

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: P567505

Luminaire Tested: **8SNX-168HL-LC-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567505
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-L950-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND LC LENS
Light Source: -
Ballast/Driver: -

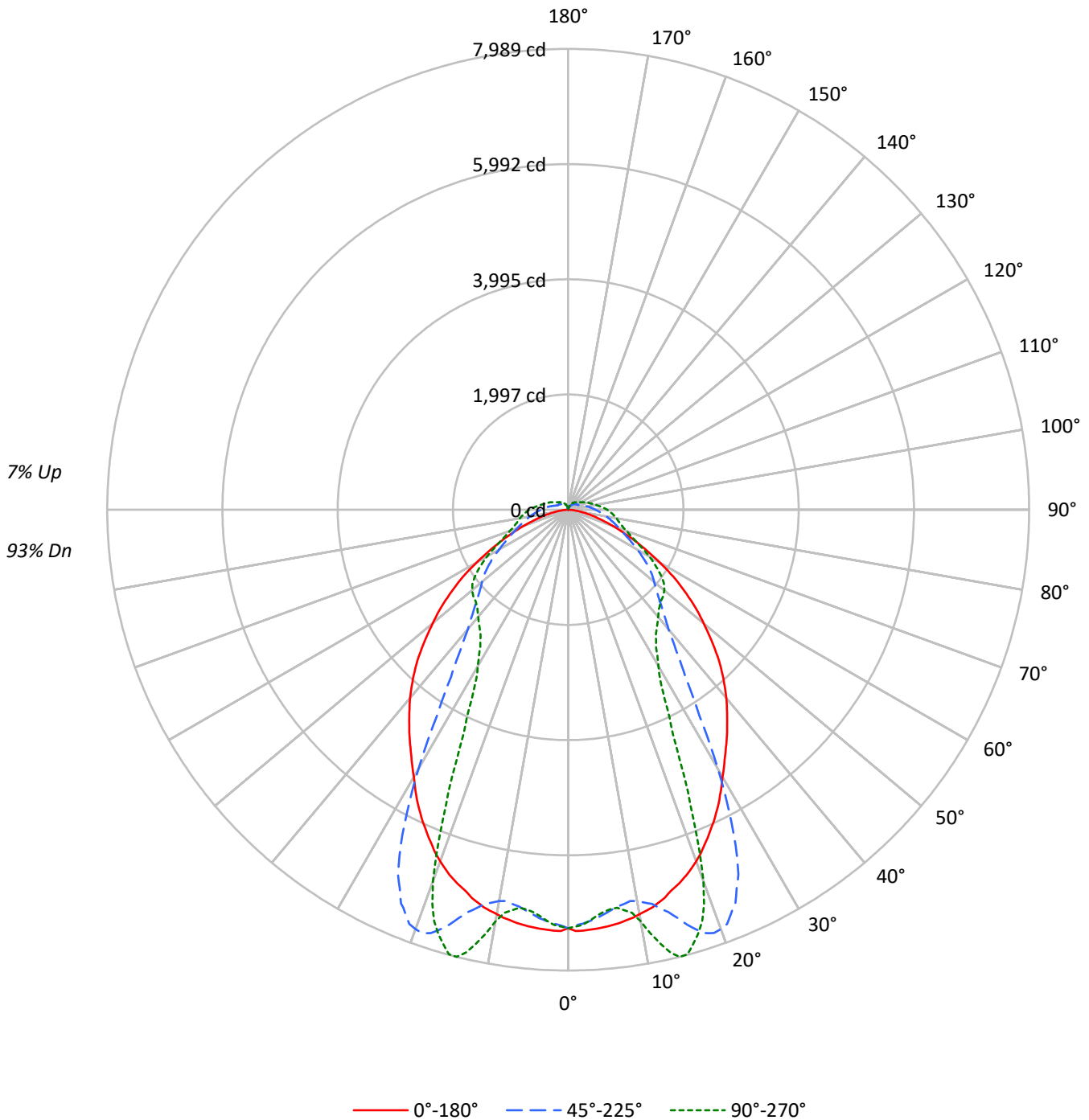
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16125.0 lumens
Efficiency: N/A
Efficacy: 139.2 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: P567505
CATALOG NUMBER: 8SNX-168HL-LC-UNV-L950-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567505

