

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: P567490

Luminaire Tested: **8SNX-168HL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567490
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-L830-CD
Description: 8FT 16800 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

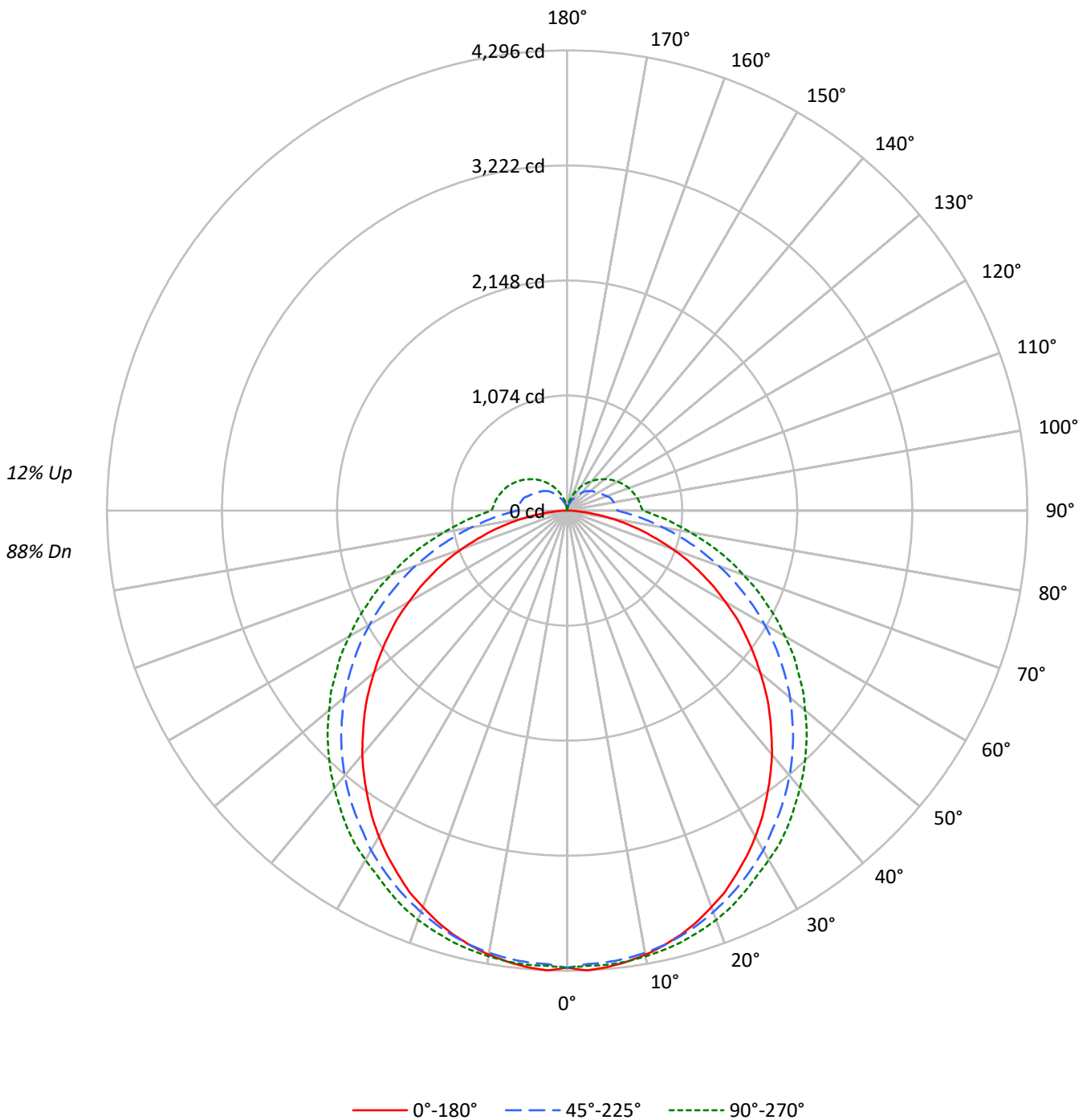
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15363.9 lumens
Efficiency: N/A
Efficacy: 132.7 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 (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°	22968	22968	22968
5°	23101	22630	22668
10°	22984	22424	22432
15°	22808	22176	22214
20°	22515	21876	21964
25°	22163	21573	21630
30°	21779	21268	21344
35°	21288	20901	21145
40°	20815	20599	20839
45°	20240	20248	20580
50°	19572	19877	20253
55°	18943	19416	19961
60°	18215	18927	19603
65°	17330	18365	19253
70°	16204	17753	18856
75°	14597	17088	18720
80°	12355	16702	18570
85°	9203	17136	19575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.1	2.6
10°-20°	1165.4	7.6
20°-30°	1772.9	11.5
30°-40°	2155.7	14.0
40°-50°	2280.7	14.8
50°-60°	2137.8	13.9
60°-70°	1758.7	11.4
70°-80°	1216.9	7.9
80°-90°	676.7	4.4
90°-100°	445.8	2.9
100°-110°	399.7	2.6
110°-120°	330.9	2.2
120°-130°	255.8	1.7
130°-140°	181.1	1.2
140°-150°	109.2	0.7
150°-160°	52.5	0.3
160°-170°	17.2	0.1
170°-180°	2.1	0.0
0°-30°	3343.4	21.8
0°-40°	5499.1	35.8
0°-60°	9917.5	64.6
0°-90°	13569.8	88.3
90°-120°	1176.4	7.7
90°-150°	1722.5	11.2
90°-180°	1794.0	11.7
0°-180°	15363.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4268	4268	4268	4268	4268	
