

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: P567533

Luminaire Tested: **8SNX-168HL-UNV-L850-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2202-547-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-168HL-UNV-L850-CD  
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

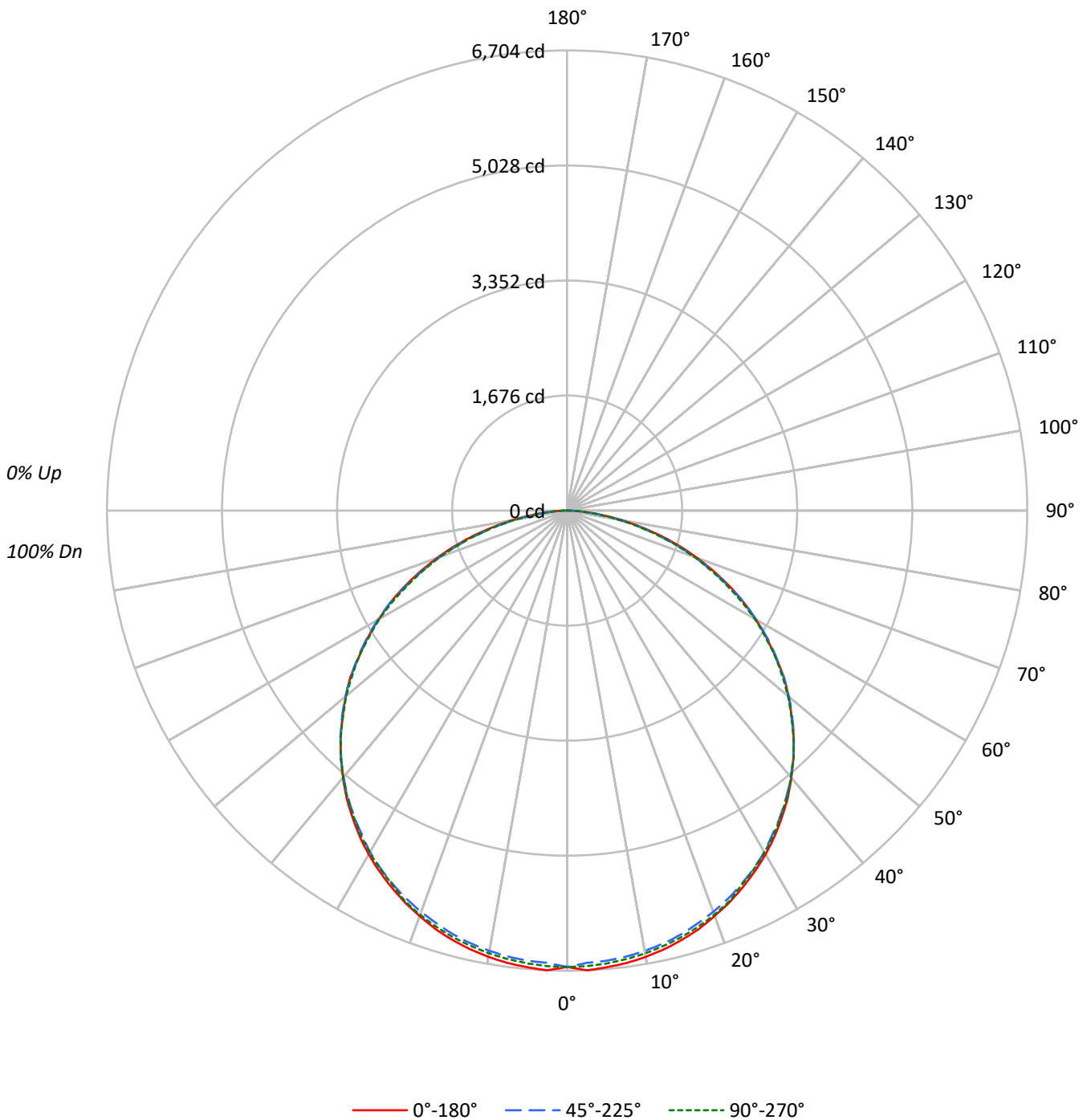
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19900.0 lumens  
Efficiency: N/A  
Efficacy: 171.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 8' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 115.8  
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	35779	35779	35779
5°	36067	35566	35779
10°	36085	35593	35792
15°	36069	35630	35834
20°	35996	35626	35884
25°	35952	35669	35735
30°	35929	35701	35737
35°	35841	35619	35674
40°	35697	35617	35637
45°	35503	35567	35503
50°	35263	35333	35145
55°	34713	34898	34713
60°	34128	34280	33977
65°	33284	32889	32531
70°	31697	30988	30900
75°	29251	27846	27964
80°	25024	23456	23893
85°	18587	18241	17025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.9	3.2
10°-20°	1817.8	9.1
20°-30°	2782.9	14.0
30°-40°	3404.3	17.1
40°-50°	3600.6	18.1
50°-60°	3317.6	16.7
60°-70°	2553.4	12.8
70°-80°	1434.6	7.2
80°-90°	357.9	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5231.6	26.3
0°-40°	8635.9	43.4
0°-60°	15554.1	78.2
0°-90°	19900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19900.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6648	6648	6648	6648	6648	
5°	6676	6656	6583	6642	6623	635
15°	6474	6457	6395	6451	6431	1827
25°	6054	6049	6006	6049	6018	2792
35°	5455	5447	5421	5447	5430	3414
45°	4664	4679	4673	4662	4664	3597
