

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: P567646

Luminaire Tested: **8SNX-186HL-LC-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567646
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-L930-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

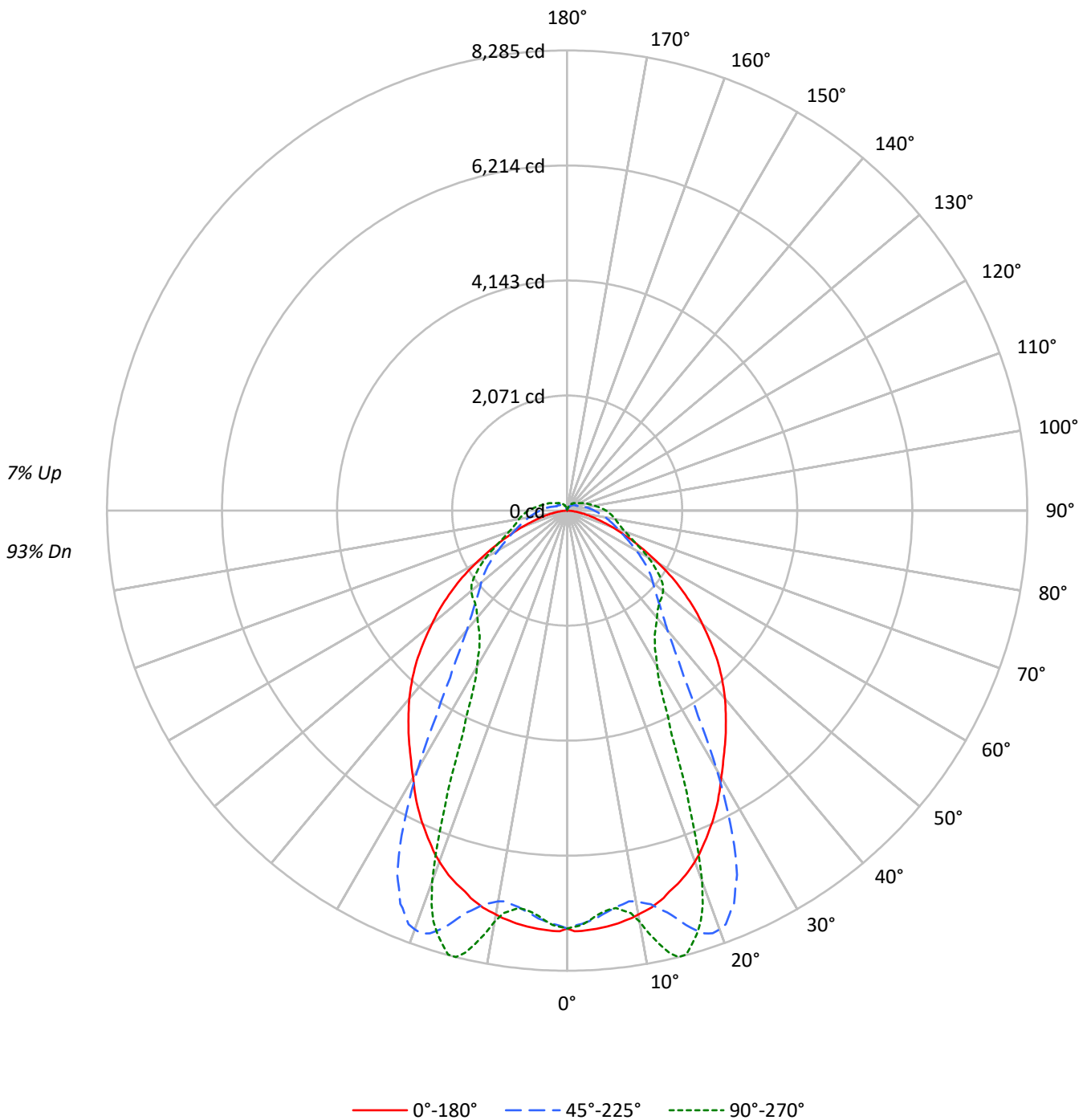
Lumens per Lamp: N/A
Luminaire Lumens: 16722.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

