

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: P567184

Luminaire Tested: **8SNX-102SL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567184  
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-L940-CD  
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

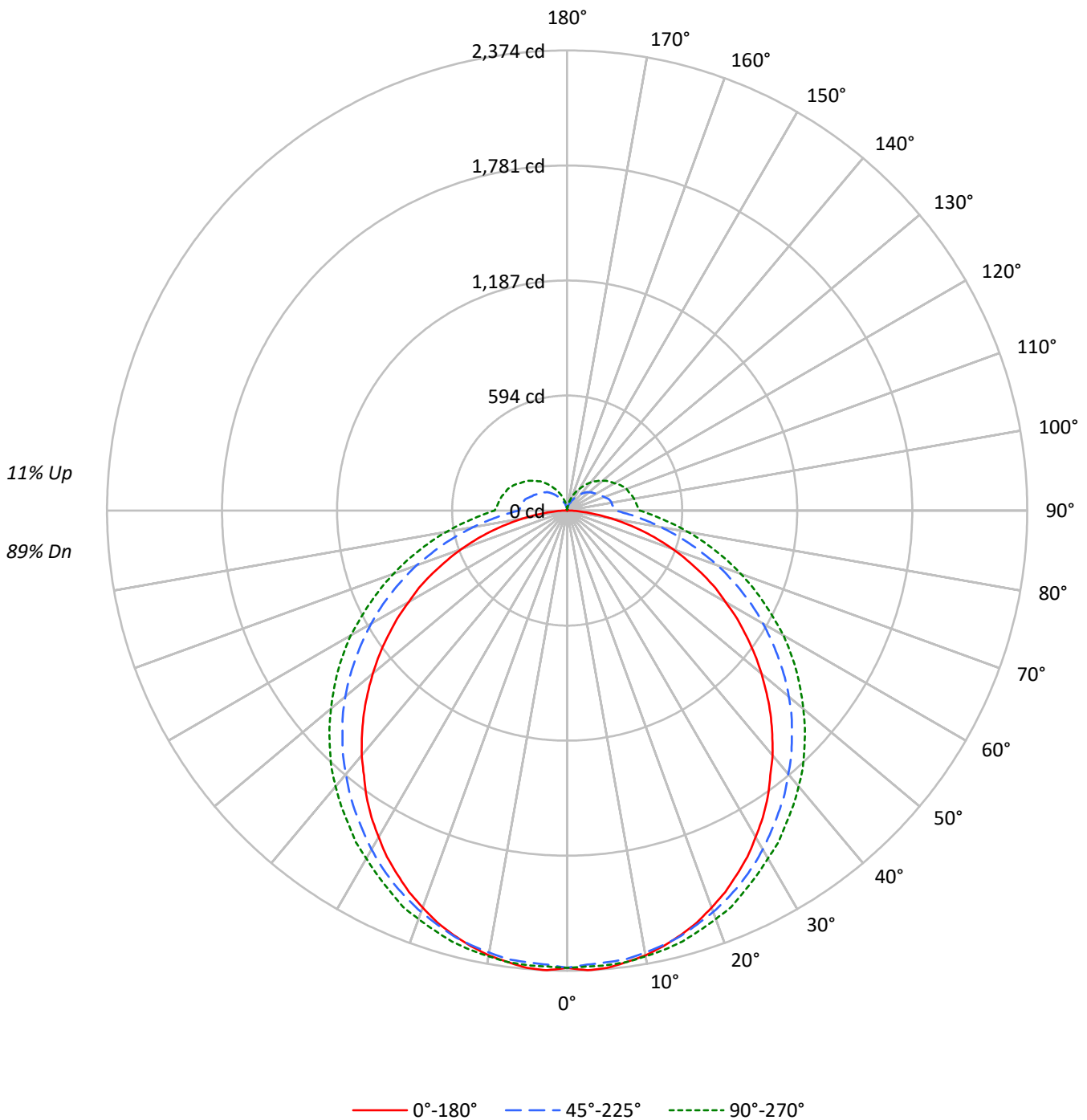
Lumens per Lamp: N/A  
Luminaire Lumens: 8398.0 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

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

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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	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°	12696	12696	12696
5°	12774	12124	12018
10°	12686	11654	11417
15°	12559	11198	10876
20°	12387	10722	10335
25°	12186	10266	9805
30°	11947	9795	9298
35°	11685	9322	8824
40°	11386	8859	8371
45°	11061	8395	7908
50°	10690	7916	7421
55°	10282	7381	6944
60°	9803	6821	6439
65°	9308	6217	5863
70°	8615	5571	5298
75°	7694	4816	4698
80°	6201	4053	4099
85°	4369	3344	3484



