

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: P567640

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567640
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-FDL-UNV-L940-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

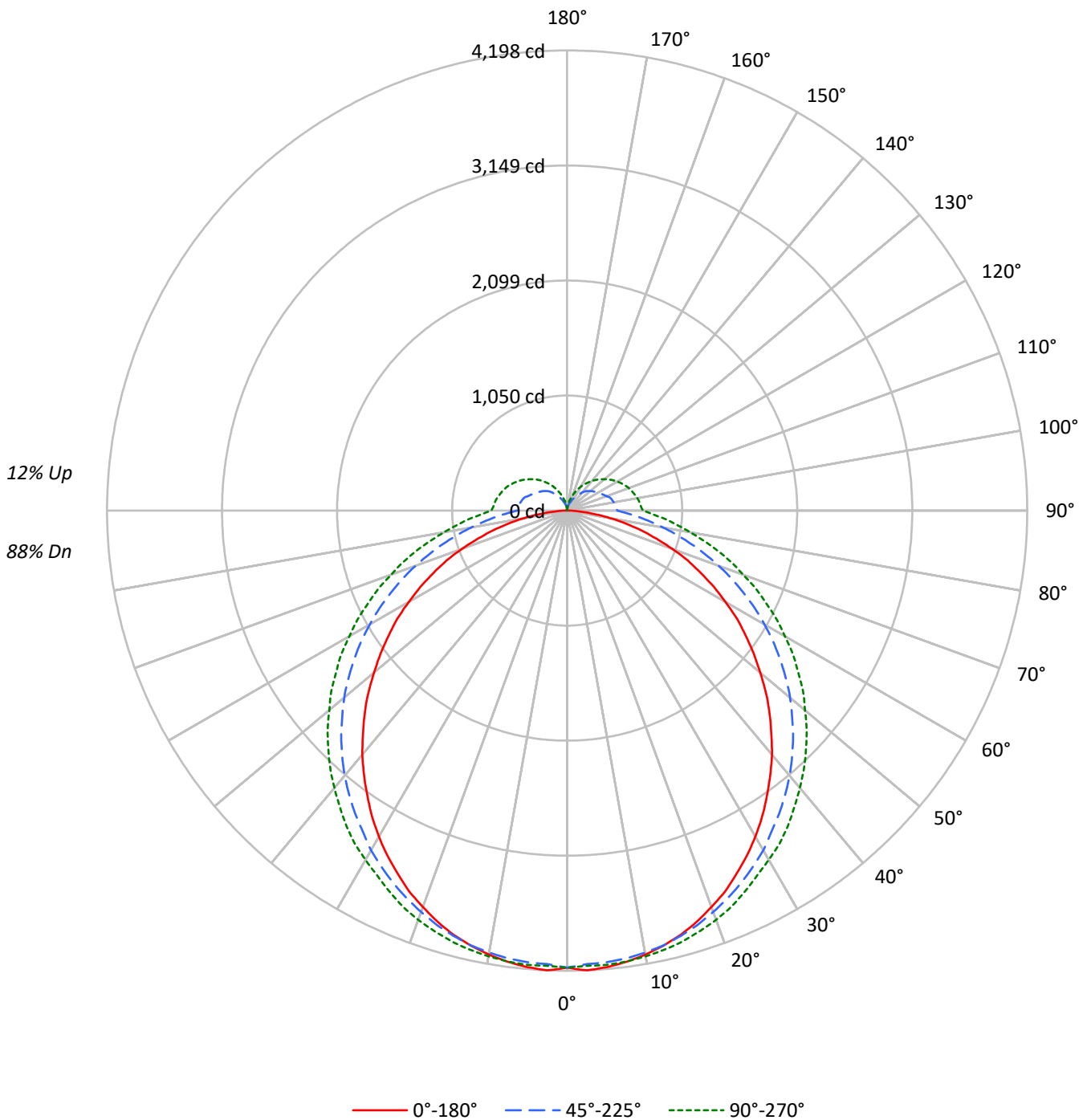
Lumens per Lamp: N/A
Luminaire Lumens: 15012.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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	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°	22442	22442	22442
5°	22572	22111	22149
10°	22458	21911	21919
15°	22285	21668	21705
20°	21999	21376	21461
25°	21656	21078	21135
30°	21280	20781	20855
35°	20800	20422	20661
40°	20338	20127	20361
45°	19777	19784	20109
50°	19124	19422	19790
55°	18509	18971	19503
60°	17798	18493	19154
65°	16933	17945	18812
70°	15833	17347	18424
75°	14262	16696	18292
80°	12072	16320	18145
85°	8987	16743	19127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.9	2.6
10°-20°	1138.7	7.6
20°-30°	1732.3	11.5
30°-40°	2106.3	14.0
40°-50°	2228.4	14.8
50°-60°	2088.8	13.9
60°-70°	1718.4	11.4
70°-80°	1189.0	7.9
80°-90°	661.1	4.4
90°-100°	435.6	2.9
100°-110°	390.6	2.6
110°-120°	323.3	2.2
120°-130°	249.9	1.7
130°-140°	176.9	1.2
140°-150°	106.7	0.7
150°-160°	51.3	0.3
160°-170°	16.8	0.1
170°-180°	2.0	0.0
0°-30°	3266.8	21.8
0°-40°	5373.1	35.8
0°-60°	9690.3	64.6
0°-90°	13258.9	88.3
90°-120°	1149.5	7.7
90°-150°	1683.0	11.2
90°-180°	1753.0	11.7
0°-180°	15012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4170	4170	4170	4170	4170	
5°	4180	4172	4136	4170	4160	397
15°	4005	4018	4016	4070	4070	1129
25°	3656	3707	3751	3833	3836	1685
35°	3177	3262	3373	3481	3512	1989
45°	2612	2748	2915	3046	3082	2013
55°	1987	2165	2373	2522	2573	1779
65°	1344	1537	1776	1951	2005	1333
75°	699	902	1167	1352	1427	742
85°	154	383	648	828	900	178
90°	3	216	458	630	692	10
95°	3	206	445	609	668	2
105°	3	177	416	573	625	3
115°	5	154	352	509	566	4
125°	5	131	301	434	488	5
135°	5	103	252	357	401	4
145°	5	75	175	270	303	3
155°	8	51	108	172	200	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°	4169.8	4169.8	4169.8	4169.8	4169.8
2.5°	4198.0	4185.2	4141.5	4169.8	4156.9
5°	4180.0	4172.3	4136.3	4169.8	4159.5
7.5°	4151.8	4149.2	4120.9	4159.5	4149.2
10°	4113.2	4118.3	4095.2	4136.3	4128.6
12.5°	4064.4	4072.1	4061.8	4108.1	4102.9
15°	4005.2	4018.1	4015.5	4069.5	4069.5
