

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: P567523

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567523
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-L835-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

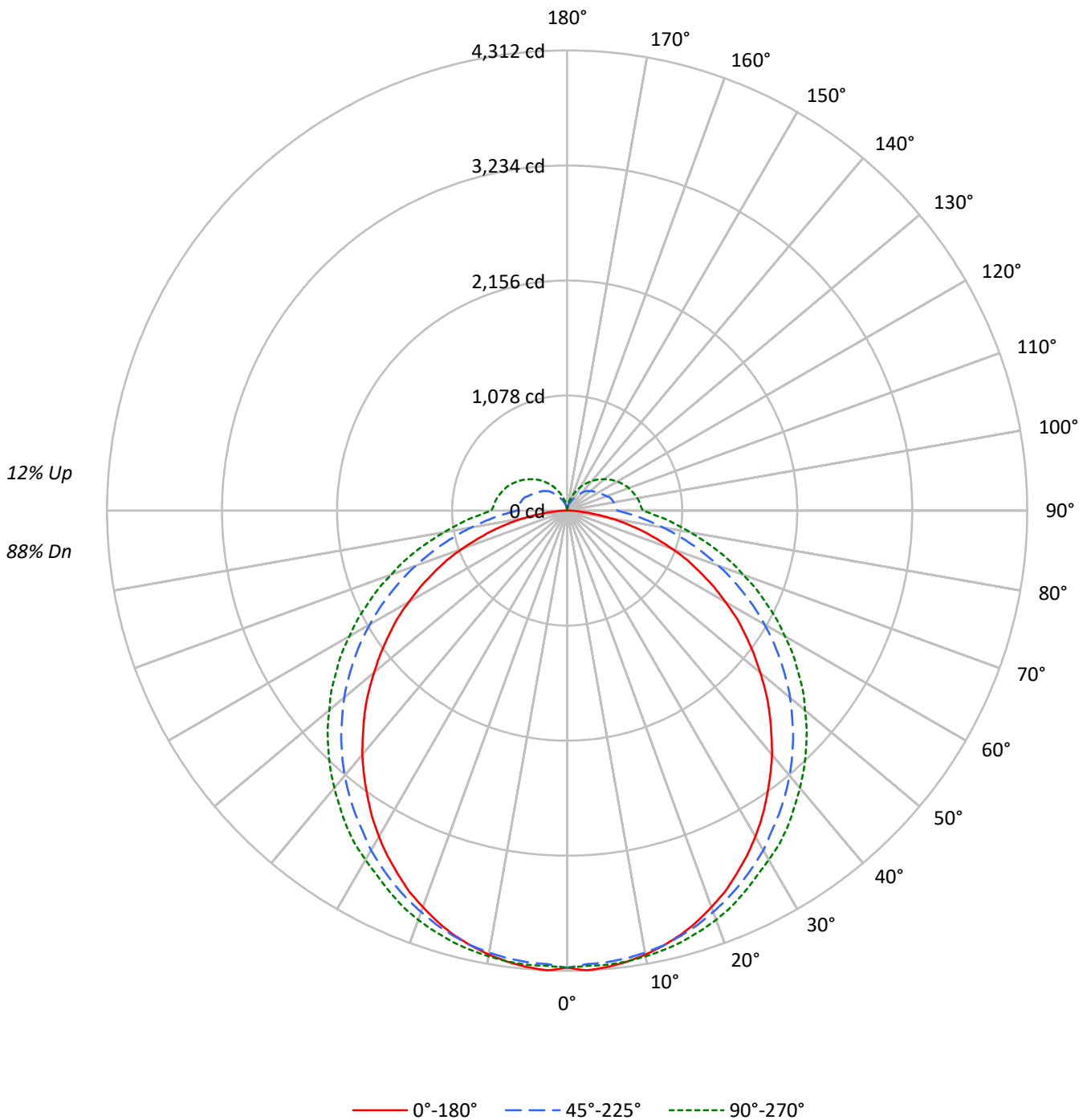
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15420.0 lumens
Efficiency: N/A
Efficacy: 133.2 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°	23051	23051	23051
5°	23175	22478	22431
10°	23047	22047	21894
15°	22859	21582	21388
20°	22555	21071	20861
25°	22191	20558	20259
30°	21794	20042	19706
35°	21289	19463	19229
40°	20801	18935	18645
45°	20211	18350	18092
50°	19524	17725	17458
55°	18873	16994	16825
60°	18122	16201	16097
65°	17204	15296	15321
70°	16039	14273	14429
75°	14378	13096	13610
80°	12057	11934	12576
85°	8744	10907	11903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.6	2.6
10°-20°	1169.7	7.6
20°-30°	1779.4	11.5
30°-40°	2163.5	14.0
40°-50°	2289.0	14.8
50°-60°	2145.6	13.9
60°-70°	1765.1	11.4
70°-80°	1221.3	7.9
80°-90°	679.1	4.4
90°-100°	447.4	2.9
100°-110°	401.2	2.6
110°-120°	332.1	2.2
120°-130°	256.7	1.7
130°-140°	181.7	1.2
140°-150°	109.6	0.7
150°-160°	52.7	0.3
160°-170°	17.2	0.1
170°-180°	2.1	0.0
0°-30°	3355.6	21.8
0°-40°	5519.2	35.8
0°-60°	9953.7	64.6
0°-90°	13619.3	88.3
90°-120°	1180.7	7.7
90°-150°	1728.8	11.2
90°-180°	1801.0	11.7
0°-180°	15420.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4283	4283	4283	4283	4283	
5°	4294	4286	4249	4283	4272	408
15°	4114	4127	4125	4180	4180	1160
25°	3755	3808	3853	3937	3940	1731
35°	3264	3351	3464	3575	3607	2043
45°	2683	2823	2994	3129	3166	2068
55°	2041	2223	2437	2590	2643	1827
65°	1381	1579	1825	2004	2060	1369
75°	718	927	1199	1389	1466	762
85°	158	394	665	850	924	182
90°	3	222	470	647	710	10
95°	3	211	457	626	687	2
105°	3	182	428	589	642	3
115°	5	158	362	523	581	4
125°	5	135	309	446	502	5
135°	5	106	259	367	412	4
145°	5	77	180	277	312	3
155°	8	53	111	177	206	3
165°	8	34	61	82	106	2
175°	8	13	18	18	11	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4283.1	4283.1	4283.1	4283.1	4283.1
2.5°	4312.1	4298.9	4254.0	4283.1	4269.9
5°	4293.6	4285.7	4248.8	4283.1	4272.5
7.5°	4264.6	4262.0	4232.9	4272.5	4262.0
10°	4225.0	4230.3	4206.5	4248.8	4240.8
12.5°	4174.8	4182.7	4172.2	4219.7	4214.4
15°	4114.1	4127.3	4124.6	4180.1	4180.1
17.5°	4040.1	4058.6	4069.2	4132.6	4132.6
