

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: P567660

Luminaire Tested: **8SNX-186HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-186HL-LW-UNV-L840-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

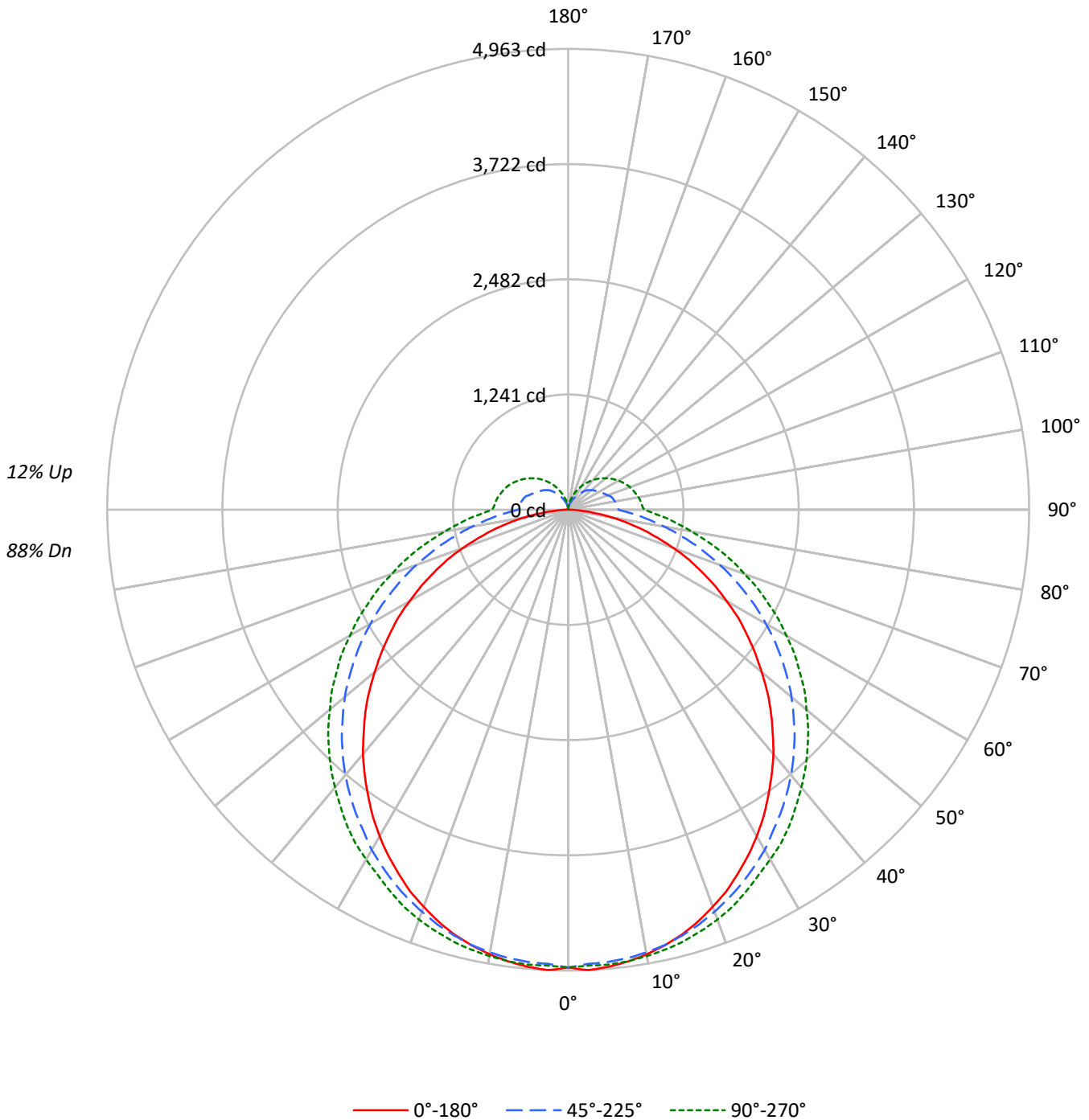
Lumens per Lamp: N/A
Luminaire Lumens: 17748.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 134.8
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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26531	26531	26531
5°	26650	25342	25103
10°	26478	24370	23869
15°	26237	23403	22744
20°	25862	22421	21656
25°	25418	21466	20542
30°	24934	20530	19516
35°	24326	19545	18596
40°	23735	18624	17596
45°	23023	17651	16642
50°	22199	16644	15627
55°	21408	15536	14623
60°	20492	14368	13543
65°	19376	13094	12425
70°	17959	11713	11215
75°	15950	10195	10056
80°	13141	8675	8728
85°	9097	7213	7620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.0	2.6
10°-20°	1346.2	7.6
20°-30°	2048.0	11.5
30°-40°	2490.2	14.0
40°-50°	2634.5	14.8
50°-60°	2469.5	13.9
60°-70°	2031.6	11.4
70°-80°	1405.7	7.9
80°-90°	781.7	4.4
90°-100°	514.9	2.9
100°-110°	461.8	2.6
110°-120°	382.2	2.2
120°-130°	295.5	1.7
130°-140°	209.2	1.2
140°-150°	126.2	0.7
150°-160°	60.6	0.3
160°-170°	19.8	0.1
170°-180°	2.4	0.0
0°-30°	3862.2	21.8
0°-40°	6352.4	35.8
0°-60°	11456.5	64.6
0°-90°	15675.4	88.3
90°-120°	1358.9	7.7
90°-150°	1989.7	11.2
90°-180°	2073.0	11.7
0°-180°	17748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4930	4930	4930	4930	4930	
5°	4942	4933	4890	4930	4918	469
15°	4735	4750	4747	4811	4811	1335
25°	4322	4383	4434	4532	4535	1992
35°	3756	3857	3988	4115	4152	2351
45°	3088	3249	3446	3602	3644	2380
55°	2349	2559	2805	2982	3042	2103
65°	1590	1818	2100	2307	2371	1576
75°	827	1067	1380	1599	1687	877
85°	182	453	766	979	1064	210
90°	3	255	541	745	818	12
95°	3	243	526	720	790	2
105°	3	210	492	678	738	3
115°	6	182	416	602	669	5
125°	6	155	356	514	578	5
135°	6	122	298	422	474	5
145°	6	88	207	319	359	4
155°	9	61	128	204	237	4
165°	9	40	70	94	122	3
175°	9	15	21	21	12	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4929.7	4929.7	4929.7	4929.7	4929.7
2.5°	4963.1	4947.9	4896.3	4929.7	4914.5
5°	4941.9	4932.7	4890.2	4929.7	4917.6
7.5°	4908.4	4905.4	4872.0	4917.6	4905.4
10°	4862.8	4868.9	4841.6	4890.2	4881.1
12.5°	4805.1	4814.2	4802.1	4856.8	4850.7
15°	4735.2	4750.4	4747.4	4811.2	4811.2
17.5°	4650.1	4671.4	4683.5	4756.5	4756.5
