

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: P568036

Luminaire Tested: **8SNX-82SL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568036
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-82SL-LN-UNV-L840-CD
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

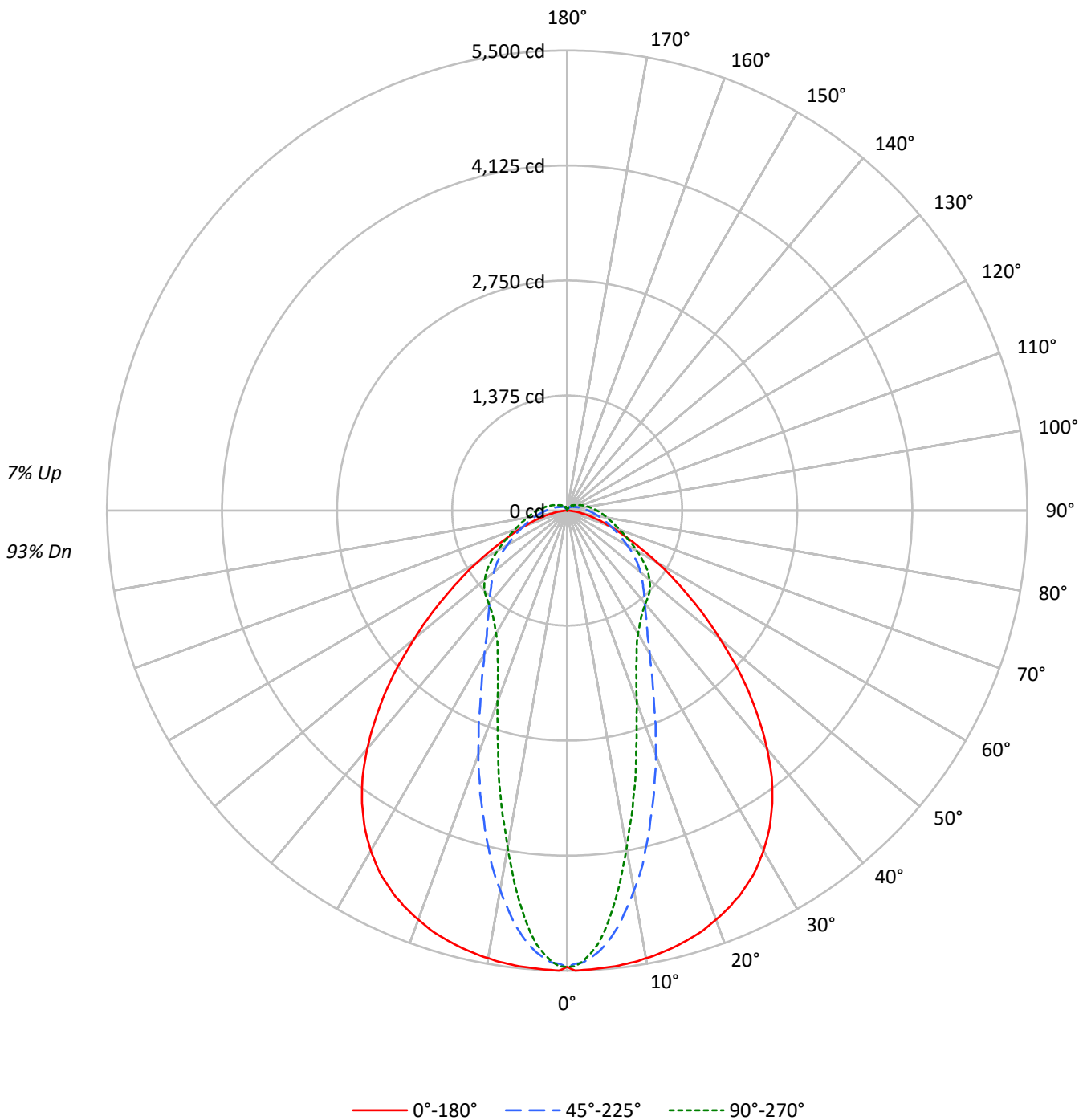
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8695.0 lumens
Efficiency: N/A
Efficacy: 165.3 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): 52.6
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	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°	29356	29356	29356
5°	29563	27015	25821
10°	29576	23189	20033
15°	29618	18937	15015
20°	29581	15102	11237
25°	29373	11846	8918
30°	28822	9597	7607
35°	27680	8130	6919
40°	25675	7186	6549
45°	22900	6582	6347
50°	19472	6064	5996
55°	16069	5502	5476
60°	12924	4847	4803
65°	10111	4261	4180
70°	7936	3776	3697
75°	6242	3400	3369
80°	4546	3120	3131
85°	2728	2919	3003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.0	5.6
10°-20°	1132.3	13.0
20°-30°	1344.0	15.5
30°-40°	1352.2	15.6
40°-50°	1256.9	14.5
50°-60°	1035.0	11.9
60°-70°	729.3	8.4
70°-80°	476.5	5.5
80°-90°	304.2	3.5
90°-100°	199.5	2.3
100°-110°	135.4	1.6
110°-120°	92.8	1.1
120°-130°	64.2	0.7
130°-140°	43.2	0.5
140°-150°	26.6	0.3
150°-160°	13.8	0.2
160°-170°	5.0	0.1
170°-180°	0.9	0.0
0°-30°	2959.3	34.0
0°-40°	4311.5	49.6
0°-60°	6603.5	75.9
0°-90°	8113.5	93.3
90°-120°	427.8	4.9
90°-150°	561.9	6.5
90°-180°	582.0	6.7
0°-180°	8695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5455	5455	5455	5455	5455	
5°	5482	5409	5213	5113	5058	522
15°	5345	4776	3842	3358	3176	1510
25°	4994	3691	2447	2055	1969	2298
35°	4274	2497	1659	1554	1545	2658
45°	3071	1645	1285	1353	1390	2358
55°	1764	1080	993	1103	1139	1593
65°	829	652	684	770	798	841
