

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: P567668

Luminaire Tested: **8SNX-186HL-SLW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567668
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-SLW-UNV-L840-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

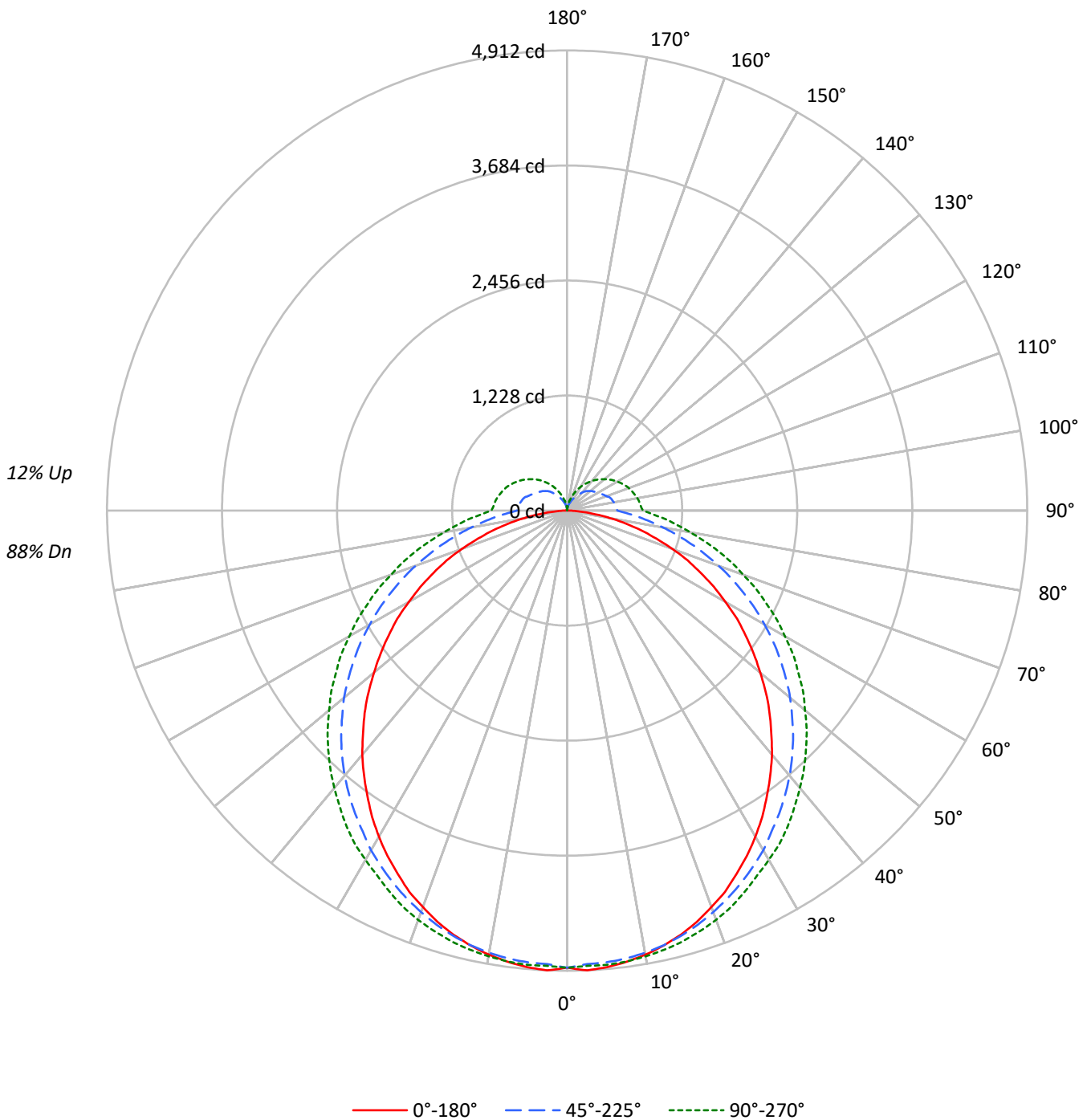
Lumens per Lamp: N/A
Luminaire Lumens: 17567.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