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°	40494	40494	40494
5°	40616	37840	37066
10°	40204	35970	36756
15°	39342	37456	39129
20°	38226	39050	32749
25°	36382	35039	20136
30°	34069	26104	14573
35°	32190	18021	12294
40°	30516	13989	11330
45°	28554	11912	10715
50°	25969	10693	10519
55°	23241	9671	9732
60°	19708	8370	8418
65°	16029	7290	7025
70°	12578	6553	6186
75°	9753	6093	5768
80°	6866	5771	5710
85°	3820	5507	5670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.1	4.2
10°-20°	2139.4	12.8
20°-30°	2880.7	17.2
30°-40°	2726.3	16.3
40°-50°	2406.3	14.4
50°-60°	1954.5	11.7
60°-70°	1329.2	7.9
70°-80°	855.3	5.1
80°-90°	568.7	3.4
90°-100°	390.9	2.3
100°-110°	262.3	1.6
110°-120°	185.1	1.1
120°-130°	132.2	0.8
130°-140°	93.3	0.6
140°-150°	57.9	0.3
150°-160°	28.2	0.2
160°-170°	9.9	0.1
170°-180°	1.7	0.0
0°-30°	5720.2	34.2
0°-40°	8446.4	50.5
0°-60°	12807.2	76.6
0°-90°	15560.5	93.1
90°-120°	838.3	5.0
90°-150°	1121.7	6.7
90°-180°	1162.0	6.9
0°-180°	16722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7524	7524	7524	7524	7524	
5°	7532	7463	7302	7297	7261	714
15°	7100	7054	7598	8270	8277	2002
25°	6186	7335	7238	5257	4445	2839
35°	4971	6975	3676	2831	2745	3111
45°	3830	4693	2326	2298	2346	2940
55°	2551	2775	1746	1951	2025	2278
65°	1315	1496	1169	1300	1340	1320
75°	506	707	825	924	968	550
85°	77	301	585	740	792	100
90°	3	209	488	656	700	5
95°	3	161	411	557	595	2
105°	5	112	271	380	426	5
115°	5	97	199	283	319	6
125°	8	82	171	214	230	7
135°	10	64	140	179	189	8
145°	10	46	100	138	151	7
155°	13	28	61	92	105	6
165°	13	18	33	46	56	4
175°	15	15	15	15	13	1
180°	13	13	13	13	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7524.1	7524.1	7524.1	7524.1	7524.1
1°	7575.1	7552.2	7475.6	7516.4	7496.0
2°	7572.6	7534.3	7447.5	7493.4	7467.9
3°	7559.8	7519.0	7406.6	7434.7	7396.4
4°	7547.1	7498.5	7363.2	7363.2	7319.8
5°	7531.7	7462.8	7302.0	7296.8	7261.1
6°	7513.9	7434.7	7248.3	7243.2	7222.8
7°	7488.3	7386.2	7189.6	7225.4	7210.0
8°	7457.7	7340.3	7159.0	7248.3	7271.3
9°	7429.6	7284.1	7123.2	7319.8	7337.7
10°	7383.7	7233.0	7146.2	7462.8	7516.4
11°	7345.4	7189.6	7197.3	7603.2	7764.1
12°	7307.1	7143.7	7245.8	7779.4	7976.0
13°	7243.2	7107.9	7353.0	7970.9	8172.6
14°	7187.1	7079.8	7457.7	8164.9	8284.9
15°	7100.3	7054.3	7598.1	8269.6	8277.2
16°	7041.5	7036.4	7761.5	8277.2	8134.3
17°	6975.2	7028.8	7894.3	8144.5	7976.0
18°	6901.1	7044.1	8004.1	7978.5	7784.5
19°	6816.9	7059.4	8050.0	7748.8	7498.5
20°	6724.9	7082.4	8024.5	7508.8	7105.4
21°	6633.0	7113.0	7976.0	7256.0	6589.6
22.5°	6462.0	7187.1	7746.2	6546.2	5736.9
