

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: P567748

Luminaire Tested: **8SNX-40SL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-40SL-LN-UNV-L840-CD
Description: 8FT 4000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

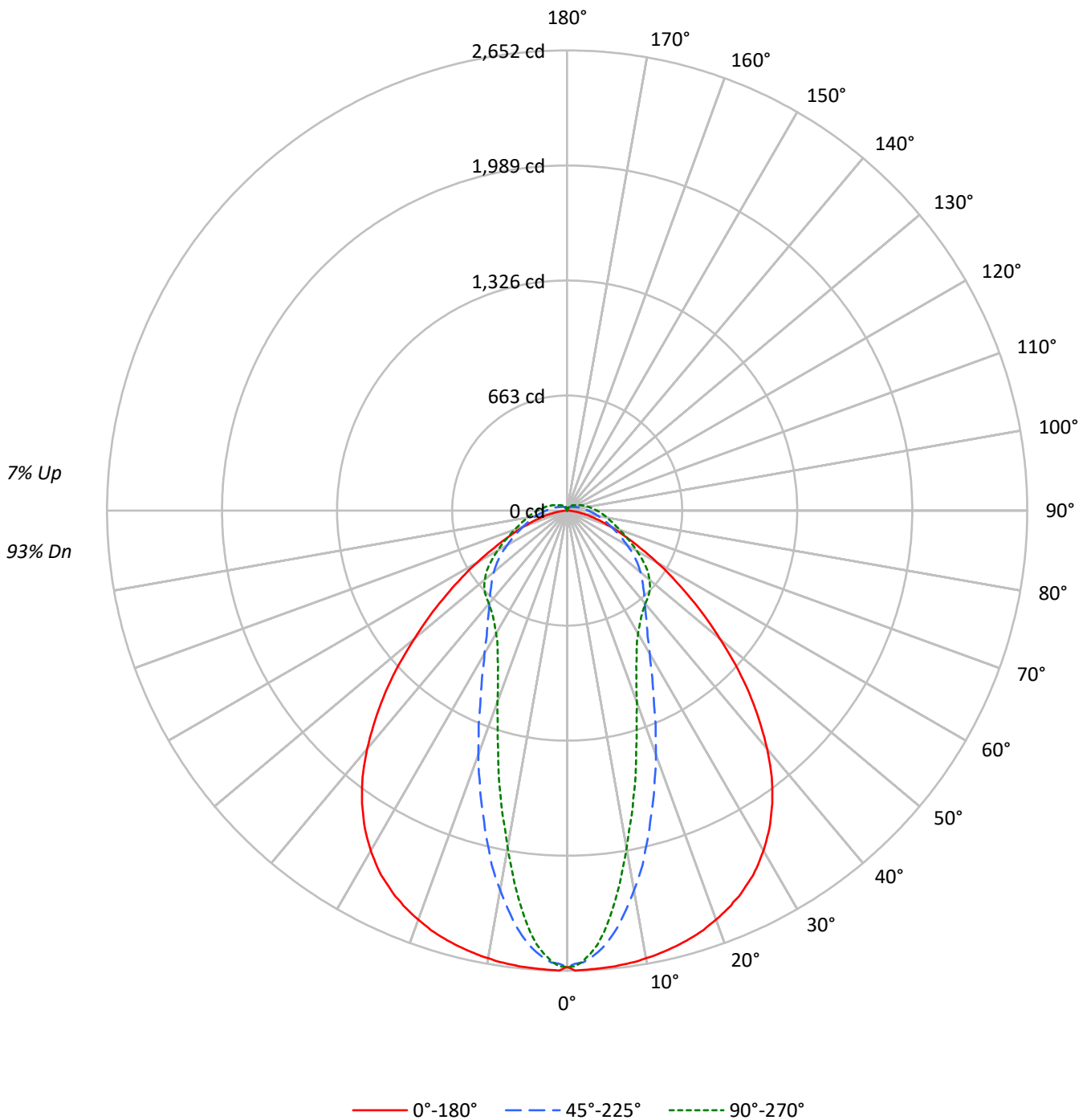
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4192.0 lumens
Efficiency: N/A
Efficacy: 173.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 0.56 / 0.78
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93				
1	107	103	99	95	104	100	96	93	94	91	88	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	82	77	84	79	75	79	75	72	76	72	69	67				
3	91	81	73	67	88	79	72	66	75	69	64	71	66	62	68	64	60	58				
4	84	73	64	58	81	71	63	57	67	61	56	64	59	54	62	57	53	51				
5	78	66	57	51	75	64	56	51	61	55	49	59	53	48	56	51	47	45				
6	72	60	51	45	70	59	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	47	41	65	54	46	41	52	45	40	50	44	39	48	42	38	36				
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30				
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14153	14153	14153
5°	14252	13024	12448
10°	14259	11180	9658
15°	14279	9130	7239
20°	14261	7280	5417
25°	14161	5711	4299
30°	13896	4627	3668
35°	13345	3920	3336
40°	12378	3464	3157
45°	11041	3173	3060
50°	9387	2923	2890
55°	7747	2652	2640
60°	6231	2336	2316
65°	4874	2054	2015
70°	3825	1820	1783
75°	3010	1640	1624
80°	2193	1504	1510
85°	1317	1407	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	5.6
10°-20°	545.9	13.0
20°-30°	648.0	15.5
30°-40°	651.9	15.6
40°-50°	606.0	14.5
50°-60°	499.0	11.9
60°-70°	351.6	8.4
70°-80°	229.7	5.5
80°-90°	146.7	3.5
90°-100°	96.2	2.3
100°-110°	65.3	1.6
110°-120°	44.8	1.1
120°-130°	31.0	0.7
130°-140°	20.8	0.5
140°-150°	12.9	0.3
150°-160°	6.7	0.2
160°-170°	2.4	0.1
170°-180°	0.4	0.0
0°-30°	1426.7	34.0
0°-40°	2078.7	49.6
0°-60°	3183.6	75.9
0°-90°	3911.6	93.3
90°-120°	206.2	4.9
90°-150°	270.9	6.5
