

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: P567738

Luminaire Tested: **8SNX-40SL-LC-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567738
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-40SL-LC-UNV-L830-CD
Description: 8FT 4000 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

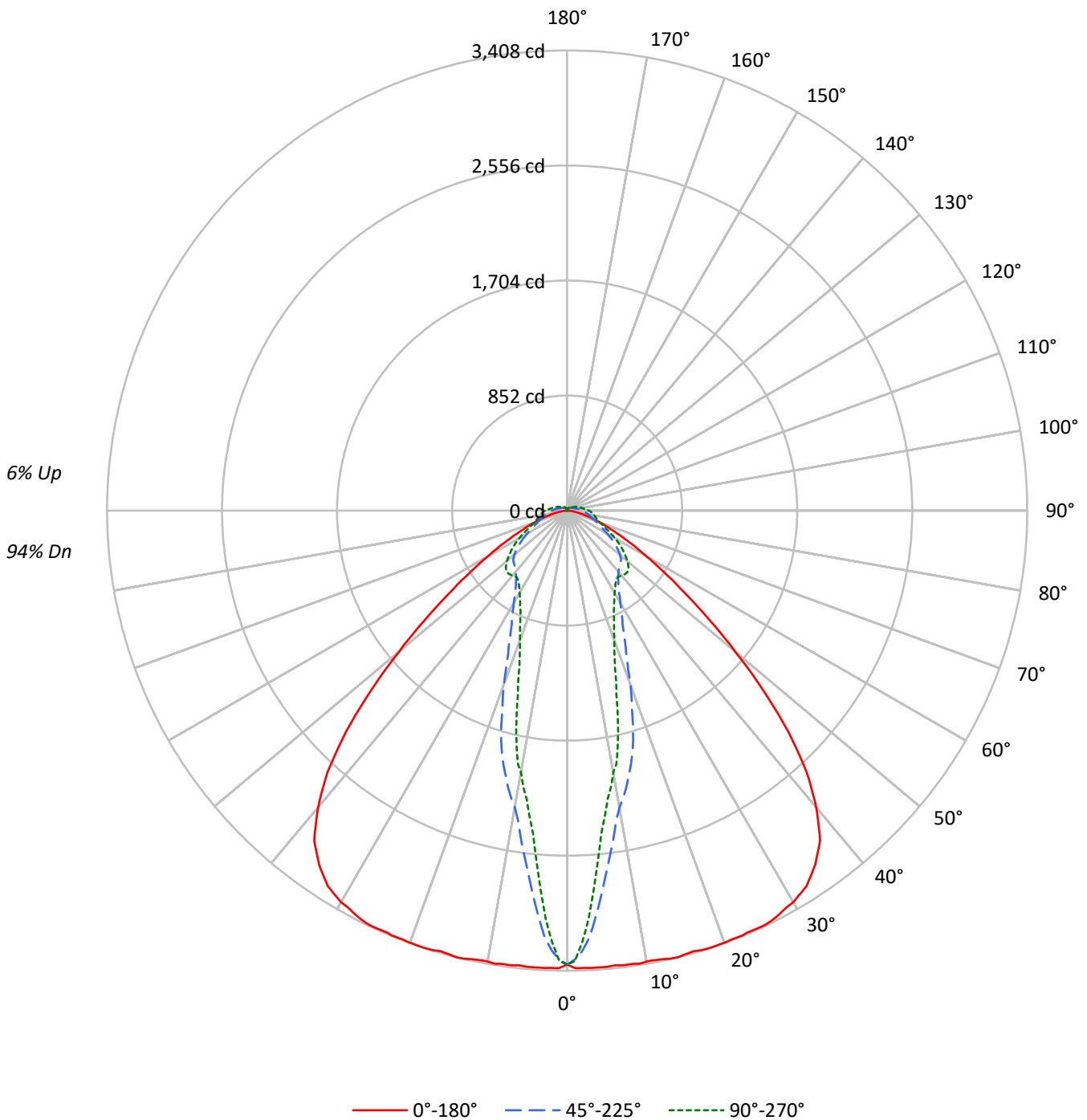
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4144.0 lumens
Efficiency: N/A
Efficacy: 171.2 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): 24.2
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°	18093	18093	18093
5°	18289	14879	13302
10°	18467	11245	9627
15°	18839	9202	6666
20°	19363	6666	4708
25°	20009	4780	3704
30°	20566	3823	3154
35°	20738	3238	2825
40°	19825	2946	2832
45°	17259	2850	2909
50°	13291	2713	2715
55°	9675	2376	2409
60°	7060	1986	2037
65°	5177	1682	1670
70°	3856	1488	1440
75°	2786	1381	1342
80°	1885	1297	1322
85°	953	1240	1324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	6.4
10°-20°	574.1	13.9
