

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: P568044

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568044
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-82SL-LW-UNV-L840-CD
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

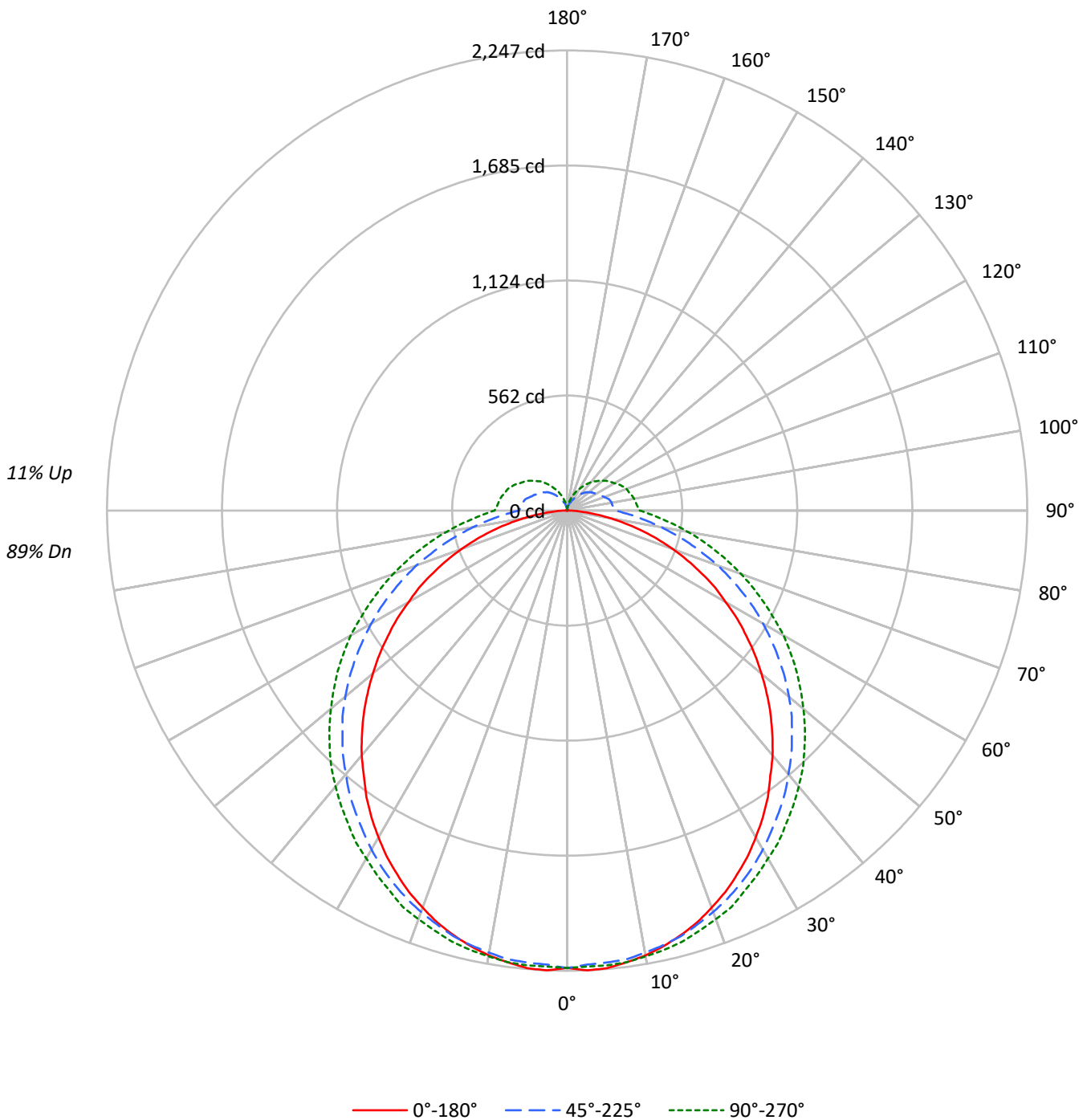
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7951.0 lumens
Efficiency: N/A
Efficacy: 151.2 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): 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

TEST NUMBER: P568044
CATALOG NUMBER: 8SNX-82SL-LW-UNV-L840-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	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°	12021	12021	12021
5°	12094	11478	11378
10°	12011	11033	10809
15°	11891	10602	10297
20°	11727	10152	9784
25°	11538	9720	9283
30°	11311	9274	8803
35°	11064	8826	8354
40°	10779	8387	7925
45°	10472	7948	7487
50°	10121	7495	7026
55°	9735	6988	6574
60°	9282	6458	6096
65°	8813	5886	5552
70°	8156	5275	5016
75°	7285	4560	4447
80°	5871	3837	3881
85°	4135	3166	3299



TEST NUMBER: P568044

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	2.7
10°-20°	609.8	7.7
20°-30°	927.2	11.7
30°-40°	1125.5	14.2
40°-50°	1189.3	15.0
50°-60°	1112.9	14.0
60°-70°	913.1	11.5
70°-80°	628.1	7.9
80°-90°	344.0	4.3
90°-100°	221.5	2.8
100°-110°	198.7	2.5
110°-120°	164.5	2.1
120°-130°	126.7	1.6
130°-140°	89.0	1.1
140°-150°	53.6	0.7
150°-160°	25.7	0.3
160°-170°	8.4	0.1
170°-180°	1.0	0.0
0°-30°	1749.0	22.0
0°-40°	2874.5	36.2
0°-60°	5176.7	65.1
0°-90°	7061.8	88.8
90°-120°	584.7	7.4
90°-150°	854.0	10.7
90°-180°	889.0	11.2
0°-180°	7951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2243	2238	2215	2234	2229	213
15°	2146	2155	2151	2178	2178	605
25°	1962	1985	2008	2049	2049	904
35°	1708	1750	1801	1851	1865	1067
45°	1404	1469	1552	1621	1639	1083
55°	1068	1156	1262	1340	1368	956
65°	723	820	944	1032	1059	716
75°	378	479	617	714	746	398
85°	83	198	336	428	460	96
90°	0	110	235	322	355	6
95°	0	106	226	308	341	0
105°	0	88	212	290	318	3
115°	5	78	180	258	290	5
125°	5	64	152	221	249	4
135°	5	51	124	180	203	4
145°	5	37	88	138	152	3
155°	5	23	55	88	101	2
165°	5	14	28	41	51	1
175°	5	5	9	9	5	0
180°	5	5	5	5	5	



