

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: P567170

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

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567170  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-102SL-LN-UNV-L830-CD  
Description: 8FT 10200 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS  
Light Source: -  
Ballast/Driver: -

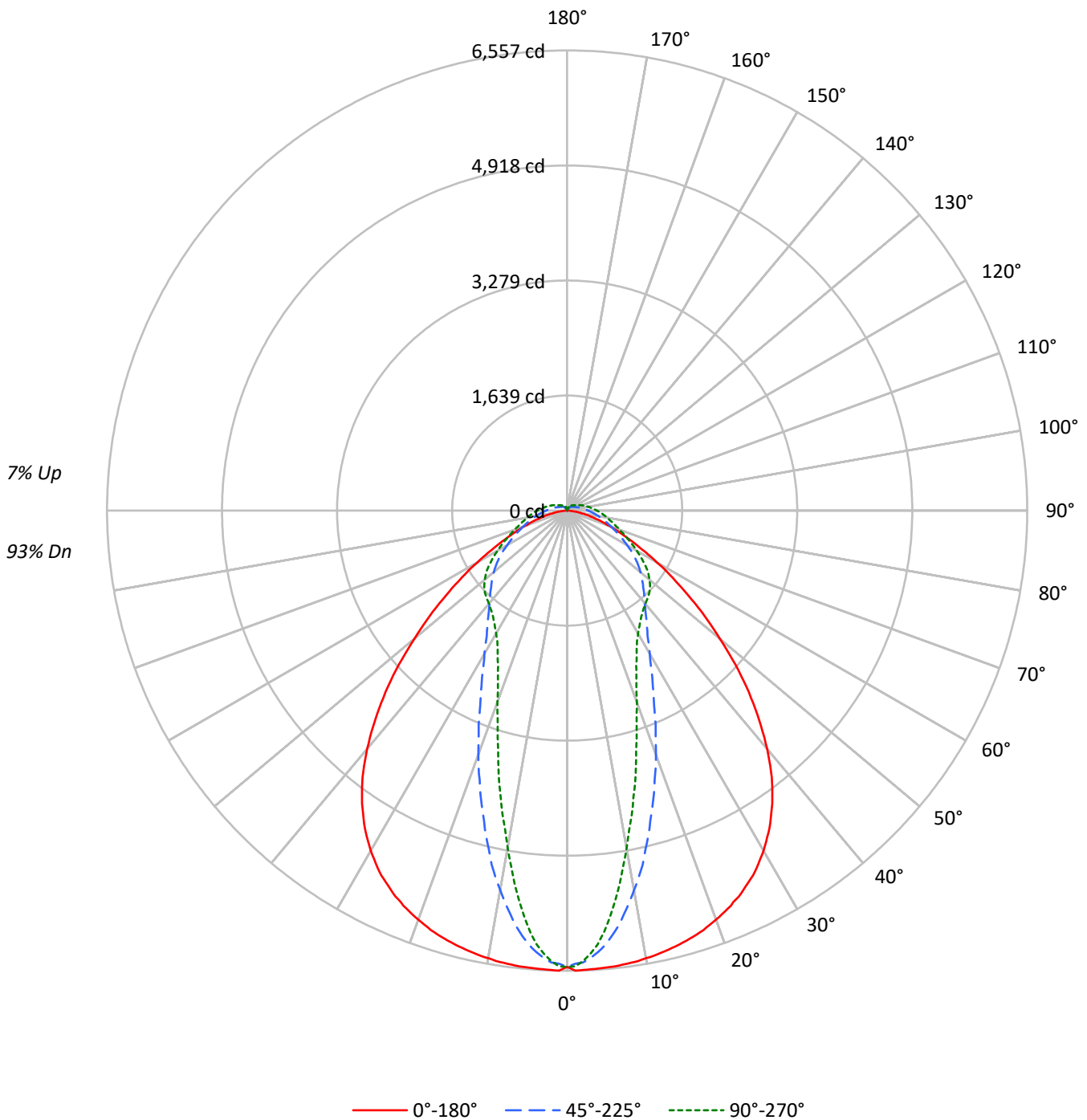
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10365.0 lumens  
Efficiency: N/A  
Efficacy: 148.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	34995	34995	34995
5°	35241	32204	30780
10°	35257	27644	23881
15°	35306	22574	17899
20°	35262	18002	13395
25°	35014	14121	10631
30°	34358	11440	9068
35°	32996	9692	8248
40°	30607	8566	7807
45°	27298	7846	7566
50°	23211	7228	7148
55°	19155	6558	6527
60°	15407	5777	5726
65°	12051	5080	4982
70°	9460	4502	4407
75°	7442	4053	4016
80°	5422	3720	3733
85°	3252	3479	3580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	575.8	5.6
10°-20°	1349.7	13.0
20°-30°	1602.1	15.5
30°-40°	1611.9	15.6
40°-50°	1498.4	14.5
50°-60°	1233.8	11.9
60°-70°	869.4	8.4
70°-80°	568.0	5.5
80°-90°	362.6	3.5
90°-100°	237.8	2.3
100°-110°	161.5	1.6
110°-120°	110.6	1.1
120°-130°	76.5	0.7
130°-140°	51.5	0.5
140°-150°	31.8	0.3
150°-160°	16.5	0.2
160°-170°	6.0	0.1
170°-180°	1.0	0.0
0°-30°	3527.7	34.0
0°-40°	5139.6	49.6
0°-60°	7871.8	75.9
0°-90°	9671.8	93.3
90°-120°	509.9	4.9
90°-150°	669.7	6.5
90°-180°	693.0	6.7
0°-180°	10365.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6502	6502	6502	6502	6502	
5°	6535	6448	6214	6095	6030	622
15°	6372	5693	4579	4004	3786	1799
25°	5954	4400	2917	2450	2347	2740
35°	5095	2977	1977	1852	1842	3169
45°	3661	1961	1532	1613	1657	2811
55°	2102	1287	1184	1315	1358	1899
65°	989	777	815	918	951	1003
75°	386	402	549	646	674	417
