

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: P567492

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

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567492
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-FDL-UNV-L840-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

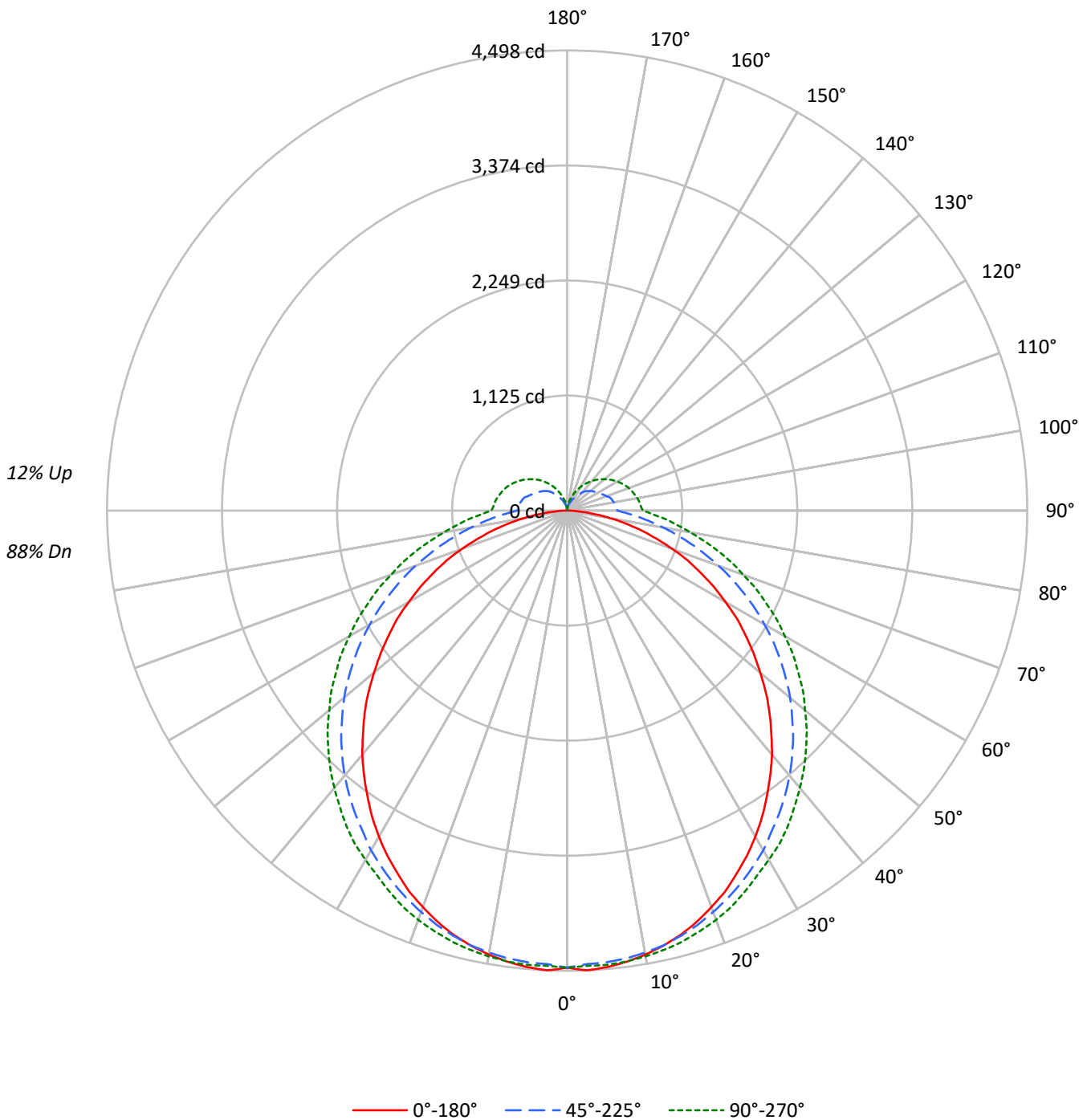
Lumens per Lamp: N/A
Luminaire Lumens: 16085.1 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 115.8
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	24046	24046	24046
5°	24186	23692	23732
10°	24063	23477	23485
15°	23878	23217	23257
20°	23572	22903	22994
25°	23204	22585	22645
30°	22801	22266	22346
35°	22287	21882	22137
40°	21792	21565	21816
45°	21190	21198	21546
50°	20491	20810	21204
55°	19831	20327	20897
60°	19071	19815	20523
65°	18143	19228	20156
70°	16964	18587	19741
75°	15282	17889	19598
80°	12936	17487	19442
85°	9634	17940	20494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.2	2.6
10°-20°	1220.1	7.6
20°-30°	1856.1	11.5
30°-40°	2256.8	14.0
40°-50°	2387.7	14.8
50°-60°	2238.1	13.9
60°-70°	1841.2	11.4
70°-80°	1274.0	7.9
80°-90°	708.4	4.4
90°-100°	466.7	2.9
100°-110°	418.5	2.6
110°-120°	346.4	2.2
120°-130°	267.8	1.7
130°-140°	189.6	1.2
140°-150°	114.3	0.7
150°-160°	54.9	0.3
160°-170°	18.0	0.1
170°-180°	2.2	0.0
0°-30°	3500.3	21.8
0°-40°	5757.2	35.8
0°-60°	10383.0	64.6
0°-90°	14206.6	88.3
90°-120°	1231.6	7.7
90°-150°	1803.3	11.2
90°-180°	1878.0	11.7
0°-180°	16085.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4468	4468	4468	4468	4468	
5°	4479	4470	4432	4468	4457	425
15°	4292	4305	4302	4360	4360	1210
25°	3917	3972	4019	4107	4110	1805
35°	3405	3496	3614	3730	3763	2131
45°	2799	2945	3124	3264	3303	2157
55°	2129	2319	2542	2702	2757	1906
65°	1441	1647	1903	2091	2148	1428
75°	749	967	1250	1449	1529	795
85°	165	410	694	887	964	190
90°	3	231	490	675	741	11
95°	3	220	476	653	716	2
105°	3	190	446	614	669	3
115°	6	165	377	545	606	4
125°	6	140	322	466	523	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°	4467.8	4467.8	4467.8	4467.8	4467.8
2.5°	4498.1	4484.3	4437.5	4467.8	4454.0
5°	4478.8	4470.5	4432.0	4467.8	4456.8
7.5°	4448.5	4445.8	4415.5	4456.8	4445.8
10°	4407.2	4412.7	4387.9	4432.0	4423.7
12.5°	4354.9	4363.1	4352.1	4401.7	4396.2
15°	4291.5	4305.3	4302.5	4360.4	4360.4
