

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: P567595

Luminaire Tested: **8SNX-180HL-LC-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-180HL-LC-UNV-L835-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

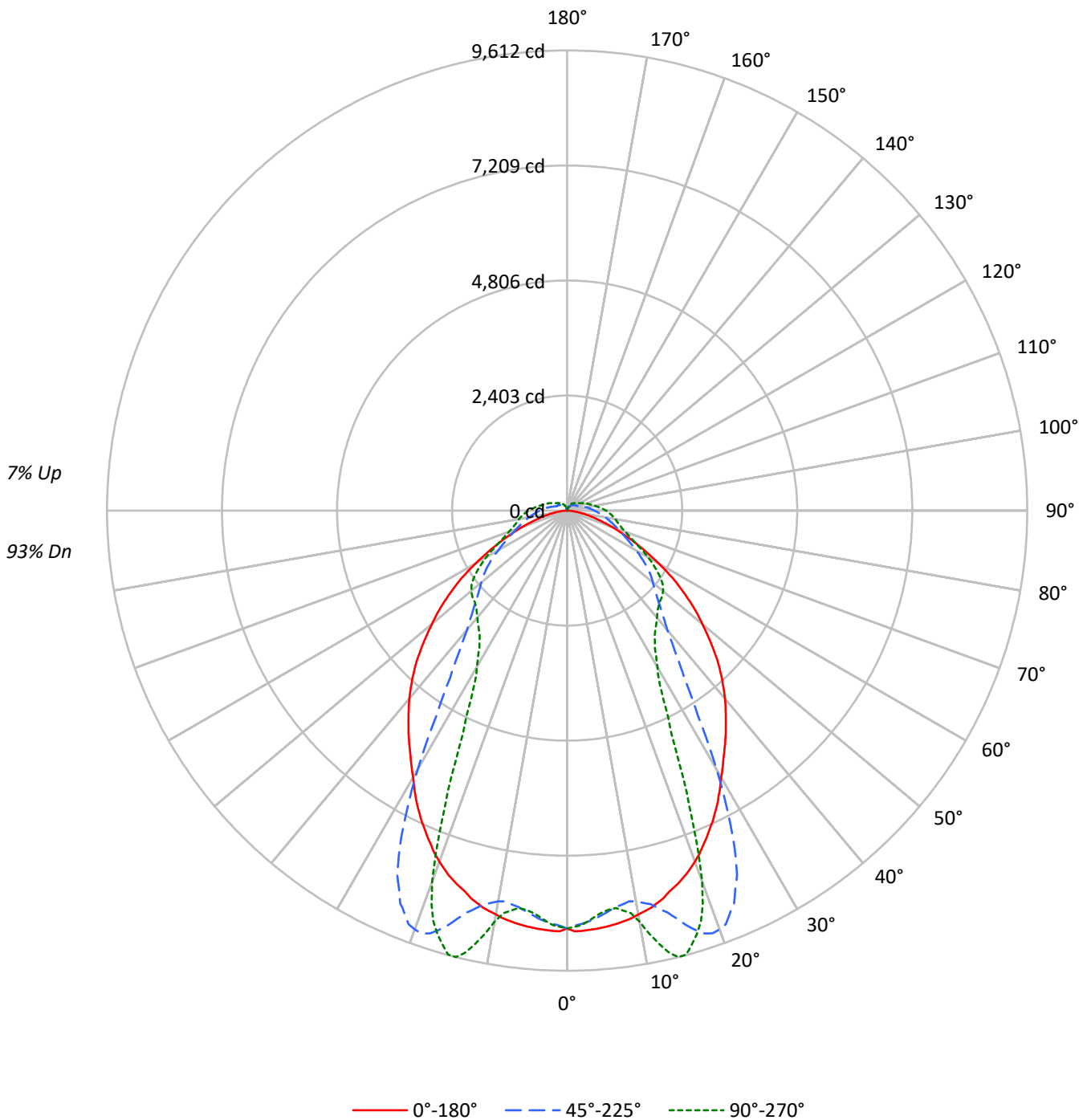
Lumens per Lamp: N/A
Luminaire Lumens: 19401.0 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 128.8
Input Voltage (V): NR
Input Current (Ain): 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	89	89	87	85	85	83	81	78				
2	99	91	84	79	95	88	83	78	84	79	75	80	76	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	68	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	58	51	45	56	49	44	54	48	43	52	46	42	40				
7	67	55	46	41	65	54	46	40	51	45	40	49	43	39	48	42	38	36				
8	63	50	42	37	61	49	42	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	39	34	57	46	38	33	44	37	33	42	36	32	41	36	32	30				
10	56	43	36	31	54	42	35	30	41	34	30	40	34	30	38	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46982	46982	46982
5°	47123	43902	43005
10°	46645	41733	42645
15°	45645	43457	45398
20°	44350	45306	37995
25°	42211	40653	23362
30°	39526	30286	16908
35°	37347	20908	14263
40°	35405	16230	13145
45°	33128	13820	12431
50°	30130	12406	12204
55°	26964	11221	11291
60°	22865	9711	9766
65°	18596	8459	8151
70°	14594	7604	7177
75°	11316	7070	6693
80°	7964	6695	6625
85°	4434	6388	6578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.3	4.2
10°-20°	2482.1	12.8
20°-30°	3342.2	17.2
30°-40°	3163.0	16.3
40°-50°	2791.8	14.4
50°-60°	2267.6	11.7
60°-70°	1542.2	7.9
70°-80°	992.3	5.1
80°-90°	659.8	3.4
90°-100°	453.5	2.3
100°-110°	304.4	1.6
110°-120°	214.7	1.1
120°-130°	153.4	0.8
130°-140°	108.2	0.6
140°-150°	67.2	0.3
150°-160°	32.8	0.2
160°-170°	11.5	0.1
170°-180°	2.0	0.0
0°-30°	6636.6	34.2
0°-40°	9799.6	50.5
0°-60°	14859.0	76.6
0°-90°	18053.4	93.1
90°-120°	972.6	5.0
90°-150°	1301.4	6.7
90°-180°	1348.0	6.9
0°-180°	19401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8730	8730	8730	8730	8730	
5°	8738	8658	8472	8466	8424	829
