

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: P567512

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567512
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-L940-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

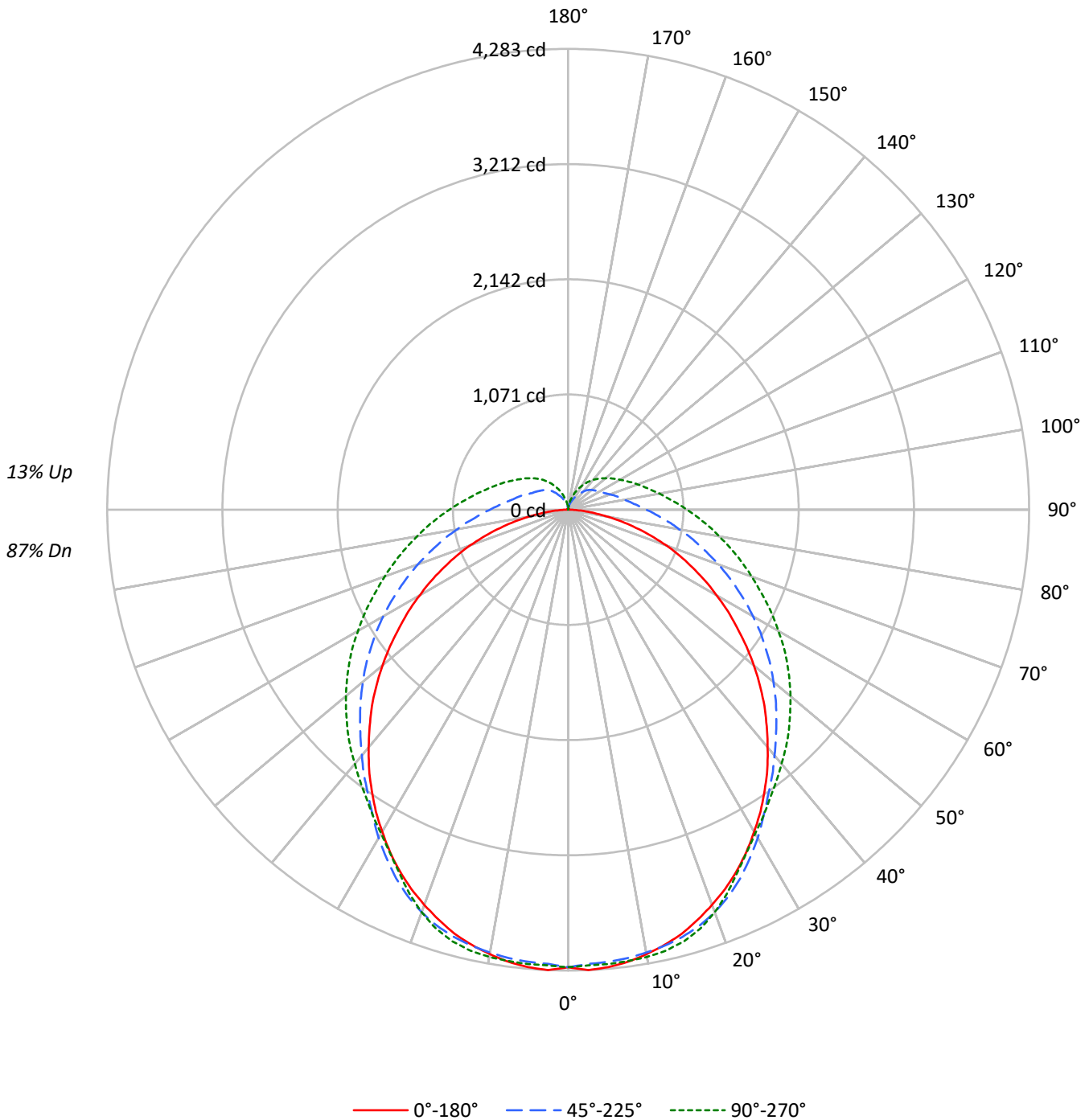
Lumens per Lamp: N/A
Luminaire Lumens: 15349.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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: P567512

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

Luminous Intensity Polar Plot





TEST NUMBER: P567512

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

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	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°	22884	22884	22884
5°	23014	21859	21639
10°	22840	21036	20640
15°	22608	20255	19633
20°	22217	19374	18350
25°	21793	18304	16845
30°	21220	17097	15589
35°	20609	15867	14651
40°	19908	14881	13893
45°	19227	14007	13238
50°	18411	13202	12578
55°	17451	12394	11933
60°	16545	11587	11257
65°	15544	10772	10638
70°	14408	10010	10079
75°	12601	9267	9618
80°	10242	8630	9228
85°	7396	8185	9004



TEST NUMBER: P567512

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.9	2.6
10°-20°	1161.3	7.6
20°-30°	1729.3	11.3
30°-40°	2040.5	13.3
40°-50°	2128.1	13.9
50°-60°	1999.8	13.0
60°-70°	1688.8	11.0
70°-80°	1276.1	8.3
80°-90°	879.6	5.7
90°-100°	615.5	4.0
100°-110°	459.3	3.0
110°-120°	346.3	2.3
120°-130°	258.3	1.7
130°-140°	181.3	1.2
140°-150°	109.6	0.7
150°-160°	52.4	0.3
160°-170°	16.8	0.1
170°-180°	2.0	0.0
0°-30°	3294.6	21.5
0°-40°	5335.1	34.8
0°-60°	9463.0	61.7
0°-90°	13307.5	86.7
90°-120°	1421.2	9.3
90°-150°	1970.3	12.8
90°-180°	2041.0	13.3
0°-180°	15349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4252	4252	4252	4252	4252	
5°	4268	4260	4218	4249	4239	405
15°	4080	4098	4109	4161	4153	1149
25°	3706	3781	3781	3747	3718	1705
35°	3182	3300	3237	3263	3271	1990
45°	2579	2706	2735	2847	2899	1986
55°	1915	2079	2238	2417	2482	1718
65°	1275	1478	1728	1954	2030	1266
75°	653	906	1254	1517	1613	696
85°	148	466	869	1155	1257	166
90°	3	330	726	1004	1103	10
95°	3	258	614	880	971	2
105°	5	185	474	687	765	5
115°	5	159	367	546	617	5
125°	8	135	310	448	505	7
135°	8	104	258	364	408	6
145°	10	76	180	278	312	6
155°	10	49	109	177	206	5
165°	13	31	57	78	104	4
175°	13	13	16	16	8	1
180°	8	8	8	8	8	



