

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: P568027

Luminaire Tested: **8SNX-82SL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P568027  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-82SL-LC-UNV-L835-CD  
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

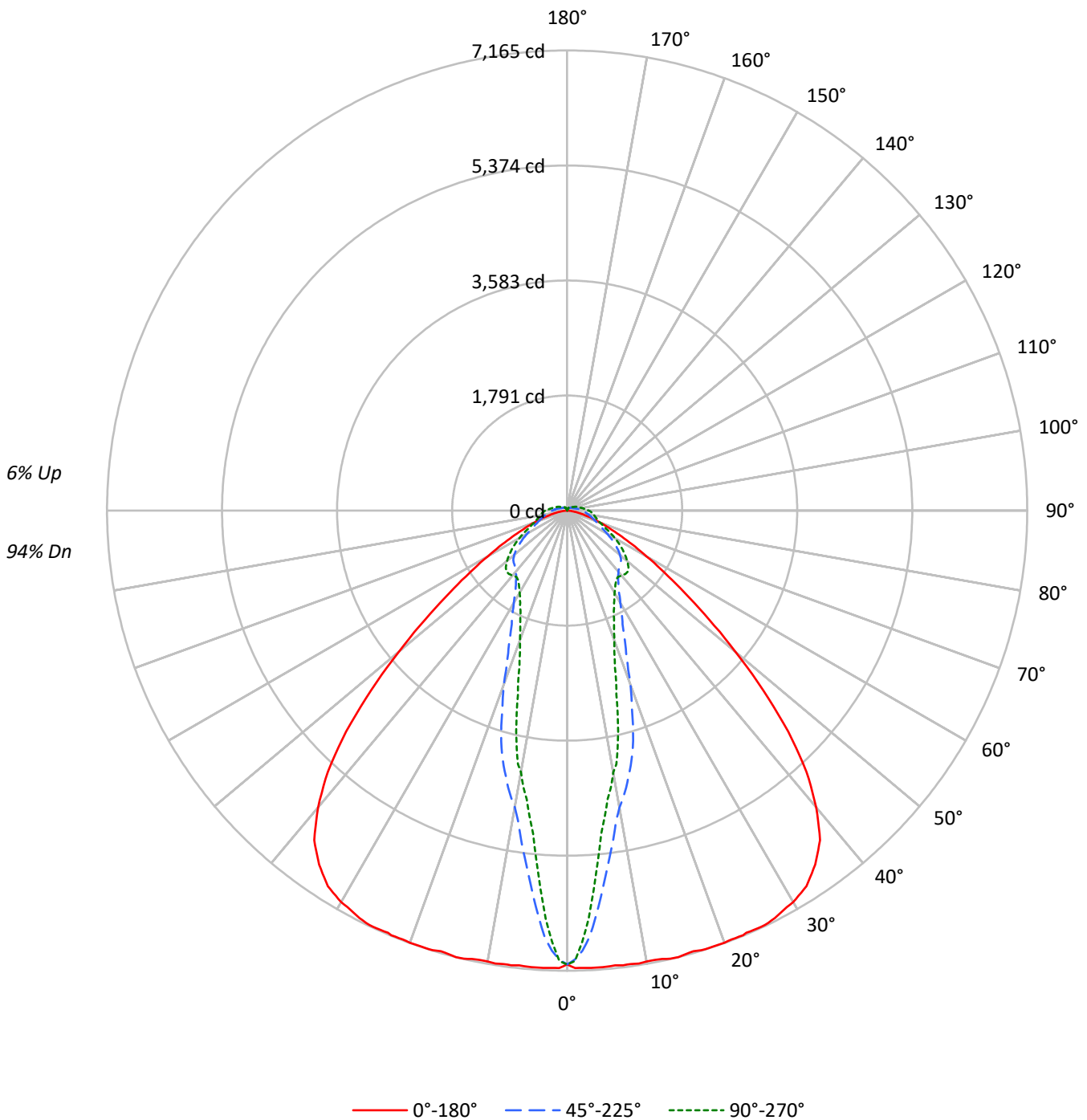
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8711.1 lumens  
Efficiency: N/A  
Efficacy: 165.6 lumens/watt  
Spacing Criteria (0/90/45): 1.45 / 0.43 / 0.61  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 52.6  
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

