

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: P567504

Luminaire Tested: **8SNX-168HL-LC-UNV-L940-CD**

Issue Date: 9/15/2022



**Test Information**

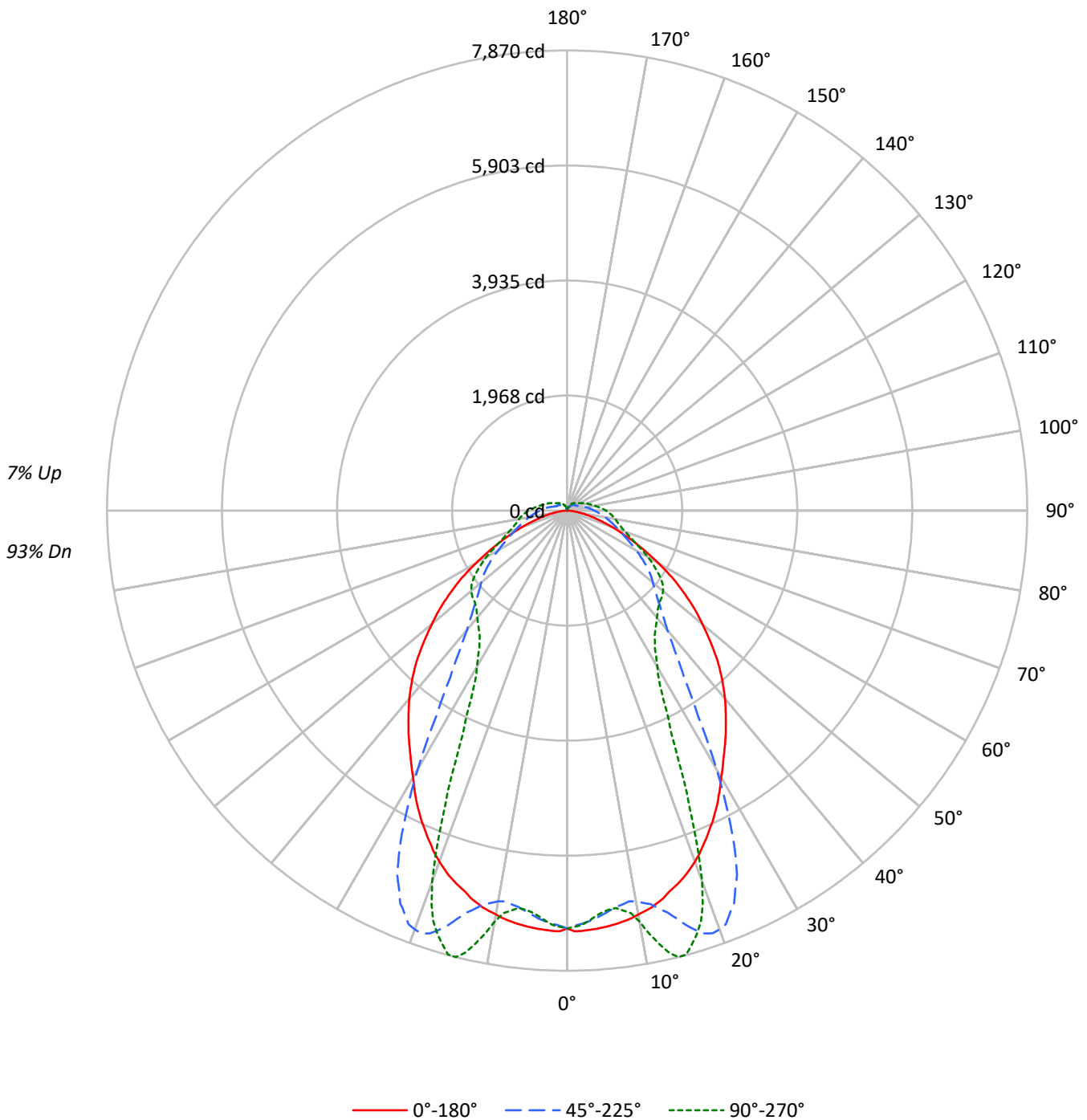
Test Method: LM-79-08  
Report Number: P567504  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2205-663-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNX-168HL-LC-UNV-L940-CD  
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15885.0 lumens  
Efficiency: N/A  
Efficacy: 137.2 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): 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

