

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: P568074

Luminaire Tested: **8SNX-90SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P568074
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-90SL-LC-UNV-L830-CD
Description: 8FT 9000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

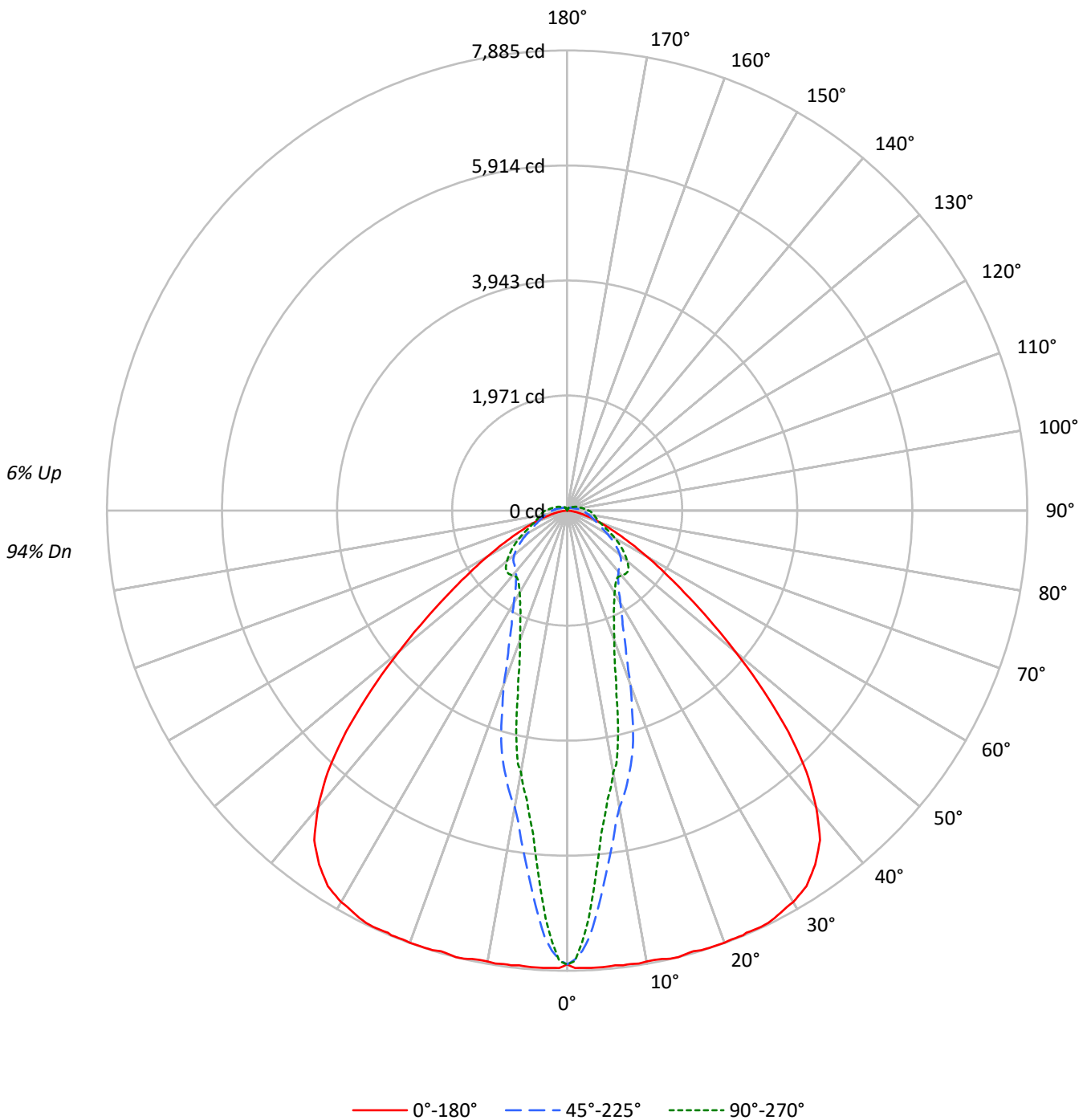
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9586.0 lumens
Efficiency: N/A
Efficacy: 160.8 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): 59.6
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	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°	41853	41853	41853
5°	42308	34419	30770
10°	42718	26013	22270
15°	43580	21287	15421
20°	44791	15419	10891
25°	46285	11059	8568
30°	47573	8844	7297
35°	47973	7489	6535
40°	45861	6815	6551
45°	39924	6592	6730
50°	30744	6276	6280
55°	22382	5495	5573
60°	16332	4593	4712
65°	11977	3890	3862
70°	8920	3442	3330
75°	6446	3194	3104
80°	4357	2999	3057
85°	2204	2869	3062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.6	6.4
10°-20°	1328.0	13.9
20°-30°	1520.2	15.9
30°-40°	1522.9	15.9
40°-50°	1441.6	15.0
50°-60°	1105.6	11.5
60°-70°	712.6	7.4
70°-80°	454.4	4.7
80°-90°	301.8	3.1
90°-100°	202.8	2.1
100°-110°	133.7	1.4
110°-120°	93.0	1.0
120°-130°	64.9	0.7
130°-140°	45.0	0.5
140°-150°	27.6	0.3
150°-160°	14.0	0.1
160°-170°	5.4	0.1
170°-180°	1.0	0.0
0°-30°	3459.8	36.1
0°-40°	4982.7	52.0
0°-60°	7529.8	78.6
0°-90°	8998.7	93.9
90°-120°	429.5	4.5
90°-150°	567.0	5.9
90°-180°	587.0	6.1
0°-180°	9586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7777	7777	7777	7777	7777	
5°	7845	7413	6642	6195	6028	749
15°	7865	5664	4318	3547	3262	2231
25°	7870	4009	2284	1985	1891	3628
35°	7408	2230	1528	1479	1459	4596
45°	5355	1410	1287	1425	1474	4071
55°	2456	1007	992	1115	1159	2259
65°	982	634	624	712	737	1011