17.5°	4214.4	4233.7	4244.7	4310.8	4310.8
20°	4123.5	4153.8	4175.8	4247.4	4258.4
22.5°	4032.6	4068.4	4101.4	4175.8	4192.3
25°	3916.9	3972.0	4018.8	4107.0	4109.7
27.5°	3804.0	3864.6	3927.9	4013.3	4021.6
30°	3680.0	3757.1	3834.3	3916.9	3941.7
32.5°	3547.8	3633.2	3718.6	3828.7	3861.8
35°	3404.6	3495.5	3613.9	3729.6	3762.6
37.5°	3261.3	3363.2	3501.0	3619.4	3649.7
40°	3115.3	3228.3	3382.5	3503.7	3539.5
42.5°	2952.8	3090.5	3255.8	3385.3	3426.6
45°	2798.6	2944.6	3123.6	3264.1	3302.6
47.5°	2636.1	2790.3	2983.1	3131.9	3175.9
50°	2462.5	2638.8	2845.4	2994.1	3035.5
52.5°	2300.0	2479.0	2696.7	2850.9	2908.7
55°	2129.2	2319.3	2542.4	2702.2	2757.2
57.5°	1969.5	2151.3	2390.9	2550.7	2619.5
60°	1787.7	1988.7	2228.4	2401.9	2457.0
62.5°	1616.9	1820.7	2068.6	2247.7	2311.0
65°	1440.6	1647.2	1903.4	2090.7	2148.5
67.5°	1275.3	1479.2	1740.8	1925.4	1999.8
70°	1093.5	1308.4	1575.6	1765.6	1829.0
72.5°	914.5	1137.6	1410.3	1614.1	1685.8
75°	749.2	966.8	1250.5	1448.9	1528.7
77.5°	589.5	809.8	1096.3	1300.1	1369.0
80°	429.7	661.1	953.1	1154.1	1220.2
82.5°	283.7	526.1	815.3	1016.4	1088.0
85°	165.3	410.4	694.1	886.9	964.1
87.5°	71.6	311.3	581.2	771.3	834.6
90°	2.8	231.4	490.3	674.9	741.0
92.5°	2.8	225.9	479.3	661.1	724.4
95°	2.8	220.4	476.5	652.8	716.2
97.5°	2.8	217.6	471.0	647.3	707.9
100°	2.8	209.3	462.8	636.3	696.9
102.5°	2.8	198.3	454.5	625.3	683.1
105°	2.8	190.1	446.2	614.3	669.3
107.5°	2.8	181.8	432.5	600.5	655.6
110°	2.8	173.5	410.4	586.7	641.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	170.8	393.9	567.4	625.3
115°	5.5	165.3	377.4	545.4	606.0
117.5°	5.5	162.5	363.6	523.4	586.7
120°	5.5	154.3	349.8	504.1	564.7
122.5°	5.5	146.0	336.0	484.8	545.4
125°	5.5	140.5	322.3	465.5	523.4
127.5°	5.5	132.2	311.3	446.2	498.6
130°	5.5	126.7	297.5	424.2	476.5
132.5°	5.5	118.4	283.7	402.2	451.7
135°	5.5	110.2	269.9	382.9	429.7
137.5°	5.5	99.2	253.4	360.8	404.9
140°	5.5	90.9	231.4	338.8	380.1
142.5°	5.5	85.4	209.3	314.0	352.6
145°	5.5	79.9	187.3	289.2	325.0
147.5°	5.5	74.4	168.0	264.4	297.5
150°	5.5	66.1	148.7	242.4	269.9
152.5°	8.3	60.6	132.2	214.9	242.4
155°	8.3	55.1	115.7	184.6	214.9
157.5°	8.3	49.6	99.2	154.3	187.3
160°	8.3	44.1	85.4	126.7	159.8
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	27.5	52.3	66.1	90.9
170°	8.3	22.0	41.3	46.8	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)