15°	8238	8184	8815	9594	9603	2322
25°	7177	8510	8398	6099	5157	3294
35°	5767	8093	4266	3285	3184	3609
45°	4443	5444	2698	2666	2722	3411
55°	2959	3220	2026	2263	2349	2643
65°	1526	1736	1357	1508	1555	1532
75°	586	820	957	1072	1123	638
85°	89	350	678	859	918	116
90°	3	243	566	761	812	5
95°	3	187	477	646	690	2
105°	6	130	314	441	495	6
115°	6	113	231	329	370	7
125°	9	95	198	249	267	8
135°	12	74	163	207	219	9
145°	12	53	116	160	175	8
155°	15	33	71	107	121	7
165°	15	21	38	53	65	4
175°	18	18	18	18	15	2
180°	15	15	15	15	15	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8729.5	8729.5	8729.5	8729.5	8729.5
1°	8788.7	8762.1	8673.2	8720.6	8696.9
2°	8785.8	8741.3	8640.6	8693.9	8664.3
3°	8771.0	8723.6	8593.2	8625.8	8581.4
4°	8756.2	8699.9	8542.9	8542.9	8492.5
5°	8738.4	8658.4	8471.8	8465.9	8424.4
6°	8717.6	8625.8	8409.6	8403.7	8380.0
7°	8688.0	8569.5	8341.5	8382.9	8365.1
8°	8652.5	8516.2	8305.9	8409.6	8436.2
9°	8619.9	8451.1	8264.4	8492.5	8513.3
10°	8566.6	8391.8	8291.1	8658.4	8720.6
11°	8522.1	8341.5	8350.3	8821.3	9007.9
12°	8477.7	8288.1	8406.6	9025.7	9253.8
13°	8403.7	8246.7	8531.0	9247.9	9481.9
14°	8338.5	8214.1	8652.5	9473.0	9612.2
15°	8237.8	8184.5	8815.4	9594.4	9603.3
16°	8169.6	8163.7	9005.0	9603.3	9437.5
17°	8092.6	8154.8	9159.0	9449.3	9253.8
18°	8006.7	8172.6	9286.4	9256.8	9031.6
19°	7909.0	8190.4	9339.7	8990.2	8699.9
20°	7802.3	8217.0	9310.1	8711.7	8243.7
21°	7695.7	8252.6	9253.8	8418.5	7645.3
22.5°	7497.2	8338.5	8987.2	7595.0	6656.0
23°	7441.0	8356.3	8925.0	7337.3	6398.3
24°	7301.7	8430.3	8640.6	6736.0	5717.0
25°	7177.3	8510.3	8397.7	6099.1	5157.1
26°	7038.1	8569.5	8030.4	5512.6	4813.5
27°	6901.8	8605.1	7612.8	5056.4	4428.4
28°	6744.8	8643.6	7159.5	4662.4	4138.1
29°	6596.7	8649.5	6712.3	4348.5	3910.1
30°	6436.8	8619.9	6241.3	4096.7	3767.9
32.5°	6087.2	8457.0	5089.0	3616.8	3412.4
35°	5767.3	8092.6	4265.5	3285.0	3184.3
37.5°	5444.5	7518.0	3687.9	3077.7	3045.1
40°	5127.5	6836.7	3252.5	2911.8	2917.7
42.5°	4792.8	6134.6	2953.3	2775.5	2802.2
