

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: P567511

Luminaire Tested: **8SNX-168HL-LN-UNV-L935-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567511
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-L935-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3500K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

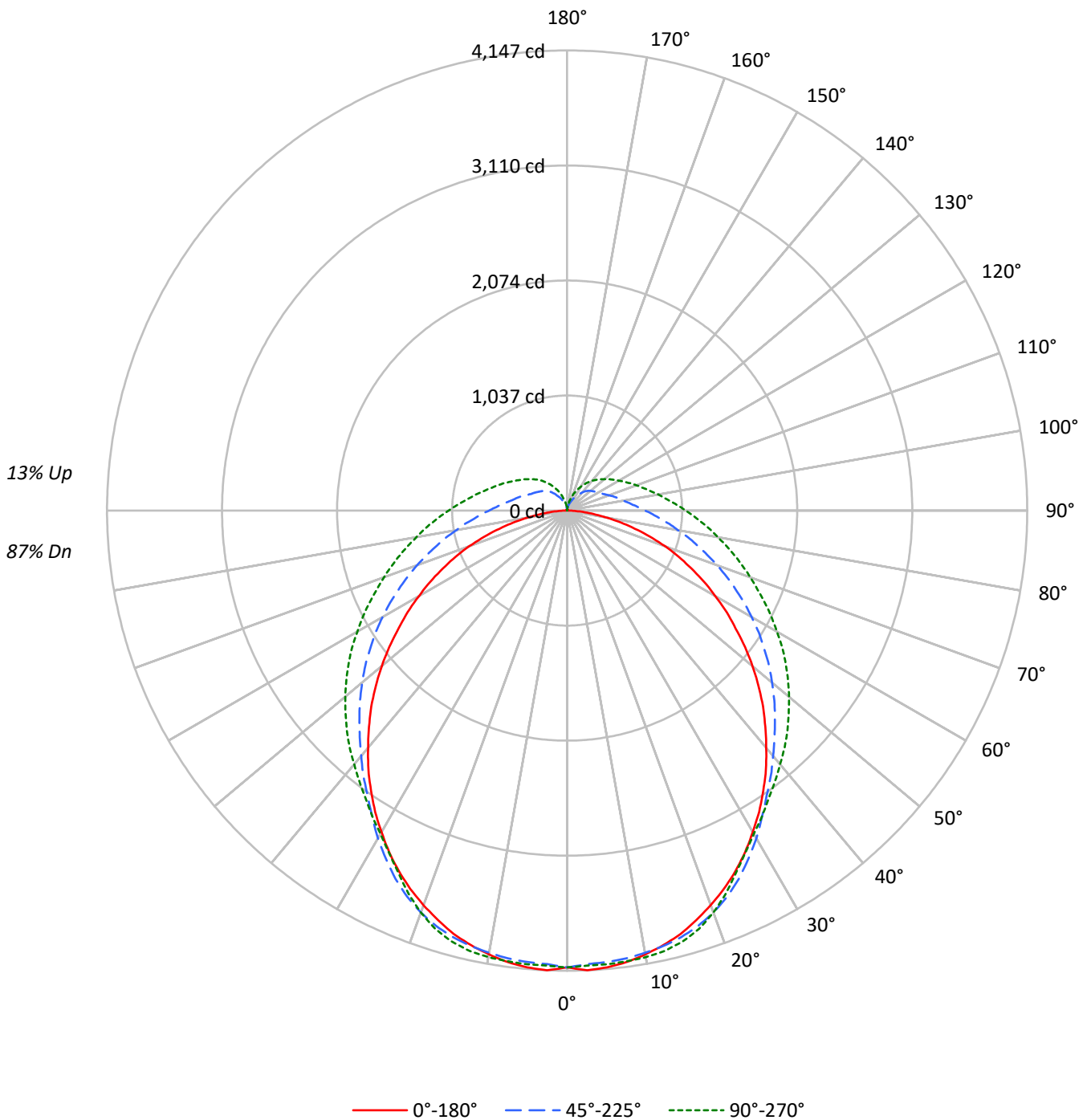
Lumens per Lamp: N/A
Luminaire Lumens: 14861.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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