90°-180°	280.0	6.7
0°-180°	4192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2630	2630	2630	2630	2630	
5°	2643	2608	2513	2465	2439	252
15°	2577	2302	1852	1619	1531	728
25°	2408	1780	1180	991	949	1108
35°	2061	1204	800	749	745	1282
45°	1481	793	620	652	670	1137
55°	850	521	479	532	549	768
65°	400	314	330	371	384	406
75°	156	163	222	261	272	169
85°	26	75	149	193	202	33
90°	0	50	121	165	171	2
95°	0	37	101	138	145	0
105°	0	26	68	97	106	0
115°	2	22	48	70	75	2
125°	2	18	40	50	55	2
135°	2	15	31	40	42	2
145°	2	11	22	31	33	1
155°	2	9	15	22	24	1
165°	2	4	9	11	13	1
175°	4	4	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2629.8	2629.8	2629.8	2629.8	2629.8
1°	2651.7	2640.8	2612.2	2632.0	2627.6
2°	2649.5	2638.6	2605.6	2614.4	2599.0
3°	2647.3	2632.0	2581.4	2579.2	2557.3
4°	2645.1	2621.0	2550.7	2524.3	2506.7
5°	2642.9	2607.8	2513.3	2465.0	2438.6
6°	2640.8	2592.4	2465.0	2392.5	2355.1
7°	2636.4	2568.3	2414.5	2315.6	2267.3
8°	2632.0	2546.3	2350.8	2232.1	2172.8
9°	2627.6	2517.7	2287.0	2142.0	2071.7
10°	2618.8	2489.2	2221.1	2049.8	1975.1
11°	2614.4	2456.2	2157.4	1961.9	1874.0
12°	2605.6	2421.1	2089.3	1869.6	1792.7
13°	2596.8	2383.7	2005.8	1790.5	1698.3
14°	2588.0	2344.2	1933.3	1702.6	1617.0
15°	2577.0	2302.4	1852.0	1619.2	1531.3
16°	2566.1	2254.1	1779.5	1533.5	1441.2
17°	2555.1	2207.9	1711.4	1454.4	1370.9
18°	2541.9	2161.8	1632.3	1377.5	1296.2
19°	2524.3	2109.1	1568.6	1307.2	1232.5
20°	2508.9	2060.8	1496.1	1241.3	1175.4
21°	2491.4	2001.4	1423.6	1179.8	1113.9
22.5°	2465.0	1918.0	1331.4	1102.9	1041.4
23°	2451.8	1893.8	1294.0	1074.3	1021.6
24°	2434.2	1830.1	1232.5	1030.4	977.6
25°	2407.9	1779.5	1179.8	990.8	949.1
26°	2383.7	1718.0	1127.0	955.7	913.9
27°	2359.5	1658.7	1080.9	918.3	883.2
28°	2328.8	1597.2	1030.4	887.6	856.8
29°	2295.8	1540.1	988.6	861.2	837.0
30°	2262.9	1476.4	953.5	837.0	817.3
32.5°	2170.6	1335.8	863.4	790.9	777.7
35°	2060.8	1203.9	799.7	749.2	744.8
