

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: P567653

Luminaire Tested: **8SNX-186HL-LN-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567653
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-186HL-LN-UNV-L850-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

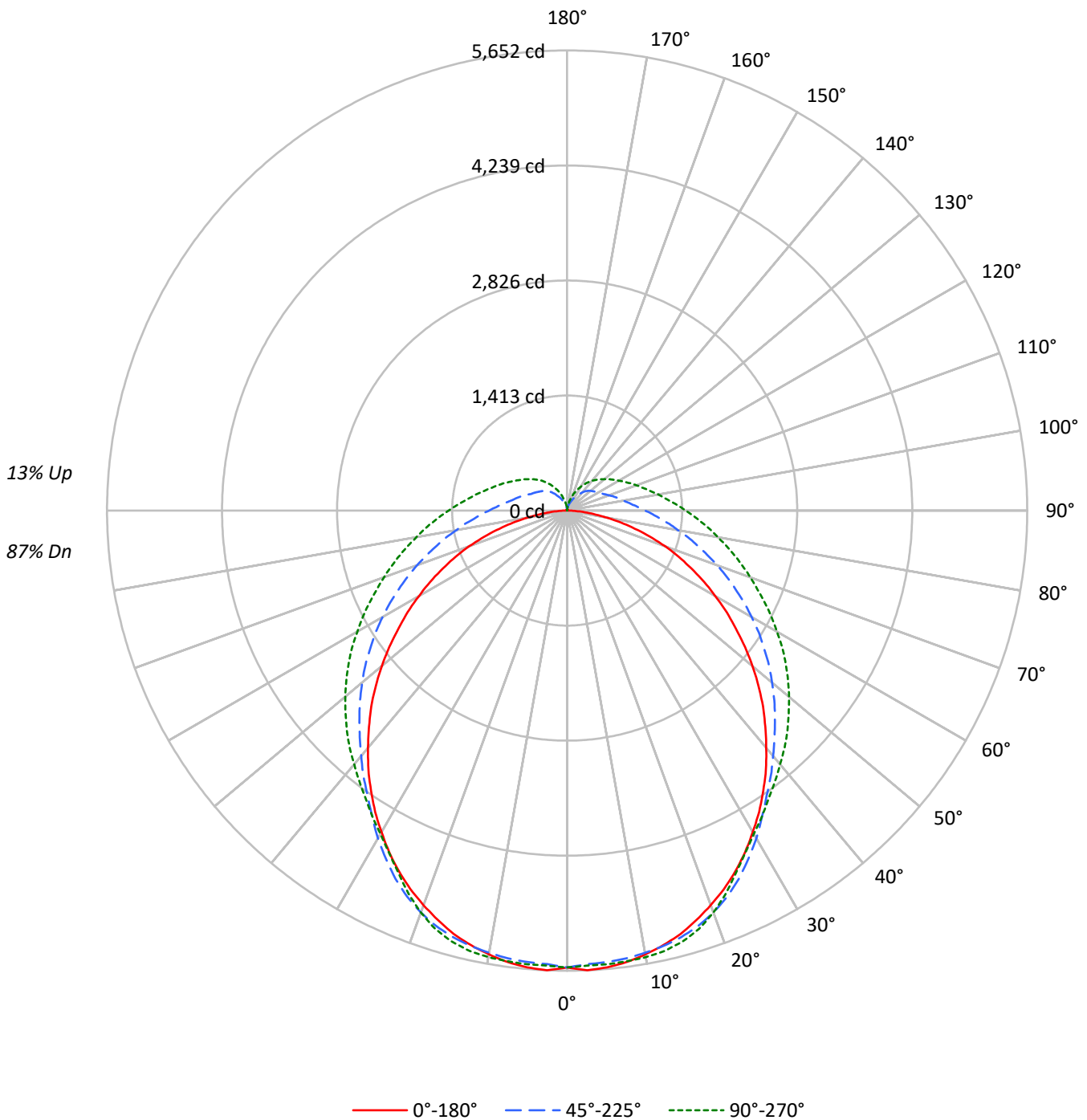
Lumens per Lamp: N/A
Luminaire Lumens: 20255.0 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 134.8
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