TEST NUMBER: P567504  
CATALOG NUMBER: 8SNX-168HL-LC-UNV-L940-CD

### 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°	38468	38468	38468
5°	38583	35946	35211
10°	38192	34170	34917
15°	37373	35581	37171
20°	36313	37095	31109
25°	34561	33285	19128
30°	32363	24798	13843
35°	30579	17119	11678
40°	28989	13289	10763
45°	27125	11316	10179
50°	24669	10157	9992
55°	22078	9187	9245
60°	18721	7951	7996
65°	15226	6926	6674
70°	11949	6226	5876
75°	9265	5788	5480
80°	6522	5482	5424
85°	3631	5231	5386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	665.1	4.2
10°-20°	2032.3	12.8
20°-30°	2736.5	17.2
30°-40°	2589.8	16.3
40°-50°	2285.9	14.4
50°-60°	1856.6	11.7
60°-70°	1262.7	7.9
70°-80°	812.5	5.1
80°-90°	540.3	3.4
90°-100°	371.3	2.3
100°-110°	249.2	1.6
110°-120°	175.8	1.1
120°-130°	125.6	0.8
130°-140°	88.6	0.6
140°-150°	55.0	0.3
150°-160°	26.8	0.2
160°-170°	9.4	0.1
170°-180°	1.6	0.0
0°-30°	5433.8	34.2
0°-40°	8023.6	50.5
0°-60°	12166.1	76.6
0°-90°	14781.6	93.1
90°-120°	796.3	5.0
90°-150°	1065.5	6.7
90°-180°	1103.0	6.9
0°-180°	15885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7148	7148	7148	7148	7148	
5°	7155	7089	6936	6932	6898	679
15°	6745	6701	7218	7856	7863	1901
25°	5877	6968	6876	4994	4222	2697
35°	4722	6626	3492	2690	2607	2955
45°	3638	4458	2210	2183	2229	2793
55°	2423	2636	1659	1853	1923	2164
65°	1249	1421	1111	1234	1273	1254
75°	480	672	783	878	919	523
85°	73	286	555	703	752	95
90°	2	199	463	623	664	4
95°	2	153	390	529	565	2
105°	5	107	257	361	405	5
115°	5	92	189	269	303	6
125°	7	78	162	204	218	7
135°	10	61	133	170	180	8
145°	10	44	95	131	143	7
155°	12	27	58	87	99	6
165°	12	17	32	44	53	4
175°	15	15	15	15	12	1
180°	12	12	12	12	12	



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CATALOG NUMBER: 8SNX-168HL-LC-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7147.5	7147.5	7147.5	7147.5	7147.5
1°	7196.0	7174.1	7101.4	7140.2	7120.8
2°	7193.5	7157.2	7074.7	7118.4	7094.1
3°	7181.4	7142.6	7035.9	7062.6	7026.2
4°	7169.3	7123.2	6994.7	6994.7	6953.4
5°	7154.7	7089.3	6936.5	6931.6	6897.7
6°	7137.8	7062.6	6885.5	6880.7	6861.3
7°	7113.5	7016.5	6829.7	6863.7	6849.2
8°	7084.4	6972.8	6800.6	6885.5	6907.4
9°	7057.7	6919.5	6766.7	6953.4	6970.4
10°	7014.1	6871.0	6788.5	7089.3	7140.2
11°	6977.7	6829.7	6837.0	7222.7	7375.4
12°	6941.3	6786.1	6883.1	7390.0	7576.8
13°	6880.7	6752.1	6985.0	7571.9	7763.5
14°	6827.3	6725.5	7084.4	7756.2	7870.2
15°	6744.9	6701.2	7217.8	7855.7	7862.9
16°	6689.1	6684.2	7373.0	7862.9	7727.1
17°	6626.0	6677.0	7499.1	7736.8	7576.8
18°	6555.7	6691.5	7603.4	7579.2	7394.9
19°	6475.6	6706.1	7647.1	7360.9	7123.2
20°	6388.3	6727.9	7622.8	7132.9	6749.7
21°	6301.0	6757.0	7576.8	6892.8	6259.8
22.5°	6138.5	6827.3	7358.5	6218.6	5449.7
23°	6092.4	6841.9	7307.5	6007.6	5238.7
24°	5978.5	6902.5	7074.7	5515.2	4680.9
25°	5876.6	6968.0	6875.8	4993.8	4222.5
26°	5762.6	7016.5	6575.1	4513.6	3941.2
27°	5651.0	7045.6	6233.1	4140.0	3625.9
28°	5522.5	7077.1	5862.0	3817.5	3388.2
29°	5401.2	7082.0	5495.8	3560.4	3201.4
30°	5270.3	7057.7	5110.2	3354.2	3085.0
32.5°	4984.1	6924.3	4166.7	2961.3	2794.0
35°	4722.1	6626.0	3492.5	2689.7	2607.2
37.5°	4457.8	6155.5	3019.5	2519.9	2493.2
40°	4198.3	5597.7	2663.0	2384.1	2389.0
42.5°	3924.2	5022.9	2418.1	2272.5	2294.4
45°	3638.0	4457.8	2209.5	2182.8	2228.9
47.5°	3320.3	3941.2	2044.6	2124.6	2194.9
50°	3019.5	3429.4	1916.0	2068.8	2141.6
52.5°	2733.4	3009.8	1799.6	1974.2	2059.1
55°	2422.9	2636.3	1658.9	1853.0	1923.3
57.5°	2127.0	2299.2	1511.0	1702.6	1765.6
60°	1802.0	1966.9	1360.6	1540.1	1600.7
62.5°	1508.6	1683.2	1232.1	1377.6	1426.1
65°	1249.0	1421.2	1110.8	1234.5	1273.3



