567157

CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	3.0
10°-20°	828.6	8.6
20°-30°	1255.7	13.0
30°-40°	1515.9	15.7
40°-50°	1583.0	16.4
50°-60°	1454.3	15.0
60°-70°	1150.0	11.9
70°-80°	727.8	7.5
80°-90°	312.9	3.2
90°-100°	137.7	1.4
100°-110°	123.2	1.3
110°-120°	104.1	1.1
120°-130°	81.1	0.8
130°-140°	56.2	0.6
140°-150°	33.7	0.3
150°-160°	16.5	0.2
160°-170°	5.7	0.1
170°-180°	0.8	0.0
0°-30°	2373.1	24.5
0°-40°	3889.0	40.2
0°-60°	6926.3	71.6
0°-90°	9117.0	94.2
90°-120°	365.0	3.8
90°-150°	536.0	5.5
90°-180°	559.0	5.8
0°-180°	9676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3045	3045	3045	3045	3045	
5°	3057	3048	3016	3041	3031	290
15°	2935	2935	2920	2951	2946	828
25°	2699	2711	2714	2750	2745	1243
35°	2365	2392	2423	2461	2469	1478
45°	1960	2008	2060	2099	2113	1514
55°	1511	1573	1638	1691	1703	1352
65°	1040	1098	1175	1230	1249	1024
75°	548	613	702	762	792	581
85°	134	206	295	358	380	148
90°	9	74	151	211	233	11
95°	2	63	137	192	212	1
105°	2	58	128	180	199	2
115°	2	50	116	163	180	2
125°	3	45	98	140	156	3
135°	3	34	79	111	125	3
145°	3	26	55	84	92	2
155°	3	17	36	53	63	2
165°	5	12	19	26	36	1
175°	5	7	9	9	5	0
180°	5	5	5	5	5	



TEST NUMBER: P567157

CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3044.9	3044.9	3044.9	3044.9	3044.9
2.5°	3067.1	3056.8	3022.6	3046.6	3034.6
5°	3056.8	3048.3	3015.7	3041.4	3031.1
7.5°	3038.0	3031.1	3002.0	3029.4	3019.2
10°	3012.3	3007.2	2981.5	3008.9	3002.0
12.5°	2979.7	2978.0	2952.3	2983.2	2978.0
15°	2935.2	2935.2	2919.8	2950.6	2945.5
17.5°	2887.2	2888.9	2876.9	2909.5	2906.1
20°	2829.0	2837.5	2829.0	2863.2	2859.8
22.5°	2765.6	2777.6	2774.1	2808.4	2810.1
25°	2698.7	2710.7	2714.2	2750.1	2745.0
27.5°	2625.1	2643.9	2650.8	2683.3	2681.6
30°	2539.4	2565.1	2580.5	2607.9	2616.5
32.5°	2452.0	2482.8	2501.7	2539.4	2549.7
35°	2364.6	2392.0	2422.9	2460.6	2469.1
37.5°	2268.6	2299.5	2340.6	2376.6	2386.9
40°	2172.7	2207.0	2246.4	2285.8	2301.2
42.5°	2073.3	2109.3	2152.1	2198.4	2213.8
45°	1960.2	2008.2	2059.6	2099.0	2112.7
47.5°	1852.3	1905.4	1960.2	2003.1	2018.5
50°	1742.6	1799.2	1857.4	1896.8	1920.8
52.5°	1627.8	1689.5	1747.8	1797.4	1812.9
55°	1511.3	1573.0	1638.1	1691.2	1703.2
57.5°	1398.2	1458.2	1523.3	1573.0	1597.0
60°	1274.8	1339.9	1410.2	1459.9	1485.6
62.5°	1154.9	1218.3	1293.7	1346.8	1367.4
65°	1040.1	1098.3	1175.4	1230.3	1249.1
67.5°	913.3	980.1	1053.8	1117.2	1141.2
70°	788.2	851.6	935.6	995.5	1019.5
72.5°	671.7	733.4	817.3	877.3	899.6
75°	548.3	613.4	702.5	762.5	791.6
77.5°	430.1	502.0	587.7	652.8	685.4
80°	320.4	383.8	476.3	548.3	577.4
82.5°	217.6	286.2	382.1	448.9	481.5
85°	133.7	205.6	294.7	358.1	380.4
87.5°	63.4	131.9	214.2	275.9	303.3
90°	8.6	73.7	150.8	210.8	233.0
92.5°	1.7	63.4	138.8	195.3	215.9
95°	1.7	63.4	137.1	191.9	212.5
97.5°	1.7	61.7	135.4	190.2	209.0
100°	1.7	60.0	133.7	186.8	207.3
102.5°	1.7	60.0	130.2	183.3	202.2
105°	1.7	58.3	128.5	179.9	198.8
107.5°	1.7	56.5	125.1	176.5	195.3
110°	1.7	53.1	123.4	171.3	190.2



TEST NUMBER: P567157

CATALOG NUMBER: 8SNX-102SL-FDL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	51.4	119.9	167.9	185.1
115°	1.7	49.7	116.5	162.8	179.9
117.5°	1.7	48.0	111.4	157.6	174.8
120°	3.4	48.0	107.9	152.5	167.9
122.5°	3.4	46.3	102.8	145.6	161.1
125°	3.4	44.6	97.7	140.5	155.9
127.5°	3.4	42.8	92.5	133.7	147.4
130°	3.4	39.4	89.1	126.8	140.5
132.5°	3.4	37.7	84.0	118.2	131.9
135°	3.4	34.3	78.8	111.4	125.1
137.5°	3.4	32.6	73.7	104.5	116.5
140°	3.4	30.8	66.8	97.7	109.7
142.5°	3.4	27.4	61.7	90.8	101.1
145°	3.4	25.7	54.8	84.0	92.5
147.5°	3.4	22.3	49.7	77.1	85.7
150°	3.4	20.6	44.6	70.3	78.8
152.5°	3.4	18.8	39.4	61.7	70.3
155°	3.4	17.1	36.0	53.1	63.4
157.5°	3.4	15.4	30.8	46.3	56.5
160°	5.1	13.7	27.4	39.4	48.0
162.5°	5.1	12.0	22.3	32.6	42.8
165°	5.1	12.0	18.8	25.7	36.0
167.5°	5.1	10.3	15.4	20.6	29.1
170°	5.1	8.6	13.7	15.4	22.3
172.5°	5.1	6.9	10.3	10.3	12.0
175°	5.1	6.9	8.6	8.6	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)