TEST NUMBER: P568027

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L835-CD

### 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	108	103	99	96	105	101	97	94	95	92	90	90	88	86	86	84	82	80				
2	99	92	86	80	96	89	84	79	85	80	76	81	77	74	77	74	71	69				
3	92	82	75	69	89	80	73	68	76	71	66	73	68	64	70	66	62	60				
4	85	74	66	60	82	72	65	59	69	63	58	66	61	56	63	59	55	53				
5	79	67	59	53	76	66	58	52	63	56	51	60	55	50	58	53	49	47				
6	73	61	53	47	71	60	52	47	58	51	46	56	50	45	53	48	44	42				
7	69	56	48	43	67	55	48	42	53	46	42	51	45	41	50	44	40	38				
8	64	52	44	39	63	51	44	39	49	43	38	48	42	37	46	41	37	35				
9	61	48	41	36	59	47	40	35	46	39	35	44	39	34	43	38	34	32				
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	40	35	31	30				

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

	0°	45°	90°
0°	38033	38033	38033
5°	38446	31277	27961
10°	38819	23639	20237
15°	39601	19344	14013
20°	40702	14012	9897
25°	42060	10049	7786
30°	43230	8037	6630
35°	43594	6805	5939
40°	41675	6193	5953
45°	36280	5990	6116
50°	27938	5704	5707
55°	20339	4994	5064
60°	14841	4174	4282
65°	10883	3534	3510
70°	8106	3128	3026
75°	5858	2902	2821
80°	3961	2725	2778
85°	2005	2607	2782



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.8	6.4
10°-20°	1206.8	13.9
20°-30°	1381.4	15.9
30°-40°	1383.9	15.9
40°-50°	1310.0	15.0
50°-60°	1004.7	11.5
60°-70°	647.6	7.4
70°-80°	413.0	4.7
80°-90°	274.2	3.1
90°-100°	184.3	2.1
100°-110°	121.5	1.4
110°-120°	84.5	1.0
120°-130°	58.9	0.7
130°-140°	40.9	0.5
140°-150°	25.0	0.3
150°-160°	12.7	0.1
160°-170°	4.9	0.1
170°-180°	0.9	0.0
0°-30°	3144.0	36.1
0°-40°	4527.8	52.0
0°-60°	6842.5	78.5
0°-90°	8177.3	93.9
90°-120°	390.3	4.5
90°-150°	515.2	5.9
90°-180°	534.0	6.1
0°-180°	8711.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7067	7067	7067	7067	7067	
5°	7129	6736	6036	5629	5478	681
15°	7147	5147	3924	3223	2964	2027
25°	7152	3643	2076	1804	1719	3297
35°	6732	2027	1388	1344	1326	4177
45°	4866	1281	1170	1295	1339	3700
55°	2232	915	902	1013	1054	2053
65°	893	576	567	647	670	918
75°	304	312	393	451	473	334
85°	40	143	277	362	388	55
90°	0	98	232	321	335	2
95°	0	71	192	263	277	0
105°	0	54	125	179	192	3
115°	4	45	94	130	138	4
125°	4	40	80	94	98	4
135°	4	31	62	76	80	3
145°	4	22	45	58	62	3
155°	4	13	27	40	45	2
165°	9	9	18	22	27	2
175°	9	9	9	9	4	1
180°	9	9	9	9	9	



