

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: P567609

Luminaire Tested: **8SNX-180HL-LN-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-180HL-LN-UNV-L950-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

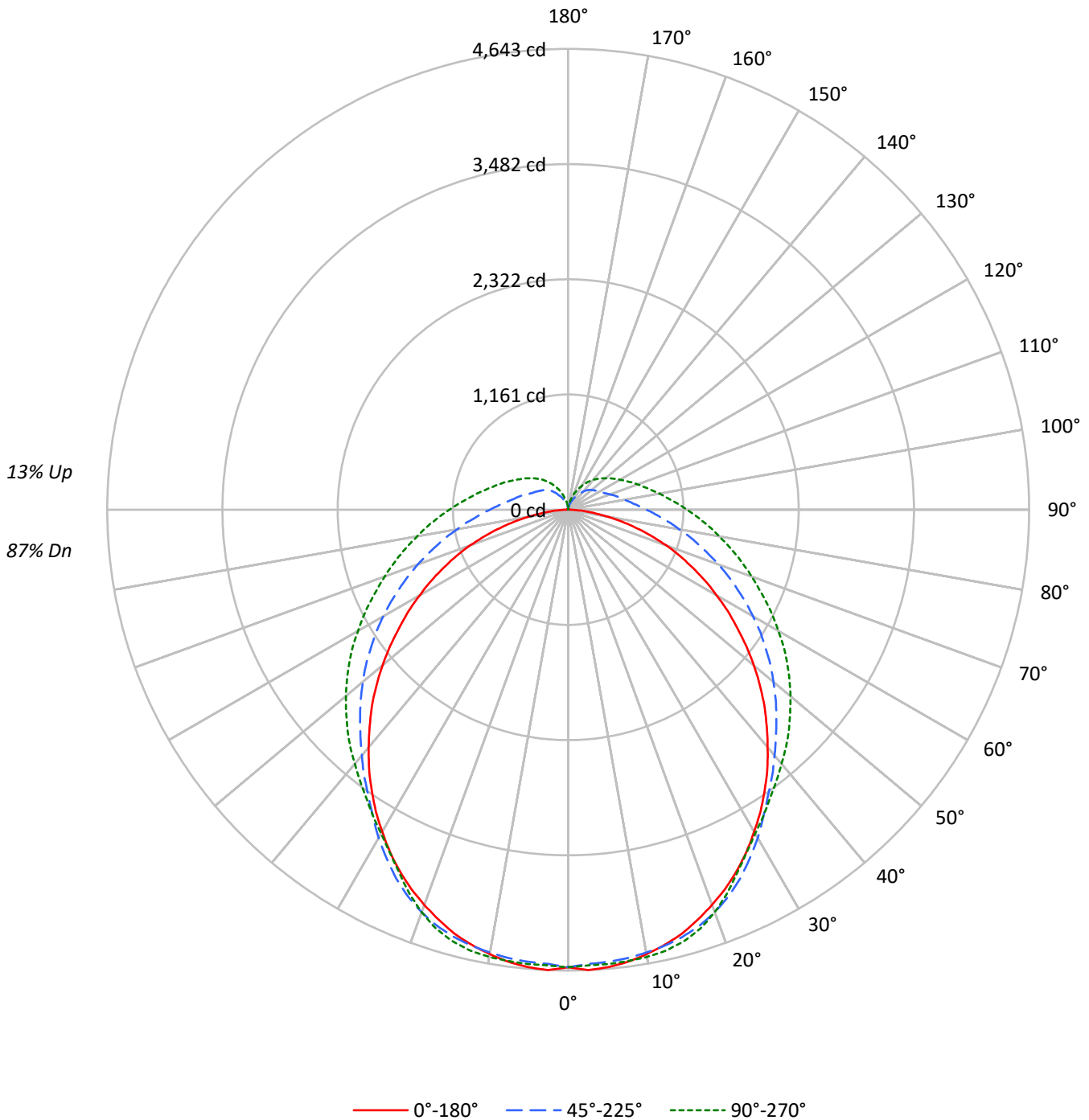
Lumens per Lamp: N/A
Luminaire Lumens: 16639.0 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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	0
RCR																		
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24807	24807	24807
5°	24948	23696	23457
10°	24760	22803	22375
15°	24508	21958	21283
20°	24084	21002	19892
25°	23624	19842	18261
30°	23004	18534	16899
35°	22340	17201	15882
40°	21581	16131	15060
45°	20843	15184	14351
50°	19958	14312	13635
55°	18918	13435	12935
60°	17936	12561	12203
65°	16849	11678	11532
70°	15619	10852	10926
75°	13660	10046	10426
80°	11104	9355	10003
85°	8020	8874	9760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.9	2.6
10°-20°	1258.9	7.6
20°-30°	1874.7	11.3
30°-40°	2212.0	13.3
40°-50°	2306.9	13.9
50°-60°	2167.9	13.0
60°-70°	1830.8	11.0
70°-80°	1383.3	8.3
80°-90°	953.6	5.7
90°-100°	667.3	4.0
100°-110°	497.9	3.0
110°-120°	375.4	2.3
120°-130°	280.0	1.7
130°-140°	196.5	1.2
140°-150°	118.8	0.7
150°-160°	56.8	0.3
160°-170°	18.2	0.1
170°-180°	2.2	0.0
0°-30°	3571.5	21.5
0°-40°	5783.5	34.8
0°-60°	10258.3	61.7
0°-90°	14425.9	86.7
90°-120°	1540.6	9.3
90°-150°	2135.9	12.8
90°-180°	2213.0	13.3
0°-180°	16639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4609	4609	4609	4609	4609	
5°	4626	4618	4573	4606	4595	439
15°	4423	4443	4454	4511	4502	1246
25°	4017	4099	4099	4062	4031	1848
35°	3450	3577	3509	3537	3546	2157
45°	2796	2934	2965	3086	3142	2153
55°	2076	2254	2426	2621	2691	1863
65°	1382	1602	1873	2118	2200	1373
75°	708	982	1360	1645	1749	754
85°	161	505	942	1252	1362	180
90°	3	358	787	1089	1196	11
95°	3	279	666	954	1052	2
105°	6	200	513	745	829	6
115°	6	172	398	592	668	6
125°	8	147	336	485	547	8
135°	8	113	279	395	443	7
145°	11	82	195	302	338	6
155°	11	54	118	192	223	5
165°	14	34	62	85	113	4
175°	14	14	17	17	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4609.3	4609.3	4609.3	4609.3	4609.3
2.5°	4643.2	4631.9	4581.1	4609.3	4595.2
5°	4626.2	4617.8	4572.6	4606.5	4595.2
7.5°	4595.2	4592.4	4558.5	4598.0	4586.7
10°	4547.3	4555.7	4530.3	4583.9	4575.5
12.5°	4490.8	4507.8	4499.3	4558.5	4550.1
15°	4423.1	4442.9	4454.2	4510.6	4502.1
17.5°	4332.9	4369.5	4394.9	4440.1	4426.0
