

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: P567599

Luminaire Tested: **8SNX-180HL-LC-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567599
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-L935-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

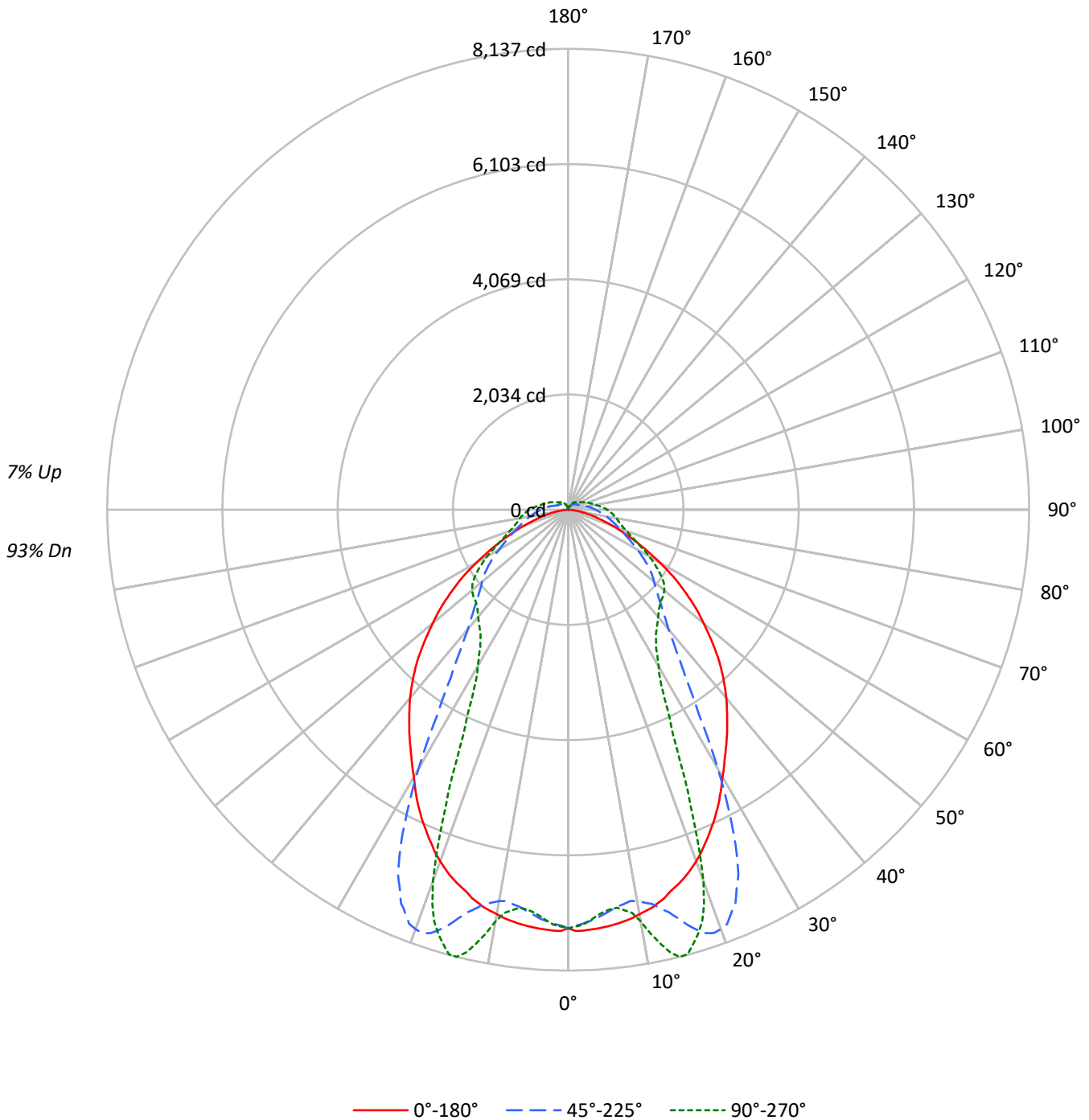
Lumens per Lamp: N/A
Luminaire Lumens: 16424.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