20°	3953.0	3982.0	4003.2	4071.8	4082.4
22.5°	3865.9	3900.2	3931.9	4003.2	4019.0
25°	3755.0	3807.8	3852.7	3937.2	3939.8
27.5°	3646.7	3704.8	3765.5	3847.4	3855.3
30°	3527.9	3601.8	3675.7	3755.0	3778.7
32.5°	3401.1	3483.0	3564.8	3670.5	3702.1
35°	3263.8	3350.9	3464.5	3575.4	3607.1
37.5°	3126.5	3224.2	3356.2	3469.8	3498.8
40°	2986.5	3094.8	3242.7	3358.9	3393.2
42.5°	2830.7	2962.8	3121.2	3245.3	3284.9
45°	2682.9	2822.8	2994.5	3129.1	3166.1
47.5°	2527.1	2674.9	2859.8	3002.4	3044.6
50°	2360.7	2529.7	2727.8	2870.4	2910.0
52.5°	2204.9	2376.6	2585.2	2733.0	2788.5
55°	2041.2	2223.4	2437.3	2590.4	2643.3
57.5°	1888.0	2062.3	2292.1	2445.2	2511.2
60°	1713.8	1906.5	2136.3	2302.6	2355.4
62.5°	1550.0	1745.4	1983.1	2154.7	2215.5
65°	1381.0	1579.1	1824.7	2004.2	2059.7
67.5°	1222.6	1418.0	1668.9	1845.8	1917.1
70°	1048.3	1254.3	1510.4	1692.6	1753.4
72.5°	876.7	1090.6	1352.0	1547.4	1616.1
75°	718.2	926.9	1198.8	1389.0	1465.5
77.5°	565.1	776.3	1051.0	1246.4	1312.4
80°	411.9	633.7	913.7	1106.4	1169.8
82.5°	272.0	504.4	781.6	974.4	1043.0
85°	158.4	393.5	665.4	850.3	924.2
87.5°	68.7	298.4	557.2	739.4	800.1
90°	2.6	221.8	470.0	647.0	710.3
92.5°	2.6	216.5	459.5	633.7	694.5
95°	2.6	211.2	456.8	625.8	686.6
97.5°	2.6	208.6	451.5	620.5	678.6
100°	2.6	200.7	443.6	610.0	668.1
102.5°	2.6	190.1	435.7	599.4	654.9
105°	2.6	182.2	427.8	588.9	641.7
107.5°	2.6	174.3	414.6	575.7	628.5
110°	2.6	166.4	393.5	562.5	615.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	163.7	377.6	544.0	599.4
115°	5.3	158.4	361.8	522.8	580.9
117.5°	5.3	155.8	348.6	501.7	562.5
120°	5.3	147.9	335.4	483.2	541.3
122.5°	5.3	140.0	322.2	464.7	522.8
125°	5.3	134.7	309.0	446.3	501.7
127.5°	5.3	126.7	298.4	427.8	478.0
130°	5.3	121.5	285.2	406.7	456.8
132.5°	5.3	113.5	272.0	385.5	433.1
135°	5.3	105.6	258.8	367.0	411.9
137.5°	5.3	95.1	242.9	345.9	388.2
140°	5.3	87.1	221.8	324.8	364.4
142.5°	5.3	81.9	200.7	301.0	338.0
145°	5.3	76.6	179.6	277.3	311.6
147.5°	5.3	71.3	161.1	253.5	285.2
150°	5.3	63.4	142.6	232.4	258.8
152.5°	7.9	58.1	126.7	206.0	232.4
155°	7.9	52.8	110.9	176.9	206.0
157.5°	7.9	47.5	95.1	147.9	179.6
160°	7.9	42.2	81.9	121.5	153.2
162.5°	7.9	39.6	71.3	100.3	129.4
165°	7.9	34.3	60.7	81.9	105.6
167.5°	7.9	26.4	50.2	63.4	87.1
170°	7.9	21.1	39.6	44.9	66.0
172.5°	7.9	15.8	29.0	31.7	34.3
175°	7.9	13.2	18.5	18.5	10.6
177.5°	7.9	10.6	10.6	10.6	5.3
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)