

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: P567496

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-168HL-FDL-UNV-L940-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

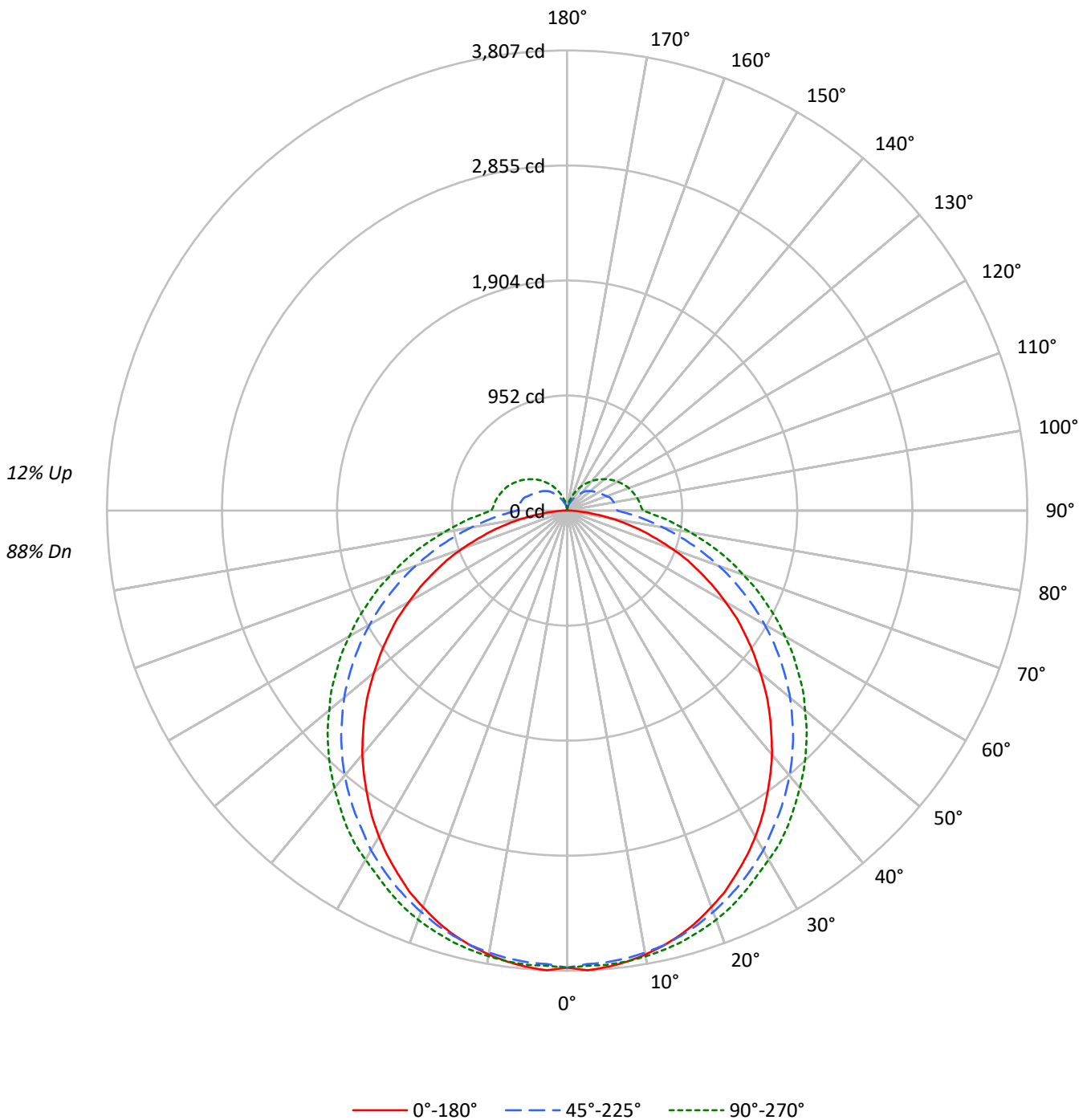
Lumens per Lamp: N/A
Luminaire Lumens: 13613.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 115.8
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																		
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20350	20350	20350
5°	20469	20051	20084
10°	20365	19869	19876
15°	20209	19649	19682
20°	19950	19384	19461
25°	19637	19114	19165
30°	19297	18844	18911
35°	18862	18519	18736
40°	18443	18251	18464
45°	17934	17941	18235
50°	17342	17612	17945
55°	16784	17204	17686
60°	16139	16770	17369
65°	15355	16272	17059
70°	14358	15730	16707
75°	12934	15141	16587
80°	10949	14799	16454
85°	8154	15185	17343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	2.6
10°-20°	1032.6	7.6
20°-30°	1570.8	11.5
30°-40°	1910.0	14.0
40°-50°	2020.7	14.8
50°-60°	1894.2	13.9
60°-70°	1558.3	11.4
70°-80°	1078.2	7.9
80°-90°	599.5	4.4
90°-100°	395.0	2.9
100°-110°	354.2	2.6
110°-120°	293.2	2.2
120°-130°	226.6	1.7
130°-140°	160.4	1.2
140°-150°	96.8	0.7
150°-160°	46.5	0.3
160°-170°	15.2	0.1
170°-180°	1.9	0.0
0°-30°	2962.4	21.8
0°-40°	4872.4	35.8
0°-60°	8787.3	64.6
0°-90°	12023.3	88.3
90°-120°	1042.3	7.7
90°-150°	1526.2	11.2
90°-180°	1590.0	11.7
0°-180°	13613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3781	3781	3781	3781	3781	
5°	3790	3784	3751	3781	3772	360
15°	3632	3644	3641	3690	3690	1024
25°	3315	3362	3401	3476	3478	1528
35°	2881	2958	3058	3156	3184	1803
45°	2368	2492	2644	2762	2795	1826
55°	1802	1963	2152	2287	2334	1613
65°	1219	1394	1611	1769	1818	1209
75°	634	818	1058	1226	1294	673
85°	140	347	588	751	816	161
90°	2	196	415	571	627	9
95°	2	186	403	552	606	2
105°	2	161	378	520	566	2
115°	5	140	319	462	513	4
125°	5	119	273	394	443	4
135°	5	93	228	324	364	4
145°	5	68	158	245	275	3
155°	7	47	98	156	182	3
165°	7	30	54	72	93	2
175°	7	12	16	16	9	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3781.2	3781.2	3781.2	3781.2	3781.2
2.5°	3806.8	3795.2	3755.5	3781.2	3769.5
5°	3790.5	3783.5	3750.9	3781.2	3771.8
7.5°	3764.8	3762.5	3736.9	3771.8	3762.5
10°	3729.9	3734.5	3713.6	3750.9	3743.9
12.5°	3685.6	3692.6	3683.3	3725.2	3720.6
15°	3632.0	3643.6	3641.3	3690.2	3690.2
17.5°	3566.7	3583.0	3592.3	3648.3	3648.3
