

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: P567643

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

Issue Date: 9/15/2022



**Test Information**

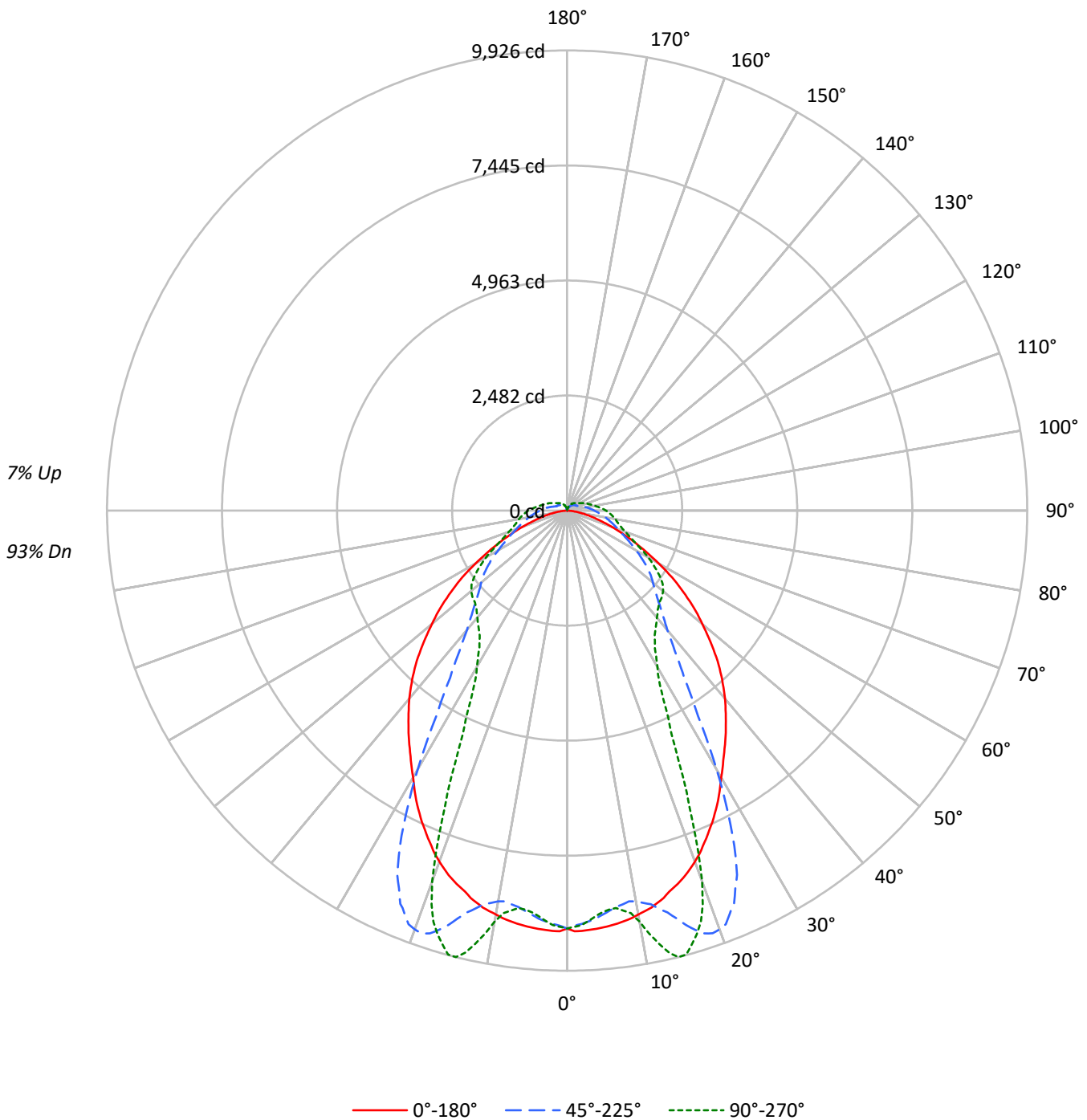
Test Method: LM-79-08  
Report Number: P567643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-186HL-LC-UNV-L835-CD  
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20035.0 lumens  
Efficiency: N/A  
Efficacy: 148.6 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): 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	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°	48517	48517	48517
5°	48663	45336	44410
10°	48169	43097	44039
15°	47136	44877	46882
20°	45800	46786	39237
25°	43591	41981	24126
30°	40818	31276	17460
35°	38568	21591	14729
40°	36562	16760	13575
45°	34211	14272	12838
50°	31115	12811	12603
55°	27845	11587	11660
60°	23612	10028	10085
65°	19204	8735	8418
70°	15070	7852	7411
75°	11686	7300	6911
80°	8224	6915	6841
85°	4578	6597	6793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.8	4.2
10°-20°	2563.2	12.8
20°-30°	3451.4	17.2
30°-40°	3266.4	16.3
40°-50°	2883.1	14.4
50°-60°	2341.7	11.7
60°-70°	1592.6	7.9
70°-80°	1024.7	5.1
80°-90°	681.4	3.4
90°-100°	468.3	2.3
100°-110°	314.3	1.6
110°-120°	221.7	1.1
120°-130°	158.4	0.8
130°-140°	111.8	0.6
140°-150°	69.4	0.3
150°-160°	33.8	0.2
160°-170°	11.8	0.1
170°-180°	2.1	0.0
0°-30°	6853.4	34.2
0°-40°	10119.8	50.5
0°-60°	15344.6	76.6
0°-90°	18643.4	93.1
90°-120°	1004.4	5.0
90°-150°	1343.9	6.7
90°-180°	1392.0	6.9
0°-180°	20035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9015	9015	9015	9015	9015	
5°	9024	8941	8749	8742	8700	856
15°	8507	8452	9104	9908	9917	2398
25°	7412	8788	8672	6298	5326	3401
35°	5956	8357	4405	3392	3288	3727
45°	4588	5622	2787	2753	2811	3523
55°	3056	3325	2092	2337	2426	2729
65°	1575	1793	1401	1557	1606	1582
75°	606	847	988	1107	1159	659
