

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: P567829

Luminaire Tested: **8SNX-52SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567829
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-52SL-FDL-UNV-L850-CD
Description: 8FT 5200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

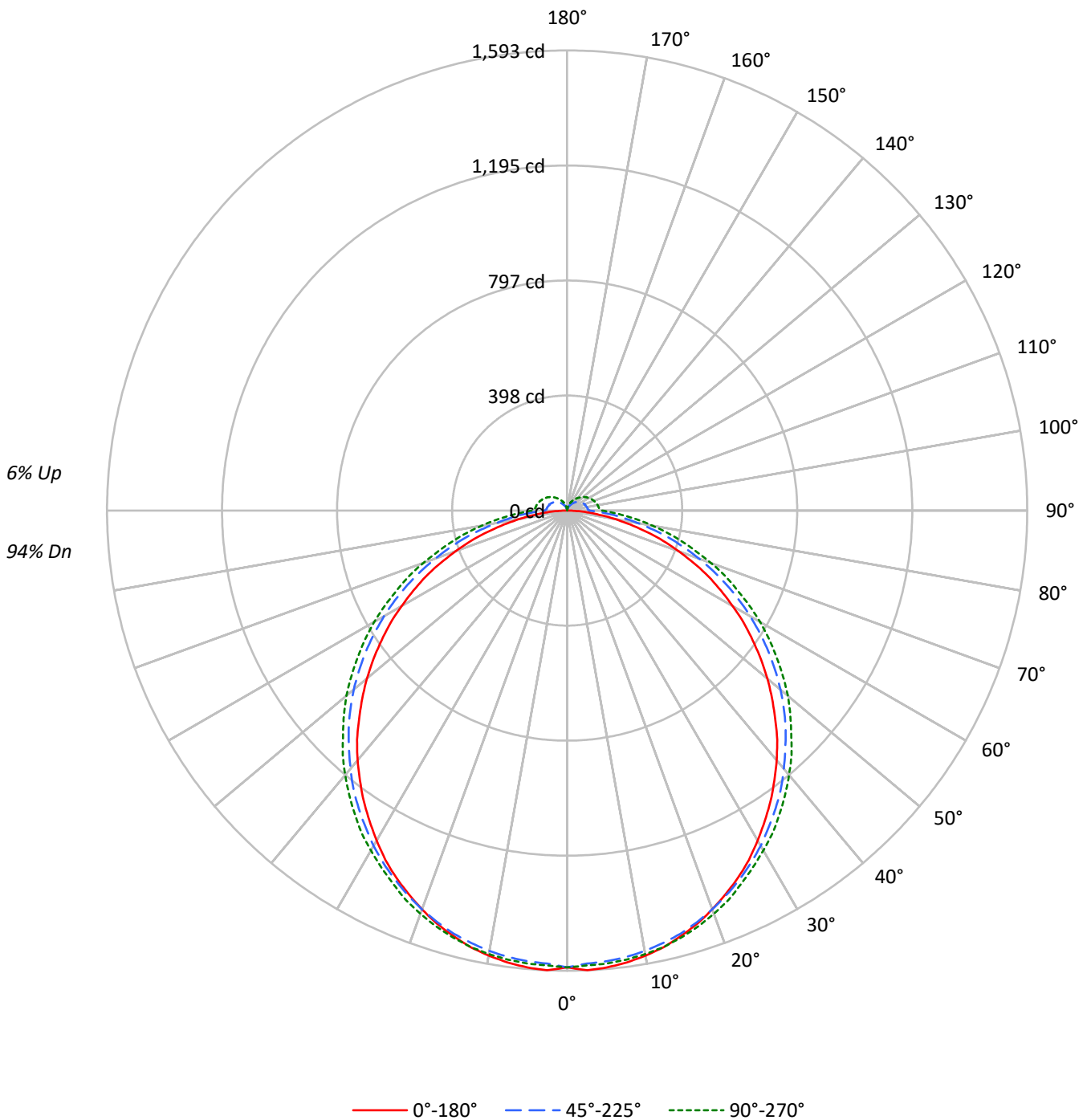
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5025.0 lumens
Efficiency: N/A
Efficacy: 153.2 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): 32.8
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	8510	8510	8510
5°	8573	8372	8382
10°	8542	8284	8277
15°	8481	8182	8159
20°	8399	8058	8020
25°	8302	7921	7855
30°	8171	7782	7703
35°	8039	7619	7544
40°	7893	7438	7366
45°	7708	7259	7158
50°	7531	7055	6968
55°	7310	6802	6704
60°	7063	6513	6444
65°	6802	6166	6086
70°	6350	5732	5715
75°	5809	5219	5270
80°	5009	4539	4778
85°	4045	3957	4198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	3.0
10°-20°	430.3	8.6
20°-30°	652.1	13.0
30°-40°	787.2	15.7
40°-50°	822.1	16.4
50°-60°	755.3	15.0
60°-70°	597.2	11.9
70°-80°	378.0	7.5
80°-90°	162.5	3.2
90°-100°	71.5	1.4
100°-110°	64.0	1.3
110°-120°	54.1	1.1
120°-130°	42.1	0.8
130°-140°	29.2	0.6
140°-150°	17.5	0.3
150°-160°	8.5	0.2
160°-170°	3.0	0.1
170°-180°	0.4	0.0
0°-30°	1232.4	24.5
0°-40°	2019.7	40.2
0°-60°	3597.0	71.6
0°-90°	4734.7	94.2
90°-120°	189.6	3.8
90°-150°	278.4	5.5
90°-180°	290.0	5.8
0°-180°	5025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1588	1583	1566	1580	1574	151
15°	1524	1524	1516	1532	1530	430
25°	1402	1408	1410	1428	1426	645
35°	1228	1242	1258	1278	1282	768
45°	1018	1043	1070	1090	1097	786
55°	785	817	851	878	884	702
65°	540	570	610	639	649	532
75°	285	319	365	396	411	302
85°	69	107	153	186	198	77
90°	4	38	78	110	121	6
95°	1	33	71	100	110	1
105°	1	30	67	93	103	1
115°	1	26	60	84	93	1
125°	2	23	51	73	81	2
135°	2	18	41	58	65	1
145°	2	13	28	44	48	1
155°	2	9	19	28	33	1
165°	3	6	10	13	19	1
175°	3	4	4	4	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.3	1581.3	1581.3	1581.3	1581.3
2.5°	1592.8	1587.5	1569.7	1582.2	1575.9
5°	1587.5	1583.1	1566.1	1579.5	1574.2
7.5°	1577.7	1574.2	1559.0	1573.3	1567.9
10°	1564.4	1561.7	1548.3	1562.6	1559.0
12.5°	1547.5	1546.6	1533.2	1549.2	1546.6
15°	1524.3	1524.3	1516.3	1532.3	1529.7
