

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: P567508

Luminaire Tested: **8SNX-168HL-LN-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567508
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-168HL-LN-UNV-L840-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

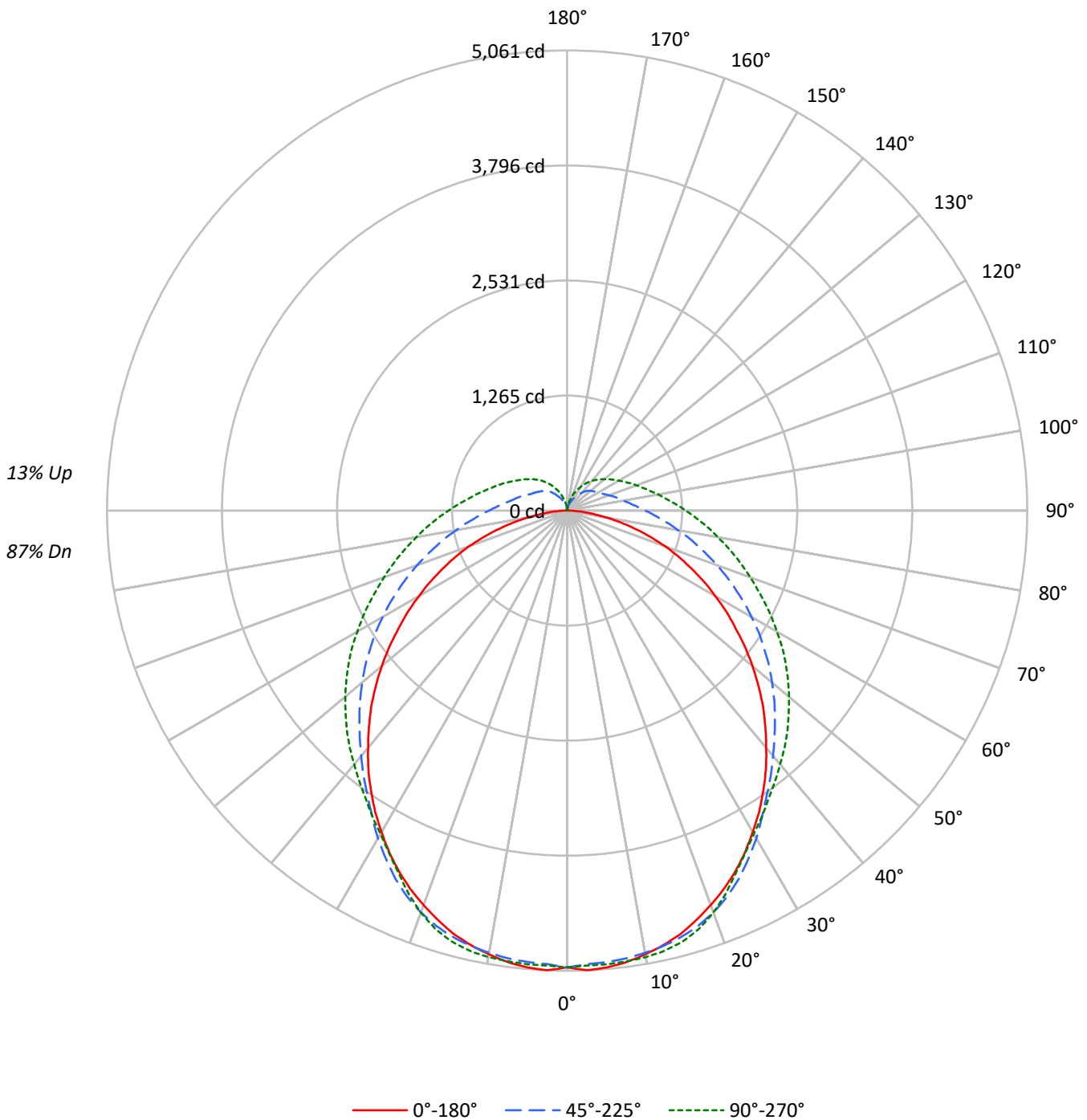
Lumens per Lamp: N/A
Luminaire Lumens: 18135.0 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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: P567508