20°-30°	657.2	15.9
30°-40°	658.3	15.9
40°-50°	623.2	15.0
50°-60°	478.0	11.5
60°-70°	308.1	7.4
70°-80°	196.5	4.7
80°-90°	130.5	3.1
90°-100°	87.7	2.1
100°-110°	57.8	1.4
110°-120°	40.2	1.0
120°-130°	28.0	0.7
130°-140°	19.5	0.5
140°-150°	11.9	0.3
150°-160°	6.0	0.1
160°-170°	2.3	0.1
170°-180°	0.4	0.0
0°-30°	1495.6	36.1
0°-40°	2154.0	52.0
0°-60°	3255.1	78.5
0°-90°	3890.1	93.9
90°-120°	185.7	4.5
90°-150°	245.1	5.9
90°-180°	254.0	6.1
0°-180°	4144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3362	3362	3362	3362	3362	
5°	3392	3205	2871	2678	2606	324
15°	3400	2449	1867	1533	1410	964
25°	3402	1733	988	858	818	1568
35°	3202	964	660	639	631	1987
45°	2315	610	556	616	637	1760
55°	1062	435	429	482	501	976
65°	425	274	270	308	319	437
75°	144	149	187	214	225	159
85°	19	68	132	172	185	26
90°	0	47	110	153	159	1
95°	0	34	91	125	132	0
105°	0	26	60	85	91	1
115°	2	21	45	62	66	2
125°	2	19	38	45	47	2
135°	2	15	30	36	38	2
145°	2	11	21	28	30	1
155°	2	6	13	19	21	1
165°	4	4	8	11	13	1
175°	4	4	4	4	2	0
180°	4	4	4	4	4	