85°	65	185	369	478	500	82
90°	0	125	299	407	424	4
95°	0	92	250	342	358	0
105°	0	65	168	239	261	0
115°	5	54	120	174	185	5
125°	5	44	98	125	136	5
135°	5	38	76	98	103	4
145°	5	27	54	76	82	3
155°	5	22	38	54	60	2
165°	5	11	22	27	33	2
175°	11	11	11	11	5	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6502.3	6502.3	6502.3	6502.3	6502.3
1°	6556.6	6529.4	6458.8	6507.7	6496.8
2°	6551.2	6524.0	6442.5	6464.2	6426.2
3°	6545.7	6507.7	6382.8	6377.3	6323.0
4°	6540.3	6480.5	6306.7	6241.5	6198.1
5°	6534.9	6448.0	6214.4	6094.9	6029.7
6°	6529.4	6409.9	6094.9	5915.6	5823.3
7°	6518.6	6350.2	5969.9	5725.5	5606.0
8°	6507.7	6295.9	5812.4	5519.1	5372.4
9°	6496.8	6225.2	5654.9	5296.3	5122.5
10°	6475.1	6154.6	5491.9	5068.2	4883.5
11°	6464.2	6073.1	5334.4	4850.9	4633.6
12°	6442.5	5986.2	5166.0	4622.8	4432.6
13°	6420.8	5893.9	4959.5	4427.2	4199.0
14°	6399.1	5796.1	4780.3	4209.9	3998.1
15°	6371.9	5692.9	4579.3	4003.5	3786.2
16°	6344.7	5573.4	4400.0	3791.6	3563.5
17°	6317.6	5459.3	4231.6	3596.1	3389.7
18°	6285.0	5345.2	4036.1	3406.0	3205.0
19°	6241.5	5214.9	3878.5	3232.1	3047.4
20°	6203.5	5095.3	3699.3	3069.2	2906.2
21°	6160.0	4948.7	3520.0	2917.1	2754.1
22.5°	6094.9	4742.3	3291.9	2726.9	2574.8
23°	6062.3	4682.5	3199.5	2656.3	2525.9
24°	6018.8	4525.0	3047.4	2547.7	2417.3
25°	5953.6	4400.0	2917.1	2449.9	2346.7
26°	5893.9	4247.9	2786.7	2363.0	2259.8
27°	5834.1	4101.3	2672.6	2270.6	2183.7
28°	5758.1	3949.2	2547.7	2194.6	2118.5
29°	5676.6	3807.9	2444.5	2129.4	2069.6
30°	5595.1	3650.4	2357.5	2069.6	2020.8
32.5°	5367.0	3302.7	2134.8	1955.6	1923.0
35°	5095.3	2976.8	1977.3	1852.4	1841.5
37.5°	4791.1	2678.0	1836.1	1770.9	1781.7
40°	4432.6	2406.4	1716.6	1711.1	1732.9
42.5°	4052.4	2172.9	1624.2	1662.2	1694.8
45°	3661.3	1961.0	1531.9	1613.3	1656.8
47.5°	3253.9	1776.3	1450.4	1553.6	1602.5