CATALOG NUMBER: 8SNX-168HL-LC-UNV-L950-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	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°	39049	39049	39049
5°	39166	36489	35743
10°	38768	34686	35444
15°	37937	36119	37732
20°	36862	37655	31579
25°	35084	33788	19417
30°	32852	25172	14053
35°	31041	17378	11855
40°	29427	13490	10926
45°	27535	11487	10333
50°	25043	10311	10143
55°	22411	9326	9385
60°	19005	8071	8117
65°	15456	7030	6774
70°	12129	6319	5965
75°	9406	5876	5563
80°	6619	5565	5506
85°	3686	5310	5467



TEST NUMBER: P567505

CATALOG NUMBER: 8SNX-168HL-LC-UNV-L950-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.1	4.2
10°-20°	2063.0	12.8
20°-30°	2777.8	17.2
30°-40°	2628.9	16.3
40°-50°	2320.4	14.4
50°-60°	1884.7	11.7
60°-70°	1281.8	7.9
70°-80°	824.8	5.1
80°-90°	548.4	3.4
90°-100°	376.9	2.3
100°-110°	253.0	1.6
110°-120°	178.4	1.1
120°-130°	127.5	0.8
130°-140°	89.9	0.6
140°-150°	55.8	0.3
150°-160°	27.2	0.2
160°-170°	9.5	0.1
170°-180°	1.7	0.0
0°-30°	5515.9	34.2
0°-40°	8144.9	50.5
0°-60°	12350.0	76.6
0°-90°	15005.0	93.1
90°-120°	808.3	5.0
90°-150°	1081.6	6.7
90°-180°	1120.0	6.9
0°-180°	16125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7256	7256	7256	7256	7256	
5°	7263	7196	7041	7036	7002	689
15°	6847	6802	7327	7974	7982	1930
25°	5965	7073	6980	5069	4286	2737
35°	4794	6726	3545	2730	2647	3000
45°	3693	4525	2243	2216	2263	2835
55°	2460	2676	1684	1881	1952	2197
65°	1268	1443	1128	1253	1292	1273
75°	488	682	795	891	933	530
85°	74	290	564	714	763	97
90°	2	202	470	633	675	4
95°	2	155	396	537	574	2
105°	5	108	261	367	411	5
115°	5	94	192	273	308	6
125°	7	79	165	207	222	7
135°	10	62	135	172	182	8
145°	10	44	96	133	145	7
155°	12	27	59	89	101	6
165°	12	17	32	44	54	4
175°	15	15	15	15	12	1
180°	12	12	12	12	12	



TEST NUMBER: P567505

CATALOG NUMBER: 8SNX-168HL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7255.5	7255.5	7255.5	7255.5	7255.5
1°	7304.7	7282.5	7208.7	7248.1	7228.4
2°	7302.2	7265.3	7181.6	7225.9	7201.3
3°	7289.9	7250.5	7142.2	7169.3	7132.4
4°	7277.6	7230.8	7100.4	7100.4	7058.5
5°	7262.8	7196.4	7041.3	7036.3	7001.9
6°	7245.6	7169.3	6989.6	6984.6	6964.9
7°	7221.0	7122.5	6932.9	6967.4	6952.6
8°	7191.4	7078.2	6903.4	6989.6	7011.7
9°	7164.4	7024.0	6868.9	7058.5	7075.7
10°	7120.0	6974.8	6891.1	7196.4	7248.1
11°	7083.1	6932.9	6940.3	7331.8	7486.9
12°	7046.2	6888.6	6987.1	7501.7	7691.2
13°	6984.6	6854.2	7090.5	7686.3	7880.8
14°	6930.5	6827.1	7191.4	7873.4	7989.1
15°	6846.8	6802.5	7326.9	7974.4	7981.7
16°	6790.1	6785.2	7484.4	7981.7	7843.9
17°	6726.1	6777.8	7612.4	7853.7	7691.2
18°	6654.7	6792.6	7718.3	7693.7	7506.6
19°	6573.5	6807.4	7762.6	7472.1	7230.8
20°	6484.9	6829.5	7738.0	7240.7	6851.7
21°	6396.2	6859.1	7691.2	6996.9	6354.4
22.5°	6231.3	6930.5	7469.6	6312.5	5532.1
23°	6184.5	6945.2	7417.9	6098.3	5317.9
24°	6068.8	7006.8	7181.6	5598.5	4751.6
25°	5965.4	7073.3	6979.7	5069.2	4286.3
26°	5849.7	7122.5	6674.4	4581.7	4000.7
27°	5736.4	7152.1	6327.3	4202.6	3680.7
28°	5605.9	7184.1	5950.6	3875.2	3439.4
29°	5482.8	7189.0	5578.8	3614.2	3249.8
30°	5349.9	7164.4	5187.4	3404.9	3131.6
32.5°	5059.4	7029.0	4229.7	3006.1	2836.2
35°	4793.5	6726.1	3545.3	2730.3	2646.6
37.5°	4525.1	6248.5	3065.2	2558.0	2530.9
40°	4261.7	5682.3	2703.3	2420.1	2425.1
42.5°	3983.5	5098.8	2454.6	2306.9	2329.0
45°	3693.0	4525.1	2242.9	2215.8	2262.6
47.5°	3370.5	4000.7	2075.4	2156.7	2228.1
50°	3065.2	3481.2	1945.0	2100.1	2173.9
52.5°	2774.7	3055.3	1826.8	2004.1	2090.2
55°	2459.5	2676.2	1684.0	1881.0	1952.4
57.5°	2159.2	2334.0	1533.8	1728.3	1792.3
60°	1829.3	1996.7	1381.2	1563.4	1624.9
62.5°	1531.4	1708.6	1250.7	1398.4	1447.6
65°	1267.9	1442.7	1127.6	1253.1	1292.5