75°	324	337	460	542	565	350
85°	55	155	310	401	419	69
90°	0	105	251	342	355	3
95°	0	78	210	287	301	0
105°	0	55	141	200	219	0
115°	5	46	100	146	155	4
125°	5	36	82	105	114	4
135°	5	32	64	82	87	4
145°	5	23	46	64	68	3
155°	5	18	32	46	50	2
165°	5	9	18	23	27	1
175°	9	9	9	9	5	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5454.6	5454.6	5454.6	5454.6	5454.6
1°	5500.2	5477.4	5418.2	5459.2	5450.1
2°	5495.6	5472.9	5404.5	5422.7	5390.8
3°	5491.1	5459.2	5354.4	5349.8	5304.3
4°	5486.5	5436.4	5290.6	5235.9	5199.4
5°	5482.0	5409.1	5213.1	5112.9	5058.2
6°	5477.4	5377.2	5112.9	4962.5	4885.0
7°	5468.3	5327.0	5008.1	4803.0	4702.7
8°	5459.2	5281.5	4875.9	4629.8	4506.8
9°	5450.1	5222.2	4743.8	4443.0	4297.2
10°	5431.8	5163.0	4607.0	4251.6	4096.7
11°	5422.7	5094.6	4474.9	4069.3	3887.1
12°	5404.5	5021.7	4333.6	3877.9	3718.4
13°	5386.3	4944.3	4160.5	3713.9	3522.5
14°	5368.1	4862.2	4010.1	3531.6	3353.9
15°	5345.3	4775.7	3841.5	3358.5	3176.2
16°	5322.5	4675.4	3691.1	3180.7	2989.3
17°	5299.7	4579.7	3549.8	3016.7	2843.5
18°	5272.4	4484.0	3385.8	2857.2	2688.6
19°	5235.9	4374.6	3253.6	2711.4	2556.4
20°	5204.0	4274.4	3103.3	2574.7	2438.0
21°	5167.5	4151.4	2952.9	2447.1	2310.4
22.5°	5112.9	3978.2	2761.5	2287.6	2160.0
23°	5085.5	3928.1	2684.0	2228.3	2119.0
24°	5049.1	3795.9	2556.4	2137.2	2027.8
25°	4994.4	3691.1	2447.1	2055.2	1968.6
26°	4944.3	3563.5	2337.7	1982.3	1895.7
27°	4894.1	3440.5	2242.0	1904.8	1831.9
28°	4830.3	3312.9	2137.2	1841.0	1777.2
29°	4762.0	3194.4	2050.6	1786.3	1736.2
30°	4693.6	3062.3	1977.7	1736.2	1695.2
32.5°	4502.2	2770.6	1790.9	1640.5	1613.1
35°	4274.4	2497.2	1658.7	1553.9	1544.8
37.5°	4019.2	2246.6	1540.2	1485.6	1494.7
40°	3718.4	2018.7	1440.0	1435.4	1453.7
42.5°	3399.5	1822.8	1362.5	1394.4	1421.8
45°	3071.4	1645.0	1285.1	1353.4	1389.9
47.5°	2729.6	1490.1	1216.7	1303.3	1344.3