85°	92	361	700	887	948	120
90°	3	251	584	786	838	5
95°	3	193	492	667	713	3
105°	6	135	324	456	511	6
115°	6	116	239	340	382	7
125°	9	98	205	257	275	9
135°	12	76	168	214	226	9
145°	12	55	119	165	180	8
155°	15	34	73	110	125	7
165°	15	21	40	55	67	5
175°	18	18	18	18	15	2
180°	15	15	15	15	15	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9014.8	9014.8	9014.8	9014.8	9014.8
1°	9075.9	9048.4	8956.6	9005.6	8981.1
2°	9072.9	9027.0	8923.0	8978.1	8947.5
3°	9057.6	9008.6	8874.1	8907.7	8861.8
4°	9042.3	8984.2	8822.0	8822.0	8770.0
5°	9023.9	8941.3	8748.6	8742.5	8699.7
6°	9002.5	8907.7	8684.4	8678.3	8653.8
7°	8971.9	8849.6	8614.0	8656.9	8638.5
8°	8935.2	8794.5	8577.3	8684.4	8711.9
9°	8901.6	8727.2	8534.5	8770.0	8791.5
10°	8846.5	8666.0	8562.0	8941.3	9005.6
11°	8800.6	8614.0	8623.2	9109.6	9302.3
12°	8754.8	8559.0	8681.3	9320.7	9556.2
13°	8678.3	8516.2	8809.8	9550.1	9791.7
14°	8611.0	8482.5	8935.2	9782.6	9926.3
15°	8507.0	8451.9	9103.5	9908.0	9917.2
16°	8436.6	8430.5	9299.2	9917.2	9745.9
17°	8357.1	8421.3	9458.3	9758.1	9556.2
18°	8268.4	8439.7	9589.8	9559.3	9326.8
19°	8167.4	8458.0	9644.9	9284.0	8984.2
20°	8057.3	8485.6	9614.3	8996.4	8513.1
21°	7947.2	8522.3	9556.2	8693.6	7895.2
22.5°	7742.2	8611.0	9280.9	7843.2	6873.5
23°	7684.1	8629.3	9216.7	7577.1	6607.4
24°	7540.3	8705.8	8923.0	6956.1	5903.8
25°	7411.9	8788.4	8672.2	6298.4	5325.7
26°	7268.1	8849.6	8292.8	5692.7	4970.8
27°	7127.4	8886.3	7861.5	5221.6	4573.1
28°	6965.3	8926.1	7393.5	4814.8	4273.4
29°	6812.3	8932.2	6931.6	4490.6	4037.8
30°	6647.1	8901.6	6445.2	4230.5	3891.0
32.5°	6286.2	8733.3	5255.3	3735.0	3523.9
35°	5955.8	8357.1	4404.9	3392.4	3288.4
37.5°	5622.4	7763.6	3808.4	3178.3	3144.6
40°	5295.1	7060.1	3358.7	3007.0	3013.1
42.5°	4949.4	6335.1	3049.8	2866.2	2893.8
45°	4588.4	5622.4	2786.7	2753.1	2811.2
47.5°	4187.7	4970.8	2578.7	2679.7	2768.4
50°	3808.4	4325.4	2416.6	2609.3	2701.1
52.5°	3447.5	3796.2	2269.8	2490.0	2597.1