TEST NUMBER: P567505

CATALOG NUMBER: 8SNX-168HL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1034.0	1221.1	1026.6	1132.5	1169.4
70°	814.9	1011.9	938.0	1034.0	1073.4
72.5°	637.7	837.1	864.2	952.8	992.2
75°	487.5	682.0	795.2	891.2	933.1
77.5°	361.9	556.4	731.2	842.0	886.3
80°	238.8	443.2	674.6	797.7	849.4
82.5°	150.2	357.0	618.0	753.4	807.5
85°	73.9	290.5	563.8	714.0	763.2
87.5°	24.6	241.3	514.6	674.6	716.4
90°	2.5	201.9	470.2	632.7	674.6
92.5°	2.5	174.8	433.3	583.5	625.3
95°	2.5	155.1	396.4	536.7	573.6
97.5°	2.5	140.3	361.9	487.5	526.9
100°	2.5	125.6	325.0	440.7	482.5
102.5°	4.9	115.7	293.0	401.3	445.6
105°	4.9	108.3	261.0	366.8	411.2
107.5°	4.9	103.4	233.9	339.8	381.6
110°	4.9	98.5	214.2	315.1	359.4
112.5°	4.9	96.0	201.9	293.0	334.8
115°	4.9	93.6	192.0	273.3	307.7
117.5°	7.4	91.1	184.6	253.6	280.7
120°	7.4	86.2	179.7	236.4	258.5
122.5°	7.4	81.2	172.3	221.6	238.8
125°	7.4	78.8	165.0	206.8	221.6
127.5°	7.4	73.9	157.6	194.5	209.3
130°	9.8	68.9	150.2	184.6	197.0
132.5°	9.8	64.0	142.8	179.7	189.6
135°	9.8	61.5	135.4	172.3	182.2
137.5°	9.8	56.6	128.0	165.0	174.8
140°	9.8	51.7	118.2	155.1	165.0
142.5°	9.8	49.2	108.3	145.3	155.1
145°	9.8	44.3	96.0	132.9	145.3
147.5°	12.3	41.9	86.2	123.1	132.9
150°	12.3	36.9	76.3	113.3	123.1
152.5°	12.3	32.0	66.5	100.9	110.8
155°	12.3	27.1	59.1	88.6	100.9
157.5°	12.3	24.6	51.7	73.9	88.6
160°	12.3	22.2	44.3	64.0	76.3
162.5°	12.3	19.7	39.4	54.2	66.5
165°	12.3	17.2	32.0	44.3	54.2
167.5°	14.8	17.2	27.1	34.5	44.3
170°	14.8	17.2	22.2	27.1	34.5
172.5°	14.8	14.8	17.2	19.7	22.2
175°	14.8	14.8	14.8	14.8	12.3
177.5°	14.8	14.8	14.8	12.3	12.3



TEST NUMBER: P567505

CATALOG NUMBER: 8SNX-168HL-LC-UNV-L950-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
180°	12.3	12.3	12.3	12.3	12.3

(END OF REPORT)