

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: P567733

Luminaire Tested: **8SNX-40SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567733
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-40SL-FDL-UNV-L850-CD
Description: 8FT 4000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

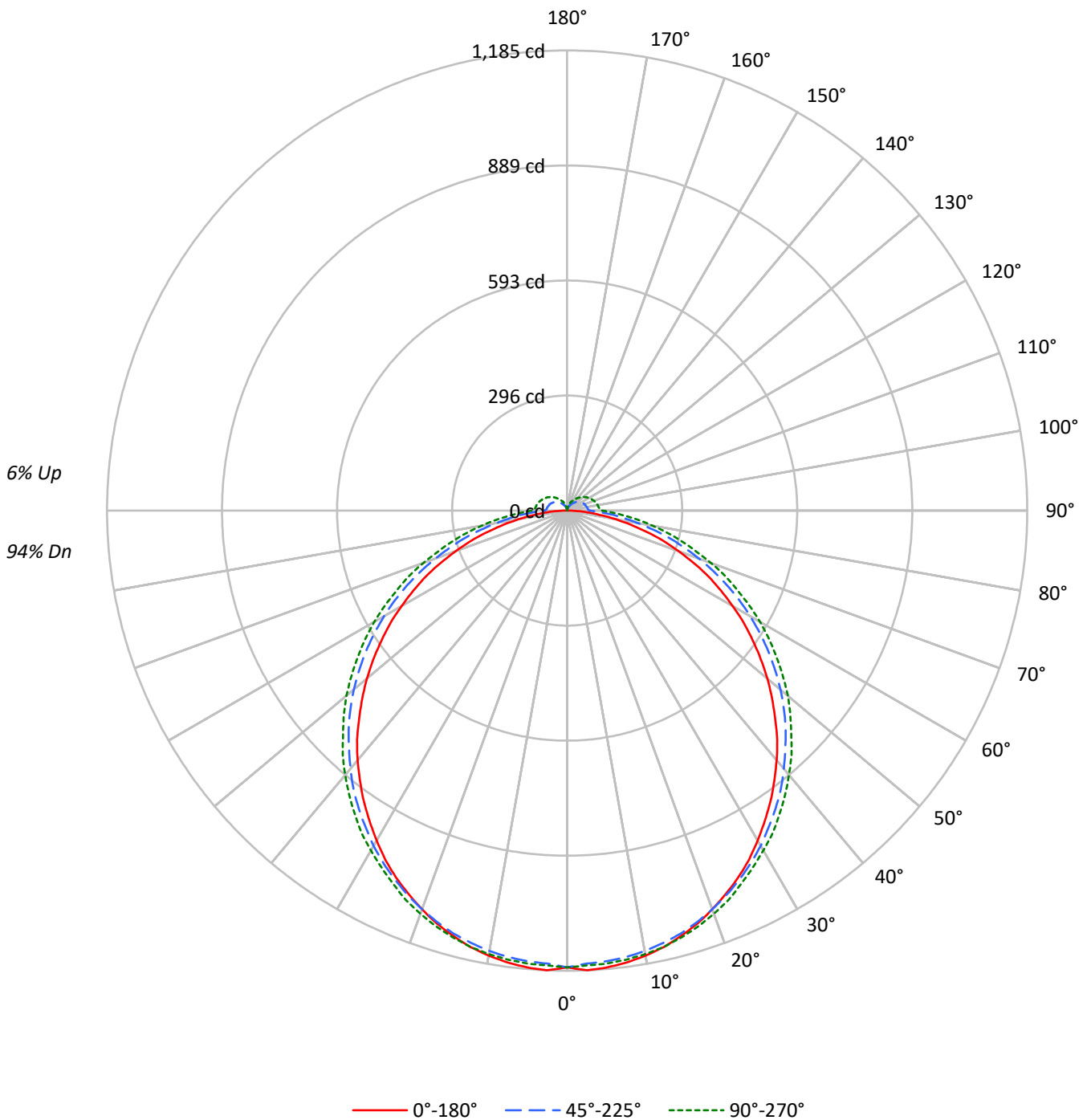
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3738.0 lumens
Efficiency: N/A
Efficacy: 154.5 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): 24.2
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°	6331	6331	6331
5°	6377	6228	6235
10°	6354	6163	6157
15°	6309	6087	6069
20°	6248	5994	5966
25°	6176	5892	5843
30°	6078	5789	5730
35°	5980	5667	5612
40°	5871	5533	5479
45°	5734	5400	5325
50°	5602	5247	5183
55°	5437	5059	4987
60°	5254	4844	4794
65°	5060	4587	4528
70°	4724	4263	4251
75°	4320	3883	3920
80°	3727	3376	3555
85°	3007	2944	3125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.0
10°-20°	320.1	8.6
20°-30°	485.1	13.0
30°-40°	585.6	15.7
40°-50°	611.5	16.4
50°-60°	561.8	15.0
60°-70°	444.3	11.9
70°-80°	281.2	7.5
80°-90°	120.9	3.2
90°-100°	53.2	1.4
100°-110°	47.6	1.3
110°-120°	40.2	1.1
120°-130°	31.3	0.8
130°-140°	21.7	0.6
140°-150°	13.0	0.3
150°-160°	6.4	0.2
160°-170°	2.2	0.1
170°-180°	0.3	0.0
0°-30°	916.8	24.5
0°-40°	1502.4	40.2
0°-60°	2675.7	71.6
0°-90°	3522.0	94.2
90°-120°	141.0	3.8
90°-150°	207.1	5.5
90°-180°	216.0	5.8
0°-180°	3738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1181	1178	1165	1175	1171	112
15°	1134	1134	1128	1140	1138	320
25°	1043	1047	1048	1062	1060	480
35°	914	924	936	951	954	571
45°	757	776	796	811	816	585
55°	584	608	633	653	658	522
65°	402	424	454	475	483	396
75°	212	237	271	295	306	225
85°	52	79	114	138	147	57
90°	3	28	58	81	90	4
95°	1	24	53	74	82	1
105°	1	22	50	70	77	1
115°	1	19	45	63	70	1
125°	1	17	38	54	60	1
135°	1	13	30	43	48	1
145°	1	10	21	32	36	1
155°	1	7	14	20	24	1
165°	2	5	7	10	14	1
175°	2	3	3	3	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.3	1176.3	1176.3	1176.3	1176.3
2.5°	1184.9	1180.9	1167.7	1176.9	1172.3
5°	1180.9	1177.6	1165.0	1175.0	1171.0
7.5°	1173.6	1171.0	1159.7	1170.3	1166.3
10°	1163.7	1161.7	1151.8	1162.4	1159.7
12.5°	1151.1	1150.5	1140.5	1152.4	1150.5
