

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: P567516

Luminaire Tested: **8SNX-168HL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567516
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-L840-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

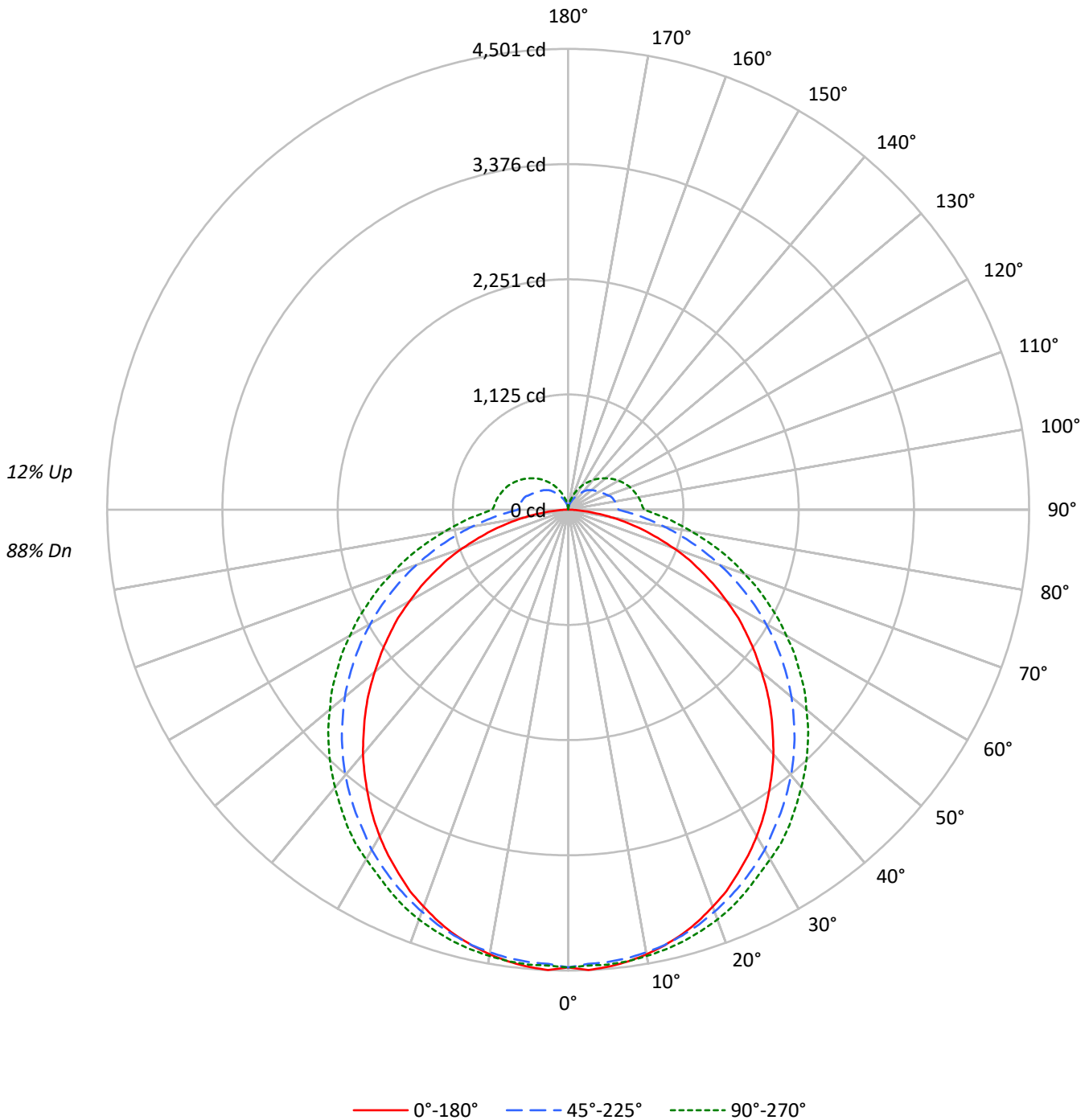
Lumens per Lamp: N/A
Luminaire Lumens: 16094.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