TEST NUMBER: P567504

CATALOG NUMBER: 8SNX-168HL-LC-UNV-L940-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1018.6	1203.0	1011.4	1115.7	1152.0
70°	802.8	996.8	924.1	1018.6	1057.4
72.5°	628.2	824.6	851.3	938.6	977.4
75°	480.2	671.8	783.4	878.0	919.2
77.5°	356.5	548.1	720.3	829.5	873.1
80°	235.3	436.6	664.5	785.8	836.7
82.5°	147.9	351.7	608.8	742.2	795.5
85°	72.8	286.2	555.4	703.3	751.9
87.5°	24.3	237.7	506.9	664.5	705.8
90°	2.4	198.9	463.2	623.3	664.5
92.5°	2.4	172.2	426.9	574.8	616.0
95°	2.4	152.8	390.5	528.7	565.1
97.5°	2.4	138.2	356.5	480.2	519.0
100°	2.4	123.7	320.1	434.1	475.4
102.5°	4.9	114.0	288.6	395.3	439.0
105°	4.9	106.7	257.1	361.4	405.0
107.5°	4.9	101.9	230.4	334.7	375.9
110°	4.9	97.0	211.0	310.4	354.1
112.5°	4.9	94.6	198.9	288.6	329.8
115°	4.9	92.2	189.2	269.2	303.2
117.5°	7.3	89.7	181.9	249.8	276.5
120°	7.3	84.9	177.0	232.8	254.7
122.5°	7.3	80.0	169.8	218.3	235.3
125°	7.3	77.6	162.5	203.7	218.3
127.5°	7.3	72.8	155.2	191.6	206.2
130°	9.7	67.9	147.9	181.9	194.0
132.5°	9.7	63.1	140.7	177.0	186.8
135°	9.7	60.6	133.4	169.8	179.5
137.5°	9.7	55.8	126.1	162.5	172.2
140°	9.7	50.9	116.4	152.8	162.5
142.5°	9.7	48.5	106.7	143.1	152.8
145°	9.7	43.7	94.6	131.0	143.1
147.5°	12.1	41.2	84.9	121.3	131.0
150°	12.1	36.4	75.2	111.6	121.3
152.5°	12.1	31.5	65.5	99.4	109.1
155°	12.1	26.7	58.2	87.3	99.4
157.5°	12.1	24.3	50.9	72.8	87.3
160°	12.1	21.8	43.7	63.1	75.2
162.5°	12.1	19.4	38.8	53.4	65.5
165°	12.1	17.0	31.5	43.7	53.4
167.5°	14.6	17.0	26.7	34.0	43.7
170°	14.6	17.0	21.8	26.7	34.0
172.5°	14.6	14.6	17.0	19.4	21.8
175°	14.6	14.6	14.6	14.6	12.1
177.5°	14.6	14.6	14.6	12.1	12.1



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CATALOG NUMBER: 8SNX-168HL-LC-UNV-L940-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	12.1	12.1	12.1	12.1	12.1

(END OF REPORT)