

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: P567154

Luminaire Tested: **8SNX-102SL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567154
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-L830-CD
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

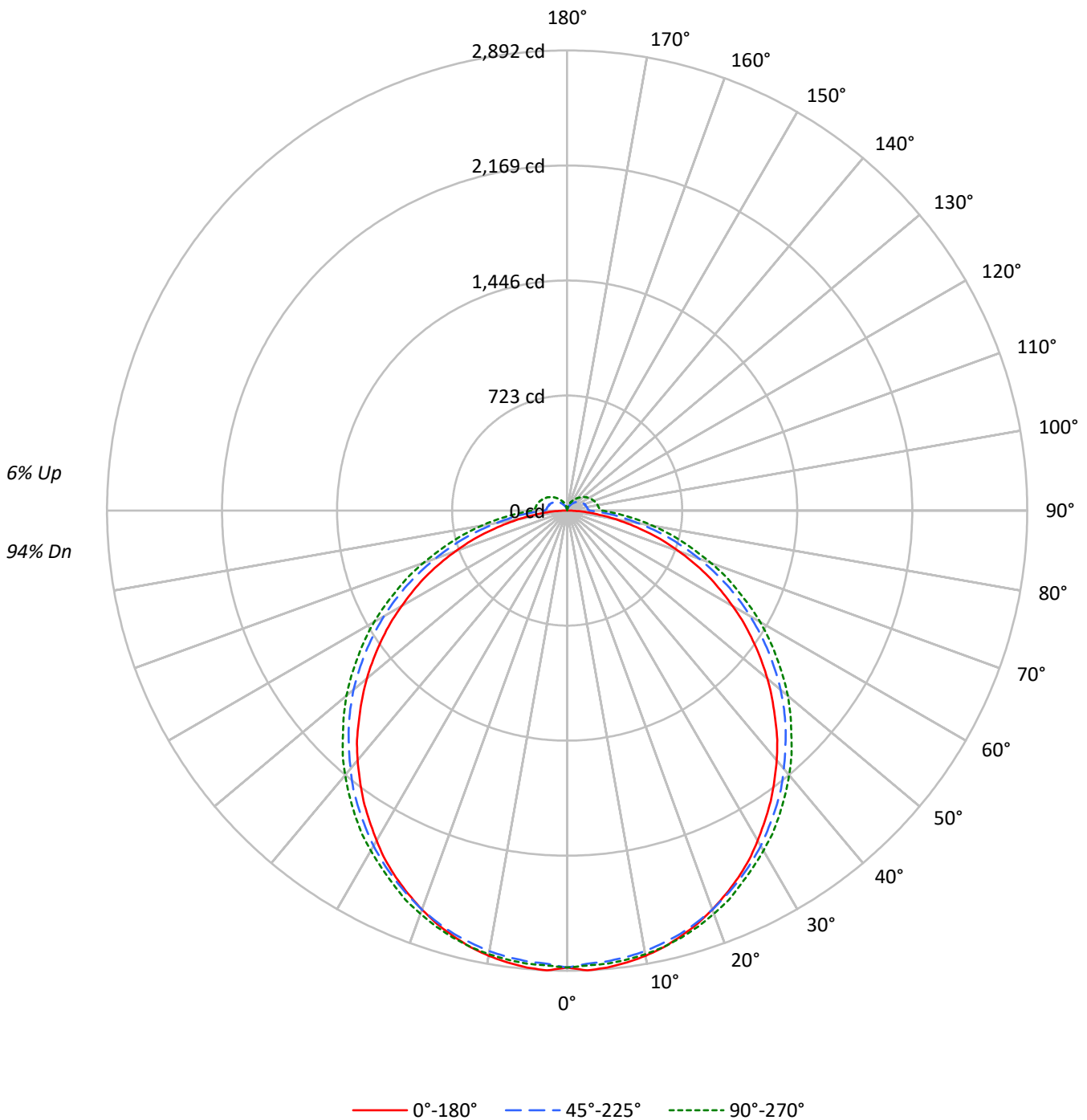
Lumens per Lamp: N/A
Luminaire Lumens: 9125.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Direct