23°	6413.5	7202.4	7692.6	6324.1	5514.8
24°	6293.5	7266.2	7447.5	5805.8	4927.5
25°	6186.2	7335.1	7238.1	5256.9	4445.0
26°	6066.2	7386.2	6921.5	4751.4	4148.8
27°	5948.8	7416.8	6561.5	4358.2	3816.9
28°	5813.5	7450.0	6170.9	4018.6	3566.7
29°	5685.8	7455.1	5785.4	3748.0	3370.1
30°	5548.0	7429.6	5379.4	3531.0	3247.6
32.5°	5246.7	7289.2	4386.3	3117.4	2941.2
35°	4970.9	6975.2	3676.5	2831.4	2744.6
37.5°	4692.7	6479.8	3178.6	2652.7	2624.6
40°	4419.5	5892.6	2803.3	2509.7	2514.8
42.5°	4131.0	5287.5	2545.5	2392.3	2415.3
45°	3829.7	4692.7	2325.9	2297.8	2346.3
47.5°	3495.2	4148.8	2152.3	2236.5	2310.6
50°	3178.6	3610.1	2017.0	2177.8	2254.4
52.5°	2877.4	3168.4	1894.4	2078.2	2167.6
55°	2550.6	2775.3	1746.3	1950.6	2024.6
57.5°	2239.1	2420.4	1590.6	1792.3	1858.7
60°	1897.0	2070.6	1432.3	1621.2	1685.1
62.5°	1588.0	1771.9	1297.0	1450.2	1501.2
65°	1314.9	1496.1	1169.3	1299.5	1340.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1072.3	1266.4	1064.7	1174.4	1212.7
70°	845.1	1049.3	972.7	1072.3	1113.2
72.5°	661.3	868.1	896.1	988.1	1028.9
75°	505.5	707.2	824.7	924.2	967.6
77.5°	375.3	577.0	758.3	873.2	919.1
80°	247.7	459.6	699.6	827.2	880.8
82.5°	155.7	370.2	640.8	781.3	837.4
85°	76.6	301.3	584.7	740.4	791.5
87.5°	25.5	250.2	533.6	699.6	743.0
90°	2.6	209.4	487.6	656.2	699.6
92.5°	2.6	181.3	449.4	605.1	648.5
95°	2.6	160.8	411.1	556.6	594.9
97.5°	2.6	145.5	375.3	505.5	546.4
100°	2.6	130.2	337.0	457.0	500.4
102.5°	5.1	120.0	303.8	416.2	462.1
105°	5.1	112.3	270.6	380.4	426.4
107.5°	5.1	107.2	242.5	352.3	395.7
110°	5.1	102.1	222.1	326.8	372.8
112.5°	5.1	99.6	209.4	303.8	347.2
115°	5.1	97.0	199.1	283.4	319.1
117.5°	7.7	94.5	191.5	263.0	291.1
120°	7.7	89.4	186.4	245.1	268.1
122.5°	7.7	84.3	178.7	229.8	247.7
125°	7.7	81.7	171.1	214.5	229.8
127.5°	7.7	76.6	163.4	201.7	217.0
130°	10.2	71.5	155.7	191.5	204.3
132.5°	10.2	66.4	148.1	186.4	196.6
135°	10.2	63.8	140.4	178.7	188.9
137.5°	10.2	58.7	132.8	171.1	181.3
140°	10.2	53.6	122.6	160.8	171.1
142.5°	10.2	51.1	112.3	150.6	160.8
145°	10.2	46.0	99.6	137.9	150.6
147.5°	12.8	43.4	89.4	127.7	137.9
150°	12.8	38.3	79.1	117.4	127.7
152.5°	12.8	33.2	68.9	104.7	114.9
155°	12.8	28.1	61.3	91.9	104.7
157.5°	12.8	25.5	53.6	76.6	91.9
160°	12.8	23.0	46.0	66.4	79.1
162.5°	12.8	20.4	40.9	56.2	68.9
165°	12.8	17.9	33.2	46.0	56.2
167.5°	15.3	17.9	28.1	35.7	46.0
170°	15.3	17.9	23.0	28.1	35.7
172.5°	15.3	15.3	17.9	20.4	23.0
175°	15.3	15.3	15.3	15.3	12.8
177.5°	15.3	15.3	15.3	12.8	12.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	12.8	12.8	12.8	12.8	12.8

(END OF REPORT)