

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: P567515

Luminaire Tested: **8SNX-168HL-LW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567515
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-LW-UNV-L835-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

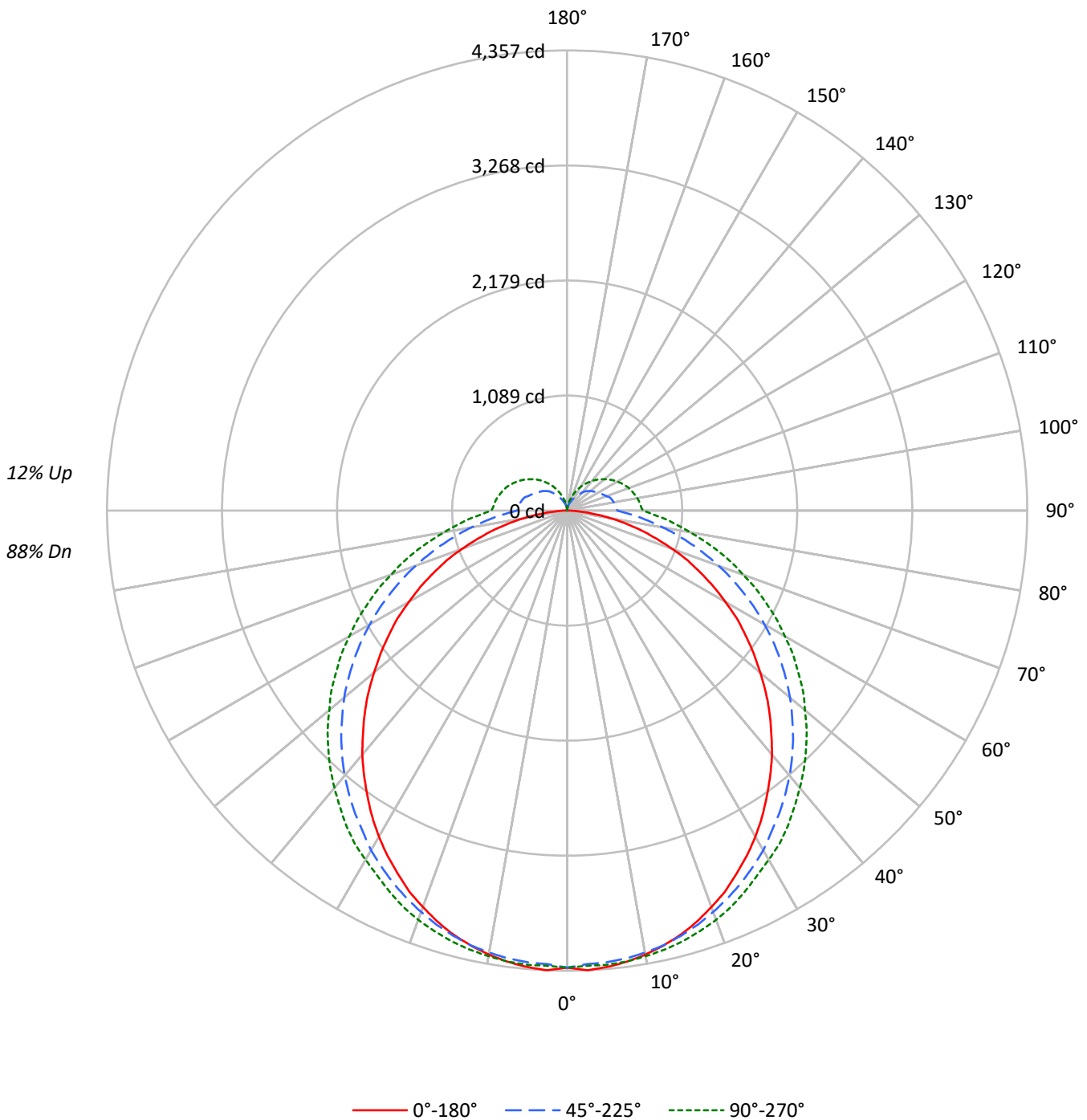
Lumens per Lamp: N/A
Luminaire Lumens: 15579.0 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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	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°	23289	23289	23289
5°	23393	22245	22035
10°	23242	21392	20952
15°	23031	20543	19964
20°	22702	19682	19010
25°	22311	18843	18031
30°	21887	18020	17131
35°	21354	17157	16324
40°	20834	16348	15445
45°	20209	15494	14608
50°	19486	14610	13717
55°	18791	13637	12836
60°	17988	12612	11888
65°	17009	11494	10907
70°	15763	10281	9844
75°	14002	8949	8827
80°	11536	7615	7662
85°	7985	6332	6689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.8	2.6
10°-20°	1181.7	7.6
20°-30°	1797.7	11.5
30°-40°	2185.8	14.0
40°-50°	2312.6	14.8
50°-60°	2167.7	13.9
60°-70°	1783.3	11.4
70°-80°	1233.9	7.9
80°-90°	686.1	4.4
90°-100°	452.0	2.9
100°-110°	405.3	2.6
110°-120°	335.5	2.2
120°-130°	259.4	1.7
130°-140°	183.6	1.2
140°-150°	110.7	0.7
150°-160°	53.2	0.3
160°-170°	17.4	0.1
170°-180°	2.1	0.0
0°-30°	3390.2	21.8
0°-40°	5576.1	35.8
0°-60°	10056.3	64.6
0°-90°	13759.7	88.3
90°-120°	1192.9	7.7
90°-150°	1746.6	11.2
90°-180°	1819.0	11.7
0°-180°	15579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4327	4327	4327	4327	4327	
5°	4338	4330	4293	4327	4317	412
15°	4156	4170	4167	4223	4223	1172
25°	3794	3847	3892	3978	3980	1749
35°	3298	3386	3500	3612	3644	2064
45°	2710	2852	3025	3161	3199	2089
55°	2062	2246	2462	2617	2670	1846
65°	1395	1595	1844	2025	2081	1383
75°	726	936	1211	1403	1481	770
85°	160	398	672	859	934	184
90°	3	224	475	654	718	11
95°	3	213	462	632	694	2
105°	3	184	432	595	648	3
115°	5	160	366	528	587	4
125°	5	136	312	451	507	5
135°	5	107	261	371	416	4
145°	5	77	181	280	315	3
155°	8	53	112	179	208	4
165°	8	35	61	83	107	2
175°	8	13	19	19	11	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4327.2	4327.2	4327.2	4327.2	4327.2
2.5°	4356.6	4343.3	4297.9	4327.2	4313.9
5°	4337.9	4329.9	4292.6	4327.2	4316.6
7.5°	4308.6	4305.9	4276.6	4316.6	4305.9
10°	4268.6	4273.9	4249.9	4292.6	4284.6
12.5°	4217.9	4225.9	4215.2	4263.2	4257.9
15°	4156.5	4169.8	4167.2	4223.2	4223.2
