

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: P568045

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568045
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-L850-CD
Description: 8FT 8200 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

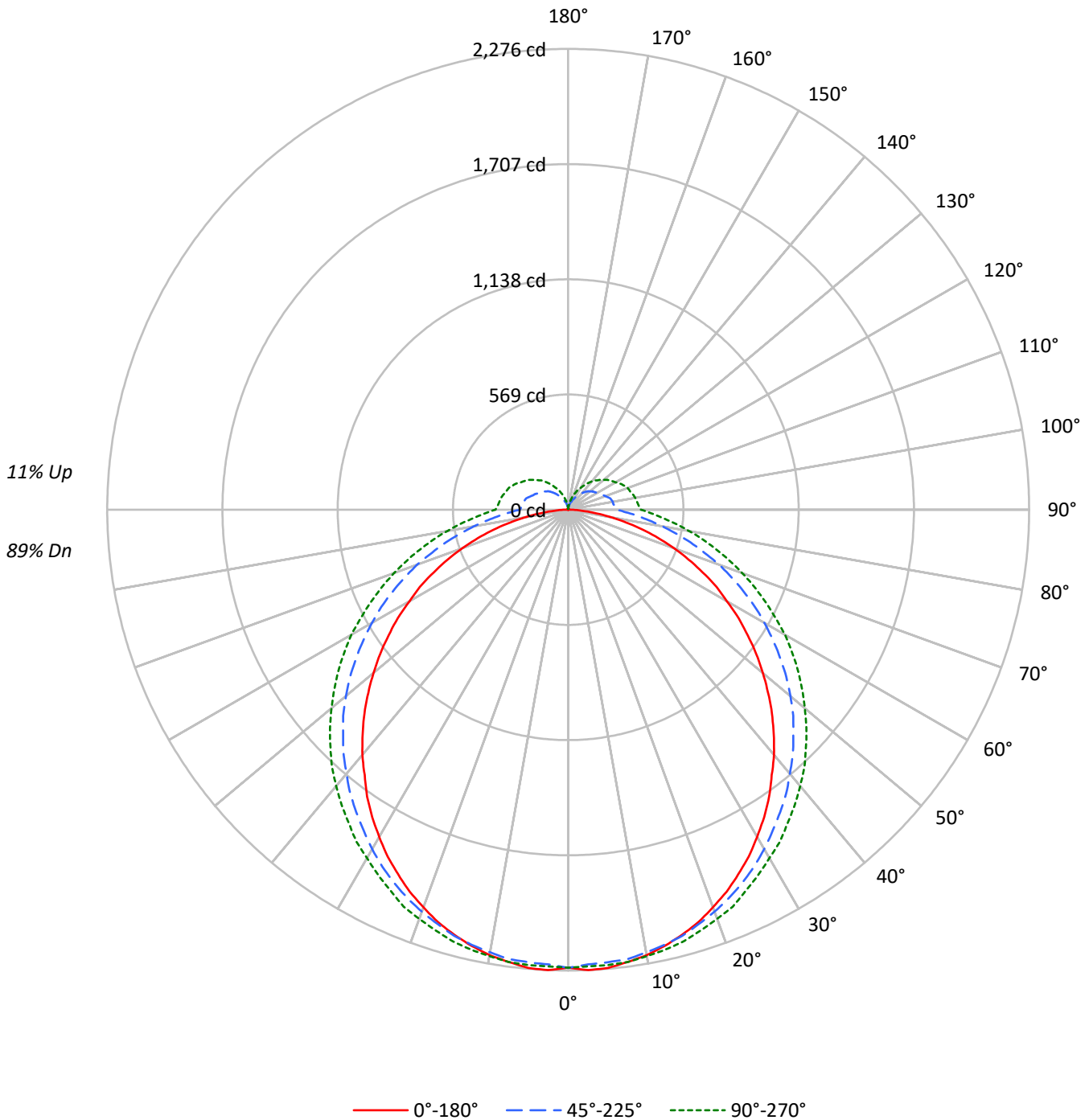
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8053.0 lumens
Efficiency: N/A
Efficacy: 153.1 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

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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	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°	12175	12175	12175
5°	12249	11626	11524
10°	12165	11175	10948
15°	12043	10738	10429
20°	11877	10282	9910
25°	11685	9845	9402
30°	11457	9393	8916
35°	11206	8939	8461
40°	10917	8495	8027
45°	10607	8050	7583
50°	10251	7591	7116
55°	9860	7078	6658
60°	9400	6541	6174
65°	8927	5961	5623
70°	8261	5342	5080
75°	7380	4618	4505
80°	5948	3886	3930
85°	4189	3207	3341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.9	2.7
10°-20°	617.6	7.7
20°-30°	939.0	11.7
30°-40°	1139.9	14.2
40°-50°	1204.5	15.0
50°-60°	1127.2	14.0
60°-70°	924.8	11.5
70°-80°	636.1	7.9
80°-90°	348.4	4.3
90°-100°	224.3	2.8
100°-110°	201.3	2.5
110°-120°	166.6	2.1
120°-130°	128.3	1.6
130°-140°	90.2	1.1
140°-150°	54.3	0.7
150°-160°	26.0	0.3
160°-170°	8.5	0.1
170°-180°	1.0	0.0
0°-30°	1771.5	22.0
0°-40°	2911.4	36.2
0°-60°	5243.1	65.1
0°-90°	7152.4	88.8
90°-120°	592.2	7.4
90°-150°	865.0	10.7
90°-180°	901.0	11.2
0°-180°	8053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2262	2262	2262	2262	2262	
5°	2271	2267	2243	2262	2257	215
15°	2174	2183	2178	2206	2206	613
25°	1987	2010	2034	2076	2076	916
35°	1730	1772	1824	1875	1889	1081
45°	1423	1488	1572	1642	1660	1096
55°	1082	1171	1278	1357	1385	968
65°	732	830	956	1045	1073	725
75°	382	485	625	723	756	403
85°	84	201	340	434	466	97
90°	0	112	238	326	359	6
95°	0	107	228	312	345	0
105°	0	89	215	294	322	3
115°	5	79	182	261	294	5
125°	5	65	154	224	252	4
135°	5	51	126	182	205	4
145°	5	37	89	140	154	3
155°	5	23	56	89	103	2
165°	5	14	28	42	51	1
175°	5	5	9	9	5	0
180°	5	5	5	5	5	