15°	1133.9	1133.9	1128.0	1139.9	1137.9
17.5°	1115.4	1116.0	1111.4	1124.0	1122.7
20°	1092.9	1096.2	1092.9	1106.1	1104.8
22.5°	1068.4	1073.0	1071.7	1084.9	1085.6
25°	1042.6	1047.2	1048.5	1062.4	1060.4
27.5°	1014.1	1021.4	1024.0	1036.6	1035.9
30°	981.0	990.9	996.9	1007.5	1010.8
32.5°	947.2	959.2	966.4	981.0	985.0
35°	913.5	924.1	936.0	950.6	953.9
37.5°	876.4	888.3	904.2	918.1	922.1
40°	839.3	852.6	867.8	883.0	889.0
42.5°	801.0	814.9	831.4	849.3	855.2
45°	757.3	775.8	795.7	810.9	816.2
47.5°	715.6	736.1	757.3	773.8	779.8
50°	673.2	695.0	717.5	732.8	742.0
52.5°	628.8	652.7	675.2	694.4	700.3
55°	583.8	607.7	632.8	653.3	658.0
57.5°	540.1	563.3	588.5	607.7	616.9
60°	492.5	517.6	544.8	564.0	573.9
62.5°	446.2	470.6	499.8	520.3	528.2
65°	401.8	424.3	454.1	475.3	482.6
67.5°	352.8	378.6	407.1	431.6	440.9
70°	304.5	329.0	361.4	384.6	393.9
72.5°	259.5	283.3	315.7	338.9	347.5
75°	211.8	237.0	271.4	294.6	305.8
77.5°	166.1	194.0	227.0	252.2	264.8
80°	123.8	148.3	184.0	211.8	223.1
82.5°	84.1	110.5	147.6	173.4	186.0
85°	51.6	79.4	113.9	138.3	147.0
87.5°	24.5	51.0	82.7	106.6	117.2
90°	3.3	28.5	58.3	81.4	90.0
92.5°	0.7	24.5	53.6	75.5	83.4
95°	0.7	24.5	53.0	74.1	82.1
97.5°	0.7	23.8	52.3	73.5	80.8
100°	0.7	23.2	51.6	72.2	80.1
102.5°	0.7	23.2	50.3	70.8	78.1
105°	0.7	22.5	49.6	69.5	76.8
107.5°	0.7	21.8	48.3	68.2	75.5
110°	0.7	20.5	47.7	66.2	73.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	19.9	46.3	64.9	71.5
115°	0.7	19.2	45.0	62.9	69.5
117.5°	0.7	18.5	43.0	60.9	67.5
120°	1.3	18.5	41.7	58.9	64.9
122.5°	1.3	17.9	39.7	56.3	62.2
125°	1.3	17.2	37.7	54.3	60.2
127.5°	1.3	16.5	35.7	51.6	56.9
130°	1.3	15.2	34.4	49.0	54.3
132.5°	1.3	14.6	32.4	45.7	51.0
135°	1.3	13.2	30.4	43.0	48.3
137.5°	1.3	12.6	28.5	40.4	45.0
140°	1.3	11.9	25.8	37.7	42.4
142.5°	1.3	10.6	23.8	35.1	39.1
145°	1.3	9.9	21.2	32.4	35.7
147.5°	1.3	8.6	19.2	29.8	33.1
150°	1.3	7.9	17.2	27.1	30.4
152.5°	1.3	7.3	15.2	23.8	27.1
155°	1.3	6.6	13.9	20.5	24.5
157.5°	1.3	6.0	11.9	17.9	21.8
160°	2.0	5.3	10.6	15.2	18.5
162.5°	2.0	4.6	8.6	12.6	16.5
165°	2.0	4.6	7.3	9.9	13.9
167.5°	2.0	4.0	6.0	7.9	11.3
170°	2.0	3.3	5.3	6.0	8.6
172.5°	2.0	2.6	4.0	4.0	4.6
175°	2.0	2.6	3.3	3.3	2.0
177.5°	2.0	2.0	2.0	2.0	1.3
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)