TEST NUMBER: P567653

CATALOG NUMBER: 8SNX-186HL-LN-UNV-L850-CD

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°	30198	30198	30198
5°	30369	28846	28555
10°	30141	27759	27237
15°	29834	26729	25908
20°	29318	25567	24215
25°	28758	24154	22229
30°	28003	22562	20571
35°	27196	20939	19334
40°	26272	19637	18333
45°	25372	18483	17469
50°	24296	17422	16599
55°	23030	16355	15747
60°	21834	15290	14856
65°	20511	14216	14039
70°	19013	13210	13300
75°	16630	12229	12692
80°	13515	11387	12177
85°	9760	10802	11881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.0	2.6
10°-20°	1532.5	7.6
20°-30°	2282.1	11.3
30°-40°	2692.7	13.3
40°-50°	2808.3	13.9
50°-60°	2639.0	13.0
60°-70°	2228.6	11.0
70°-80°	1683.9	8.3
80°-90°	1160.8	5.7
90°-100°	812.3	4.0
100°-110°	606.2	3.0
110°-120°	457.0	2.3
120°-130°	340.8	1.7
130°-140°	239.2	1.2
140°-150°	144.6	0.7
150°-160°	69.2	0.3
160°-170°	22.2	0.1
170°-180°	2.6	0.0
0°-30°	4347.6	21.5
0°-40°	7040.4	34.8
0°-60°	12487.7	61.7
0°-90°	17561.0	86.7
90°-120°	1875.4	9.3
90°-150°	2600.1	12.8
90°-180°	2694.0	13.3
0°-180°	20255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5611	5611	5611	5611	5611	
5°	5632	5621	5566	5608	5594	534
15°	5384	5408	5422	5491	5480	1516
25°	4890	4990	4990	4945	4907	2250
35°	4200	4354	4272	4306	4316	2626
45°	3403	3571	3609	3757	3825	2621
55°	2527	2744	2953	3190	3276	2268
65°	1683	1950	2280	2579	2678	1671
75°	862	1195	1655	2002	2129	918
85°	196	615	1147	1525	1659	219
90°	3	436	958	1326	1456	14
95°	3	340	810	1161	1281	3
105°	7	244	625	907	1010	7
115°	7	210	484	721	814	7
125°	10	179	409	591	666	9
135°	10	137	340	481	539	8
145°	14	100	237	367	412	8
155°	14	65	144	234	271	6
165°	17	41	76	103	137	5
175°	17	17	21	21	10	2
180°	10	10	10	10	10	