20°	3489.8	3515.4	3534.1	3594.7	3604.0
22.5°	3412.8	3443.1	3471.1	3534.1	3548.0
25°	3314.9	3361.6	3401.2	3475.8	3478.1
27.5°	3219.4	3270.6	3324.3	3396.5	3403.5
30°	3114.4	3179.7	3245.0	3314.9	3335.9
32.5°	3002.6	3074.8	3147.1	3240.3	3268.3
35°	2881.3	2958.3	3058.5	3156.4	3184.4
37.5°	2760.1	2846.4	2962.9	3063.2	3088.8
40°	2636.6	2732.1	2862.7	2965.3	2995.6
42.5°	2499.0	2615.6	2755.4	2865.0	2900.0
45°	2368.5	2492.0	2643.6	2762.4	2795.1
47.5°	2230.9	2361.5	2524.7	2650.5	2687.8
50°	2084.1	2233.3	2408.1	2534.0	2569.0
52.5°	1946.5	2098.1	2282.2	2412.8	2461.7
55°	1802.0	1962.8	2151.7	2286.9	2333.5
57.5°	1666.8	1820.6	2023.5	2158.7	2216.9
60°	1512.9	1683.1	1885.9	2032.8	2079.4
62.5°	1368.4	1540.9	1750.7	1902.2	1955.9
65°	1219.2	1394.0	1610.8	1769.4	1818.3
67.5°	1079.3	1251.8	1473.3	1629.5	1692.4
70°	925.5	1107.3	1333.4	1494.3	1547.9
72.5°	773.9	962.8	1193.6	1366.1	1426.7
75°	634.1	818.2	1058.4	1226.2	1293.8
77.5°	498.9	685.4	927.8	1100.3	1158.6
80°	363.7	559.5	806.6	976.8	1032.7
82.5°	240.1	445.3	690.0	860.2	920.8
85°	139.9	347.3	587.5	750.6	815.9
87.5°	60.6	263.4	491.9	652.7	706.3
90°	2.3	195.8	414.9	571.1	627.1
92.5°	2.3	191.2	405.6	559.5	613.1
95°	2.3	186.5	403.3	552.5	606.1
97.5°	2.3	184.2	398.6	547.8	599.1
100°	2.3	177.2	391.6	538.5	589.8
102.5°	2.3	167.8	384.6	529.2	578.1
105°	2.3	160.9	377.7	519.9	566.5
107.5°	2.3	153.9	366.0	508.2	554.8
110°	2.3	146.9	347.3	496.5	543.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	144.5	333.4	480.2	529.2
115°	4.7	139.9	319.4	461.6	512.9
117.5°	4.7	137.5	307.7	442.9	496.5
120°	4.7	130.5	296.1	426.6	477.9
122.5°	4.7	123.6	284.4	410.3	461.6
125°	4.7	118.9	272.7	394.0	442.9
127.5°	4.7	111.9	263.4	377.7	421.9
130°	4.7	107.2	251.8	359.0	403.3
132.5°	4.7	100.2	240.1	340.4	382.3
135°	4.7	93.2	228.5	324.0	363.7
137.5°	4.7	83.9	214.5	305.4	342.7
140°	4.7	76.9	195.8	286.7	321.7
142.5°	4.7	72.3	177.2	265.8	298.4
145°	4.7	67.6	158.5	244.8	275.1
147.5°	4.7	62.9	142.2	223.8	251.8
150°	4.7	55.9	125.9	205.1	228.5
152.5°	7.0	51.3	111.9	181.8	205.1
155°	7.0	46.6	97.9	156.2	181.8
157.5°	7.0	42.0	83.9	130.5	158.5
160°	7.0	37.3	72.3	107.2	135.2
162.5°	7.0	35.0	62.9	88.6	114.2
165°	7.0	30.3	53.6	72.3	93.2
167.5°	7.0	23.3	44.3	55.9	76.9
170°	7.0	18.6	35.0	39.6	58.3
172.5°	7.0	14.0	25.6	28.0	30.3
175°	7.0	11.7	16.3	16.3	9.3
177.5°	7.0	9.3	9.3	9.3	4.7
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)