

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: P567596

Luminaire Tested: **8SNX-180HL-LC-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567596
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-180HL-LC-UNV-L840-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

Summary

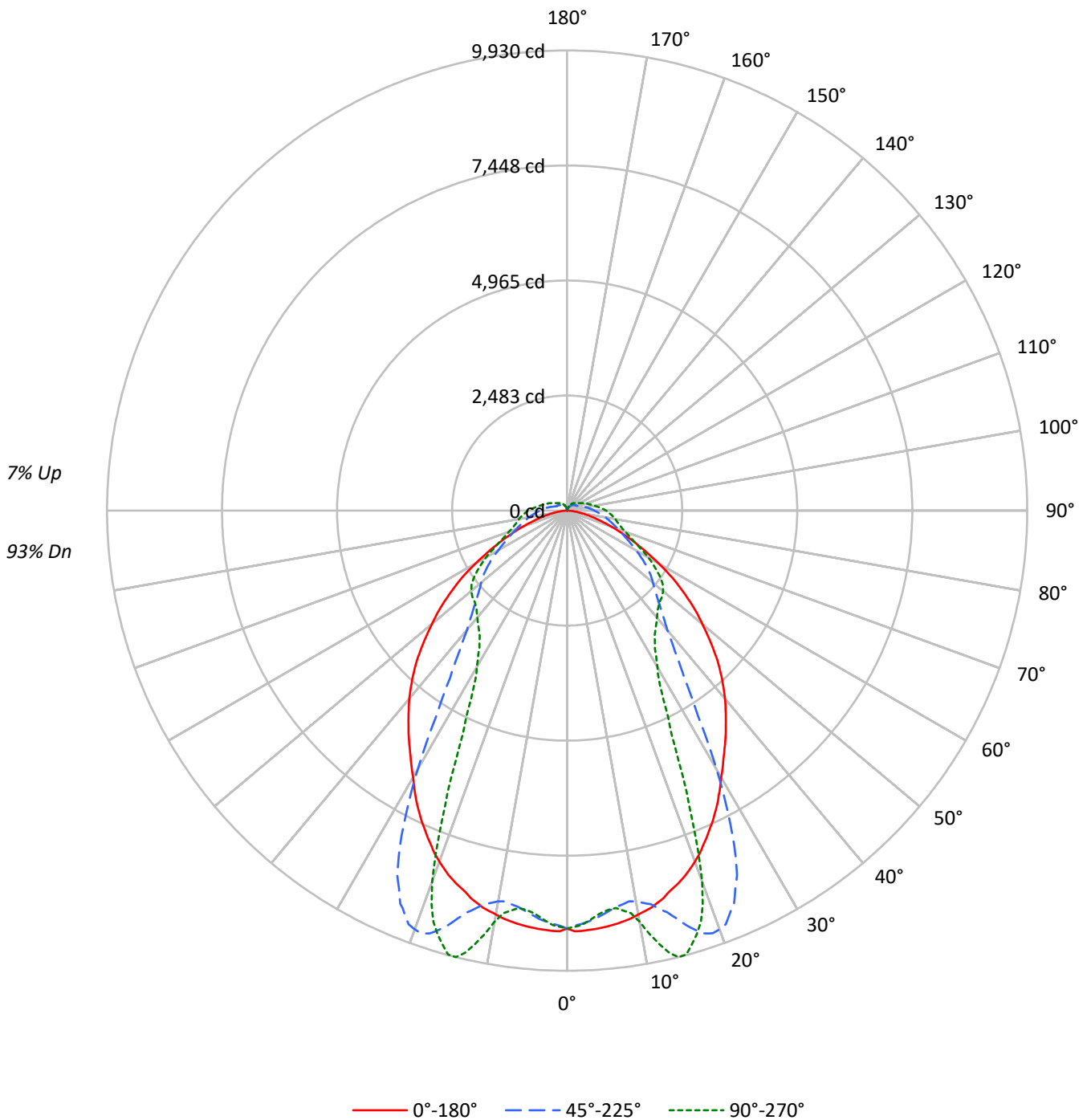
Lumens per Lamp: N/A
Luminaire Lumens: 20043.0 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.89 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 128.8
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°	48537	48537	48537
5°	48682	45354	44428
10°	48189	43115	44056
15°	47155	44895	46900
20°	45818	46805	39252
25°	43608	41998	24135
30°	40834	31288	17467
35°	38583	21600	14735
40°	36577	16767	13580
45°	34225	14278	12843
50°	31127	12816	12607
55°	27856	11592	11664
60°	23622	10032	10089
65°	19212	8739	8421
70°	15076	7855	7414
75°	11690	7303	6914
80°	8227	6917	6844
85°	4578	6600	6796