17.5°	3933.2	3951.2	3961.5	4023.2	4023.2
20°	3848.4	3876.7	3897.3	3964.1	3974.4
22.5°	3763.6	3797.0	3827.8	3897.3	3912.7
25°	3655.6	3707.0	3750.7	3833.0	3835.6
27.5°	3550.2	3606.8	3665.9	3745.6	3753.3
30°	3434.5	3506.5	3578.5	3655.6	3678.7
32.5°	3311.1	3390.8	3470.5	3573.3	3604.2
35°	3177.4	3262.3	3372.8	3480.8	3511.6
37.5°	3043.8	3138.9	3267.4	3378.0	3406.2
40°	2907.5	3012.9	3156.9	3270.0	3303.4
42.5°	2755.8	2884.4	3038.6	3159.4	3198.0
45°	2611.9	2748.1	2915.2	3046.3	3082.3
47.5°	2460.2	2604.2	2784.1	2922.9	2964.1
50°	2298.2	2462.8	2655.6	2794.4	2833.0
52.5°	2146.6	2313.7	2516.8	2660.7	2714.7
55°	1987.2	2164.6	2372.8	2521.9	2573.3
57.5°	1838.1	2007.8	2231.4	2380.5	2444.8
60°	1668.4	1856.1	2079.7	2241.7	2293.1
62.5°	1509.0	1699.3	1930.6	2097.7	2156.9
65°	1344.5	1537.3	1776.4	1951.2	2005.2
67.5°	1190.3	1380.5	1624.7	1797.0	1866.4
70°	1020.6	1221.1	1470.5	1647.8	1707.0
72.5°	853.5	1061.7	1316.2	1506.5	1573.3
75°	699.2	902.3	1167.1	1352.2	1426.8
77.5°	550.1	755.8	1023.2	1213.4	1277.7
80°	401.0	617.0	889.5	1077.1	1138.8
82.5°	264.8	491.0	760.9	948.6	1015.4
85°	154.2	383.0	647.8	827.8	899.8
87.5°	66.8	290.5	542.4	719.8	778.9
90°	2.6	215.9	457.6	629.8	691.5
92.5°	2.6	210.8	447.3	617.0	676.1
95°	2.6	205.7	444.7	609.3	668.4
97.5°	2.6	203.1	439.6	604.1	660.7
100°	2.6	195.4	431.9	593.8	650.4
102.5°	2.6	185.1	424.2	583.6	637.5
105°	2.6	177.4	416.5	573.3	624.7
107.5°	2.6	169.7	403.6	560.4	611.8
110°	2.6	162.0	383.0	547.6	599.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	159.4	367.6	529.6	583.6
115°	5.1	154.2	352.2	509.0	565.6
117.5°	5.1	151.7	339.3	488.4	547.6
120°	5.1	144.0	326.5	470.4	527.0
122.5°	5.1	136.2	313.6	452.5	509.0
125°	5.1	131.1	300.8	434.5	488.4
127.5°	5.1	123.4	290.5	416.5	465.3
130°	5.1	118.3	277.6	395.9	444.7
132.5°	5.1	110.5	264.8	375.3	421.6
135°	5.1	102.8	251.9	357.3	401.0
137.5°	5.1	92.5	236.5	336.8	377.9
140°	5.1	84.8	215.9	316.2	354.8
142.5°	5.1	79.7	195.4	293.1	329.1
145°	5.1	74.6	174.8	269.9	303.3
147.5°	5.1	69.4	156.8	246.8	277.6
150°	5.1	61.7	138.8	226.2	251.9
152.5°	7.7	56.6	123.4	200.5	226.2
155°	7.7	51.4	108.0	172.2	200.5
157.5°	7.7	46.3	92.5	144.0	174.8
160°	7.7	41.1	79.7	118.3	149.1
162.5°	7.7	38.6	69.4	97.7	126.0
165°	7.7	33.4	59.1	79.7	102.8
167.5°	7.7	25.7	48.8	61.7	84.8
170°	7.7	20.6	38.6	43.7	64.3
172.5°	7.7	15.4	28.3	30.8	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)