50°	2383.3	1339.7	1143.8	1244.0	1285.1
52.5°	2073.4	1207.6	1070.9	1175.7	1221.3
55°	1763.5	1080.0	993.4	1102.8	1139.2
57.5°	1494.7	961.5	911.4	1020.8	1048.1
60°	1244.0	847.6	829.4	929.6	961.5
62.5°	1016.2	747.3	751.9	847.6	879.5
65°	829.4	651.6	683.5	770.1	797.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	674.4	560.5	615.2	706.3	729.1
70°	533.2	478.5	560.5	642.5	665.3
72.5°	423.8	405.6	505.8	592.4	610.6
75°	323.5	337.2	460.2	542.3	565.1
77.5°	232.4	282.5	414.7	501.3	519.5
80°	164.0	232.4	378.2	464.8	483.0
82.5°	104.8	191.4	341.8	432.9	451.1
85°	54.7	154.9	309.9	401.0	419.2
87.5°	22.8	127.6	278.0	369.1	387.3
90°	0.0	104.8	250.6	341.8	355.4
92.5°	0.0	91.1	227.8	314.4	328.1
95°	0.0	77.5	209.6	287.1	300.8
97.5°	0.0	72.9	186.8	264.3	278.0
100°	0.0	63.8	168.6	241.5	259.7
102.5°	0.0	59.2	154.9	218.7	237.0
105°	0.0	54.7	141.3	200.5	218.7
107.5°	0.0	50.1	132.2	186.8	200.5
110°	0.0	50.1	118.5	173.2	186.8
112.5°	4.6	45.6	109.4	154.9	168.6
115°	4.6	45.6	100.3	145.8	154.9
117.5°	4.6	45.6	95.7	132.2	141.3
120°	4.6	41.0	91.1	123.0	132.2
122.5°	4.6	41.0	86.6	113.9	118.5
125°	4.6	36.5	82.0	104.8	113.9
127.5°	4.6	36.5	77.5	100.3	104.8
130°	4.6	36.5	72.9	91.1	100.3
132.5°	4.6	31.9	68.4	86.6	91.1
135°	4.6	31.9	63.8	82.0	86.6
137.5°	4.6	27.3	59.2	77.5	82.0
140°	4.6	27.3	54.7	72.9	77.5
142.5°	4.6	22.8	50.1	68.4	72.9
145°	4.6	22.8	45.6	63.8	68.4
147.5°	4.6	22.8	41.0	59.2	63.8
150°	4.6	18.2	36.5	54.7	59.2
152.5°	4.6	18.2	31.9	50.1	54.7
155°	4.6	18.2	31.9	45.6	50.1
157.5°	4.6	13.7	27.3	36.5	45.6
160°	4.6	13.7	22.8	31.9	41.0
162.5°	4.6	13.7	22.8	27.3	31.9
165°	4.6	9.1	18.2	22.8	27.3
167.5°	4.6	9.1	13.7	18.2	22.8
170°	4.6	9.1	13.7	13.7	18.2
172.5°	4.6	9.1	9.1	9.1	9.1
175°	9.1	9.1	9.1	9.1	4.6
177.5°	9.1	9.1	9.1	4.6	4.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)