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°	26261	26261	26261
5°	26402	25607	25554
10°	26257	25117	24943
15°	26042	24586	24366
20°	25696	24005	23765
25°	25281	23420	23080
30°	24828	22832	22450
35°	24253	22173	21906
40°	23698	21572	21241
45°	23024	20904	20610
50°	22243	20193	19888
55°	21501	19360	19167
60°	20644	18457	18339
65°	19600	17425	17455
70°	18272	16261	16438
75°	16382	14920	15506
80°	13737	13595	14328
85°	9964	12427	13560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.2	2.6
10°-20°	1332.5	7.6
20°-30°	2027.1	11.5
30°-40°	2464.8	14.0
40°-50°	2607.7	14.8
50°-60°	2444.3	13.9
60°-70°	2010.9	11.4
70°-80°	1391.4	7.9
80°-90°	773.7	4.4
90°-100°	509.7	2.9
100°-110°	457.1	2.6
110°-120°	378.3	2.2
120°-130°	292.5	1.7
130°-140°	207.0	1.2
140°-150°	124.9	0.7
150°-160°	60.0	0.3
160°-170°	19.6	0.1
170°-180°	2.4	0.0
0°-30°	3822.8	21.8
0°-40°	6287.6	35.8
0°-60°	11339.6	64.6
0°-90°	15515.5	88.3
90°-120°	1345.1	7.7
90°-150°	1969.5	11.2
90°-180°	2051.0	11.7
0°-180°	17567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4879	4879	4879	4879	4879	
5°	4892	4882	4840	4879	4867	464
15°	4687	4702	4699	4762	4762	1321
25°	4278	4338	4389	4485	4488	1972
35°	3718	3818	3947	4073	4109	2327
45°	3056	3216	3411	3565	3607	2356
55°	2325	2533	2777	2951	3011	2082
65°	1573	1799	2079	2283	2346	1560
75°	818	1056	1366	1582	1670	868
85°	180	448	758	969	1053	208
90°	3	253	536	737	809	12
95°	3	241	520	713	782	2
105°	3	208	487	671	731	3
115°	6	180	412	596	662	5
125°	6	153	352	508	572	5
135°	6	120	295	418	469	5
145°	6	87	205	316	355	4
155°	9	60	126	202	235	4
165°	9	39	69	93	120	3
175°	9	15	21	21	12	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4879.4	4879.4	4879.4	4879.4	4879.4
2.5°	4912.5	4897.5	4846.3	4879.4	4864.4
5°	4891.5	4882.4	4840.3	4879.4	4867.4
7.5°	4858.4	4855.4	4822.3	4867.4	4855.4
10°	4813.3	4819.3	4792.2	4840.3	4831.3
12.5°	4756.1	4765.1	4753.1	4807.2	4801.2
15°	4686.9	4701.9	4698.9	4762.1	4762.1
17.5°	4602.7	4623.7	4635.8	4708.0	4708.0
20°	4503.4	4536.5	4560.6	4638.8	4650.8
22.5°	4404.1	4443.2	4479.3	4560.6	4578.6
25°	4277.8	4337.9	4389.1	4485.3	4488.4
27.5°	4154.4	4220.6	4289.8	4383.1	4392.1
30°	4019.1	4103.3	4187.5	4277.8	4304.9
32.5°	3874.7	3967.9	4061.2	4181.5	4217.6
35°	3718.2	3817.5	3946.9	4073.2	4109.3
37.5°	3561.8	3673.1	3823.5	3952.9	3986.0
40°	3402.4	3525.7	3694.2	3826.5	3865.6
42.5°	3224.9	3375.3	3555.8	3697.2	3742.3
45°	3056.4	3215.9	3411.4	3564.8	3606.9
47.5°	2878.9	3047.4	3258.0	3420.4	3468.5
50°	2689.4	2881.9	3107.6	3270.0	3315.1
52.5°	2511.9	2707.5	2945.1	3113.6	3176.7
55°	2325.4	2533.0	2776.6	2951.1	3011.3
57.5°	2150.9	2349.5	2611.2	2785.7	2860.9
60°	1952.4	2172.0	2433.7	2623.2	2683.4
62.5°	1765.9	1988.5	2259.2	2454.8	2523.9
65°	1573.3	1799.0	2078.7	2283.3	2346.5
67.5°	1392.8	1615.4	1901.2	2102.8	2184.0
70°	1194.3	1428.9	1720.7	1928.3	1997.5
72.5°	998.7	1242.4	1540.2	1762.9	1841.1
75°	818.3	1055.9	1365.8	1582.4	1669.6
77.5°	643.8	884.4	1197.3	1419.9	1495.1
80°	469.3	722.0	1040.9	1260.5	1332.7
82.5°	309.9	574.6	890.5	1110.1	1188.3
85°	180.5	448.2	758.1	968.7	1052.9
87.5°	78.2	339.9	634.7	842.3	911.5
90°	3.0	252.7	535.5	737.0	809.2
92.5°	3.0	246.7	523.4	722.0	791.2
95°	3.0	240.7	520.4	713.0	782.2
97.5°	3.0	237.7	514.4	706.9	773.1
100°	3.0	228.6	505.4	694.9	761.1
102.5°	3.0	216.6	496.4	682.9	746.1
105°	3.0	207.6	487.3	670.8	731.0
107.5°	3.0	198.5	472.3	655.8	716.0
110°	3.0	189.5	448.2	640.8	700.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.0	186.5	430.2	619.7	682.9
115°	6.0	180.5	412.1	595.6	661.8
117.5°	6.0	177.5	397.1	571.6	640.8
120°	6.0	168.5	382.1	550.5	616.7
122.5°	6.0	159.4	367.0	529.5	595.6
125°	6.0	153.4	352.0	508.4	571.6
127.5°	6.0	144.4	339.9	487.3	544.5
130°	6.0	138.4	324.9	463.3	520.4
132.5°	6.0	129.4	309.9	439.2	493.4
135°	6.0	120.3	294.8	418.2	469.3
137.5°	6.0	108.3	276.8	394.1	442.2
140°	6.0	99.3	252.7	370.0	415.1
142.5°	6.0	93.3	228.6	342.9	385.1
145°	6.0	87.2	204.6	315.9	355.0
147.5°	6.0	81.2	183.5	288.8	324.9
150°	6.0	72.2	162.4	264.7	294.8
152.5°	9.0	66.2	144.4	234.6	264.7
155°	9.0	60.2	126.3	201.6	234.6
157.5°	9.0	54.1	108.3	168.5	204.6
160°	9.0	48.1	93.3	138.4	174.5
162.5°	9.0	45.1	81.2	114.3	147.4
165°	9.0	39.1	69.2	93.3	120.3
167.5°	9.0	30.1	57.2	72.2	99.3
170°	9.0	24.1	45.1	51.1	75.2
172.5°	9.0	18.0	33.1	36.1	39.1
175°	9.0	15.0	21.1	21.1	12.0
177.5°	9.0	12.0	12.0	12.0	6.0
180°	6.0	6.0	6.0	6.0	6.0

(END OF REPORT)