37.5°	1937.7	1083.1	742.6	716.2	720.6
40°	1792.7	973.3	694.2	692.0	700.8
42.5°	1638.9	878.8	656.9	672.3	685.5
45°	1480.8	793.1	619.5	652.5	670.1
47.5°	1316.0	718.4	586.6	628.3	648.1
50°	1149.0	645.9	551.4	599.8	619.5
52.5°	999.6	582.2	516.3	566.8	588.8
55°	850.2	520.7	478.9	531.7	549.2
57.5°	720.6	463.6	439.4	492.1	505.3
60°	599.8	408.6	399.8	448.2	463.6
62.5°	489.9	360.3	362.5	408.6	424.0
65°	399.8	314.2	329.5	371.3	384.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	325.2	270.2	296.6	340.5	351.5
70°	257.0	230.7	270.2	309.8	320.8
72.5°	204.3	195.5	243.9	285.6	294.4
75°	156.0	162.6	221.9	261.4	272.4
77.5°	112.0	136.2	199.9	241.7	250.5
80°	79.1	112.0	182.3	224.1	232.9
82.5°	50.5	92.3	164.8	208.7	217.5
85°	26.4	74.7	149.4	193.3	202.1
87.5°	11.0	61.5	134.0	178.0	186.7
90°	0.0	50.5	120.8	164.8	171.4
92.5°	0.0	43.9	109.8	151.6	158.2
95°	0.0	37.3	101.1	138.4	145.0
97.5°	0.0	35.2	90.1	127.4	134.0
100°	0.0	30.8	81.3	116.4	125.2
102.5°	0.0	28.6	74.7	105.5	114.2
105°	0.0	26.4	68.1	96.7	105.5
107.5°	0.0	24.2	63.7	90.1	96.7
110°	0.0	24.2	57.1	83.5	90.1
112.5°	2.2	22.0	52.7	74.7	81.3
115°	2.2	22.0	48.3	70.3	74.7
117.5°	2.2	22.0	46.1	63.7	68.1
120°	2.2	19.8	43.9	59.3	63.7
122.5°	2.2	19.8	41.7	54.9	57.1
125°	2.2	17.6	39.5	50.5	54.9
127.5°	2.2	17.6	37.3	48.3	50.5
130°	2.2	17.6	35.2	43.9	48.3
132.5°	2.2	15.4	33.0	41.7	43.9
135°	2.2	15.4	30.8	39.5	41.7
137.5°	2.2	13.2	28.6	37.3	39.5
140°	2.2	13.2	26.4	35.2	37.3
142.5°	2.2	11.0	24.2	33.0	35.2
145°	2.2	11.0	22.0	30.8	33.0
147.5°	2.2	11.0	19.8	28.6	30.8
150°	2.2	8.8	17.6	26.4	28.6
152.5°	2.2	8.8	15.4	24.2	26.4
155°	2.2	8.8	15.4	22.0	24.2
157.5°	2.2	6.6	13.2	17.6	22.0
160°	2.2	6.6	11.0	15.4	19.8
162.5°	2.2	6.6	11.0	13.2	15.4
165°	2.2	4.4	8.8	11.0	13.2
167.5°	2.2	4.4	6.6	8.8	11.0
170°	2.2	4.4	6.6	6.6	8.8
172.5°	2.2	4.4	4.4	4.4	4.4
175°	4.4	4.4	4.4	4.4	2.2
177.5°	4.4	4.4	4.4	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)