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.2	4.2
10°-20°	2564.2	12.8
20°-30°	3452.8	17.2
30°-40°	3267.7	16.3
40°-50°	2884.2	14.4
50°-60°	2342.6	11.7
60°-70°	1593.3	7.9
70°-80°	1025.2	5.1
80°-90°	681.7	3.4
90°-100°	468.5	2.3
100°-110°	314.5	1.6
110°-120°	221.8	1.1
120°-130°	158.5	0.8
130°-140°	111.8	0.6
140°-150°	69.4	0.3
150°-160°	33.9	0.2
160°-170°	11.9	0.1
170°-180°	2.1	0.0
0°-30°	6856.2	34.2
0°-40°	10123.9	50.5
0°-60°	15350.7	76.6
0°-90°	18650.8	93.1
90°-120°	1004.7	5.0
90°-150°	1344.4	6.7
90°-180°	1392.0	6.9
0°-180°	20043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9018	9018	9018	9018	9018	
5°	9028	8945	8752	8746	8703	856
15°	8510	8455	9107	9912	9921	2399
25°	7415	8792	8676	6301	5328	3403
35°	5958	8360	4407	3394	3290	3728
45°	4590	5625	2788	2754	2812	3524
55°	3057	3326	2093	2338	2427	2730
65°	1576	1793	1402	1558	1607	1582
75°	606	848	988	1108	1160	659
85°	92	361	701	888	949	120
90°	3	251	584	786	838	5
95°	3	193	493	667	713	3
105°	6	135	324	456	511	6
115°	6	116	239	340	382	7
125°	9	98	205	257	275	9
135°	12	76	168	214	226	9
145°	12	55	119	165	181	8
155°	15	34	73	110	126	7
165°	15	21	40	55	67	5
175°	18	18	18	18	15	2
180°	15	15	15	15	15	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9018.4	9018.4	9018.4	9018.4	9018.4
1°	9079.6	9052.0	8960.2	9009.2	8984.7
2°	9076.5	9030.6	8926.6	8981.6	8951.0
3°	9061.2	9012.2	8877.6	8911.3	8865.4
4°	9045.9	8987.8	8825.6	8825.6	8773.5
5°	9027.5	8944.9	8752.1	8746.0	8703.2
6°	9006.1	8911.3	8687.9	8681.7	8657.3
7°	8975.5	8853.1	8617.5	8660.3	8642.0
8°	8938.8	8798.0	8580.8	8687.9	8715.4
9°	8905.1	8730.7	8537.9	8773.5	8795.0
10°	8850.1	8669.5	8565.5	8944.9	9009.2
11°	8804.1	8617.5	8626.7	9113.2	9306.0
12°	8758.2	8562.4	8684.8	9324.4	9560.0
13°	8681.7	8519.6	8813.3	9553.9	9795.6
14°	8614.4	8485.9	8938.8	9786.5	9930.3
15°	8510.4	8455.3	9107.1	9911.9	9921.1
16°	8440.0	8433.9	9303.0	9921.1	9749.7
17°	8360.4	8424.7	9462.1	9762.0	9560.0
18°	8271.7	8443.0	9593.7	9563.1	9330.5
19°	8170.7	8461.4	9648.8	9287.7	8987.8
20°	8060.5	8489.0	9618.2	9000.0	8516.5
21°	7950.4	8525.7	9560.0	8697.0	7898.3
22.5°	7745.3	8614.4	9284.6	7846.3	6876.2
23°	7687.2	8632.8	9220.3	7580.1	6610.0
24°	7543.4	8709.3	8926.6	6958.9	5906.2
25°	7414.8	8791.9	8675.6	6300.9	5327.8
26°	7271.0	8853.1	8296.2	5695.0	4972.8
27°	7130.2	8889.8	7864.7	5223.7	4575.0