55°	3700	3733	3719	3708	3700	3313
65°	2614	2619	2583	2546	2554	2578
75°	1407	1384	1339	1320	1345	1482
85°	301	295	295	287	276	371
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6647.9	6647.9	6647.9	6647.9	6647.9
2.5°	6704.2	6667.6	6594.5	6659.2	6642.3
5°	6676.0	6656.4	6583.2	6642.3	6622.6
7.5°	6647.9	6625.4	6555.1	6619.8	6591.6
10°	6602.9	6583.2	6512.9	6574.8	6549.4
12.5°	6543.8	6526.9	6462.2	6521.3	6496.0
15°	6473.5	6456.6	6394.7	6451.0	6431.3
17.5°	6389.1	6369.4	6310.3	6369.4	6355.3
20°	6285.0	6273.7	6220.3	6273.7	6265.3
22.5°	6178.1	6164.0	6121.8	6161.2	6164.0
25°	6054.3	6048.7	6006.5	6048.7	6017.7
27.5°	5924.9	5924.9	5882.7	5910.8	5891.1
30°	5781.4	5778.6	5744.8	5758.9	5750.5
32.5°	5626.7	5623.9	5578.8	5615.4	5601.4
35°	5455.1	5446.6	5421.3	5446.6	5429.7
37.5°	5277.8	5269.4	5249.7	5263.8	5260.9
40°	5080.9	5080.9	5069.6	5080.9	5072.4
42.5°	4878.3	4886.8	4872.7	4884.0	4884.0
45°	4664.5	4678.6	4673.0	4661.7	4664.5
47.5°	4436.6	4462.0	4447.9	4445.1	4431.0
50°	4211.6	4234.1	4220.0	4205.9	4197.5
52.5°	3978.1	3989.3	3972.4	3966.8	3947.1
55°	3699.5	3733.3	3719.2	3708.0	3699.5
57.5°	3443.5	3468.8	3457.6	3435.1	3421.0
60°	3170.6	3190.3	3184.7	3159.4	3156.6
62.5°	2903.4	2909.0	2903.4	2858.3	2861.2
65°	2613.6	2619.2	2582.6	2546.1	2554.5
67.5°	2309.7	2326.6	2276.0	2222.5	2259.1
70°	2014.3	2008.7	1969.3	1910.3	1963.7
72.5°	1710.5	1704.9	1659.9	1617.7	1654.2
75°	1406.7	1384.2	1339.1	1319.5	1344.8
77.5°	1091.6	1066.3	1046.6	1032.5	1043.7
80°	807.4	773.7	756.8	745.5	770.9
82.5°	537.3	512.0	503.6	512.0	506.4
85°	301.0	295.4	295.4	287.0	275.7
87.5°	123.8	129.4	132.2	129.4	123.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)