50°	2841.0	1597.0	1363.5	1483.0	1531.9
52.5°	2471.6	1439.5	1276.6	1401.5	1455.8
55°	2102.2	1287.4	1184.2	1314.6	1358.0
57.5°	1781.7	1146.2	1086.4	1216.8	1249.4
60°	1483.0	1010.4	988.6	1108.2	1146.2
62.5°	1211.4	890.9	896.3	1010.4	1048.4
65°	988.6	776.8	814.8	918.0	950.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	804.0	668.2	733.3	842.0	869.1
70°	635.6	570.4	668.2	765.9	793.1
72.5°	505.2	483.5	603.0	706.2	727.9
75°	385.7	402.0	548.6	646.4	673.6
77.5°	277.0	336.8	494.3	597.5	619.3
80°	195.6	277.0	450.9	554.1	575.8
82.5°	124.9	228.1	407.4	516.1	537.8
85°	65.2	184.7	369.4	478.0	499.8
87.5°	27.2	152.1	331.4	440.0	461.7
90°	0.0	124.9	298.8	407.4	423.7
92.5°	0.0	108.6	271.6	374.8	391.1
95°	0.0	92.3	249.9	342.2	358.5
97.5°	0.0	86.9	222.7	315.1	331.4
100°	0.0	76.0	201.0	287.9	309.6
102.5°	0.0	70.6	184.7	260.7	282.5
105°	0.0	65.2	168.4	239.0	260.7
107.5°	0.0	59.8	157.5	222.7	239.0
110°	0.0	59.8	141.2	206.4	222.7
112.5°	5.4	54.3	130.4	184.7	201.0
115°	5.4	54.3	119.5	173.8	184.7
117.5°	5.4	54.3	114.1	157.5	168.4
120°	5.4	48.9	108.6	146.7	157.5
122.5°	5.4	48.9	103.2	135.8	141.2
125°	5.4	43.5	97.8	124.9	135.8
127.5°	5.4	43.5	92.3	119.5	124.9
130°	5.4	43.5	86.9	108.6	119.5
132.5°	5.4	38.0	81.5	103.2	108.6
135°	5.4	38.0	76.0	97.8	103.2
137.5°	5.4	32.6	70.6	92.3	97.8
140°	5.4	32.6	65.2	86.9	92.3
142.5°	5.4	27.2	59.8	81.5	86.9
145°	5.4	27.2	54.3	76.0	81.5
147.5°	5.4	27.2	48.9	70.6	76.0
150°	5.4	21.7	43.5	65.2	70.6
152.5°	5.4	21.7	38.0	59.8	65.2
155°	5.4	21.7	38.0	54.3	59.8
157.5°	5.4	16.3	32.6	43.5	54.3
160°	5.4	16.3	27.2	38.0	48.9
162.5°	5.4	16.3	27.2	32.6	38.0
165°	5.4	10.9	21.7	27.2	32.6
167.5°	5.4	10.9	16.3	21.7	27.2
170°	5.4	10.9	16.3	16.3	21.7
172.5°	5.4	10.9	10.9	10.9	10.9
175°	10.9	10.9	10.9	10.9	5.4
177.5°	10.9	10.9	10.9	5.4	5.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)