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°	39773	39773	39773
5°	39892	37165	36406
10°	39488	35330	36101
15°	38640	36789	38432
20°	37545	38354	32165
25°	35734	34415	19777
30°	33461	25639	14313
35°	31617	17700	12075
40°	29972	13740	11128
45°	28045	11700	10524
50°	25507	10502	10331
55°	22827	9499	9559
60°	19357	8221	8268
65°	15742	7161	6900
70°	12354	6437	6076
75°	9580	5985	5666
80°	6741	5668	5608
85°	3751	5408	5569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.6	4.2
10°-20°	2101.2	12.8
20°-30°	2829.3	17.2
30°-40°	2677.7	16.3
40°-50°	2363.4	14.4
50°-60°	1919.6	11.7
60°-70°	1305.6	7.9
70°-80°	840.1	5.1
80°-90°	558.6	3.4
90°-100°	383.9	2.3
100°-110°	257.7	1.6
110°-120°	181.8	1.1
120°-130°	129.8	0.8
130°-140°	91.6	0.6
140°-150°	56.9	0.3
150°-160°	27.7	0.2
160°-170°	9.7	0.1
170°-180°	1.7	0.0
0°-30°	5618.2	34.2
0°-40°	8295.9	50.5
0°-60°	12579.0	76.6
0°-90°	15283.2	93.1
90°-120°	823.3	5.0
90°-150°	1101.7	6.7
90°-180°	1141.0	6.9
0°-180°	16424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7390	7390	7390	7390	7390	
5°	7398	7330	7172	7167	7132	702
15°	6974	6929	7463	8122	8130	1966
25°	6076	7204	7109	5163	4366	2788
35°	4882	6851	3611	2781	2696	3055
45°	3761	4609	2284	2257	2304	2888
55°	2505	2726	1715	1916	1989	2237
65°	1291	1470	1148	1276	1316	1297
75°	496	695	810	908	950	540
85°	75	296	574	727	777	98
90°	2	206	479	644	687	4
95°	2	158	404	547	584	2
105°	5	110	266	374	419	5
115°	5	95	196	278	314	6
125°	8	80	168	211	226	7
135°	10	63	138	176	186	8
145°	10	45	98	135	148	7
155°	12	28	60	90	103	6
165°	12	18	33	45	55	4
175°	15	15	15	15	12	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7390.0	7390.0	7390.0	7390.0	7390.0
1°	7440.1	7417.6	7342.3	7382.5	7362.4
2°	7437.6	7400.0	7314.8	7359.9	7334.8
3°	7425.1	7385.0	7274.6	7302.2	7264.6
4°	7412.6	7364.9	7232.0	7232.0	7189.4
5°	7397.5	7329.8	7171.8	7166.8	7131.7
6°	7380.0	7302.2	7119.2	7114.2	7094.1
7°	7354.9	7254.6	7061.5	7096.6	7081.6
8°	7324.8	7209.4	7031.4	7119.2	7141.7
9°	7297.2	7154.3	6996.3	7189.4	7206.9
10°	7252.1	7104.1	7018.9	7329.8	7382.5
11°	7214.5	7061.5	7069.0	7467.7	7625.7
12°	7176.8	7016.4	7116.7	7640.8	7833.8
13°	7114.2	6981.2	7222.0	7828.8	8026.9
14°	7059.0	6953.7	7324.8	8019.4	8137.3
15°	6973.7	6928.6	7462.7	8122.2	8129.7
16°	6916.0	6911.0	7623.2	8129.7	7989.3
17°	6850.9	6903.5	7753.6	7999.3	7833.8
18°	6778.1	6918.6	7861.4	7836.3	7645.8
19°	6695.4	6933.6	7906.6	7610.7	7364.9
20°	6605.1	6956.2	7881.5	7374.9	6978.7
21°	6514.8	6986.3	7833.8	7126.7	6472.2
22.5°	6346.8	7059.0	7608.2	6429.6	5634.6