75°	334	344	432	496	521	367
85°	44	157	305	398	427	61
90°	0	108	256	354	368	2
95°	0	79	211	290	305	0
105°	0	59	138	196	211	3
115°	5	49	103	142	152	5
125°	5	44	88	103	108	4
135°	5	34	69	84	88	4
145°	5	25	49	64	69	3
155°	5	15	30	44	49	3
165°	10	10	20	25	30	2
175°	10	10	10	10	5	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7776.6	7776.6	7776.6	7776.6	7776.6
1°	7840.5	7796.3	7693.1	7722.6	7717.7
2°	7840.5	7747.2	7545.7	7486.8	7398.4
3°	7845.4	7663.6	7319.8	7128.2	7005.4
4°	7845.4	7540.8	6985.7	6666.4	6509.2
5°	7845.4	7413.1	6641.8	6194.8	6027.7
6°	7835.6	7260.8	6293.0	5821.4	5570.9
7°	7850.3	7093.8	5978.6	5472.6	5276.1
8°	7845.4	6897.3	5688.8	5207.3	4991.2
9°	7860.1	6705.7	5374.4	4956.8	4794.7
10°	7845.4	6528.8	5168.0	4721.0	4554.0
11°	7845.4	6356.9	5020.7	4568.7	4426.2
12°	7855.2	6160.4	4858.6	4352.6	4156.1
13°	7879.8	5959.0	4671.9	4116.7	3885.9
14°	7884.7	5806.7	4499.9	3817.1	3576.4
15°	7865.1	5664.2	4318.2	3546.9	3262.0
16°	7855.2	5516.8	4102.0	3291.4	3036.0
17°	7874.9	5344.9	3856.4	3031.1	2795.3
18°	7879.8	5187.7	3596.0	2834.6	2628.2
19°	7879.8	5064.9	3384.8	2652.8	2475.9
20°	7879.8	4947.0	3168.6	2515.2	2363.0
21°	7870.0	4799.6	2923.0	2372.8	2245.1
22.5°	7874.9	4524.5	2643.0	2205.8	2102.6
23°	7860.1	4455.7	2574.2	2161.5	2053.5
24°	7865.1	4259.2	2426.8	2073.1	1969.9
25°	7870.0	4008.7	2284.4	1984.7	1891.3
26°	7860.1	3807.3	2166.5	1901.2	1837.3
27°	7835.6	3645.1	2082.9	1832.4	1773.4
28°	7801.2	3429.0	1994.5	1773.4	1719.4
29°	7766.8	3183.4	1906.1	1709.6	1670.3
30°	7747.2	2986.9	1822.6	1660.5	1626.1
32.5°	7629.3	2598.8	1650.6	1562.2	1532.7
35°	7408.2	2230.3	1527.8	1478.7	1459.0
37.5°	7118.3	1945.4	1434.5	1424.7	1429.6
40°	6641.8	1719.4	1365.7	1409.9	1454.1
42.5°	6072.0	1542.6	1316.6	1424.7	1473.8
45°	5354.7	1409.9	1287.1	1424.7	1473.8
47.5°	4558.9	1301.8	1252.7	1375.5	1424.7