28°	6968.0	8929.6	7396.5	4816.7	4275.1
29°	6815.0	8935.7	6934.4	4492.4	4039.4
30°	6649.8	8905.1	6447.8	4232.2	3892.6
32.5°	6288.7	8736.8	5257.4	3736.5	3525.3
35°	5958.2	8360.4	4406.7	3393.7	3289.7
37.5°	5624.6	7766.7	3809.9	3179.5	3145.9
40°	5297.2	7062.9	3360.1	3008.2	3014.3
42.5°	4951.4	6337.6	3051.0	2867.4	2894.9
45°	4590.3	5624.6	2787.8	2754.2	2812.3
47.5°	4189.4	4972.8	2579.7	2680.7	2769.5
50°	3809.9	4327.1	2417.5	2610.3	2702.1
52.5°	3448.8	3797.7	2270.7	2491.0	2598.1
55°	3057.1	3326.4	2093.2	2338.0	2426.7
57.5°	2683.8	2901.1	1906.5	2148.2	2227.8
60°	2273.7	2481.8	1716.8	1943.2	2019.7
62.5°	1903.4	2123.8	1554.6	1738.2	1799.4
65°	1576.0	1793.3	1401.6	1557.6	1606.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1285.3	1517.9	1276.1	1407.7	1453.6
70°	1012.9	1257.7	1165.9	1285.3	1334.2
72.5°	792.6	1040.5	1074.1	1184.3	1233.3
75°	605.9	847.7	988.4	1107.8	1159.8
77.5°	449.8	691.6	908.9	1046.6	1101.7
80°	296.8	550.8	838.5	991.5	1055.8
82.5°	186.7	443.7	768.1	936.4	1003.7
85°	91.8	361.1	700.8	887.5	948.7
87.5°	30.6	299.9	639.6	838.5	890.5
90°	3.1	250.9	584.5	786.5	838.5
92.5°	3.1	217.3	538.6	725.3	777.3
95°	3.1	192.8	492.7	667.1	713.0
97.5°	3.1	174.4	449.8	605.9	654.9
100°	3.1	156.1	403.9	547.8	599.8
102.5°	6.1	143.8	364.2	498.8	553.9
105°	6.1	134.6	324.4	456.0	511.1
107.5°	6.1	128.5	290.7	422.3	474.3
110°	6.1	122.4	266.2	391.7	446.8
112.5°	6.1	119.3	250.9	364.2	416.2
115°	6.1	116.3	238.7	339.7	382.5
117.5°	9.2	113.2	229.5	315.2	348.9
120°	9.2	107.1	223.4	293.8	321.3
122.5°	9.2	101.0	214.2	275.4	296.8
125°	9.2	97.9	205.0	257.1	275.4
127.5°	9.2	91.8	195.9	241.8	260.1
130°	12.2	85.7	186.7	229.5	244.8
132.5°	12.2	79.6	177.5	223.4	235.6
135°	12.2	76.5	168.3	214.2	226.5
137.5°	12.2	70.4	159.1	205.0	217.3
140°	12.2	64.3	146.9	192.8	205.0
142.5°	12.2	61.2	134.6	180.6	192.8
145°	12.2	55.1	119.3	165.2	180.6
147.5°	15.3	52.0	107.1	153.0	165.2
150°	15.3	45.9	94.9	140.8	153.0
152.5°	15.3	39.8	82.6	125.5	137.7
155°	15.3	33.7	73.4	110.2	125.5
157.5°	15.3	30.6	64.3	91.8	110.2
160°	15.3	27.5	55.1	79.6	94.9
162.5°	15.3	24.5	49.0	67.3	82.6
165°	15.3	21.4	39.8	55.1	67.3
167.5°	18.4	21.4	33.7	42.8	55.1
170°	18.4	21.4	27.5	33.7	42.8
172.5°	18.4	18.4	21.4	24.5	27.5
175°	18.4	18.4	18.4	18.4	15.3
177.5°	18.4	18.4	18.4	15.3	15.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	15.3	15.3	15.3	15.3	15.3

(END OF REPORT)