

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: P567619

Luminaire Tested: **8SNX-180HL-SLW-UNV-L835-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567619  
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-180HL-SLW-UNV-L835-CD  
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS  
Light Source: -  
Ballast/Driver: -

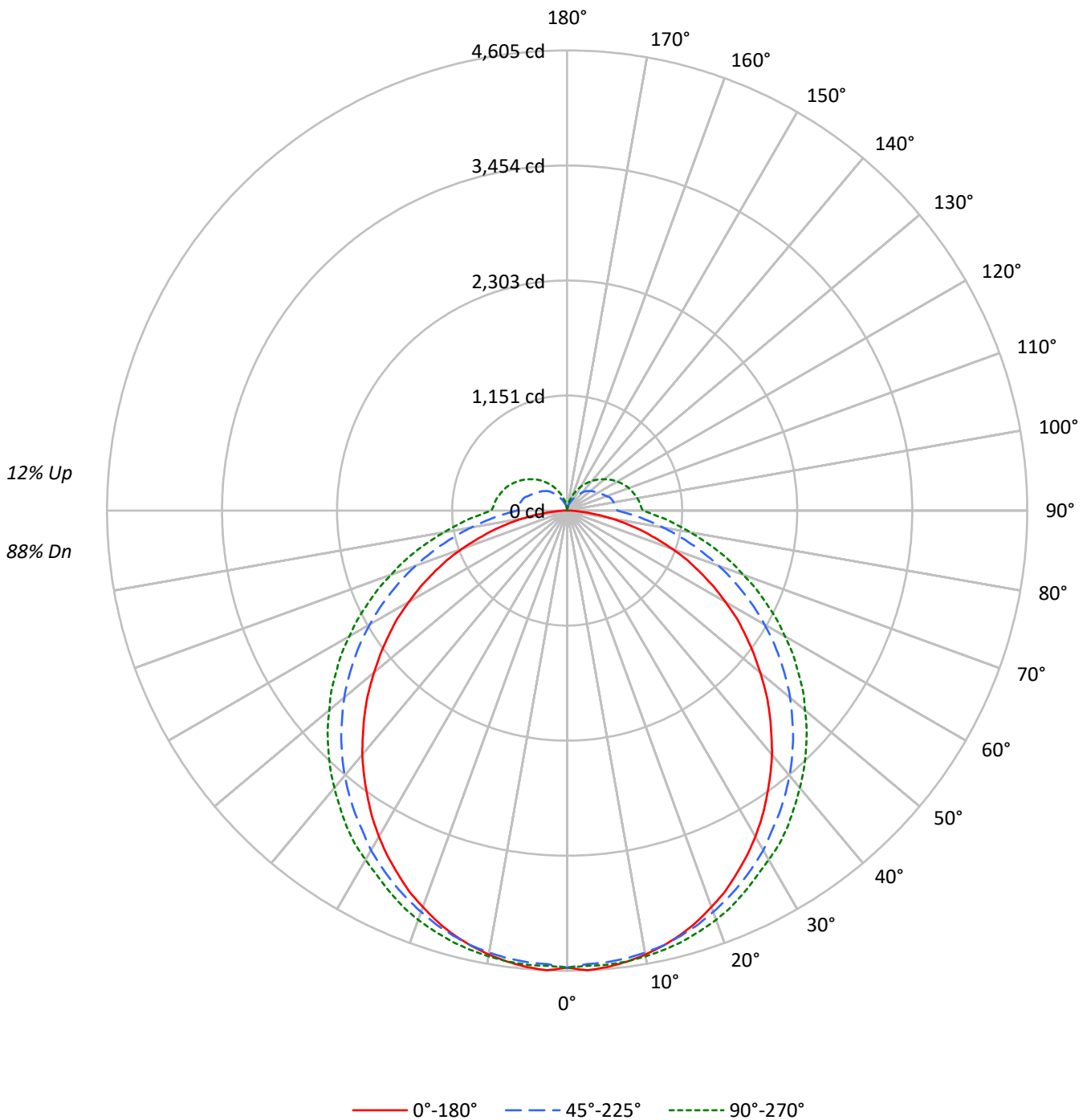
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16467.0 lumens  
Efficiency: N/A  
Efficacy: 127.8 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): 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	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°	24617	24617	24617
5°	24749	24004	23954
10°	24612	23544	23381
15°	24411	23047	22840
20°	24087	22502	22277
25°	23697	21954	21635
30°	23273	21402	21044
35°	22734	20784	20535
40°	22214	20221	19911
45°	21582	19595	19320
50°	20850	18929	18642
55°	20155	18148	17967
60°	19351	17301	17190
65°	18373	16335	16361
70°	17128	15243	15409
75°	15355	13985	14535
80°	12876	12744	13430
85°	9341	11648	12711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.2	2.6
10°-20°	1249.1	7.6
20°-30°	1900.2	11.5
30°-40°	2310.4	14.0
40°-50°	2444.4	14.8
50°-60°	2291.3	13.9
60°-70°	1885.0	11.4
70°-80°	1304.2	7.9
80°-90°	725.2	4.4
90°-100°	477.8	2.9
100°-110°	428.4	2.6
110°-120°	354.6	2.2
120°-130°	274.1	1.7
130°-140°	194.1	1.2
140°-150°	117.1	0.7
150°-160°	56.2	0.3
160°-170°	18.4	0.1
170°-180°	2.2	0.0
0°-30°	3583.5	21.8
0°-40°	5893.9	35.8
0°-60°	10629.6	64.6
0°-90°	14544.0	88.3
90°-120°	1260.8	7.7
90°-150°	1846.1	11.2
90°-180°	1923.0	11.7
0°-180°	16467.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4574	4574	4574	4574	4574	
5°	4585	4577	4537	4574	4563	435
15°	4393	4408	4405	4464	4464	1238
25°	4010	4066	4114	4204	4207	1848
35°	3485	3578	3700	3818	3852	2181
45°	2865	3014	3198	3342	3381	2208
55°	2180	2374	2603	2766	2823	1951
65°	1475	1686	1949	2140	2200	1462
75°	767	990	1280	1483	1565	814
85°	169	420	711	908	987	195
90°	3	237	502	691	759	11
95°	3	226	488	668	733	2
105°	3	195	457	629	685	3
115°	6	169	386	558	620	4
125°	6	144	330	477	536	5
135°	6	113	276	392	440	4
145°	6	82	192	296	333	4
155°	8	56	118	189	220	4
165°	8	37	65	87	113	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4573.9	4573.9	4573.9	4573.9	4573.9
2.5°	4604.9	4590.8	4542.9	4573.9	4559.8
5°	4585.2	4576.7	4537.2	4573.9	4562.6
7.5°	4554.2	4551.3	4520.3	4562.6	4551.3
10°	4511.9	4517.5	4492.1	4537.2	4528.8
12.5°	4458.3	4466.7	4455.5	4506.2	4500.6