TEST NUMBER: P567512

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4252.0	4252.0	4252.0	4252.0	4252.0
2.5°	4283.2	4272.8	4225.9	4252.0	4238.9
5°	4267.6	4259.8	4218.1	4249.4	4238.9
7.5°	4238.9	4236.3	4205.1	4241.5	4231.1
10°	4194.7	4202.5	4179.1	4228.5	4220.7
12.5°	4142.7	4158.3	4150.5	4205.1	4197.3
15°	4080.2	4098.4	4108.8	4160.9	4153.1
17.5°	3996.9	4030.8	4054.2	4095.8	4082.8
20°	3908.5	3955.3	3981.3	4002.1	3981.3
22.5°	3812.2	3874.6	3890.3	3879.8	3859.0
25°	3705.5	3781.0	3781.0	3747.1	3718.5
27.5°	3585.8	3679.5	3653.5	3614.4	3591.0
30°	3455.7	3567.6	3523.3	3479.1	3473.9
32.5°	3325.6	3442.7	3377.6	3367.2	3375.0
35°	3182.5	3299.6	3237.1	3263.1	3270.9
37.5°	3039.3	3156.4	3114.8	3153.8	3177.3
40°	2883.2	3008.1	2982.1	3052.4	3083.6
42.5°	2729.7	2859.8	2857.2	2948.3	2995.1
45°	2578.8	2706.3	2734.9	2846.8	2898.8
47.5°	2414.8	2544.9	2615.2	2745.3	2797.3
50°	2253.5	2394.0	2490.3	2636.0	2695.9
52.5°	2086.9	2235.3	2368.0	2529.3	2591.8
55°	1915.2	2079.1	2237.9	2417.4	2482.5
57.5°	1761.7	1928.2	2115.6	2300.3	2375.8
60°	1592.5	1777.3	1982.9	2178.0	2253.5
62.5°	1439.0	1629.0	1858.0	2063.5	2144.2
65°	1275.1	1478.0	1727.8	1954.2	2029.7
67.5°	1124.1	1332.3	1605.5	1834.5	1917.8
70°	968.0	1189.2	1485.8	1727.8	1813.7
72.5°	806.7	1040.9	1366.1	1623.8	1712.2
75°	653.1	905.6	1254.2	1517.1	1613.4
77.5°	510.0	775.4	1152.8	1423.4	1517.1
80°	369.5	658.4	1046.1	1327.1	1423.4
82.5°	244.6	556.9	960.2	1241.2	1342.7
85°	148.3	465.8	869.1	1155.4	1256.9
87.5°	67.7	390.3	796.3	1079.9	1178.8
90°	2.6	330.5	726.0	1004.4	1103.3
92.5°	2.6	288.8	668.8	939.4	1035.7
95°	2.6	257.6	614.1	879.5	970.6
97.5°	2.6	236.8	572.5	822.3	910.8
100°	2.6	216.0	530.8	770.2	861.3
102.5°	5.2	197.8	499.6	723.4	809.3
105°	5.2	184.8	473.6	687.0	765.0
107.5°	5.2	176.9	445.0	650.5	723.4
110°	5.2	169.1	413.7	614.1	687.0



TEST NUMBER: P567512

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.2	163.9	390.3	582.9	653.1
115°	5.2	158.7	366.9	546.5	616.7
117.5°	5.2	156.1	353.9	517.8	585.5
120°	7.8	148.3	338.3	491.8	556.9
122.5°	7.8	140.5	322.7	471.0	528.2
125°	7.8	135.3	309.7	447.6	504.8
127.5°	7.8	127.5	296.6	426.8	478.8
130°	7.8	119.7	286.2	405.9	455.4
132.5°	7.8	111.9	273.2	385.1	432.0
135°	7.8	104.1	257.6	364.3	408.5
137.5°	7.8	96.3	242.0	343.5	385.1
140°	7.8	88.5	221.2	322.7	361.7
142.5°	7.8	80.7	200.4	301.9	335.7
145°	10.4	75.5	179.6	278.4	312.3
147.5°	10.4	67.7	158.7	255.0	283.6
150°	10.4	62.5	143.1	231.6	257.6
152.5°	10.4	54.6	127.5	205.6	231.6
155°	10.4	49.4	109.3	176.9	205.6
157.5°	10.4	44.2	93.7	148.3	179.6
160°	10.4	41.6	80.7	122.3	153.5
162.5°	13.0	36.4	67.7	98.9	127.5
165°	13.0	31.2	57.2	78.1	104.1
167.5°	13.0	26.0	46.8	59.9	80.7
170°	13.0	20.8	36.4	41.6	62.5
172.5°	13.0	15.6	26.0	28.6	31.2
175°	13.0	13.0	15.6	15.6	7.8
177.5°	13.0	13.0	10.4	7.8	2.6
180°	7.8	7.8	7.8	7.8	7.8

(END OF REPORT)