

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: P567650

Luminaire Tested: **8SNX-186HL-LN-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-186HL-LN-UNV-L830-CD
Description: 8FT 18600 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

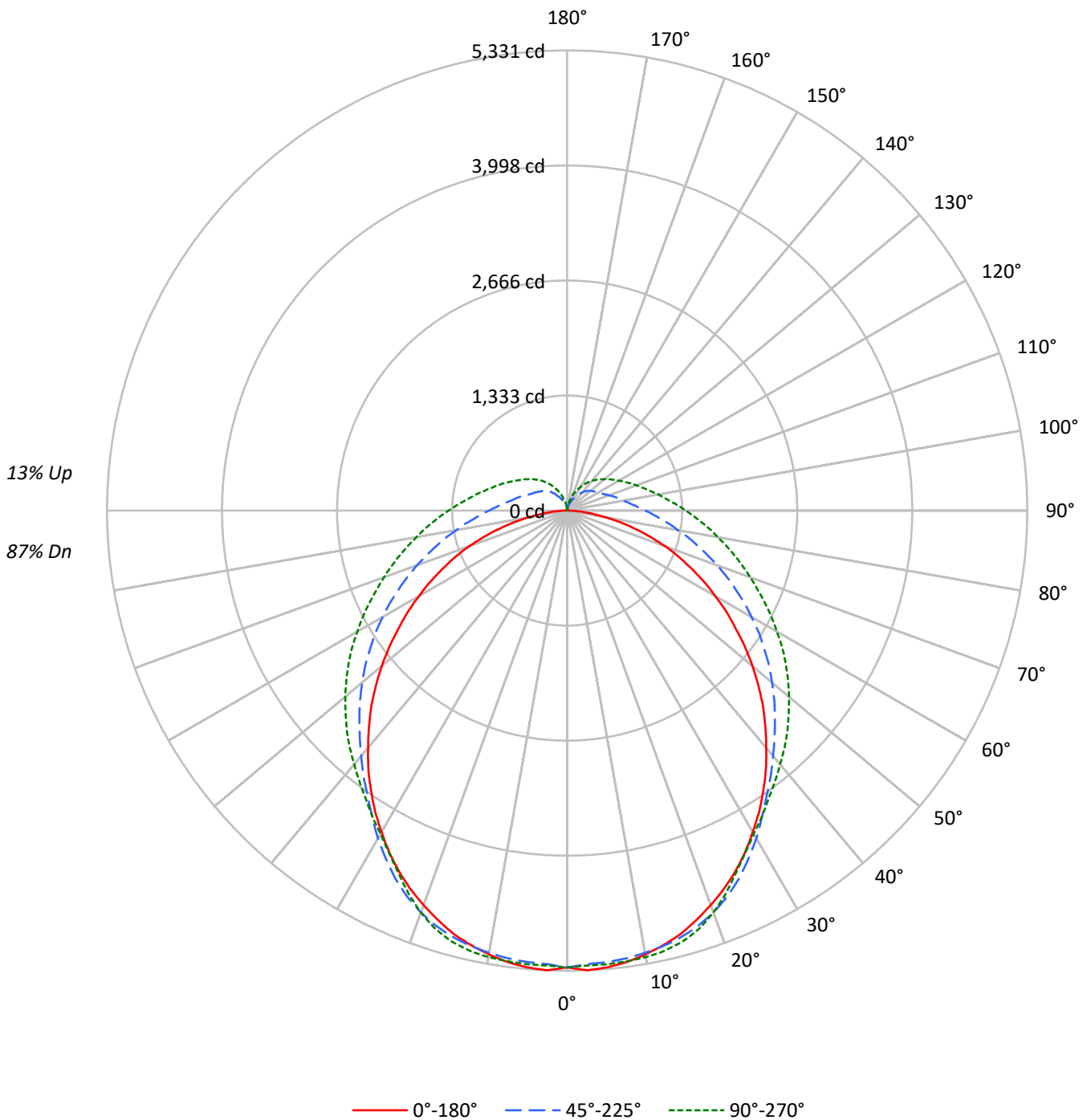
Lumens per Lamp: N/A
Luminaire Lumens: 19102.9 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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