20°	4549.8	4583.2	4607.5	4686.6	4698.7
22.5°	4449.5	4489.0	4525.5	4607.5	4625.8
25°	4321.9	4382.6	4434.3	4531.6	4534.6
27.5°	4197.2	4264.1	4334.0	4428.2	4437.3
30°	4060.5	4145.6	4230.7	4321.9	4349.2
32.5°	3914.6	4008.8	4103.0	4224.6	4261.1
35°	3756.5	3856.8	3987.5	4115.2	4151.7
37.5°	3598.5	3711.0	3862.9	3993.6	4027.0
40°	3437.4	3562.0	3732.2	3866.0	3905.5
42.5°	3258.1	3410.1	3592.4	3735.3	3780.9
45°	3087.9	3249.0	3446.5	3601.5	3644.1
47.5°	2908.6	3078.8	3291.5	3455.7	3504.3
50°	2717.1	2911.6	3139.6	3303.7	3349.3
52.5°	2537.8	2735.3	2975.5	3145.7	3209.5
55°	2349.4	2559.1	2805.3	2981.5	3042.3
57.5°	2173.1	2373.7	2638.1	2814.4	2890.4
60°	1972.5	2194.4	2458.8	2650.3	2711.0
62.5°	1784.1	2009.0	2282.5	2480.1	2550.0
65°	1589.5	1817.5	2100.1	2306.8	2370.6
67.5°	1407.2	1632.1	1920.8	2124.5	2206.5
70°	1206.6	1443.7	1738.5	1948.2	2018.1
72.5°	1009.0	1255.2	1556.1	1781.0	1860.0
75°	826.7	1066.8	1379.8	1598.7	1686.8
77.5°	650.4	893.5	1209.6	1434.5	1510.5
80°	474.1	729.4	1051.6	1273.5	1346.4
82.5°	313.0	580.5	899.6	1121.5	1200.5
85°	182.4	452.9	765.9	978.6	1063.7
87.5°	79.0	343.4	641.3	851.0	920.9
90°	3.0	255.3	541.0	744.6	817.6
92.5°	3.0	249.2	528.8	729.4	799.3
95°	3.0	243.1	525.8	720.3	790.2
97.5°	3.0	240.1	519.7	714.2	781.1
100°	3.0	231.0	510.6	702.1	768.9
102.5°	3.0	218.8	501.5	689.9	753.7
105°	3.0	209.7	492.4	677.8	738.5
107.5°	3.0	200.6	477.2	662.6	723.3
110°	3.0	191.5	452.9	647.4	708.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	188.4	434.6	626.1	689.9
115°	6.1	182.4	416.4	601.8	668.6
117.5°	6.1	179.3	401.2	577.5	647.4
120°	6.1	170.2	386.0	556.2	623.1
122.5°	6.1	161.1	370.8	534.9	601.8
125°	6.1	155.0	355.6	513.6	577.5
127.5°	6.1	145.9	343.4	492.4	550.1
130°	6.1	139.8	328.2	468.0	525.8
132.5°	6.1	130.7	313.0	443.7	498.4
135°	6.1	121.6	297.8	422.5	474.1
137.5°	6.1	109.4	279.6	398.1	446.8
140°	6.1	100.3	255.3	373.8	419.4
142.5°	6.1	94.2	231.0	346.5	389.0
145°	6.1	88.1	206.7	319.1	358.6
147.5°	6.1	82.1	185.4	291.8	328.2
150°	6.1	72.9	164.1	267.5	297.8
152.5°	9.1	66.9	145.9	237.1	267.5
155°	9.1	60.8	127.6	203.6	237.1
157.5°	9.1	54.7	109.4	170.2	206.7
160°	9.1	48.6	94.2	139.8	176.3
162.5°	9.1	45.6	82.1	115.5	148.9
165°	9.1	39.5	69.9	94.2	121.6
167.5°	9.1	30.4	57.7	72.9	100.3
170°	9.1	24.3	45.6	51.7	76.0
172.5°	9.1	18.2	33.4	36.5	39.5
175°	9.1	15.2	21.3	21.3	12.2
177.5°	9.1	12.2	12.2	12.2	6.1
180°	6.1	6.1	6.1	6.1	6.1

(END OF REPORT)