

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: P567526

Luminaire Tested: **8SNX-168HL-SLW-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567526
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-SLW-UNV-L930-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

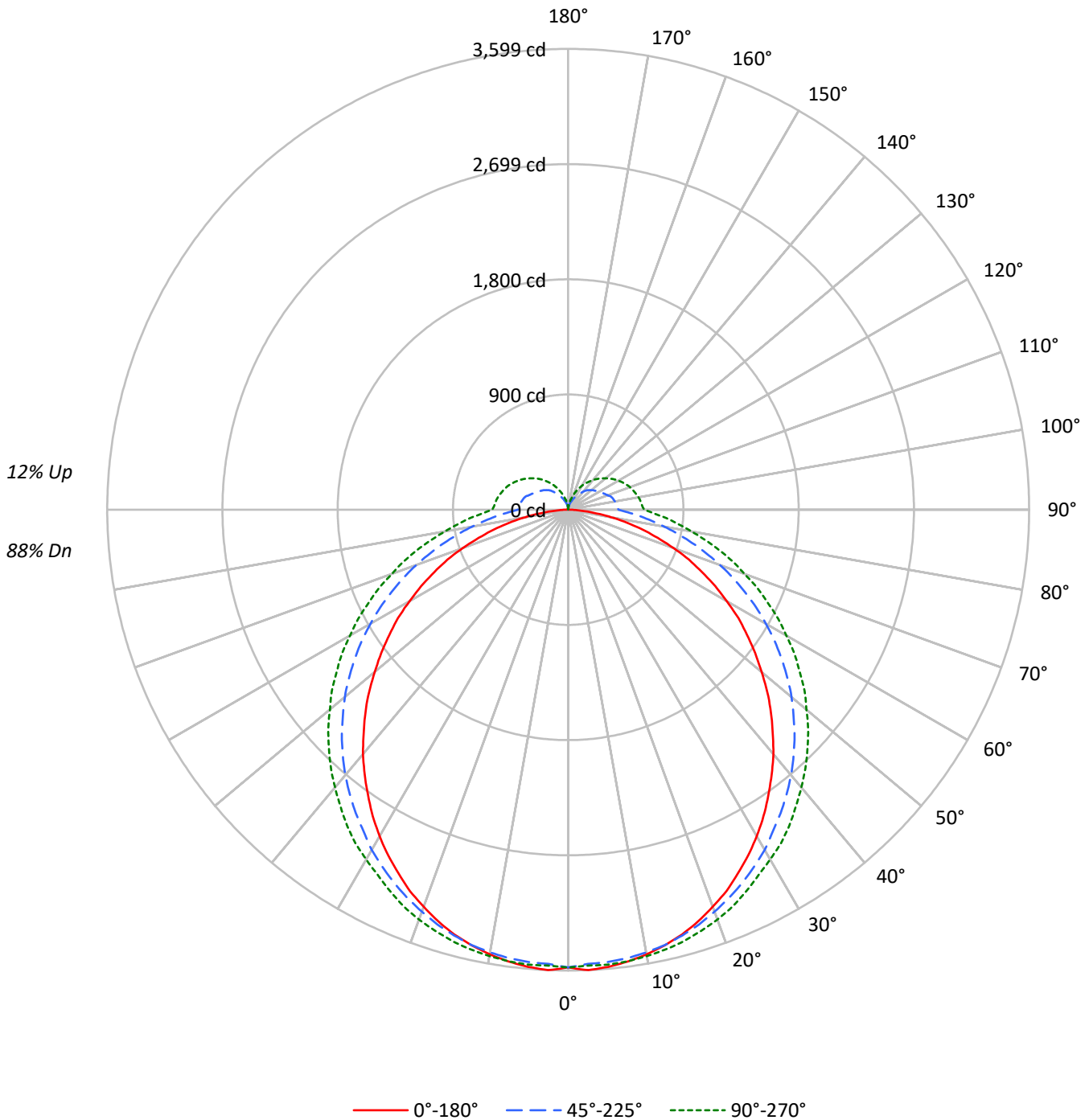
Lumens per Lamp: N/A
Luminaire Lumens: 12870.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.08')
CIE Type: Semi-Direct

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°	19239	19239	19239
5°	19343	18761	18722
10°	19236	18401	18274
15°	19079	18013	17851
20°	18825	17587	17411
25°	18521	17158	16909
30°	18190	16728	16447
35°	17769	16245	16049
40°	17362	15804	15562
45°	16868	15315	15100
50°	16296	14794	14570
55°	15752	14183	14042
60°	15125	13522	13435
65°	14360	12766	12788
70°	13387	11914	12043
75°	12001	10931	11360
80°	10063	9960	10496
85°	7298	9104	9935