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CATALOG NUMBER: 8SNX-40SL-LC-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3361.8	3361.8	3361.8	3361.8	3361.8
1°	3389.4	3370.3	3325.7	3338.5	3336.3
2°	3389.4	3349.1	3262.0	3236.5	3198.3
3°	3391.5	3313.0	3164.3	3081.5	3028.4
4°	3391.5	3259.9	3019.9	2881.9	2813.9
5°	3391.5	3204.7	2871.2	2678.0	2605.8
6°	3387.3	3138.8	2720.5	2516.6	2408.3
7°	3393.7	3066.6	2584.5	2365.8	2280.9
8°	3391.5	2981.7	2459.2	2251.1	2157.7
9°	3397.9	2898.8	2323.3	2142.8	2072.7
10°	3391.5	2822.4	2234.1	2040.9	1968.7
11°	3391.5	2748.1	2170.4	1975.0	1913.5
12°	3395.8	2663.1	2100.3	1881.6	1796.6
13°	3406.4	2576.0	2019.6	1779.7	1679.8
14°	3408.5	2510.2	1945.3	1650.1	1546.1
15°	3400.0	2448.6	1866.7	1533.3	1410.1
16°	3395.8	2384.9	1773.3	1422.9	1312.4
17°	3404.3	2310.6	1667.1	1310.3	1208.4
18°	3406.4	2242.6	1554.5	1225.4	1136.2
19°	3406.4	2189.5	1463.2	1146.8	1070.3
20°	3406.4	2138.6	1369.8	1087.3	1021.5
21°	3402.2	2074.9	1263.6	1025.7	970.5
22.5°	3404.3	1955.9	1142.5	953.5	908.9
23°	3397.9	1926.2	1112.8	934.4	887.7
24°	3400.0	1841.2	1049.1	896.2	851.6
25°	3402.2	1732.9	987.5	858.0	817.6
26°	3397.9	1645.9	936.6	821.9	794.3
27°	3387.3	1575.8	900.4	792.1	766.7
28°	3372.4	1482.3	862.2	766.7	743.3
29°	3357.6	1376.2	824.0	739.0	722.1
30°	3349.1	1291.2	787.9	717.8	702.9
32.5°	3298.1	1123.4	713.6	675.3	662.6
35°	3202.5	964.2	660.5	639.2	630.7
37.5°	3077.2	841.0	620.1	615.9	618.0
40°	2871.2	743.3	590.4	609.5	628.6
42.5°	2624.9	666.8	569.2	615.9	637.1
45°	2314.8	609.5	556.4	615.9	637.1
47.5°	1970.8	562.8	541.5	594.6	615.9
50°	1626.8	520.3	511.8	562.8	581.9
52.5°	1323.1	480.0	473.6	522.4	541.5
55°	1061.8	435.4	429.0	482.1	501.2
57.5°	851.6	392.9	386.5	435.4	454.5
60°	679.6	350.4	339.8	388.6	407.8
62.5°	541.5	310.1	303.7	346.2	363.2
65°	424.7	274.0	269.7	307.9	318.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	335.5	240.0	242.1	274.0	286.7
70°	259.1	208.1	220.9	250.6	259.1
72.5°	195.4	176.3	203.9	229.4	240.0
75°	144.4	148.7	186.9	214.5	225.1
77.5°	99.8	123.2	172.0	201.8	212.4
80°	68.0	99.8	157.2	191.1	203.9
82.5°	40.4	82.8	144.4	180.5	195.4
85°	19.1	68.0	131.7	172.0	184.8
87.5°	6.4	55.2	118.9	163.5	174.1
90°	0.0	46.7	110.4	152.9	159.3
92.5°	0.0	40.4	99.8	140.2	144.4
95°	0.0	34.0	91.3	125.3	131.7
97.5°	0.0	31.9	84.9	112.6	121.1
100°	0.0	29.7	76.5	101.9	110.4
102.5°	0.0	25.5	68.0	91.3	99.8
105°	0.0	25.5	59.5	84.9	91.3
107.5°	2.1	23.4	55.2	76.5	84.9
110°	2.1	23.4	48.8	72.2	78.6
112.5°	2.1	23.4	46.7	65.8	74.3
115°	2.1	21.2	44.6	61.6	65.8
117.5°	2.1	21.2	42.5	55.2	59.5
120°	2.1	19.1	40.4	51.0	53.1
122.5°	2.1	19.1	38.2	46.7	48.8
125°	2.1	19.1	38.2	44.6	46.7
127.5°	2.1	17.0	36.1	42.5	42.5
130°	2.1	17.0	34.0	40.4	40.4
132.5°	2.1	14.9	31.9	38.2	40.4
135°	2.1	14.9	29.7	36.1	38.2
137.5°	2.1	12.7	27.6	34.0	36.1
140°	2.1	12.7	25.5	31.9	34.0
142.5°	2.1	10.6	23.4	29.7	31.9
145°	2.1	10.6	21.2	27.6	29.7
147.5°	2.1	10.6	19.1	25.5	27.6
150°	2.1	8.5	17.0	23.4	25.5
152.5°	2.1	8.5	14.9	21.2	23.4
155°	2.1	6.4	12.7	19.1	21.2
157.5°	2.1	6.4	12.7	17.0	19.1
160°	4.2	6.4	10.6	14.9	17.0
162.5°	2.1	4.2	10.6	12.7	14.9
165°	4.2	4.2	8.5	10.6	12.7
167.5°	4.2	4.2	6.4	8.5	10.6
170°	4.2	4.2	6.4	6.4	8.5
172.5°	4.2	4.2	4.2	6.4	4.2
175°	4.2	4.2	4.2	4.2	2.1
177.5°	4.2	4.2	4.2	4.2	2.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	4.2	4.2	4.2	4.2	4.2

(END OF REPORT)