TEST NUMBER: P568045

CATALOG NUMBER: 8SNX-82SL-LW-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2262.1	2262.1	2262.1	2262.1	2262.1
2.5°	2276.1	2271.4	2248.1	2266.8	2257.4
5°	2271.4	2266.8	2243.4	2262.1	2257.4
7.5°	2252.8	2252.8	2238.8	2257.4	2252.8
10°	2234.1	2234.1	2220.1	2243.4	2238.8
12.5°	2206.1	2210.8	2201.5	2229.5	2224.8
15°	2173.5	2182.8	2178.2	2206.1	2206.1
17.5°	2136.2	2145.5	2145.5	2178.2	2178.2
20°	2089.5	2103.5	2112.9	2150.2	2150.2
22.5°	2042.9	2061.5	2075.5	2108.2	2122.2
25°	1986.9	2010.2	2033.6	2075.5	2075.5
27.5°	1931.0	1958.9	1986.9	2028.9	2033.6
30°	1865.7	1898.3	1935.6	1977.6	1986.9
32.5°	1800.4	1842.3	1879.6	1931.0	1944.9
35°	1730.4	1772.4	1823.7	1875.0	1889.0
37.5°	1651.1	1702.4	1767.7	1823.7	1837.7
40°	1581.1	1637.1	1702.4	1767.7	1781.7
42.5°	1501.9	1562.5	1641.8	1702.4	1725.7
45°	1422.6	1487.9	1571.8	1641.8	1660.4
47.5°	1338.6	1413.2	1506.5	1571.8	1595.1
50°	1254.7	1333.9	1431.9	1506.5	1525.2
52.5°	1170.7	1254.7	1357.3	1431.9	1455.2
55°	1082.1	1170.7	1278.0	1357.3	1385.2
57.5°	998.1	1086.7	1198.7	1282.6	1310.6
60°	904.8	1007.5	1119.4	1203.3	1236.0
62.5°	825.6	918.8	1040.1	1124.1	1152.0
65°	732.3	830.2	956.1	1044.8	1072.8
67.5°	643.7	746.3	872.2	965.5	993.5
70°	555.0	657.6	792.9	881.5	914.2
72.5°	466.4	573.7	704.3	802.2	834.9
75°	382.5	485.1	625.0	722.9	755.6
77.5°	293.8	405.8	545.7	643.7	681.0
80°	214.6	331.2	471.1	569.0	606.3
82.5°	144.6	261.2	401.1	499.1	536.4
85°	84.0	200.6	340.5	433.8	466.4
87.5°	42.0	153.9	284.5	377.8	410.4
90°	0.0	111.9	237.9	326.5	359.1
92.5°	0.0	107.3	233.2	317.2	349.8
95°	0.0	107.3	228.5	312.5	345.1
97.5°	0.0	102.6	223.9	312.5	340.5
100°	0.0	97.9	223.9	307.8	335.8
102.5°	0.0	93.3	219.2	303.2	331.2
105°	0.0	88.6	214.6	293.8	321.8
107.5°	4.7	88.6	205.2	289.2	317.2
110°	4.7	84.0	195.9	284.5	312.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4.7	79.3	186.6	275.2	303.2
115°	4.7	79.3	181.9	261.2	293.8
117.5°	4.7	74.6	172.6	251.9	284.5
120°	4.7	74.6	167.9	242.5	270.5
122.5°	4.7	70.0	158.6	233.2	261.2
125°	4.7	65.3	153.9	223.9	251.9
127.5°	4.7	60.6	149.3	214.6	242.5
130°	4.7	56.0	139.9	205.2	228.5
132.5°	4.7	56.0	135.3	191.2	219.2
135°	4.7	51.3	125.9	181.9	205.2
137.5°	4.7	46.6	116.6	172.6	195.9
140°	4.7	42.0	107.3	163.2	181.9
142.5°	4.7	42.0	97.9	149.3	167.9
145°	4.7	37.3	88.6	139.9	153.9
147.5°	4.7	32.6	79.3	125.9	139.9
150°	4.7	32.6	70.0	111.9	125.9
152.5°	4.7	28.0	60.6	102.6	116.6
155°	4.7	23.3	56.0	88.6	102.6
157.5°	4.7	23.3	46.6	74.6	88.6
160°	4.7	18.7	42.0	60.6	74.6
162.5°	4.7	18.7	37.3	51.3	65.3
165°	4.7	14.0	28.0	42.0	51.3
167.5°	4.7	14.0	23.3	32.6	42.0
170°	4.7	9.3	18.7	23.3	32.6
172.5°	4.7	9.3	14.0	14.0	14.0
175°	4.7	4.7	9.3	9.3	4.7
177.5°	4.7	4.7	4.7	4.7	4.7
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)