50°	3763.0	1203.6	1183.9	1301.8	1346.0
52.5°	3060.5	1110.2	1095.5	1208.5	1252.7
55°	2456.3	1007.1	992.3	1115.2	1159.4
57.5°	1969.9	908.8	894.1	1007.1	1051.3
60°	1572.0	810.6	786.0	899.0	943.2
62.5°	1252.7	717.2	702.5	800.8	840.1
65°	982.5	633.7	623.9	712.3	736.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	776.2	555.1	560.0	633.7	663.2
70°	599.3	481.4	510.9	579.7	599.3
72.5°	452.0	407.7	471.6	530.6	555.1
75°	334.1	343.9	432.3	496.2	520.7
77.5°	230.9	284.9	397.9	466.7	491.3
80°	157.2	230.9	363.5	442.1	471.6
82.5°	93.3	191.6	334.1	417.6	452.0
85°	44.2	157.2	304.6	397.9	427.4
87.5°	14.7	127.7	275.1	378.3	402.8
90°	0.0	108.1	255.5	353.7	368.4
92.5°	0.0	93.3	230.9	324.2	334.1
95°	0.0	78.6	211.2	289.8	304.6
97.5°	0.0	73.7	196.5	260.4	280.0
100°	0.0	68.8	176.9	235.8	255.5
102.5°	0.0	59.0	157.2	211.2	230.9
105°	0.0	59.0	137.6	196.5	211.2
107.5°	4.9	54.0	127.7	176.9	196.5
110°	4.9	54.0	113.0	167.0	181.8
112.5°	4.9	54.0	108.1	152.3	171.9
115°	4.9	49.1	103.2	142.5	152.3
117.5°	4.9	49.1	98.3	127.7	137.6
120°	4.9	44.2	93.3	117.9	122.8
122.5°	4.9	44.2	88.4	108.1	113.0
125°	4.9	44.2	88.4	103.2	108.1
127.5°	4.9	39.3	83.5	98.3	98.3
130°	4.9	39.3	78.6	93.3	93.3
132.5°	4.9	34.4	73.7	88.4	93.3
135°	4.9	34.4	68.8	83.5	88.4
137.5°	4.9	29.5	63.9	78.6	83.5
140°	4.9	29.5	59.0	73.7	78.6
142.5°	4.9	24.6	54.0	68.8	73.7
145°	4.9	24.6	49.1	63.9	68.8
147.5°	4.9	24.6	44.2	59.0	63.9
150°	4.9	19.7	39.3	54.0	59.0
152.5°	4.9	19.7	34.4	49.1	54.0
155°	4.9	14.7	29.5	44.2	49.1
157.5°	4.9	14.7	29.5	39.3	44.2
160°	9.8	14.7	24.6	34.4	39.3
162.5°	4.9	9.8	24.6	29.5	34.4
165°	9.8	9.8	19.7	24.6	29.5
167.5°	9.8	9.8	14.7	19.7	24.6
170°	9.8	9.8	14.7	14.7	19.7
172.5°	9.8	9.8	9.8	14.7	9.8
175°	9.8	9.8	9.8	9.8	4.9
177.5°	9.8	9.8	9.8	9.8	4.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	9.8	9.8	9.8	9.8	9.8

(END OF REPORT)