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°	24059	24059	24059
5°	24166	22980	22764
10°	24011	22099	21645
15°	23792	21222	20624
20°	23452	20332	19638
25°	23049	19466	18628
30°	22611	18616	17698
35°	22059	17724	16863
40°	21523	16888	15956
45°	20877	16006	15091
50°	20130	15093	14171
55°	19412	14088	13261
60°	18583	13029	12281
65°	17571	11874	11267
70°	16284	10621	10169
75°	14463	9245	9119
80°	11916	7867	7915
85°	8249	6541	6910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.4	2.6
10°-20°	1220.8	7.6
20°-30°	1857.1	11.5
30°-40°	2258.1	14.0
40°-50°	2389.0	14.8
50°-60°	2239.4	13.9
60°-70°	1842.3	11.4
70°-80°	1274.7	7.9
80°-90°	708.8	4.4
90°-100°	467.0	2.9
100°-110°	418.7	2.6
110°-120°	346.6	2.2
120°-130°	267.9	1.7
130°-140°	189.7	1.2
140°-150°	114.4	0.7
150°-160°	55.0	0.3
160°-170°	18.0	0.1
170°-180°	2.2	0.0
0°-30°	3502.3	21.8
0°-40°	5760.4	35.8
0°-60°	10388.8	64.6
0°-90°	14214.5	88.3
90°-120°	1232.3	7.7
90°-150°	1804.3	11.2
90°-180°	1879.0	11.7
0°-180°	16094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4470	4470	4470	4470	4470	
5°	4481	4473	4434	4470	4459	425
15°	4294	4308	4305	4363	4363	1210
25°	3919	3974	4021	4109	4112	1806
35°	3406	3497	3616	3732	3765	2132
45°	2800	2946	3125	3266	3304	2158
55°	2130	2321	2544	2704	2759	1907
65°	1441	1648	1904	2092	2150	1429
75°	750	967	1251	1450	1530	795
85°	165	411	694	887	965	190
90°	3	232	491	675	741	11
95°	3	220	477	653	717	2
105°	3	190	446	615	670	3
115°	6	165	378	546	606	4
125°	6	141	322	466	524	5
135°	6	110	270	383	430	4
145°	6	80	187	289	325	3
155°	8	55	116	185	215	4
165°	8	36	63	85	110	2
175°	8	14	19	19	11	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4470.3	4470.3	4470.3	4470.3	4470.3
2.5°	4500.6	4486.8	4440.0	4470.3	4456.5
5°	4481.3	4473.0	4434.5	4470.3	4459.3
7.5°	4451.0	4448.2	4417.9	4459.3	4448.2
10°	4409.7	4415.2	4390.4	4434.5	4426.2
12.5°	4357.3	4365.6	4354.5	4404.1	4398.6
15°	4293.9	4307.7	4304.9	4362.8	4362.8
17.5°	4216.7	4236.0	4247.1	4313.2	4313.2
20°	4125.8	4156.1	4178.2	4249.8	4260.8
22.5°	4034.8	4070.7	4103.7	4178.2	4194.7
25°	3919.1	3974.2	4021.1	4109.3	4112.0
27.5°	3806.1	3866.7	3930.1	4015.5	4023.8
30°	3682.1	3759.2	3836.4	3919.1	3943.9
32.5°	3549.8	3635.2	3720.6	3830.9	3864.0
35°	3406.5	3497.4	3615.9	3731.7	3764.7
37.5°	3263.1	3365.1	3502.9	3621.4	3651.7
40°	3117.1	3230.1	3384.4	3505.7	3541.5
42.5°	2954.5	3092.3	3257.6	3387.2	3428.5
45°	2800.1	2946.2	3125.3	3265.9	3304.5
47.5°	2637.5	2791.9	2984.8	3133.6	3177.7
50°	2463.9	2640.3	2847.0	2995.8	3037.2
52.5°	2301.3	2480.4	2698.2	2852.5	2910.4
55°	2130.4	2320.6	2543.8	2703.7	2758.8
57.5°	1970.6	2152.5	2392.2	2552.1	2621.0
60°	1788.7	1989.9	2229.6	2403.3	2458.4
62.5°	1617.8	1821.7	2069.8	2248.9	2312.3
65°	1441.4	1648.1	1904.4	2091.8	2149.7
67.5°	1276.0	1480.0	1741.8	1926.5	2000.9
70°	1094.1	1309.1	1576.5	1766.6	1830.0
72.5°	915.0	1138.2	1411.1	1615.0	1686.7
75°	749.6	967.4	1251.2	1449.7	1529.6
77.5°	589.8	810.3	1096.9	1300.8	1369.8
80°	429.9	661.4	953.6	1154.8	1220.9
82.5°	283.9	526.4	815.8	1017.0	1088.6
85°	165.4	410.6	694.5	887.4	964.6
87.5°	71.7	311.4	581.5	771.7	835.1
90°	2.8	231.5	490.6	675.2	741.4
92.5°	2.8	226.0	479.6	661.4	724.8
95°	2.8	220.5	476.8	653.2	716.6
97.5°	2.8	217.7	471.3	647.7	708.3
100°	2.8	209.5	463.0	636.6	697.3
102.5°	2.8	198.4	454.7	625.6	683.5
105°	2.8	190.2	446.5	614.6	669.7
107.5°	2.8	181.9	432.7	600.8	655.9
110°	2.8	173.6	410.6	587.0	642.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	170.9	394.1	567.7	625.6
115°	5.5	165.4	377.6	545.7	606.3
117.5°	5.5	162.6	363.8	523.6	587.0
120°	5.5	154.3	350.0	504.4	565.0
122.5°	5.5	146.1	336.2	485.1	545.7
125°	5.5	140.6	322.5	465.8	523.6
127.5°	5.5	132.3	311.4	446.5	498.8
130°	5.5	126.8	297.7	424.4	476.8
132.5°	5.5	118.5	283.9	402.4	452.0
135°	5.5	110.2	270.1	383.1	429.9
137.5°	5.5	99.2	253.6	361.0	405.1
140°	5.5	90.9	231.5	339.0	380.3
142.5°	5.5	85.4	209.5	314.2	352.8
145°	5.5	79.9	187.4	289.4	325.2
147.5°	5.5	74.4	168.1	264.6	297.7
150°	5.5	66.1	148.8	242.5	270.1
152.5°	8.3	60.6	132.3	215.0	242.5
155°	8.3	55.1	115.8	184.7	215.0
157.5°	8.3	49.6	99.2	154.3	187.4
160°	8.3	44.1	85.4	126.8	159.9
162.5°	8.3	41.3	74.4	104.7	135.0
165°	8.3	35.8	63.4	85.4	110.2
167.5°	8.3	27.6	52.4	66.1	90.9
170°	8.3	22.0	41.3	46.9	68.9
172.5°	8.3	16.5	30.3	33.1	35.8
175°	8.3	13.8	19.3	19.3	11.0
177.5°	8.3	11.0	11.0	11.0	5.5
180°	5.5	5.5	5.5	5.5	5.5

(END OF REPORT)