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	2.6
10°-20°	976.2	7.6
20°-30°	1485.1	11.5
30°-40°	1805.8	14.0
40°-50°	1910.4	14.8
50°-60°	1790.8	13.9
60°-70°	1473.2	11.4
70°-80°	1019.4	7.9
80°-90°	566.8	4.4
90°-100°	373.4	2.9
100°-110°	334.9	2.6
110°-120°	277.1	2.2
120°-130°	214.3	1.7
130°-140°	151.7	1.2
140°-150°	91.5	0.7
150°-160°	43.9	0.3
160°-170°	14.4	0.1
170°-180°	1.8	0.0
0°-30°	2800.7	21.8
0°-40°	4606.5	35.8
0°-60°	8307.7	64.6
0°-90°	11367.1	88.3
90°-120°	985.4	7.7
90°-150°	1442.8	11.2
90°-180°	1503.0	11.7
0°-180°	12870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3575	3575	3575	3575	3575	
5°	3584	3577	3546	3575	3566	340
15°	3434	3445	3443	3489	3489	968
25°	3134	3178	3216	3286	3288	1445
35°	2724	2797	2892	2984	3011	1705
45°	2239	2356	2499	2612	2642	1726
55°	1704	1856	2034	2162	2206	1525
65°	1153	1318	1523	1673	1719	1143
75°	600	774	1001	1159	1223	636
85°	132	328	555	710	771	152
90°	2	185	392	540	593	9
95°	2	176	381	522	573	2
105°	2	152	357	492	536	2
115°	4	132	302	436	485	4
125°	4	112	258	372	419	4
135°	4	88	216	306	344	3
145°	4	64	150	231	260	3
155°	7	44	93	148	172	3
165°	7	29	51	68	88	2
175°	7	11	15	15	9	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3574.8	3574.8	3574.8	3574.8	3574.8
2.5°	3599.0	3588.0	3550.5	3574.8	3563.8
5°	3583.6	3577.0	3546.1	3574.8	3566.0
7.5°	3559.4	3557.2	3532.9	3566.0	3557.2
10°	3526.3	3530.7	3510.9	3546.1	3539.5
12.5°	3484.4	3491.0	3482.2	3521.9	3517.5
15°	3433.7	3444.8	3442.6	3488.8	3488.8
17.5°	3372.0	3387.5	3396.3	3449.2	3449.2
20°	3299.3	3323.5	3341.2	3398.5	3407.3
22.5°	3226.6	3255.2	3281.7	3341.2	3354.4
25°	3134.0	3178.1	3215.5	3286.1	3288.3
27.5°	3043.6	3092.1	3142.8	3211.1	3217.8
30°	2944.5	3006.2	3067.9	3134.0	3153.8
32.5°	2838.7	2907.0	2975.3	3063.5	3089.9
35°	2724.1	2796.8	2891.6	2984.1	3010.6
37.5°	2609.5	2691.0	2801.2	2896.0	2920.2
40°	2492.7	2583.0	2706.4	2803.4	2832.1
42.5°	2362.6	2472.8	2605.1	2708.6	2741.7
45°	2239.2	2356.0	2499.3	2611.7	2642.5
47.5°	2109.2	2232.6	2386.9	2505.9	2541.1
50°	1970.3	2111.4	2276.7	2395.7	2428.7
52.5°	1840.3	1983.5	2157.7	2281.1	2327.4
55°	1703.6	1855.7	2034.2	2162.1	2206.1
57.5°	1575.8	1721.3	1913.0	2040.8	2095.9
60°	1430.4	1591.2	1783.0	1921.8	1965.9
62.5°	1293.7	1456.8	1655.2	1798.4	1849.1
65°	1152.7	1318.0	1522.9	1672.8	1719.1
67.5°	1020.4	1183.5	1392.9	1540.6	1600.1
70°	875.0	1046.9	1260.7	1412.7	1463.4
72.5°	731.7	910.2	1128.4	1291.5	1348.8
75°	599.5	773.6	1000.6	1159.3	1223.2
77.5°	471.6	648.0	877.2	1040.3	1095.4
80°	343.8	528.9	762.6	923.5	976.3
82.5°	227.0	421.0	652.4	813.3	870.6
85°	132.2	328.4	555.4	709.7	771.4
87.5°	57.3	249.0	465.0	617.1	667.8
90°	2.2	185.1	392.3	540.0	592.9
92.5°	2.2	180.7	383.5	528.9	579.6
95°	2.2	176.3	381.3	522.3	573.0
97.5°	2.2	174.1	376.9	517.9	566.4
100°	2.2	167.5	370.3	509.1	557.6
102.5°	2.2	158.7	363.6	500.3	546.6
105°	2.2	152.1	357.0	491.5	535.6
107.5°	2.2	145.5	346.0	480.5	524.5
110°	2.2	138.8	328.4	469.4	513.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	136.6	315.2	454.0	500.3
115°	4.4	132.2	301.9	436.4	484.9
117.5°	4.4	130.0	290.9	418.7	469.4
120°	4.4	123.4	279.9	403.3	451.8
122.5°	4.4	116.8	268.9	387.9	436.4
125°	4.4	112.4	257.9	372.5	418.7
127.5°	4.4	105.8	249.0	357.0	398.9
130°	4.4	101.4	238.0	339.4	381.3
132.5°	4.4	94.8	227.0	321.8	361.4
135°	4.4	88.2	216.0	306.3	343.8
137.5°	4.4	79.3	202.8	288.7	324.0
140°	4.4	72.7	185.1	271.1	304.1
142.5°	4.4	68.3	167.5	251.2	282.1
145°	4.4	63.9	149.9	231.4	260.1
147.5°	4.4	59.5	134.4	211.6	238.0
150°	4.4	52.9	119.0	193.9	216.0
152.5°	6.6	48.5	105.8	171.9	193.9
155°	6.6	44.1	92.6	147.7	171.9
157.5°	6.6	39.7	79.3	123.4	149.9
160°	6.6	35.3	68.3	101.4	127.8
162.5°	6.6	33.1	59.5	83.7	108.0
165°	6.6	28.7	50.7	68.3	88.2
167.5°	6.6	22.0	41.9	52.9	72.7
170°	6.6	17.6	33.1	37.5	55.1
172.5°	6.6	13.2	24.2	26.4	28.7
175°	6.6	11.0	15.4	15.4	8.8
177.5°	6.6	8.8	8.8	8.8	4.4
180°	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)