TEST NUMBER: P567650

CATALOG NUMBER: 8SNX-186HL-LN-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567650

CATALOG NUMBER: 8SNX-186HL-LN-UNV-L830-CD

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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28481	28481	28481
5°	28642	27205	26931
10°	28426	26180	25688
15°	28137	25209	24435
20°	27650	24113	22838
25°	27123	22780	20965
30°	26410	21279	19401
35°	25649	19748	18234
40°	24778	18520	17291
45°	23930	17432	16476
50°	22914	16431	15655
55°	21719	15425	14851
60°	20591	14421	14010
65°	19345	13407	13240
70°	17932	12458	12544
75°	15684	11534	11970
80°	12748	10740	11484
85°	9207	10188	11205



TEST NUMBER: P567650

CATALOG NUMBER: 8SNX-186HL-LN-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.7	2.6
10°-20°	1445.4	7.6
20°-30°	2152.3	11.3
30°-40°	2539.6	13.3
40°-50°	2648.5	13.9
50°-60°	2488.9	13.0
60°-70°	2101.9	11.0
70°-80°	1588.1	8.3
80°-90°	1094.7	5.7
90°-100°	766.1	4.0
100°-110°	571.7	3.0
110°-120°	431.0	2.3
120°-130°	321.4	1.7
130°-140°	225.6	1.2
140°-150°	136.4	0.7
150°-160°	65.2	0.3
160°-170°	20.9	0.1
170°-180°	2.5	0.0
0°-30°	4100.4	21.5
0°-40°	6640.0	34.8
0°-60°	11777.4	61.7
0°-90°	16562.2	86.7
90°-120°	1768.7	9.3
90°-150°	2452.2	12.8
90°-180°	2541.0	13.3
0°-180°	19102.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5292	5292	5292	5292	5292	
5°	5311	5302	5250	5289	5276	504
15°	5078	5101	5114	5178	5169	1430
25°	4612	4706	4706	4664	4628	2122
35°	3961	4107	4029	4061	4071	2477
45°	3210	3368	3404	3543	3608	2472
55°	2384	2588	2785	3009	3090	2139
65°	1587	1840	2150	2432	2526	1576
75°	813	1127	1561	1888	2008	866
85°	185	580	1082	1438	1564	207
90°	3	411	904	1250	1373	13
95°	3	321	764	1095	1208	3
105°	6	230	589	855	952	6
115°	6	198	457	680	768	7
125°	10	168	385	557	628	9
135°	10	130	321	453	508	8
145°	13	94	224	346	389	7
155°	13	62	136	220	256	6
165°	16	39	71	97	130	4
175°	16	16	19	19	10	2
180°	10	10	10	10	10	



