

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: P568021

Luminaire Tested: **8SNX-82SL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-82SL-FDL-UNV-L850-CD
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

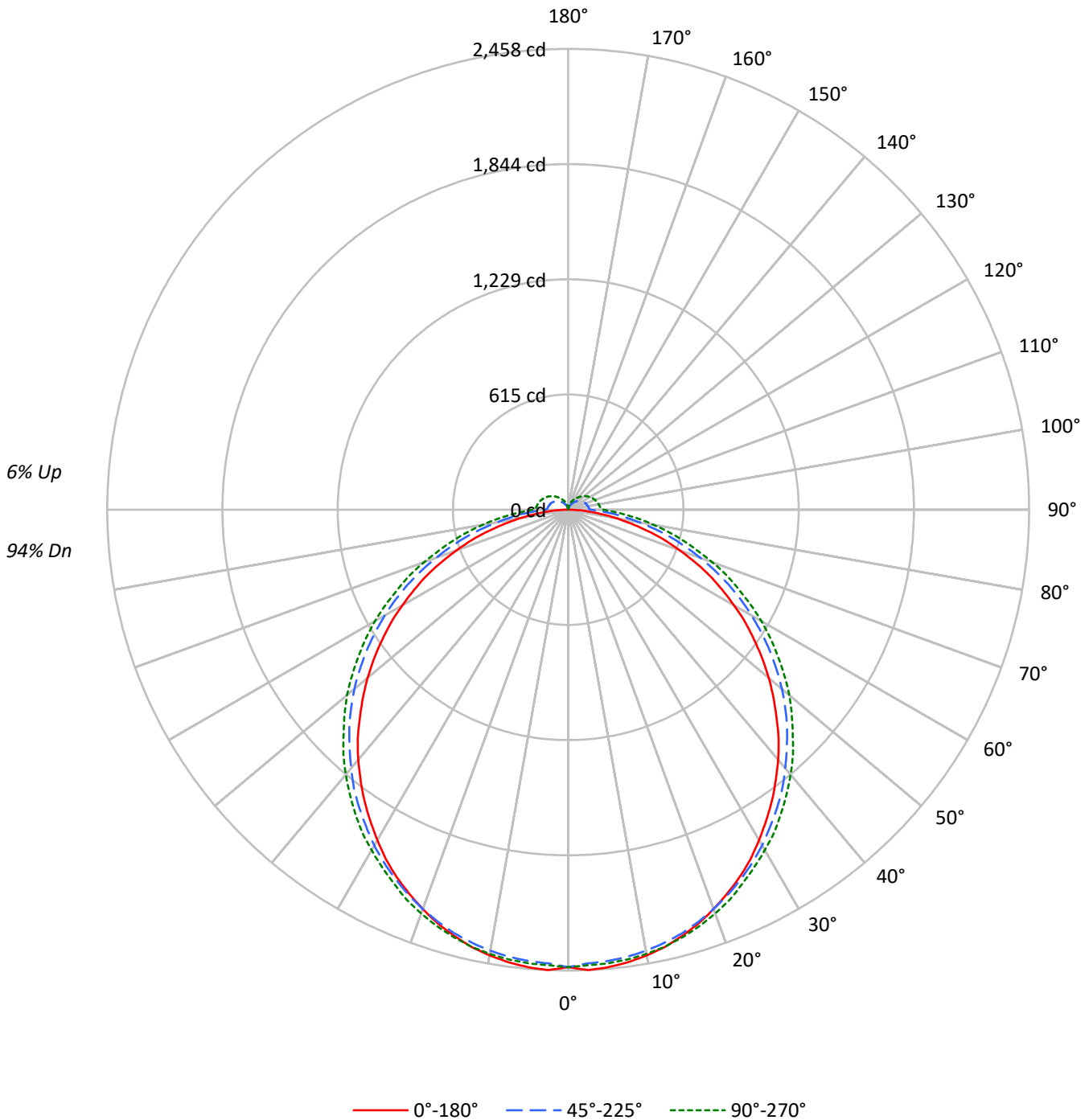
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7754.0 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.28 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	97	93	103	99	95	91	93	90	87	88	86	83	84	82	80	77
2	97	88	81	75	93	86	79	74	81	76	71	77	73	69	73	69	66	64
3	88	77	69	62	85	75	67	61	71	65	59	68	62	57	64	60	56	53
4	80	68	59	52	78	66	58	52	63	56	50	60	54	49	57	52	48	45
5	74	61	52	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13132	13132	13132
5°	13228	12919	12935
10°	13180	12783	12772
15°	13088	12626	12589
20°	12959	12434	12375
25°	12812	12223	12121
30°	12609	12008	11887
35°	12405	11756	11642
40°	12179	11477	11366
45°	11895	11201	11046
50°	11621	10886	10753
55°	11280	10496	10345
60°	10898	10049	9944
65°	10497	9516	9391
70°	9799	8844	8818
75°	8963	8054	8133
80°	7731	7003	7372
85°	6242	6105	6479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	3.0
10°-20°	664.0	8.6
20°-30°	1006.3	13.0
30°-40°	1214.8	15.7
40°-50°	1268.5	16.4
50°-60°	1165.4	15.0
60°-70°	921.6	11.9
70°-80°	583.2	7.5
80°-90°	250.7	3.2
90°-100°	110.3	1.4
100°-110°	98.8	1.3
110°-120°	83.4	1.1
120°-130°	65.0	0.8
130°-140°	45.0	0.6
140°-150°	27.0	0.3
150°-160°	13.2	0.2
160°-170°	4.6	0.1
170°-180°	0.7	0.0
0°-30°	1901.7	24.5
0°-40°	3116.5	40.2
0°-60°	5550.5	71.6
0°-90°	7306.0	94.2
90°-120°	292.5	3.8
90°-150°	429.6	5.5
90°-180°	448.0	5.8
0°-180°	7754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2440	2440	2440	2440	2440	
5°	2450	2443	2417	2437	2429	233
15°	2352	2352	2340	2364	2360	664
25°	2163	2172	2175	2204	2200	996
35°	1895	1917	1942	1972	1979	1185
45°	1571	1609	1650	1682	1693	1213
55°	1211	1260	1313	1355	1365	1084
65°	834	880	942	986	1001	821
75°	439	492	563	611	634	466
85°	107	165	236	287	305	118
90°	7	59	121	169	187	9
95°	1	51	110	154	170	1
105°	1	47	103	144	159	1
115°	1	40	93	130	144	2
125°	3	36	78	113	125	2
135°	3	28	63	89	100	2
145°	3	21	44	67	74	2
155°	3	14	29	43	51	1
165°	4	10	15	21	29	1
175°	4	6	7	7	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2440.0	2440.0	2440.0	2440.0	2440.0
2.5°	2457.9	2449.6	2422.2	2441.4	2431.8
5°	2449.6	2442.8	2416.7	2437.3	2429.1
7.5°	2434.5	2429.1	2405.7	2427.7	2419.4