TEST NUMBER: P568044

CATALOG NUMBER: 8SNX-82SL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2233.5	2233.5	2233.5	2233.5	2233.5
2.5°	2247.3	2242.7	2219.6	2238.1	2228.8
5°	2242.7	2238.1	2215.0	2233.5	2228.8
7.5°	2224.2	2224.2	2210.4	2228.8	2224.2
10°	2205.8	2205.8	2192.0	2215.0	2210.4
12.5°	2178.2	2182.8	2173.6	2201.2	2196.6
15°	2146.0	2155.2	2150.6	2178.2	2178.2
17.5°	2109.1	2118.3	2118.3	2150.6	2150.6
20°	2063.1	2076.9	2086.1	2122.9	2122.9
22.5°	2017.0	2035.4	2049.3	2081.5	2095.3
25°	1961.8	1984.8	2007.8	2049.3	2049.3
27.5°	1906.5	1934.1	1961.8	2003.2	2007.8
30°	1842.0	1874.3	1911.1	1952.5	1961.8
32.5°	1777.6	1819.0	1855.8	1906.5	1920.3
35°	1708.5	1749.9	1800.6	1851.2	1865.0
37.5°	1630.2	1680.8	1745.3	1800.6	1814.4
40°	1561.1	1616.4	1680.8	1745.3	1759.1
42.5°	1482.8	1542.7	1621.0	1680.8	1703.9
45°	1404.5	1469.0	1551.9	1621.0	1639.4
47.5°	1321.7	1395.3	1487.4	1551.9	1574.9
50°	1238.8	1317.0	1413.8	1487.4	1505.9
52.5°	1155.9	1238.8	1340.1	1413.8	1436.8
55°	1068.4	1155.9	1261.8	1340.1	1367.7
57.5°	985.5	1073.0	1183.5	1266.4	1294.0
60°	893.4	994.7	1105.2	1188.1	1220.3
62.5°	815.1	907.2	1026.9	1109.8	1137.5
65°	723.0	819.7	944.0	1031.5	1059.2
67.5°	635.5	736.8	861.1	953.2	980.9
70°	548.0	649.3	782.9	870.4	902.6
72.5°	460.5	566.4	695.4	792.1	824.3
75°	377.6	478.9	617.1	713.8	746.0
77.5°	290.1	400.6	538.8	635.5	672.3
80°	211.8	327.0	465.1	561.8	598.7
82.5°	142.8	257.9	396.0	492.7	529.6
85°	82.9	198.0	336.2	428.3	460.5
87.5°	41.4	152.0	280.9	373.0	405.2
90°	0.0	110.5	234.9	322.4	354.6
92.5°	0.0	105.9	230.3	313.1	345.4
95°	0.0	105.9	225.6	308.5	340.8
97.5°	0.0	101.3	221.0	308.5	336.2
100°	0.0	96.7	221.0	303.9	331.6
102.5°	0.0	92.1	216.4	299.3	327.0
105°	0.0	87.5	211.8	290.1	317.7
107.5°	4.6	87.5	202.6	285.5	313.1
110°	4.6	82.9	193.4	280.9	308.5



TEST NUMBER: P568044

CATALOG NUMBER: 8SNX-82SL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.6	78.3	184.2	271.7	299.3
115°	4.6	78.3	179.6	257.9	290.1
117.5°	4.6	73.7	170.4	248.7	280.9
120°	4.6	73.7	165.8	239.5	267.1
122.5°	4.6	69.1	156.6	230.3	257.9
125°	4.6	64.5	152.0	221.0	248.7
127.5°	4.6	59.9	147.4	211.8	239.5
130°	4.6	55.3	138.2	202.6	225.6
132.5°	4.6	55.3	133.5	188.8	216.4
135°	4.6	50.7	124.3	179.6	202.6
137.5°	4.6	46.1	115.1	170.4	193.4
140°	4.6	41.4	105.9	161.2	179.6
142.5°	4.6	41.4	96.7	147.4	165.8
145°	4.6	36.8	87.5	138.2	152.0
147.5°	4.6	32.2	78.3	124.3	138.2
150°	4.6	32.2	69.1	110.5	124.3
152.5°	4.6	27.6	59.9	101.3	115.1
155°	4.6	23.0	55.3	87.5	101.3
157.5°	4.6	23.0	46.1	73.7	87.5
160°	4.6	18.4	41.4	59.9	73.7
162.5°	4.6	18.4	36.8	50.7	64.5
165°	4.6	13.8	27.6	41.4	50.7
167.5°	4.6	13.8	23.0	32.2	41.4
170°	4.6	9.2	18.4	23.0	32.2
172.5°	4.6	9.2	13.8	13.8	13.8
175°	4.6	4.6	9.2	9.2	4.6
177.5°	4.6	4.6	4.6	4.6	4.6
180°	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)