23°	6299.2	7074.0	7555.5	6211.4	5416.5
24°	6181.3	7136.7	7314.8	5702.4	4839.7
25°	6076.0	7204.4	7109.1	5163.2	4365.8
26°	5958.1	7254.6	6798.2	4666.7	4074.9
27°	5842.8	7284.7	6444.6	4280.5	3748.9
28°	5709.9	7317.3	6060.9	3947.0	3503.2
29°	5584.5	7322.3	5682.3	3681.2	3310.1
30°	5449.1	7297.2	5283.6	3468.1	3189.7
32.5°	5153.2	7159.3	4308.1	3061.8	2888.8
35°	4882.4	6850.9	3611.0	2781.0	2695.7
37.5°	4609.0	6364.4	3122.0	2605.4	2577.8
40°	4340.7	5787.6	2753.4	2465.0	2470.0
42.5°	4057.3	5193.3	2500.1	2349.7	2372.2
45°	3761.4	4609.0	2284.5	2256.9	2304.5
47.5°	3432.9	4074.9	2113.9	2196.7	2269.4
50°	3122.0	3545.8	1981.0	2139.0	2214.2
52.5°	2826.1	3112.0	1860.7	2041.2	2129.0
55°	2505.1	2725.8	1715.2	1915.8	1988.6
57.5°	2199.2	2377.2	1562.3	1760.4	1825.6
60°	1863.2	2033.7	1406.8	1592.3	1655.0
62.5°	1559.7	1740.3	1273.9	1424.3	1474.5
65°	1291.4	1469.5	1148.5	1276.4	1316.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1053.2	1243.8	1045.7	1153.5	1191.1
70°	830.0	1030.6	955.4	1053.2	1093.3
72.5°	649.5	852.6	880.2	970.5	1010.6
75°	496.5	694.6	810.0	907.8	950.4
77.5°	368.6	566.7	744.8	857.6	902.7
80°	243.2	451.4	687.1	812.5	865.1
82.5°	153.0	363.6	629.4	767.3	822.5
85°	75.2	295.9	574.2	727.2	777.4
87.5°	25.1	245.7	524.1	687.1	729.7
90°	2.5	205.6	479.0	644.5	687.1
92.5°	2.5	178.0	441.3	594.3	636.9
95°	2.5	158.0	403.7	546.7	584.3
97.5°	2.5	142.9	368.6	496.5	536.6
100°	2.5	127.9	331.0	448.9	491.5
102.5°	5.0	117.9	298.4	408.7	453.9
105°	5.0	110.3	265.8	373.6	418.8
107.5°	5.0	105.3	238.2	346.1	388.7
110°	5.0	100.3	218.2	321.0	366.1
112.5°	5.0	97.8	205.6	298.4	341.0
115°	5.0	95.3	195.6	278.3	313.5
117.5°	7.5	92.8	188.1	258.3	285.9
120°	7.5	87.8	183.1	240.7	263.3
122.5°	7.5	82.8	175.5	225.7	243.2
125°	7.5	80.2	168.0	210.6	225.7
127.5°	7.5	75.2	160.5	198.1	213.1
130°	10.0	70.2	153.0	188.1	200.6
132.5°	10.0	65.2	145.4	183.1	193.1
135°	10.0	62.7	137.9	175.5	185.6
137.5°	10.0	57.7	130.4	168.0	178.0
140°	10.0	52.7	120.4	158.0	168.0
142.5°	10.0	50.2	110.3	148.0	158.0
145°	10.0	45.1	97.8	135.4	148.0
147.5°	12.5	42.6	87.8	125.4	135.4
150°	12.5	37.6	77.7	115.4	125.4
152.5°	12.5	32.6	67.7	102.8	112.8
155°	12.5	27.6	60.2	90.3	102.8
157.5°	12.5	25.1	52.7	75.2	90.3
160°	12.5	22.6	45.1	65.2	77.7
162.5°	12.5	20.1	40.1	55.2	67.7
165°	12.5	17.6	32.6	45.1	55.2
167.5°	15.0	17.6	27.6	35.1	45.1
170°	15.0	17.6	22.6	27.6	35.1
172.5°	15.0	15.0	17.6	20.1	22.6
175°	15.0	15.0	15.0	15.0	12.5
177.5°	15.0	15.0	15.0	12.5	12.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	12.5	12.5	12.5	12.5	12.5

(END OF REPORT)