45°	4443.2	5444.5	2698.5	2665.9	2722.2
47.5°	4055.2	4813.5	2497.1	2594.9	2680.8
50°	3687.9	4188.5	2340.1	2526.7	2615.6
52.5°	3338.4	3676.0	2197.9	2411.2	2514.9
55°	2959.2	3219.9	2026.1	2263.1	2349.0
57.5°	2597.8	2808.1	1845.4	2079.4	2156.5
60°	2200.9	2402.3	1661.8	1881.0	1955.0
62.5°	1842.5	2055.7	1504.8	1682.5	1741.8
65°	1525.5	1735.8	1356.7	1507.7	1555.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1244.1	1469.2	1235.2	1362.6	1407.0
70°	980.5	1217.4	1128.6	1244.1	1291.5
72.5°	767.2	1007.1	1039.7	1146.4	1193.8
75°	586.5	820.5	956.8	1072.3	1122.7
77.5°	435.4	669.4	879.8	1013.1	1066.4
80°	287.3	533.2	811.6	959.7	1021.9
82.5°	180.7	429.5	743.5	906.4	971.6
85°	88.9	349.5	678.3	859.0	918.3
87.5°	29.6	290.3	619.1	811.6	862.0
90°	3.0	242.9	565.8	761.3	811.6
92.5°	3.0	210.3	521.3	702.0	752.4
95°	3.0	186.6	476.9	645.8	690.2
97.5°	3.0	168.8	435.4	586.5	633.9
100°	3.0	151.1	391.0	530.2	580.6
102.5°	5.9	139.2	352.5	482.8	536.2
105°	5.9	130.3	314.0	441.4	494.7
107.5°	5.9	124.4	281.4	408.8	459.1
110°	5.9	118.5	257.7	379.2	432.5
112.5°	5.9	115.5	242.9	352.5	402.9
115°	5.9	112.6	231.0	328.8	370.3
117.5°	8.9	109.6	222.2	305.1	337.7
120°	8.9	103.7	216.2	284.4	311.0
122.5°	8.9	97.8	207.4	266.6	287.3
125°	8.9	94.8	198.5	248.8	266.6
127.5°	8.9	88.9	189.6	234.0	251.8
130°	11.8	82.9	180.7	222.2	237.0
132.5°	11.8	77.0	171.8	216.2	228.1
135°	11.8	74.1	162.9	207.4	219.2
137.5°	11.8	68.1	154.0	198.5	210.3
140°	11.8	62.2	142.2	186.6	198.5
142.5°	11.8	59.2	130.3	174.8	186.6
145°	11.8	53.3	115.5	160.0	174.8
147.5°	14.8	50.4	103.7	148.1	160.0
150°	14.8	44.4	91.8	136.3	148.1
152.5°	14.8	38.5	80.0	121.4	133.3
155°	14.8	32.6	71.1	106.6	121.4
157.5°	14.8	29.6	62.2	88.9	106.6
160°	14.8	26.7	53.3	77.0	91.8
162.5°	14.8	23.7	47.4	65.2	80.0
165°	14.8	20.7	38.5	53.3	65.2
167.5°	17.8	20.7	32.6	41.5	53.3
170°	17.8	20.7	26.7	32.6	41.5
172.5°	17.8	17.8	20.7	23.7	26.7
175°	17.8	17.8	17.8	17.8	14.8
177.5°	17.8	17.8	17.8	14.8	14.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	14.8	14.8	14.8	14.8	14.8

(END OF REPORT)