

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: P567664

Luminaire Tested: **8SNX-186HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567664
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-L940-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

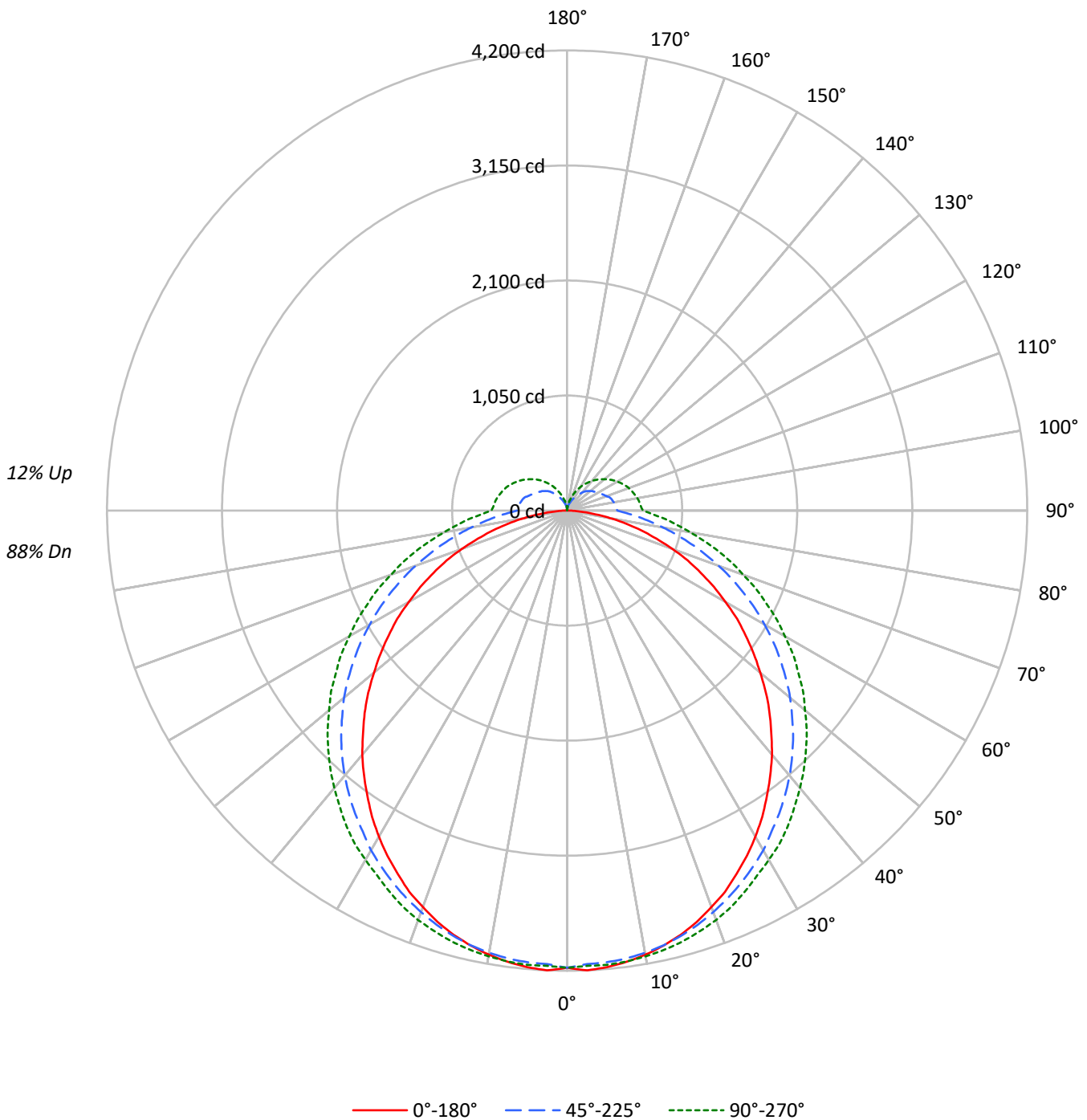
Lumens per Lamp: N/A
Luminaire Lumens: 15021.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 134.8
Input Voltage (V): NR
Input Current (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	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°	22455	22455	22455
5°	22555	21448	21246
10°	22410	20626	20202
15°	22206	19807	19249
20°	21888	18977	18329
25°	21512	18168	17386
30°	21103	17375	16517
35°	20588	16542	15739
40°	20089	15763	14892
45°	19485	14939	14085
50°	18788	14087	13226
55°	18118	13149	12377
60°	17343	12160	11462
65°	16399	11082	10516
70°	15199	9912	9491
75°	13500	8629	8511
80°	11123	7342	7387
85°	7696	6105	6449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.1	2.6
10°-20°	1139.4	7.6
20°-30°	1733.3	11.5
30°-40°	2107.5	14.0
40°-50°	2229.7	14.8
50°-60°	2090.1	13.9
60°-70°	1719.4	11.4
70°-80°	1189.7	7.9
80°-90°	661.6	4.4
90°-100°	435.8	2.9
100°-110°	390.8	2.6
110°-120°	323.5	2.2
120°-130°	250.1	1.7
130°-140°	177.0	1.2
140°-150°	106.8	0.7
150°-160°	51.3	0.3
160°-170°	16.8	0.1
170°-180°	2.0	0.0
0°-30°	3268.8	21.8
0°-40°	5376.3	35.8
0°-60°	9696.1	64.6
0°-90°	13266.9	88.3
90°-120°	1150.1	7.7
90°-150°	1684.0	11.2
90°-180°	1754.0	11.7
0°-180°	15021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4172	4172	4172	4172	4172	
5°	4182	4175	4139	4172	4162	397
15°	4008	4020	4018	4072	4072	1130
25°	3658	3709	3753	3835	3838	1686
35°	3179	3264	3375	3483	3514	1990
45°	2613	2750	2917	3048	3084	2014
55°	1988	2166	2374	2523	2575	1780
65°	1345	1538	1778	1952	2006	1334
75°	700	903	1168	1353	1428	742
85°	154	383	648	828	900	178
90°	3	216	458	630	692	10
95°	3	206	445	610	669	2
105°	3	178	417	574	625	3
115°	5	154	352	509	566	4
125°	5	131	301	435	489	5
135°	5	103	252	358	401	4
145°	5	75	175	270	304	3
155°	8	51	108	172	201	3
165°	8	33	59	80	103	2
175°	8	13	18	18	10	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4172.3	4172.3	4172.3	4172.3	4172.3
2.5°	4200.5	4187.7	4144.0	4172.3	4159.4
5°	4182.5	4174.8	4138.8	4172.3	4162.0
7.5°	4154.2	4151.7	4123.4	4162.0	4151.7
10°	4115.7	4120.8	4097.7	4138.8	4131.1
12.5°	4066.8	4074.5	4064.2	4110.5	4105.4
15°	4007.6	4020.5	4017.9	4071.9	4071.9