TEST NUMBER: P567653

CATALOG NUMBER: 8SNX-186HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5611.0	5611.0	5611.0	5611.0	5611.0
2.5°	5652.2	5638.5	5576.7	5611.0	5593.8
5°	5631.6	5621.3	5566.4	5607.6	5593.8
7.5°	5593.8	5590.4	5549.2	5597.3	5583.5
10°	5535.5	5545.8	5514.9	5580.1	5569.8
12.5°	5466.8	5487.4	5477.1	5549.2	5538.9
15°	5384.4	5408.4	5422.1	5490.8	5480.5
17.5°	5274.5	5319.1	5350.0	5405.0	5387.8
20°	5157.7	5219.5	5253.9	5281.4	5253.9
22.5°	5030.7	5113.1	5133.7	5120.0	5092.5
25°	4889.9	4989.5	4989.5	4944.8	4907.1
27.5°	4731.9	4855.6	4821.2	4769.7	4738.8
30°	4560.2	4707.9	4649.5	4591.1	4584.3
32.5°	4388.5	4543.1	4457.2	4443.5	4453.8
35°	4199.7	4354.2	4271.8	4306.1	4316.4
37.5°	4010.8	4165.3	4110.4	4161.9	4192.8
40°	3804.8	3969.6	3935.3	4028.0	4069.2
42.5°	3602.2	3773.9	3770.4	3890.6	3952.4
45°	3403.0	3571.3	3609.0	3756.7	3825.4
47.5°	3186.7	3358.4	3451.1	3622.8	3691.5
50°	2973.8	3159.2	3286.3	3478.6	3557.5
52.5°	2754.0	2949.7	3124.9	3337.8	3420.2
55°	2527.4	2743.7	2953.2	3190.1	3276.0
57.5°	2324.8	2544.5	2791.8	3035.6	3135.2
60°	2101.6	2345.4	2616.6	2874.2	2973.8
62.5°	1899.0	2149.6	2451.8	2723.1	2829.5
65°	1682.6	1950.5	2280.1	2578.9	2678.5
67.5°	1483.4	1758.2	2118.7	2420.9	2530.8
70°	1277.4	1569.3	1960.8	2280.1	2393.4
72.5°	1064.5	1373.6	1802.8	2142.8	2259.5
75°	861.9	1195.0	1655.1	2002.0	2129.0
77.5°	673.0	1023.3	1521.2	1878.3	2002.0
80°	487.6	868.8	1380.4	1751.3	1878.3
82.5°	322.8	734.9	1267.1	1638.0	1771.9
85°	195.7	614.7	1146.9	1524.7	1658.6
87.5°	89.3	515.1	1050.8	1425.1	1555.6
90°	3.4	436.1	958.1	1325.5	1456.0
92.5°	3.4	381.2	882.5	1239.6	1366.7
95°	3.4	340.0	810.4	1160.7	1280.8
97.5°	3.4	312.5	755.5	1085.1	1201.9
100°	3.4	285.0	700.5	1016.4	1136.6
102.5°	6.9	261.0	659.3	954.6	1067.9
105°	6.9	243.8	625.0	906.6	1009.6
107.5°	6.9	233.5	587.2	858.5	954.6
110°	6.9	223.2	546.0	810.4	906.6



TEST NUMBER: P567653

CATALOG NUMBER: 8SNX-186HL-LN-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.9	216.3	515.1	769.2	861.9
115°	6.9	209.5	484.2	721.1	813.8
117.5°	6.9	206.0	467.0	683.3	772.6
120°	10.3	195.7	446.4	649.0	734.9
122.5°	10.3	185.4	425.8	621.5	697.1
125°	10.3	178.6	408.6	590.6	666.2
127.5°	10.3	168.3	391.5	563.2	631.8
130°	10.3	158.0	377.7	535.7	600.9
132.5°	10.3	147.7	360.6	508.2	570.0
135°	10.3	137.4	340.0	480.7	539.1
137.5°	10.3	127.1	319.4	453.3	508.2
140°	10.3	116.8	291.9	425.8	477.3
142.5°	10.3	106.5	264.4	398.3	443.0
145°	13.7	99.6	236.9	367.4	412.1
147.5°	13.7	89.3	209.5	336.5	374.3
150°	13.7	82.4	188.9	305.6	340.0
152.5°	13.7	72.1	168.3	271.3	305.6
155°	13.7	65.2	144.2	233.5	271.3
157.5°	13.7	58.4	123.6	195.7	236.9
160°	13.7	54.9	106.5	161.4	202.6
162.5°	17.2	48.1	89.3	130.5	168.3
165°	17.2	41.2	75.5	103.0	137.4
167.5°	17.2	34.3	61.8	79.0	106.5
170°	17.2	27.5	48.1	54.9	82.4
172.5°	17.2	20.6	34.3	37.8	41.2
175°	17.2	17.2	20.6	20.6	10.3
177.5°	17.2	17.2	13.7	10.3	3.4
180°	10.3	10.3	10.3	10.3	10.3

(END OF REPORT)