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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	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°	22156	22156	22156
5°	22282	21164	20951
10°	22114	20367	19984
15°	21889	19611	19009
20°	21510	18759	17767
25°	21100	17722	16310
30°	20546	16554	15093
35°	19954	15363	14185
40°	19275	14408	13451
45°	18616	13561	12817
50°	17825	12782	12178
55°	16896	11999	11553
60°	16019	11218	10899
65°	15049	10430	10300
70°	13949	9692	9759
75°	12202	8973	9312
80°	9918	8355	8934
85°	7162	7925	8717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.1	2.6
10°-20°	1124.4	7.6
20°-30°	1674.4	11.3
30°-40°	1975.7	13.3
40°-50°	2060.4	13.9
50°-60°	1936.2	13.0
60°-70°	1635.1	11.0
70°-80°	1235.5	8.3
80°-90°	851.6	5.7
90°-100°	596.0	4.0
100°-110°	444.7	3.0
110°-120°	335.3	2.3
120°-130°	250.0	1.7
130°-140°	175.5	1.2
140°-150°	106.1	0.7
150°-160°	50.7	0.3
160°-170°	16.3	0.1
170°-180°	1.9	0.0
0°-30°	3189.9	21.5
0°-40°	5165.5	34.8
0°-60°	9162.1	61.7
0°-90°	12884.4	86.7
90°-120°	1376.0	9.3
90°-150°	1907.7	12.8
90°-180°	1977.0	13.3
0°-180°	14861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4117	4117	4117	4117	4117	
5°	4132	4124	4084	4114	4104	392
15°	3950	3968	3978	4029	4021	1112
25°	3588	3661	3661	3628	3600	1651
35°	3081	3195	3134	3159	3167	1927
45°	2497	2620	2648	2756	2807	1923
55°	1854	2013	2167	2341	2404	1664
65°	1234	1431	1673	1892	1965	1226
75°	632	877	1214	1469	1562	673
85°	144	451	842	1119	1217	161
90°	2	320	703	972	1068	10
95°	2	249	595	852	940	2
105°	5	179	458	665	741	5
115°	5	154	355	529	597	5
125°	8	131	300	433	489	7
135°	8	101	249	353	396	6
145°	10	73	174	270	302	6
155°	10	48	106	171	199	5
165°	13	30	55	76	101	3
175°	13	13	15	15	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4116.8	4116.8	4116.8	4116.8	4116.8
2.5°	4147.0	4136.9	4091.6	4116.8	4104.2
5°	4131.9	4124.3	4084.0	4114.3	4104.2
7.5°	4104.2	4101.7	4071.4	4106.7	4096.6
10°	4061.3	4068.9	4046.2	4094.1	4086.5
12.5°	4011.0	4026.1	4018.5	4071.4	4063.9
15°	3950.5	3968.1	3978.2	4028.6	4021.0
17.5°	3869.9	3902.6	3925.3	3965.6	3953.0
20°	3784.2	3829.6	3854.8	3874.9	3854.8
22.5°	3691.0	3751.5	3766.6	3756.5	3736.3
25°	3587.7	3660.8	3660.8	3628.0	3600.3
27.5°	3471.8	3562.5	3537.3	3499.5	3476.8
30°	3345.8	3454.2	3411.3	3368.5	3363.5
32.5°	3219.9	3333.2	3270.2	3260.2	3267.7
35°	3081.3	3194.7	3134.2	3159.4	3166.9
37.5°	2942.7	3056.1	3015.8	3053.6	3076.2
40°	2791.5	2912.5	2887.3	2955.3	2985.5
42.5°	2642.9	2768.9	2766.4	2854.5	2899.9
45°	2496.8	2620.2	2647.9	2756.3	2806.7
47.5°	2338.0	2464.0	2532.0	2658.0	2708.4
50°	2181.8	2317.9	2411.1	2552.2	2610.1
52.5°	2020.6	2164.2	2292.7	2448.9	2509.4
55°	1854.3	2013.0	2166.7	2340.6	2403.6
57.5°	1705.7	1866.9	2048.3	2227.2	2300.3
60°	1541.9	1720.8	1919.8	2108.8	2181.8
62.5°	1393.3	1577.2	1798.9	1997.9	2076.0
65°	1234.5	1431.0	1672.9	1892.1	1965.2
67.5°	1088.4	1290.0	1554.5	1776.2	1856.8
70°	937.2	1151.4	1438.6	1672.9	1756.1
72.5°	781.0	1007.8	1322.7	1572.1	1657.8
75°	632.4	876.8	1214.4	1468.8	1562.1
77.5°	493.8	750.8	1116.1	1378.1	1468.8
80°	357.8	637.4	1012.8	1284.9	1378.1
82.5°	236.8	539.2	929.7	1201.8	1300.0
85°	143.6	451.0	841.5	1118.6	1216.9
87.5°	65.5	377.9	771.0	1045.6	1141.3
90°	2.5	320.0	702.9	972.5	1068.2
92.5°	2.5	279.7	647.5	909.5	1002.7
95°	2.5	249.4	594.6	851.6	939.8
97.5°	2.5	229.3	554.3	796.1	881.8
100°	2.5	209.1	514.0	745.8	833.9
102.5°	5.0	191.5	483.7	700.4	783.5
105°	5.0	178.9	458.5	665.1	740.7
107.5°	5.0	171.3	430.8	629.9	700.4
110°	5.0	163.8	400.6	594.6	665.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.0	158.7	377.9	564.4	632.4
115°	5.0	153.7	355.2	529.1	597.1
117.5°	5.0	151.2	342.6	501.4	566.9
120°	7.6	143.6	327.5	476.2	539.2
122.5°	7.6	136.1	312.4	456.0	511.4
125°	7.6	131.0	299.8	433.3	488.8
127.5°	7.6	123.5	287.2	413.2	463.6
130°	7.6	115.9	277.1	393.0	440.9
132.5°	7.6	108.3	264.5	372.9	418.2
135°	7.6	100.8	249.4	352.7	395.6
137.5°	7.6	93.2	234.3	332.6	372.9
140°	7.6	85.7	214.2	312.4	350.2
142.5°	7.6	78.1	194.0	292.3	325.0
145°	10.1	73.1	173.8	269.6	302.3
147.5°	10.1	65.5	153.7	246.9	274.6
150°	10.1	60.5	138.6	224.2	249.4
152.5°	10.1	52.9	123.5	199.0	224.2
155°	10.1	47.9	105.8	171.3	199.0
157.5°	10.1	42.8	90.7	143.6	173.8
160°	10.1	40.3	78.1	118.4	148.6
162.5°	12.6	35.3	65.5	95.7	123.5
165°	12.6	30.2	55.4	75.6	100.8
167.5°	12.6	25.2	45.4	57.9	78.1
170°	12.6	20.2	35.3	40.3	60.5
172.5°	12.6	15.1	25.2	27.7	30.2
175°	12.6	12.6	15.1	15.1	7.6
177.5°	12.6	12.6	10.1	7.6	2.5
180°	7.6	7.6	7.6	7.6	7.6

(END OF REPORT)