TEST NUMBER: P567650

CATALOG NUMBER: 8SNX-186HL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5291.9	5291.9	5291.9	5291.9	5291.9
2.5°	5330.7	5317.8	5259.5	5291.9	5275.7
5°	5311.3	5301.6	5249.8	5288.6	5275.7
7.5°	5275.7	5272.5	5233.6	5278.9	5266.0
10°	5220.6	5230.4	5201.2	5262.7	5253.0
12.5°	5155.9	5175.3	5165.6	5233.6	5223.9
15°	5078.1	5100.8	5113.8	5178.5	5168.8
17.5°	4974.5	5016.6	5045.8	5097.6	5081.4
20°	4864.4	4922.7	4955.1	4981.0	4955.1
22.5°	4744.6	4822.3	4841.7	4828.8	4802.9
25°	4611.8	4705.7	4705.7	4663.6	4628.0
27.5°	4462.8	4579.4	4547.0	4498.4	4469.3
30°	4300.9	4440.1	4385.1	4330.0	4323.5
32.5°	4138.9	4284.7	4203.7	4190.8	4200.5
35°	3960.8	4106.6	4028.8	4061.2	4070.9
37.5°	3782.7	3928.4	3876.6	3925.2	3954.3
40°	3588.4	3743.8	3711.4	3798.9	3837.8
42.5°	3397.3	3559.2	3556.0	3669.3	3727.6
45°	3209.5	3368.2	3403.8	3543.0	3607.8
47.5°	3005.4	3167.4	3254.8	3416.7	3481.5
50°	2804.6	2979.5	3099.3	3280.7	3355.2
52.5°	2597.4	2782.0	2947.1	3147.9	3225.7
55°	2383.6	2587.6	2785.2	3008.7	3089.6
57.5°	2192.5	2399.8	2633.0	2862.9	2956.8
60°	1982.0	2212.0	2467.8	2710.7	2804.6
62.5°	1791.0	2027.4	2312.4	2568.2	2668.6
65°	1586.9	1839.5	2150.4	2432.2	2526.1
67.5°	1399.1	1658.2	1998.2	2283.2	2386.9
70°	1204.8	1480.0	1849.2	2150.4	2257.3
72.5°	1004.0	1295.4	1700.3	2020.9	2131.0
75°	812.9	1127.0	1561.0	1888.1	2007.9
77.5°	634.8	965.1	1434.7	1771.5	1888.1
80°	459.9	819.4	1301.9	1651.7	1771.5
82.5°	304.4	693.1	1195.0	1544.8	1671.1
85°	184.6	579.7	1081.7	1437.9	1564.2
87.5°	84.2	485.8	991.0	1344.0	1467.1
90°	3.2	411.3	903.6	1250.1	1373.2
92.5°	3.2	359.5	832.3	1169.1	1289.0
95°	3.2	320.6	764.3	1094.6	1208.0
97.5°	3.2	294.7	712.5	1023.4	1133.5
100°	3.2	268.8	660.7	958.6	1072.0
102.5°	6.5	246.1	621.8	900.3	1007.2
105°	6.5	229.9	589.4	855.0	952.2
107.5°	6.5	220.2	553.8	809.7	900.3
110°	6.5	210.5	514.9	764.3	855.0



TEST NUMBER: P567650

CATALOG NUMBER: 8SNX-186HL-LN-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.5	204.0	485.8	725.4	812.9
115°	6.5	197.6	456.6	680.1	767.6
117.5°	6.5	194.3	440.5	644.5	728.7
120°	9.7	184.6	421.0	612.1	693.1
122.5°	9.7	174.9	401.6	586.2	657.4
125°	9.7	168.4	385.4	557.0	628.3
127.5°	9.7	158.7	369.2	531.1	595.9
130°	9.7	149.0	356.2	505.2	566.8
132.5°	9.7	139.3	340.1	479.3	537.6
135°	9.7	129.5	320.6	453.4	508.5
137.5°	9.7	119.8	301.2	427.5	479.3
140°	9.7	110.1	275.3	401.6	450.2
142.5°	9.7	100.4	249.4	375.7	417.8
145°	13.0	93.9	223.5	346.5	388.6
147.5°	13.0	84.2	197.6	317.4	353.0
150°	13.0	77.7	178.1	288.2	320.6
152.5°	13.0	68.0	158.7	255.9	288.2
155°	13.0	61.5	136.0	220.2	255.9
157.5°	13.0	55.1	116.6	184.6	223.5
160°	13.0	51.8	100.4	152.2	191.1
162.5°	16.2	45.3	84.2	123.1	158.7
165°	16.2	38.9	71.2	97.2	129.5
167.5°	16.2	32.4	58.3	74.5	100.4
170°	16.2	25.9	45.3	51.8	77.7
172.5°	16.2	19.4	32.4	35.6	38.9
175°	16.2	16.2	19.4	19.4	9.7
177.5°	16.2	16.2	13.0	9.7	3.2
180°	9.7	9.7	9.7	9.7	9.7

(END OF REPORT)