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

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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°	15454	15454	15454
5°	15567	15203	15221
10°	15511	15044	15030
15°	15401	14858	14815
20°	15251	14633	14563
25°	15077	14385	14264
30°	14838	14132	13988
35°	14598	13835	13700
40°	14333	13506	13376
45°	13997	13181	12998
50°	13675	12810	12653
55°	13274	12351	12174
60°	12825	11826	11702
65°	12354	11198	11052
70°	11531	10408	10378
75°	10548	9477	9570
80°	9097	8242	8677
85°	7343	7183	7625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	3.0
10°-20°	781.4	8.6
20°-30°	1184.2	13.0
30°-40°	1429.6	15.7
40°-50°	1492.8	16.4
50°-60°	1371.4	15.0
60°-70°	1084.5	11.9
70°-80°	686.4	7.5
80°-90°	295.0	3.2
90°-100°	129.9	1.4
100°-110°	116.2	1.3
110°-120°	98.2	1.1
120°-130°	76.5	0.8
130°-140°	53.0	0.6
140°-150°	31.8	0.3
150°-160°	15.5	0.2
160°-170°	5.4	0.1
170°-180°	0.8	0.0
0°-30°	2238.0	24.5
0°-40°	3667.6	40.2
0°-60°	6531.8	71.6
0°-90°	8597.8	94.2
90°-120°	344.3	3.8
90°-150°	505.5	5.5
90°-180°	527.0	5.8
0°-180°	9125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2872	2872	2872	2872	2872	
5°	2883	2875	2844	2868	2858	274
15°	2768	2768	2754	2783	2778	781
25°	2545	2556	2560	2594	2589	1172
35°	2230	2256	2285	2320	2328	1394
45°	1849	1894	1942	1980	1992	1428
55°	1425	1483	1545	1595	1606	1275
65°	981	1036	1108	1160	1178	966
75°	517	578	662	719	746	548
85°	126	194	278	338	359	139
90°	8	70	142	199	220	11
95°	2	60	129	181	200	1
105°	2	55	121	170	187	2
115°	2	47	110	154	170	2
125°	3	42	92	132	147	3
135°	3	32	74	105	118	2
145°	3	24	52	79	87	2
155°	3	16	34	50	60	2
165°	5	11	18	24	34	1
175°	5	6	8	8	5	0
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2871.5	2871.5	2871.5	2871.5	2871.5
2.5°	2892.5	2882.8	2850.5	2873.1	2861.8
5°	2882.8	2874.7	2844.0	2868.2	2858.5
7.5°	2865.0	2858.5	2831.1	2856.9	2847.2
10°	2840.8	2835.9	2811.7	2837.5	2831.1
12.5°	2810.1	2808.4	2784.2	2813.3	2808.4
15°	2768.0	2768.0	2753.5	2782.6	2777.7
17.5°	2722.8	2724.4	2713.1	2743.8	2740.6
20°	2667.9	2675.9	2667.9	2700.2	2696.9
22.5°	2608.1	2619.4	2616.2	2648.5	2650.1
25°	2545.1	2556.4	2559.6	2593.5	2588.7
27.5°	2475.6	2493.3	2499.8	2530.5	2528.9
30°	2394.8	2419.0	2433.6	2459.4	2467.5
32.5°	2312.4	2341.4	2359.2	2394.8	2404.5
35°	2230.0	2255.8	2284.9	2320.4	2328.5
37.5°	2139.5	2168.5	2207.3	2241.3	2251.0
40°	2049.0	2081.3	2118.5	2155.6	2170.2
42.5°	1955.2	1989.2	2029.6	2073.2	2087.8
45°	1848.6	1893.8	1942.3	1979.5	1992.4
47.5°	1746.8	1796.9	1848.6	1889.0	1903.5
50°	1643.4	1696.7	1751.6	1788.8	1811.4
52.5°	1535.1	1593.3	1648.2	1695.1	1709.6
55°	1425.2	1483.4	1544.8	1594.9	1606.2
57.5°	1318.6	1375.1	1436.5	1483.4	1506.0
60°	1202.2	1263.6	1329.9	1376.8	1401.0
62.5°	1089.1	1148.9	1220.0	1270.1	1289.5
65°	980.9	1035.8	1108.5	1160.2	1178.0
67.5°	861.3	924.3	993.8	1053.6	1076.2
70°	743.3	803.1	882.3	938.8	961.5
72.5°	633.4	691.6	770.8	827.3	848.4
75°	517.1	578.5	662.5	719.1	746.5
77.5°	405.6	473.5	554.3	615.7	646.4
80°	302.2	362.0	449.2	517.1	544.6
82.5°	205.2	269.9	360.3	423.4	454.1
85°	126.0	193.9	277.9	337.7	358.7
87.5°	59.8	124.4	202.0	260.2	286.0
90°	8.1	69.5	142.2	198.8	219.8
92.5°	1.6	59.8	130.9	184.2	203.6
95°	1.6	59.8	129.3	181.0	200.4
97.5°	1.6	58.2	127.7	179.4	197.1
100°	1.6	56.6	126.0	176.1	195.5
102.5°	1.6	56.6	122.8	172.9	190.7
105°	1.6	54.9	121.2	169.7	187.4
107.5°	1.6	53.3	118.0	166.4	184.2
110°	1.6	50.1	116.3	161.6	179.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	48.5	113.1	158.4	174.5
115°	1.6	46.9	109.9	153.5	169.7
117.5°	1.6	45.2	105.0	148.7	164.8
120°	3.2	45.2	101.8	143.8	158.4
122.5°	3.2	43.6	97.0	137.4	151.9
125°	3.2	42.0	92.1	132.5	147.0
127.5°	3.2	40.4	87.3	126.0	139.0
130°	3.2	37.2	84.0	119.6	132.5
132.5°	3.2	35.5	79.2	111.5	124.4
135°	3.2	32.3	74.3	105.0	118.0
137.5°	3.2	30.7	69.5	98.6	109.9
140°	3.2	29.1	63.0	92.1	103.4
142.5°	3.2	25.9	58.2	85.6	95.3
145°	3.2	24.2	51.7	79.2	87.3
147.5°	3.2	21.0	46.9	72.7	80.8
150°	3.2	19.4	42.0	66.3	74.3
152.5°	3.2	17.8	37.2	58.2	66.3
155°	3.2	16.2	33.9	50.1	59.8
157.5°	3.2	14.5	29.1	43.6	53.3
160°	4.8	12.9	25.9	37.2	45.2
162.5°	4.8	11.3	21.0	30.7	40.4
165°	4.8	11.3	17.8	24.2	33.9
167.5°	4.8	9.7	14.5	19.4	27.5
170°	4.8	8.1	12.9	14.5	21.0
172.5°	4.8	6.5	9.7	9.7	11.3
175°	4.8	6.5	8.1	8.1	4.8
177.5°	4.8	4.8	4.8	4.8	3.2
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)