CATALOG NUMBER: 8SNX-168HL-LN-UNV-L840-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	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°	27037	27037	27037
5°	27191	25827	25567
10°	26986	24853	24386
15°	26711	23932	23197
20°	26249	22891	21681
25°	25748	21625	19903
30°	25072	20201	18418
35°	24349	18747	17310
40°	23522	17582	16414
45°	22717	16549	15641
50°	21753	15598	14861
55°	20619	14643	14098
60°	19548	13690	13301
65°	18364	12728	12569
70°	17023	11827	11908
75°	14889	10949	11364
80°	12102	10195	10903
85°	8738	9671	10638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.2	2.6
10°-20°	1372.1	7.6
20°-30°	2043.2	11.3
30°-40°	2410.9	13.3
40°-50°	2514.3	13.9
50°-60°	2362.8	13.0
60°-70°	1995.4	11.0
70°-80°	1507.7	8.3
80°-90°	1039.3	5.7
90°-100°	727.3	4.0
100°-110°	542.7	3.0
110°-120°	409.1	2.3
120°-130°	305.1	1.7
130°-140°	214.2	1.2
140°-150°	129.5	0.7
150°-160°	61.9	0.3
160°-170°	19.8	0.1
170°-180°	2.4	0.0
0°-30°	3892.6	21.5
0°-40°	6303.5	34.8
0°-60°	11180.6	61.7
0°-90°	15722.9	86.7
90°-120°	1679.1	9.3
90°-150°	2327.9	12.8
90°-180°	2412.0	13.3
0°-180°	18135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5024	5024	5024	5024	5024	
5°	5042	5033	4984	5021	5008	478
15°	4821	4842	4855	4916	4907	1357
25°	4378	4467	4467	4427	4394	2014
35°	3760	3898	3825	3855	3865	2351
45°	3047	3198	3231	3364	3425	2346
55°	2263	2456	2644	2856	2933	2030
65°	1506	1746	2042	2309	2398	1496
75°	772	1070	1482	1792	1906	822
85°	175	550	1027	1365	1485	196
90°	3	390	858	1187	1304	12
95°	3	304	726	1039	1147	3
105°	6	218	560	812	904	6
115°	6	188	434	646	729	6
125°	9	160	366	529	596	8
135°	9	123	304	430	483	7
145°	12	89	212	329	369	7
155°	12	58	129	209	243	6
165°	15	37	68	92	123	4
175°	15	15	18	18	9	1
180°	9	9	9	9	9	