15°	4393.4	4407.5	4404.7	4463.9	4463.9
17.5°	4314.5	4334.2	4345.5	4413.2	4413.2
20°	4221.4	4252.4	4275.0	4348.3	4359.6
22.5°	4128.3	4165.0	4198.8	4275.0	4291.9
25°	4009.9	4066.3	4114.3	4204.5	4207.3
27.5°	3894.3	3956.3	4021.2	4108.6	4117.1
30°	3767.4	3846.4	3925.3	4009.9	4035.3
32.5°	3632.0	3719.5	3806.9	3919.7	3953.5
35°	3485.4	3578.5	3699.7	3818.2	3852.0
37.5°	3338.8	3443.1	3584.1	3705.4	3736.4
40°	3189.3	3304.9	3462.9	3586.9	3623.6
42.5°	3022.9	3163.9	3333.1	3465.7	3508.0
45°	2865.0	3014.5	3197.8	3341.6	3381.1
47.5°	2698.7	2856.6	3054.0	3206.2	3251.4
50°	2521.0	2701.5	2913.0	3065.2	3107.5
52.5°	2354.6	2537.9	2760.7	2918.6	2977.8
55°	2179.8	2374.4	2602.8	2766.3	2822.7
57.5°	2016.2	2202.4	2447.7	2611.2	2681.7
60°	1830.1	2036.0	2281.3	2459.0	2515.4
62.5°	1655.3	1864.0	2117.8	2301.0	2365.9
65°	1474.8	1686.3	1948.6	2140.3	2199.5
67.5°	1305.6	1514.3	1782.2	1971.1	2047.3
70°	1119.5	1339.5	1613.0	1807.6	1872.4
72.5°	936.2	1164.6	1443.8	1652.5	1725.8
75°	767.0	989.8	1280.2	1483.3	1565.1
77.5°	603.5	829.1	1122.3	1331.0	1401.5
80°	439.9	676.8	975.7	1181.5	1249.2
82.5°	290.5	538.6	834.7	1040.5	1113.9
85°	169.2	420.2	710.6	908.0	987.0
87.5°	73.3	318.6	595.0	789.6	854.4
90°	2.8	236.9	501.9	690.9	758.6
92.5°	2.8	231.2	490.7	676.8	741.6
95°	2.8	225.6	487.8	668.3	733.2
97.5°	2.8	222.8	482.2	662.7	724.7
100°	2.8	214.3	473.7	651.4	713.4
102.5°	2.8	203.0	465.3	640.1	699.3
105°	2.8	194.6	456.8	628.8	685.2
107.5°	2.8	186.1	442.7	614.7	671.1
110°	2.8	177.7	420.2	600.6	657.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	174.8	403.2	580.9	640.1
115°	5.6	169.2	386.3	558.3	620.4
117.5°	5.6	166.4	372.2	535.8	600.6
120°	5.6	157.9	358.1	516.0	578.1
122.5°	5.6	149.5	344.0	496.3	558.3
125°	5.6	143.8	329.9	476.6	535.8
127.5°	5.6	135.4	318.6	456.8	510.4
130°	5.6	129.7	304.6	434.3	487.8
132.5°	5.6	121.3	290.5	411.7	462.5
135°	5.6	112.8	276.4	392.0	439.9
137.5°	5.6	101.5	259.4	369.4	414.5
140°	5.6	93.1	236.9	346.8	389.1
142.5°	5.6	87.4	214.3	321.5	360.9
145°	5.6	81.8	191.8	296.1	332.7
147.5°	5.6	76.1	172.0	270.7	304.6
150°	5.6	67.7	152.3	248.2	276.4
152.5°	8.5	62.0	135.4	220.0	248.2
155°	8.5	56.4	118.4	188.9	220.0
157.5°	8.5	50.8	101.5	157.9	191.8
160°	8.5	45.1	87.4	129.7	163.6
162.5°	8.5	42.3	76.1	107.2	138.2
165°	8.5	36.7	64.9	87.4	112.8
167.5°	8.5	28.2	53.6	67.7	93.1
170°	8.5	22.6	42.3	47.9	70.5
172.5°	8.5	16.9	31.0	33.8	36.7
175°	8.5	14.1	19.7	19.7	11.3
177.5°	8.5	11.3	11.3	11.3	5.6
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)