55°	3055.9	3325.1	2092.3	2337.0	2425.8
57.5°	2682.7	2899.9	1905.7	2147.4	2226.9
60°	2272.8	2480.8	1716.1	1942.4	2018.9
62.5°	1902.7	2122.9	1554.0	1737.5	1798.7
65°	1575.4	1792.6	1401.0	1557.0	1606.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1284.8	1517.2	1275.6	1407.1	1453.0
70°	1012.5	1257.2	1165.5	1284.8	1333.7
72.5°	792.3	1040.0	1073.7	1183.8	1232.8
75°	605.7	847.3	988.0	1107.3	1159.3
77.5°	449.7	691.3	908.5	1046.2	1101.2
80°	296.7	550.6	838.2	991.1	1055.3
82.5°	186.6	443.5	767.8	936.0	1003.3
85°	91.8	361.0	700.5	887.1	948.3
87.5°	30.6	299.8	639.3	838.2	890.2
90°	3.1	250.8	584.3	786.2	838.2
92.5°	3.1	217.2	538.4	725.0	777.0
95°	3.1	192.7	492.5	666.9	712.7
97.5°	3.1	174.4	449.7	605.7	654.6
100°	3.1	156.0	403.8	547.6	599.6
102.5°	6.1	143.8	364.0	498.6	553.7
105°	6.1	134.6	324.3	455.8	510.8
107.5°	6.1	128.5	290.6	422.1	474.1
110°	6.1	122.4	266.1	391.5	446.6
112.5°	6.1	119.3	250.8	364.0	416.0
115°	6.1	116.2	238.6	339.5	382.4
117.5°	9.2	113.2	229.4	315.1	348.7
120°	9.2	107.1	223.3	293.7	321.2
122.5°	9.2	100.9	214.1	275.3	296.7
125°	9.2	97.9	205.0	257.0	275.3
127.5°	9.2	91.8	195.8	241.7	260.0
130°	12.2	85.7	186.6	229.4	244.7
132.5°	12.2	79.5	177.4	223.3	235.5
135°	12.2	76.5	168.2	214.1	226.4
137.5°	12.2	70.4	159.1	205.0	217.2
140°	12.2	64.2	146.8	192.7	205.0
142.5°	12.2	61.2	134.6	180.5	192.7
145°	12.2	55.1	119.3	165.2	180.5
147.5°	15.3	52.0	107.1	152.9	165.2
150°	15.3	45.9	94.8	140.7	152.9
152.5°	15.3	39.8	82.6	125.4	137.7
155°	15.3	33.6	73.4	110.1	125.4
157.5°	15.3	30.6	64.2	91.8	110.1
160°	15.3	27.5	55.1	79.5	94.8
162.5°	15.3	24.5	48.9	67.3	82.6
165°	15.3	21.4	39.8	55.1	67.3
167.5°	18.4	21.4	33.6	42.8	55.1
170°	18.4	21.4	27.5	33.6	42.8
172.5°	18.4	18.4	21.4	24.5	27.5
175°	18.4	18.4	18.4	18.4	15.3
177.5°	18.4	18.4	18.4	15.3	15.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	15.3	15.3	15.3	15.3	15.3

(END OF REPORT)