TEST NUMBER: P567508

CATALOG NUMBER: 8SNX-168HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5023.7	5023.7	5023.7	5023.7	5023.7
2.5°	5060.6	5048.3	4993.0	5023.7	5008.4
5°	5042.2	5033.0	4983.8	5020.7	5008.4
7.5°	5008.4	5005.3	4968.4	5011.4	4999.1
10°	4956.1	4965.3	4937.6	4996.1	4986.8
12.5°	4894.6	4913.0	4903.8	4968.4	4959.2
15°	4820.8	4842.3	4854.6	4916.1	4906.9
17.5°	4722.4	4762.4	4790.1	4839.3	4823.9
20°	4617.9	4673.2	4704.0	4728.6	4704.0
22.5°	4504.1	4577.9	4596.4	4584.1	4559.5
25°	4378.1	4467.2	4467.2	4427.3	4393.5
27.5°	4236.7	4347.3	4316.6	4270.5	4242.8
30°	4082.9	4215.1	4162.9	4110.6	4104.5
32.5°	3929.2	4067.6	3990.7	3978.4	3987.6
35°	3760.1	3898.5	3824.7	3855.4	3864.6
37.5°	3591.0	3729.4	3680.2	3726.3	3754.0
40°	3406.5	3554.1	3523.4	3606.4	3643.3
42.5°	3225.1	3378.9	3375.8	3483.4	3538.7
45°	3046.8	3197.5	3231.3	3363.5	3425.0
47.5°	2853.1	3006.9	3089.9	3243.6	3305.1
50°	2662.5	2828.5	2942.3	3114.5	3185.2
52.5°	2465.7	2641.0	2797.8	2988.4	3062.2
55°	2262.8	2456.5	2644.1	2856.2	2933.1
57.5°	2081.4	2278.2	2499.6	2717.9	2807.0
60°	1881.6	2099.9	2342.8	2573.4	2662.5
62.5°	1700.2	1924.6	2195.2	2438.1	2533.4
65°	1506.5	1746.3	2041.5	2308.9	2398.1
67.5°	1328.2	1574.1	1897.0	2167.5	2265.9
70°	1143.7	1405.0	1755.5	2041.5	2142.9
72.5°	953.1	1229.8	1614.1	1918.5	2023.0
75°	771.7	1069.9	1481.9	1792.4	1906.2
77.5°	602.6	916.2	1362.0	1681.8	1792.4
80°	436.6	777.8	1235.9	1568.0	1681.8
82.5°	289.0	657.9	1134.5	1466.5	1586.4
85°	175.2	550.3	1026.9	1365.1	1485.0
87.5°	79.9	461.2	940.8	1275.9	1392.7
90°	3.1	390.5	857.8	1186.8	1303.6
92.5°	3.1	341.3	790.1	1109.9	1223.7
95°	3.1	304.4	725.6	1039.2	1146.8
97.5°	3.1	279.8	676.4	971.5	1076.1
100°	3.1	255.2	627.2	910.1	1017.7
102.5°	6.1	233.7	590.3	854.7	956.2
105°	6.1	218.3	559.6	811.7	903.9
107.5°	6.1	209.1	525.7	768.6	854.7
110°	6.1	199.8	488.8	725.6	811.7



TEST NUMBER: P567508

CATALOG NUMBER: 8SNX-168HL-LN-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.1	193.7	461.2	688.7	771.7
115°	6.1	187.5	433.5	645.6	728.7
117.5°	6.1	184.5	418.1	611.8	691.8
120°	9.2	175.2	399.7	581.1	657.9
122.5°	9.2	166.0	381.2	556.5	624.1
125°	9.2	159.9	365.9	528.8	596.5
127.5°	9.2	150.7	350.5	504.2	565.7
130°	9.2	141.4	338.2	479.6	538.0
132.5°	9.2	132.2	322.8	455.0	510.4
135°	9.2	123.0	304.4	430.4	482.7
137.5°	9.2	113.8	285.9	405.8	455.0
140°	9.2	104.5	261.3	381.2	427.4
142.5°	9.2	95.3	236.7	356.6	396.6
145°	12.3	89.2	212.1	329.0	368.9
147.5°	12.3	79.9	187.5	301.3	335.1
150°	12.3	73.8	169.1	273.6	304.4
152.5°	12.3	64.6	150.7	242.9	273.6
155°	12.3	58.4	129.1	209.1	242.9
157.5°	12.3	52.3	110.7	175.2	212.1
160°	12.3	49.2	95.3	144.5	181.4
162.5°	15.4	43.0	79.9	116.8	150.7
165°	15.4	36.9	67.6	92.2	123.0
167.5°	15.4	30.7	55.3	70.7	95.3
170°	15.4	24.6	43.0	49.2	73.8
172.5°	15.4	18.4	30.7	33.8	36.9
175°	15.4	15.4	18.4	18.4	9.2
177.5°	15.4	15.4	12.3	9.2	3.1
180°	9.2	9.2	9.2	9.2	9.2

(END OF REPORT)