

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: P567651

Luminaire Tested: **8SNX-186HL-LN-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567651
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-L835-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

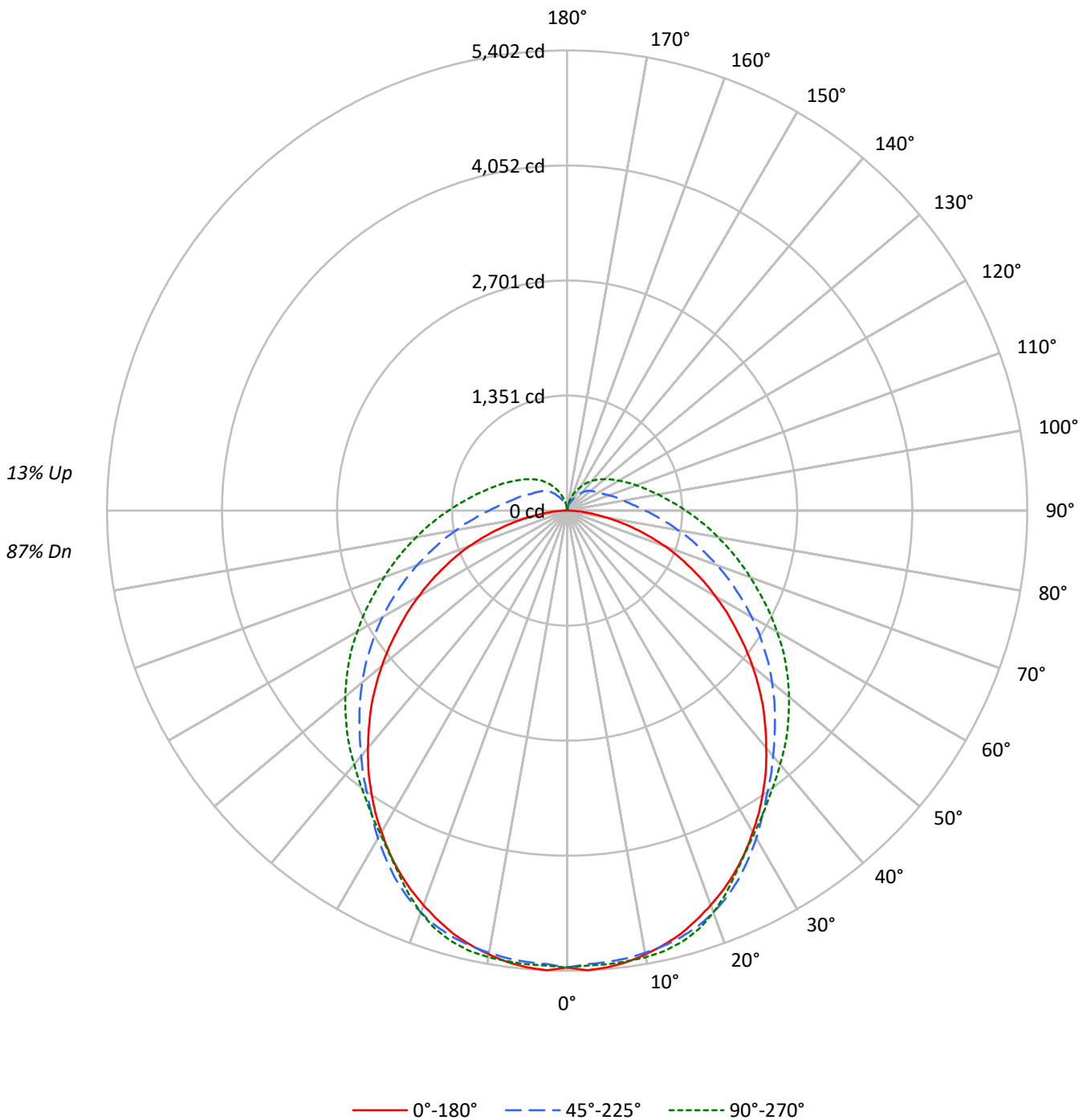
Lumens per Lamp: N/A
Luminaire Lumens: 19359.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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