17.5°	4081.8	4100.5	4111.1	4175.2	4175.2
20°	3993.8	4023.1	4044.5	4113.8	4124.5
22.5°	3905.7	3940.4	3972.4	4044.5	4060.5
25°	3793.7	3847.0	3892.4	3977.8	3980.4
27.5°	3684.3	3743.0	3804.3	3887.0	3895.1
30°	3564.2	3638.9	3713.6	3793.7	3817.7
32.5°	3436.2	3518.9	3601.6	3708.3	3740.3
35°	3297.5	3385.5	3500.2	3612.3	3644.3
37.5°	3158.7	3257.4	3390.8	3505.5	3534.9
40°	3017.3	3126.7	3276.1	3393.5	3428.2
42.5°	2859.9	2993.3	3153.4	3278.8	3318.8
45°	2710.5	2851.9	3025.3	3161.4	3198.7
47.5°	2553.1	2702.5	2889.3	3033.3	3076.0
50°	2385.1	2555.8	2755.9	2899.9	2940.0
52.5°	2227.7	2401.1	2611.8	2761.2	2817.2
55°	2062.2	2246.3	2462.4	2617.2	2670.5
57.5°	1907.5	2083.6	2315.7	2470.4	2537.1
60°	1731.4	1926.2	2158.3	2326.4	2379.7
62.5°	1566.0	1763.4	2003.6	2177.0	2238.3
65°	1395.3	1595.4	1843.5	2024.9	2080.9
67.5°	1235.2	1432.6	1686.1	1864.8	1936.9
70°	1059.1	1267.2	1526.0	1710.1	1771.4
72.5°	885.7	1101.8	1365.9	1563.4	1632.7
75°	725.7	936.4	1211.2	1403.3	1480.7
77.5°	570.9	784.3	1061.8	1259.2	1325.9
80°	416.2	640.3	923.1	1117.8	1181.9
82.5°	274.8	509.6	789.7	984.4	1053.8
85°	160.1	397.5	672.3	859.0	933.7
87.5°	69.4	301.5	562.9	747.0	808.4
90°	2.7	224.1	474.9	653.6	717.7
92.5°	2.7	218.8	464.2	640.3	701.6
95°	2.7	213.4	461.5	632.3	693.6
97.5°	2.7	210.8	456.2	626.9	685.6
100°	2.7	202.8	448.2	616.3	675.0
102.5°	2.7	192.1	440.2	605.6	661.6
105°	2.7	184.1	432.2	594.9	648.3
107.5°	2.7	176.1	418.9	581.6	634.9
110°	2.7	168.1	397.5	568.3	621.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	165.4	381.5	549.6	605.6
115°	5.3	160.1	365.5	528.2	586.9
117.5°	5.3	157.4	352.2	506.9	568.3
120°	5.3	149.4	338.8	488.2	546.9
122.5°	5.3	141.4	325.5	469.5	528.2
125°	5.3	136.1	312.1	450.9	506.9
127.5°	5.3	128.1	301.5	432.2	482.9
130°	5.3	122.7	288.1	410.8	461.5
132.5°	5.3	114.7	274.8	389.5	437.5
135°	5.3	106.7	261.4	370.8	416.2
137.5°	5.3	96.0	245.4	349.5	392.2
140°	5.3	88.0	224.1	328.1	368.2
142.5°	5.3	82.7	202.8	304.1	341.5
145°	5.3	77.4	181.4	280.1	314.8
147.5°	5.3	72.0	162.7	256.1	288.1
150°	5.3	64.0	144.1	234.8	261.4
152.5°	8.0	58.7	128.1	208.1	234.8
155°	8.0	53.4	112.0	178.7	208.1
157.5°	8.0	48.0	96.0	149.4	181.4
160°	8.0	42.7	82.7	122.7	154.7
162.5°	8.0	40.0	72.0	101.4	130.7
165°	8.0	34.7	61.4	82.7	106.7
167.5°	8.0	26.7	50.7	64.0	88.0
170°	8.0	21.3	40.0	45.4	66.7
172.5°	8.0	16.0	29.3	32.0	34.7
175°	8.0	13.3	18.7	18.7	10.7
177.5°	8.0	10.7	10.7	10.7	5.3
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)