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.1	2.7
10°-20°	644.0	7.7
20°-30°	979.3	11.7
30°-40°	1188.7	14.2
40°-50°	1256.2	15.0
50°-60°	1175.5	14.0
60°-70°	964.5	11.5
70°-80°	663.4	7.9
80°-90°	363.3	4.3
90°-100°	233.9	2.8
100°-110°	209.9	2.5
110°-120°	173.8	2.1
120°-130°	133.8	1.6
130°-140°	94.0	1.1
140°-150°	56.6	0.7
150°-160°	27.1	0.3
160°-170°	8.9	0.1
170°-180°	1.1	0.0
0°-30°	1847.4	22.0
0°-40°	3036.1	36.2
0°-60°	5467.7	65.1
0°-90°	7458.8	88.8
90°-120°	617.6	7.4
90°-150°	902.1	10.7
90°-180°	939.0	11.2
0°-180°	8398.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2359	2359	2359	2359	2359	
5°	2369	2364	2340	2359	2354	225
15°	2267	2276	2272	2301	2301	639
25°	2072	2096	2121	2164	2164	955
35°	1804	1848	1902	1955	1970	1127
45°	1484	1552	1639	1712	1732	1143
55°	1128	1221	1333	1415	1445	1010
65°	764	866	997	1090	1119	756
75°	399	506	652	754	788	420
85°	88	209	355	452	486	101
90°	0	117	248	340	374	6
95°	0	112	238	326	360	0
105°	0	92	224	306	336	3
115°	5	83	190	272	306	5
125°	5	68	160	234	263	4
135°	5	54	131	190	214	4
145°	5	39	92	146	160	3
155°	5	24	58	92	107	2
165°	5	15	29	44	54	1
175°	5	5	10	10	5	0
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2359.0	2359.0	2359.0	2359.0	2359.0
2.5°	2373.6	2368.7	2344.4	2363.9	2354.2
5°	2368.7	2363.9	2339.6	2359.0	2354.2
7.5°	2349.3	2349.3	2334.7	2354.2	2349.3
10°	2329.8	2329.8	2315.2	2339.6	2334.7
12.5°	2300.7	2305.5	2295.8	2325.0	2320.1
15°	2266.6	2276.3	2271.5	2300.7	2300.7
17.5°	2227.7	2237.4	2237.4	2271.5	2271.5
20°	2179.1	2193.6	2203.4	2242.3	2242.3
22.5°	2130.4	2149.9	2164.5	2198.5	2213.1
25°	2072.0	2096.4	2120.7	2164.5	2164.5
27.5°	2013.7	2042.9	2072.0	2115.8	2120.7
30°	1945.6	1979.6	2018.5	2062.3	2072.0
32.5°	1877.5	1921.3	1960.2	2013.7	2028.3
35°	1804.5	1848.3	1901.8	1955.3	1969.9
37.5°	1721.8	1775.3	1843.4	1901.8	1916.4
40°	1648.9	1707.2	1775.3	1843.4	1858.0
42.5°	1566.2	1629.4	1712.1	1775.3	1799.7
45°	1483.5	1551.6	1639.2	1712.1	1731.6
47.5°	1396.0	1473.8	1571.1	1639.2	1663.5
50°	1308.4	1391.1	1493.2	1571.1	1590.5
52.5°	1220.9	1308.4	1415.4	1493.2	1517.6
55°	1128.4	1220.9	1332.7	1415.4	1444.6
57.5°	1040.9	1133.3	1250.0	1337.6	1366.8
60°	943.6	1050.6	1167.3	1254.9	1288.9
62.5°	860.9	958.2	1084.7	1172.2	1201.4
65°	763.6	865.8	997.1	1089.5	1118.7
67.5°	671.2	778.2	909.6	1006.8	1036.0
70°	578.8	685.8	826.9	919.3	953.3
72.5°	486.4	598.3	734.5	836.6	870.6
75°	398.8	505.9	651.8	753.9	788.0
77.5°	306.4	423.2	569.1	671.2	710.1
80°	223.7	345.3	491.3	593.4	632.3
82.5°	150.8	272.4	418.3	520.4	559.4
85°	87.6	209.2	355.1	452.3	486.4
87.5°	43.8	160.5	296.7	394.0	428.0
90°	0.0	116.7	248.1	340.5	374.5
92.5°	0.0	111.9	243.2	330.7	364.8
95°	0.0	111.9	238.3	325.9	359.9
97.5°	0.0	107.0	233.5	325.9	355.1
100°	0.0	102.1	233.5	321.0	350.2
102.5°	0.0	97.3	228.6	316.2	345.3
105°	0.0	92.4	223.7	306.4	335.6
107.5°	4.9	92.4	214.0	301.6	330.7
110°	4.9	87.6	204.3	296.7	325.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.9	82.7	194.6	287.0	316.2
115°	4.9	82.7	189.7	272.4	306.4
117.5°	4.9	77.8	180.0	262.7	296.7
120°	4.9	77.8	175.1	252.9	282.1
122.5°	4.9	73.0	165.4	243.2	272.4
125°	4.9	68.1	160.5	233.5	262.7
127.5°	4.9	63.2	155.6	223.7	252.9
130°	4.9	58.4	145.9	214.0	238.3
132.5°	4.9	58.4	141.1	199.4	228.6
135°	4.9	53.5	131.3	189.7	214.0
137.5°	4.9	48.6	121.6	180.0	204.3
140°	4.9	43.8	111.9	170.2	189.7
142.5°	4.9	43.8	102.1	155.6	175.1
145°	4.9	38.9	92.4	145.9	160.5
147.5°	4.9	34.0	82.7	131.3	145.9
150°	4.9	34.0	73.0	116.7	131.3
152.5°	4.9	29.2	63.2	107.0	121.6
155°	4.9	24.3	58.4	92.4	107.0
157.5°	4.9	24.3	48.6	77.8	92.4
160°	4.9	19.5	43.8	63.2	77.8
162.5°	4.9	19.5	38.9	53.5	68.1
165°	4.9	14.6	29.2	43.8	53.5
167.5°	4.9	14.6	24.3	34.0	43.8
170°	4.9	9.7	19.5	24.3	34.0
172.5°	4.9	9.7	14.6	14.6	14.6
175°	4.9	4.9	9.7	9.7	4.9
177.5°	4.9	4.9	4.9	4.9	4.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)