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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°	28862	28862	28862
5°	29026	27569	27292
10°	28807	26531	26032
15°	28514	25547	24762
20°	28021	24436	23144
25°	27486	23085	21246
30°	26764	21564	19661
35°	25993	20012	18479
40°	25110	18769	17522
45°	24250	17666	16697
50°	23221	16651	15865
55°	22011	15631	15050
60°	20867	14614	14198
65°	19604	13587	13418
70°	18172	12625	12712
75°	15894	11688	12131
80°	12917	10884	11638
85°	9332	10324	11356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.5	2.6
10°-20°	1464.7	7.6
20°-30°	2181.1	11.3
30°-40°	2573.6	13.3
40°-50°	2684.0	13.9
50°-60°	2522.3	13.0
60°-70°	2130.1	11.0
70°-80°	1609.4	8.3
80°-90°	1109.4	5.7
90°-100°	776.4	4.0
100°-110°	579.3	3.0
110°-120°	436.8	2.3
120°-130°	325.7	1.7
130°-140°	228.6	1.2
140°-150°	138.2	0.7
150°-160°	66.1	0.3
160°-170°	21.2	0.1
170°-180°	2.5	0.0
0°-30°	4155.3	21.5
0°-40°	6729.0	34.8
0°-60°	11935.2	61.7
0°-90°	16784.1	86.7
90°-120°	1792.5	9.3
90°-150°	2485.0	12.8
90°-180°	2575.0	13.3
0°-180°	19359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5363	5363	5363	5363	5363	
5°	5382	5373	5320	5360	5346	511
15°	5146	5169	5182	5248	5238	1449
25°	4674	4769	4769	4726	4690	2150
35°	4014	4162	4083	4116	4126	2510
45°	3252	3413	3449	3590	3656	2505
55°	2416	2622	2822	3049	3131	2167
65°	1608	1864	2179	2465	2560	1597
75°	824	1142	1582	1913	2035	877
85°	187	588	1096	1457	1585	210
90°	3	417	916	1267	1392	13
95°	3	325	775	1109	1224	3
105°	7	233	597	866	965	7
115°	7	200	463	689	778	7
125°	10	171	391	564	637	9
135°	10	131	325	460	515	8
145°	13	95	226	351	394	7
155°	13	62	138	223	259	6
165°	16	39	72	98	131	5
175°	16	16	20	20	10	2
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5362.8	5362.8	5362.8	5362.8	5362.8
2.5°	5402.2	5389.1	5330.0	5362.8	5346.4
5°	5382.5	5372.6	5320.1	5359.5	5346.4
7.5°	5346.4	5343.1	5303.7	5349.7	5336.5
10°	5290.6	5300.4	5270.9	5333.3	5323.4
12.5°	5225.0	5244.7	5234.8	5303.7	5293.9
15°	5146.2	5169.2	5182.3	5247.9	5238.1
17.5°	5041.2	5083.8	5113.4	5165.9	5149.5
20°	4929.6	4988.7	5021.5	5047.7	5021.5
22.5°	4808.1	4886.9	4906.6	4893.5	4867.2
25°	4673.6	4768.8	4768.8	4726.1	4690.0
27.5°	4522.6	4640.8	4607.9	4558.7	4529.2
30°	4358.5	4499.6	4443.8	4388.0	4381.5
32.5°	4194.4	4342.1	4260.0	4246.9	4256.8
35°	4013.9	4161.6	4082.8	4115.6	4125.5
37.5°	3833.4	3981.1	3928.6	3977.8	4007.3
40°	3636.5	3794.0	3761.2	3849.8	3889.2
42.5°	3442.8	3606.9	3603.6	3718.5	3777.6
45°	3252.5	3413.3	3449.4	3590.5	3656.2
47.5°	3045.7	3209.8	3298.4	3462.5	3528.2
50°	2842.2	3019.4	3140.9	3324.7	3400.2
52.5°	2632.2	2819.2	2986.6	3190.1	3268.9
55°	2415.6	2622.3	2822.5	3049.0	3131.0
57.5°	2221.9	2432.0	2668.3	2901.3	2996.5
60°	2008.6	2241.6	2500.9	2747.0	2842.2
62.5°	1815.0	2054.5	2343.4	2602.6	2704.4
65°	1608.2	1864.2	2179.3	2464.8	2560.0
67.5°	1417.8	1680.4	2025.0	2313.8	2418.8
70°	1220.9	1499.9	1874.0	2179.3	2287.6
72.5°	1017.4	1312.8	1723.1	2048.0	2159.6
75°	823.8	1142.1	1581.9	1913.4	2034.8
77.5°	643.3	978.0	1453.9	1795.3	1913.4
80°	466.0	830.3	1319.4	1673.8	1795.3
82.5°	308.5	702.3	1211.1	1565.5	1693.5
85°	187.1	587.5	1096.2	1457.2	1585.2
87.5°	85.3	492.3	1004.3	1362.0	1486.8
90°	3.3	416.8	915.7	1266.9	1391.6
92.5°	3.3	364.3	843.5	1184.8	1306.2
95°	3.3	324.9	774.6	1109.3	1224.2
97.5°	3.3	298.7	722.0	1037.1	1148.7
100°	3.3	272.4	669.5	971.5	1086.3
102.5°	6.6	249.4	630.1	912.4	1020.7
105°	6.6	233.0	597.3	866.5	964.9
107.5°	6.6	223.2	561.2	820.5	912.4
110°	6.6	213.3	521.8	774.6	866.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.6	206.8	492.3	735.2	823.8
115°	6.6	200.2	462.8	689.2	777.8
117.5°	6.6	196.9	446.4	653.1	738.5
120°	9.8	187.1	426.7	620.3	702.3
122.5°	9.8	177.2	407.0	594.0	666.2
125°	9.8	170.7	390.6	564.5	636.7
127.5°	9.8	160.8	374.1	538.2	603.9
130°	9.8	151.0	361.0	512.0	574.4
132.5°	9.8	141.1	344.6	485.7	544.8
135°	9.8	131.3	324.9	459.5	515.3
137.5°	9.8	121.4	305.2	433.2	485.7
140°	9.8	111.6	279.0	407.0	456.2
142.5°	9.8	101.7	252.7	380.7	423.4
145°	13.1	95.2	226.5	351.2	393.8
147.5°	13.1	85.3	200.2	321.6	357.7
150°	13.1	78.8	180.5	292.1	324.9
152.5°	13.1	68.9	160.8	259.3	292.1
155°	13.1	62.4	137.8	223.2	259.3
157.5°	13.1	55.8	118.2	187.1	226.5
160°	13.1	52.5	101.7	154.3	193.6
162.5°	16.4	45.9	85.3	124.7	160.8
165°	16.4	39.4	72.2	98.5	131.3
167.5°	16.4	32.8	59.1	75.5	101.7
170°	16.4	26.3	45.9	52.5	78.8
172.5°	16.4	19.7	32.8	36.1	39.4
175°	16.4	16.4	19.7	19.7	9.8
177.5°	16.4	16.4	13.1	9.8	3.3
180°	9.8	9.8	9.8	9.8	9.8

(END OF REPORT)