20°	4237.0	4287.7	4315.9	4338.5	4315.9
22.5°	4132.6	4200.3	4217.2	4205.9	4183.4
25°	4016.9	4098.7	4098.7	4062.1	4031.0
27.5°	3887.2	3988.7	3960.5	3918.2	3892.8
30°	3746.1	3867.4	3819.5	3771.5	3765.9
32.5°	3605.1	3732.0	3661.5	3650.2	3658.7
35°	3449.9	3576.9	3509.2	3537.4	3545.8
37.5°	3294.8	3421.7	3376.6	3418.9	3444.3
40°	3125.5	3260.9	3232.7	3308.9	3342.7
42.5°	2959.1	3100.1	3097.3	3196.1	3246.8
45°	2795.5	2933.7	2964.7	3086.0	3142.5
47.5°	2617.8	2758.8	2835.0	2976.0	3032.4
50°	2442.9	2595.2	2699.6	2857.5	2922.4
52.5°	2262.3	2423.1	2567.0	2741.9	2809.6
55°	2076.2	2253.9	2426.0	2620.6	2691.1
57.5°	1909.7	2090.3	2293.4	2493.7	2575.5
60°	1726.4	1926.7	2149.5	2361.1	2442.9
62.5°	1559.9	1765.9	2014.1	2237.0	2324.4
65°	1382.2	1602.3	1873.1	2118.5	2200.3
67.5°	1218.6	1444.3	1740.5	1988.7	2079.0
70°	1049.4	1289.1	1610.7	1873.1	1966.2
72.5°	874.5	1128.4	1481.0	1760.2	1856.1
75°	708.0	981.7	1359.7	1644.6	1748.9
77.5°	552.9	840.6	1249.6	1543.0	1644.6
80°	400.6	713.7	1134.0	1438.6	1543.0
82.5°	265.2	603.7	1040.9	1345.6	1455.6
85°	160.8	504.9	942.2	1252.5	1362.5
87.5°	73.3	423.1	863.2	1170.7	1277.9
90°	2.8	358.3	787.0	1088.9	1196.1
92.5°	2.8	313.1	725.0	1018.3	1122.7
95°	2.8	279.3	665.7	953.5	1052.2
97.5°	2.8	256.7	620.6	891.4	987.3
100°	2.8	234.1	575.5	835.0	933.7
102.5°	5.6	214.4	541.6	784.2	877.3
105°	5.6	200.3	513.4	744.7	829.3
107.5°	5.6	191.8	482.4	705.2	784.2
110°	5.6	183.4	448.5	665.7	744.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.6	177.7	423.1	631.9	708.0
115°	5.6	172.1	397.7	592.4	668.5
117.5°	5.6	169.3	383.6	561.4	634.7
120°	8.5	160.8	366.7	533.1	603.7
122.5°	8.5	152.3	349.8	510.6	572.6
125°	8.5	146.7	335.7	485.2	547.3
127.5°	8.5	138.2	321.6	462.6	519.0
130°	8.5	129.8	310.3	440.1	493.7
132.5°	8.5	121.3	296.2	417.5	468.3
135°	8.5	112.8	279.3	394.9	442.9
137.5°	8.5	104.4	262.3	372.4	417.5
140°	8.5	95.9	239.8	349.8	392.1
142.5°	8.5	87.4	217.2	327.2	363.9
145°	11.3	81.8	194.6	301.8	338.5
147.5°	11.3	73.3	172.1	276.4	307.5
150°	11.3	67.7	155.1	251.1	279.3
152.5°	11.3	59.2	138.2	222.8	251.1
155°	11.3	53.6	118.5	191.8	222.8
157.5°	11.3	48.0	101.6	160.8	194.6
160°	11.3	45.1	87.4	132.6	166.4
162.5°	14.1	39.5	73.3	107.2	138.2
165°	14.1	33.9	62.1	84.6	112.8
167.5°	14.1	28.2	50.8	64.9	87.4
170°	14.1	22.6	39.5	45.1	67.7
172.5°	14.1	16.9	28.2	31.0	33.9
175°	14.1	14.1	16.9	16.9	8.5
177.5°	14.1	14.1	11.3	8.5	2.8
180°	8.5	8.5	8.5	8.5	8.5

(END OF REPORT)