TEST NUMBER: P568027

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7066.8	7066.8	7066.8	7066.8	7066.8
1°	7124.8	7084.6	6990.9	7017.7	7013.2
2°	7124.8	7040.0	6857.0	6803.4	6723.0
3°	7129.3	6964.1	6651.6	6477.5	6365.9
4°	7129.3	6852.5	6348.1	6057.9	5915.0
5°	7129.3	6736.4	6035.6	5629.3	5477.5
6°	7120.4	6598.0	5718.6	5290.0	5062.4
7°	7133.7	6446.3	5432.9	4973.1	4794.5
8°	7129.3	6267.7	5169.5	4732.0	4535.6
9°	7142.7	6093.6	4883.8	4504.4	4357.0
10°	7129.3	5932.9	4696.3	4290.1	4138.3
11°	7129.3	5776.6	4562.4	4151.7	4022.2
12°	7138.2	5598.1	4415.1	3955.3	3776.7
13°	7160.5	5415.0	4245.4	3741.0	3531.2
14°	7165.0	5276.7	4089.2	3468.7	3249.9
15°	7147.1	5147.2	3924.0	3223.1	2964.2
16°	7138.2	5013.3	3727.6	2991.0	2758.9
17°	7156.1	4857.0	3504.4	2754.4	2540.1
18°	7160.5	4714.2	3267.8	2575.8	2388.3
19°	7160.5	4602.6	3075.8	2410.7	2249.9
20°	7160.5	4495.4	2879.4	2285.7	2147.3
21°	7151.6	4361.5	2656.2	2156.2	2040.1
22.5°	7156.1	4111.5	2401.7	2004.4	1910.7
23°	7142.7	4049.0	2339.2	1964.2	1866.0
24°	7147.1	3870.4	2205.3	1883.9	1790.1
25°	7151.6	3642.8	2075.8	1803.5	1718.7
26°	7142.7	3459.7	1968.7	1727.6	1669.6
27°	7120.4	3312.4	1892.8	1665.1	1611.6
28°	7089.1	3116.0	1812.5	1611.6	1562.5
29°	7057.9	2892.8	1732.1	1553.5	1517.8
30°	7040.0	2714.2	1656.2	1508.9	1477.6
32.5°	6932.9	2361.5	1500.0	1419.6	1392.8
35°	6732.0	2026.7	1388.4	1343.7	1325.9
37.5°	6468.6	1767.8	1303.5	1294.6	1299.1
40°	6035.6	1562.5	1241.0	1281.2	1321.4
42.5°	5517.7	1401.8	1196.4	1294.6	1339.3
45°	4865.9	1281.2	1169.6	1294.6	1339.3
47.5°	4142.8	1183.0	1138.4	1250.0	1294.6
50°	3419.6	1093.7	1075.9	1183.0	1223.2
52.5°	2781.2	1008.9	995.5	1098.2	1138.4
55°	2232.1	915.2	901.8	1013.4	1053.5
57.5°	1790.1	825.9	812.5	915.2	955.3
60°	1428.5	736.6	714.3	816.9	857.1
62.5°	1138.4	651.8	638.4	727.7	763.4
65°	892.8	575.9	566.9	647.3	669.6



TEST NUMBER: P568027

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	705.3	504.5	508.9	575.9	602.7
70°	544.6	437.5	464.3	526.8	544.6
72.5°	410.7	370.5	428.6	482.1	504.5
75°	303.6	312.5	392.8	450.9	473.2
77.5°	209.8	258.9	361.6	424.1	446.4
80°	142.9	209.8	330.3	401.8	428.6
82.5°	84.8	174.1	303.6	379.5	410.7
85°	40.2	142.9	276.8	361.6	388.4
87.5°	13.4	116.1	250.0	343.7	366.1
90°	0.0	98.2	232.1	321.4	334.8
92.5°	0.0	84.8	209.8	294.6	303.6
95°	0.0	71.4	192.0	263.4	276.8
97.5°	0.0	67.0	178.6	236.6	254.5
100°	0.0	62.5	160.7	214.3	232.1
102.5°	0.0	53.6	142.9	192.0	209.8
105°	0.0	53.6	125.0	178.6	192.0
107.5°	4.5	49.1	116.1	160.7	178.6
110°	4.5	49.1	102.7	151.8	165.2
112.5°	4.5	49.1	98.2	138.4	156.2
115°	4.5	44.6	93.7	129.5	138.4
117.5°	4.5	44.6	89.3	116.1	125.0
120°	4.5	40.2	84.8	107.1	111.6
122.5°	4.5	40.2	80.4	98.2	102.7
125°	4.5	40.2	80.4	93.7	98.2
127.5°	4.5	35.7	75.9	89.3	89.3
130°	4.5	35.7	71.4	84.8	84.8
132.5°	4.5	31.2	67.0	80.4	84.8
135°	4.5	31.2	62.5	75.9	80.4
137.5°	4.5	26.8	58.0	71.4	75.9
140°	4.5	26.8	53.6	67.0	71.4
142.5°	4.5	22.3	49.1	62.5	67.0
145°	4.5	22.3	44.6	58.0	62.5
147.5°	4.5	22.3	40.2	53.6	58.0
150°	4.5	17.9	35.7	49.1	53.6
152.5°	4.5	17.9	31.2	44.6	49.1
155°	4.5	13.4	26.8	40.2	44.6
157.5°	4.5	13.4	26.8	35.7	40.2
160°	8.9	13.4	22.3	31.2	35.7
162.5°	4.5	8.9	22.3	26.8	31.2
165°	8.9	8.9	17.9	22.3	26.8
167.5°	8.9	8.9	13.4	17.9	22.3
170°	8.9	8.9	13.4	13.4	17.9
172.5°	8.9	8.9	8.9	13.4	8.9
175°	8.9	8.9	8.9	8.9	4.5
177.5°	8.9	8.9	8.9	8.9	4.5



TEST NUMBER: P568027

CATALOG NUMBER: 8SNX-82SL-LC-UNV-L835-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	8.9	8.9	8.9	8.9	8.9

(END OF REPORT)