17.5°	3935.6	3953.6	3963.9	4025.6	4025.6
20°	3850.7	3879.0	3899.6	3966.5	3976.8
22.5°	3765.8	3799.3	3830.1	3899.6	3915.0
25°	3657.8	3709.2	3753.0	3835.3	3837.9
27.5°	3552.3	3608.9	3668.1	3747.8	3755.5
30°	3436.6	3508.6	3580.6	3657.8	3680.9
32.5°	3313.1	3392.8	3472.6	3575.5	3606.3
35°	3179.3	3264.2	3374.8	3482.9	3513.7
37.5°	3045.6	3140.8	3269.4	3380.0	3408.3
40°	2909.3	3014.7	3158.8	3272.0	3305.4
42.5°	2757.5	2886.1	3040.4	3161.3	3199.9
45°	2613.4	2749.8	2917.0	3048.2	3084.2
47.5°	2461.7	2605.7	2785.8	2924.7	2965.8
50°	2299.6	2464.3	2657.2	2796.1	2834.7
52.5°	2147.9	2315.1	2518.3	2662.3	2716.3
55°	1988.4	2165.9	2374.2	2523.4	2574.9
57.5°	1839.2	2009.0	2232.7	2381.9	2446.2
60°	1669.4	1857.2	2081.0	2243.0	2294.5
62.5°	1509.9	1700.3	1931.8	2099.0	2158.2
65°	1345.3	1538.2	1777.5	1952.4	2006.4
67.5°	1191.0	1381.3	1625.7	1798.0	1867.5
70°	1021.2	1221.8	1471.3	1648.8	1708.0
72.5°	854.0	1062.4	1317.0	1507.4	1574.2
75°	699.7	902.9	1167.8	1353.0	1427.6
77.5°	550.5	756.3	1023.8	1214.1	1278.4
80°	401.3	617.3	890.0	1077.8	1139.5
82.5°	264.9	491.3	761.4	949.2	1016.1
85°	154.3	383.3	648.2	828.3	900.3
87.5°	66.9	290.7	542.8	720.2	779.4
90°	2.6	216.1	457.9	630.2	691.9
92.5°	2.6	210.9	447.6	617.3	676.5
95°	2.6	205.8	445.0	609.6	668.8
97.5°	2.6	203.2	439.9	604.5	661.1
100°	2.6	195.5	432.1	594.2	650.8
102.5°	2.6	185.2	424.4	583.9	637.9
105°	2.6	177.5	416.7	573.6	625.1
107.5°	2.6	169.8	403.8	560.8	612.2
110°	2.6	162.1	383.3	547.9	599.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	159.5	367.8	529.9	583.9
115°	5.1	154.3	352.4	509.3	565.9
117.5°	5.1	151.8	339.5	488.7	547.9
120°	5.1	144.0	326.7	470.7	527.3
122.5°	5.1	136.3	313.8	452.7	509.3
125°	5.1	131.2	301.0	434.7	488.7
127.5°	5.1	123.5	290.7	416.7	465.6
130°	5.1	118.3	277.8	396.1	445.0
132.5°	5.1	110.6	264.9	375.6	421.9
135°	5.1	102.9	252.1	357.5	401.3
137.5°	5.1	92.6	236.7	337.0	378.1
140°	5.1	84.9	216.1	316.4	355.0
142.5°	5.1	79.7	195.5	293.2	329.3
145°	5.1	74.6	174.9	270.1	303.5
147.5°	5.1	69.5	156.9	246.9	277.8
150°	5.1	61.7	138.9	226.4	252.1
152.5°	7.7	56.6	123.5	200.6	226.4
155°	7.7	51.4	108.0	172.3	200.6
157.5°	7.7	46.3	92.6	144.0	174.9
160°	7.7	41.2	79.7	118.3	149.2
162.5°	7.7	38.6	69.5	97.7	126.0
165°	7.7	33.4	59.2	79.7	102.9
167.5°	7.7	25.7	48.9	61.7	84.9
170°	7.7	20.6	38.6	43.7	64.3
172.5°	7.7	15.4	28.3	30.9	33.4
175°	7.7	12.9	18.0	18.0	10.3
177.5°	7.7	10.3	10.3	10.3	5.1
180°	5.1	5.1	5.1	5.1	5.1

(END OF REPORT)