17.5°	1499.4	1500.3	1494.1	1511.0	1509.2
20°	1469.2	1473.6	1469.2	1486.9	1485.2
22.5°	1436.2	1442.5	1440.7	1458.5	1459.4
25°	1401.5	1407.8	1409.5	1428.2	1425.5
27.5°	1363.3	1373.0	1376.6	1393.5	1392.6
30°	1318.8	1332.1	1340.1	1354.4	1358.8
32.5°	1273.4	1289.4	1299.2	1318.8	1324.1
35°	1228.0	1242.2	1258.3	1277.8	1282.3
37.5°	1178.2	1194.2	1215.5	1234.2	1239.6
40°	1128.3	1146.1	1166.6	1187.1	1195.1
42.5°	1076.7	1095.4	1117.7	1141.7	1149.7
45°	1018.0	1042.9	1069.6	1090.1	1097.2
47.5°	961.9	989.5	1018.0	1040.2	1048.2
50°	905.0	934.3	964.6	985.1	997.5
52.5°	845.4	877.4	907.7	933.5	941.5
55°	784.9	816.9	850.7	878.3	884.5
57.5°	726.1	757.3	791.1	816.9	829.3
60°	662.1	695.9	732.4	758.2	771.5
62.5°	599.8	632.7	671.8	699.4	710.1
65°	540.1	570.4	610.4	638.9	648.7
67.5°	474.3	509.0	547.3	580.2	592.6
70°	409.3	442.3	485.9	517.0	529.5
72.5°	348.8	380.9	424.5	455.6	467.2
75°	284.8	318.6	364.8	396.0	411.1
77.5°	223.4	260.7	305.2	339.0	355.9
80°	166.4	199.3	247.4	284.8	299.9
82.5°	113.0	148.6	198.4	233.1	250.0
85°	69.4	106.8	153.1	186.0	197.5
87.5°	32.9	68.5	111.2	143.3	157.5
90°	4.4	38.3	78.3	109.5	121.0
92.5°	0.9	32.9	72.1	101.4	112.1
95°	0.9	32.9	71.2	99.7	110.3
97.5°	0.9	32.0	70.3	98.8	108.6
100°	0.9	31.1	69.4	97.0	107.7
102.5°	0.9	31.1	67.6	95.2	105.0
105°	0.9	30.3	66.7	93.4	103.2
107.5°	0.9	29.4	65.0	91.7	101.4
110°	0.9	27.6	64.1	89.0	98.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	26.7	62.3	87.2	96.1
115°	0.9	25.8	60.5	84.5	93.4
117.5°	0.9	24.9	57.8	81.9	90.8
120°	1.8	24.9	56.1	79.2	87.2
122.5°	1.8	24.0	53.4	75.6	83.6
125°	1.8	23.1	50.7	73.0	81.0
127.5°	1.8	22.2	48.1	69.4	76.5
130°	1.8	20.5	46.3	65.8	73.0
132.5°	1.8	19.6	43.6	61.4	68.5
135°	1.8	17.8	40.9	57.8	65.0
137.5°	1.8	16.9	38.3	54.3	60.5
140°	1.8	16.0	34.7	50.7	57.0
142.5°	1.8	14.2	32.0	47.2	52.5
145°	1.8	13.3	28.5	43.6	48.1
147.5°	1.8	11.6	25.8	40.0	44.5
150°	1.8	10.7	23.1	36.5	40.9
152.5°	1.8	9.8	20.5	32.0	36.5
155°	1.8	8.9	18.7	27.6	32.9
157.5°	1.8	8.0	16.0	24.0	29.4
160°	2.7	7.1	14.2	20.5	24.9
162.5°	2.7	6.2	11.6	16.9	22.2
165°	2.7	6.2	9.8	13.3	18.7
167.5°	2.7	5.3	8.0	10.7	15.1
170°	2.7	4.4	7.1	8.0	11.6
172.5°	2.7	3.6	5.3	5.3	6.2
175°	2.7	3.6	4.4	4.4	2.7
177.5°	2.7	2.7	2.7	2.7	1.8
180°	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)