10°	2413.9	2409.8	2389.2	2411.2	2405.7
12.5°	2387.9	2386.5	2365.9	2390.6	2386.5
15°	2352.2	2352.2	2339.8	2364.5	2360.4
17.5°	2313.7	2315.1	2305.5	2331.6	2328.8
20°	2267.0	2273.9	2267.0	2294.5	2291.7
22.5°	2216.2	2225.8	2223.1	2250.5	2251.9
25°	2162.7	2172.3	2175.0	2203.9	2199.7
27.5°	2103.6	2118.7	2124.2	2150.3	2148.9
30°	2035.0	2055.6	2067.9	2089.9	2096.8
32.5°	1964.9	1989.7	2004.8	2035.0	2043.2
35°	1894.9	1916.9	1941.6	1971.8	1978.7
37.5°	1818.0	1842.7	1875.7	1904.5	1912.8
40°	1741.1	1768.6	1800.2	1831.7	1844.1
42.5°	1661.5	1690.3	1724.6	1761.7	1774.1
45°	1570.9	1609.3	1650.5	1682.1	1693.1
47.5°	1484.3	1526.9	1570.9	1605.2	1617.5
50°	1396.5	1441.8	1488.5	1520.0	1539.3
52.5°	1304.5	1353.9	1400.6	1440.4	1452.8
55°	1211.1	1260.5	1312.7	1355.3	1364.9
57.5°	1120.5	1168.5	1220.7	1260.5	1279.7
60°	1021.6	1073.8	1130.1	1169.9	1190.5
62.5°	925.5	976.3	1036.7	1079.3	1095.8
65°	833.5	880.2	942.0	985.9	1001.0
67.5°	731.9	785.4	844.5	895.3	914.5
70°	631.6	682.4	749.7	797.8	817.0
72.5°	538.3	587.7	655.0	703.0	720.9
75°	439.4	491.6	563.0	611.0	634.4
77.5°	344.7	402.3	471.0	523.2	549.2
80°	256.8	307.6	381.7	439.4	462.7
82.5°	174.4	229.3	306.2	359.8	385.8
85°	107.1	164.8	236.2	287.0	304.8
87.5°	50.8	105.7	171.6	221.1	243.0
90°	6.9	59.0	120.8	168.9	186.7
92.5°	1.4	50.8	111.2	156.5	173.0
95°	1.4	50.8	109.8	153.8	170.3
97.5°	1.4	49.4	108.5	152.4	167.5
100°	1.4	48.1	107.1	149.7	166.1
102.5°	1.4	48.1	104.4	146.9	162.0
105°	1.4	46.7	103.0	144.2	159.3
107.5°	1.4	45.3	100.2	141.4	156.5
110°	1.4	42.6	98.9	137.3	152.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	41.2	96.1	134.6	148.3
115°	1.4	39.8	93.4	130.4	144.2
117.5°	1.4	38.4	89.3	126.3	140.1
120°	2.7	38.4	86.5	122.2	134.6
122.5°	2.7	37.1	82.4	116.7	129.1
125°	2.7	35.7	78.3	112.6	125.0
127.5°	2.7	34.3	74.1	107.1	118.1
130°	2.7	31.6	71.4	101.6	112.6
132.5°	2.7	30.2	67.3	94.7	105.7
135°	2.7	27.5	63.2	89.3	100.2
137.5°	2.7	26.1	59.0	83.8	93.4
140°	2.7	24.7	53.6	78.3	87.9
142.5°	2.7	22.0	49.4	72.8	81.0
145°	2.7	20.6	43.9	67.3	74.1
147.5°	2.7	17.9	39.8	61.8	68.7
150°	2.7	16.5	35.7	56.3	63.2
152.5°	2.7	15.1	31.6	49.4	56.3
155°	2.7	13.7	28.8	42.6	50.8
157.5°	2.7	12.4	24.7	37.1	45.3
160°	4.1	11.0	22.0	31.6	38.4
162.5°	4.1	9.6	17.9	26.1	34.3
165°	4.1	9.6	15.1	20.6	28.8
167.5°	4.1	8.2	12.4	16.5	23.3
170°	4.1	6.9	11.0	12.4	17.9
172.5°	4.1	5.5	8.2	8.2	9.6
175°	4.1	5.5	6.9	6.9	4.1
177.5°	4.1	4.1	4.1	4.1	2.7
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)