5°	4278	4270	4233	4268	4257	406
15°	4099	4112	4110	4165	4165	1155
25°	3741	3794	3839	3923	3926	1725
35°	3252	3339	3452	3562	3594	2035
45°	2673	2813	2984	3118	3155	2060
55°	2034	2215	2428	2581	2634	1821
65°	1376	1573	1818	1997	2052	1364
75°	716	924	1194	1384	1460	759
85°	158	392	663	847	921	182
90°	3	221	468	645	708	10
95°	3	210	455	624	684	2
105°	3	182	426	587	639	3
115°	5	158	360	521	579	4
125°	5	134	308	445	500	5
135°	5	105	258	366	410	4
145°	5	76	179	276	310	3
155°	8	53	110	176	205	3
165°	8	34	60	82	105	2
175°	8	13	18	18	10	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4267.5	4267.5	4267.5	4267.5	4267.5
2.5°	4296.5	4283.3	4238.6	4267.5	4254.4
5°	4278.0	4270.2	4233.3	4267.5	4257.0
7.5°	4249.1	4246.5	4217.5	4257.0	4246.5
10°	4209.6	4214.9	4191.2	4233.3	4225.4
12.5°	4159.7	4167.5	4157.0	4204.4	4199.1
15°	4099.1	4112.3	4109.7	4164.9	4164.9
17.5°	4025.5	4043.9	4054.4	4117.6	4117.6
20°	3938.6	3967.6	3988.6	4057.0	4067.6
22.5°	3851.8	3886.0	3917.6	3988.6	4004.4
25°	3741.3	3793.9	3838.7	3922.9	3925.5
27.5°	3633.4	3691.3	3751.8	3833.4	3841.3
30°	3515.1	3588.7	3662.4	3741.3	3765.0
32.5°	3388.8	3470.3	3551.9	3657.1	3688.7
35°	3251.9	3338.8	3451.9	3562.4	3594.0
37.5°	3115.1	3212.5	3344.0	3457.2	3486.1
40°	2975.7	3083.6	3230.9	3346.7	3380.9
42.5°	2820.5	2952.0	3109.9	3233.5	3273.0
45°	2673.1	2812.6	2983.6	3117.8	3154.6
47.5°	2517.9	2665.2	2849.4	2991.5	3033.6
50°	2352.1	2520.5	2717.9	2859.9	2899.4
52.5°	2196.9	2367.9	2575.8	2723.1	2778.4
55°	2033.8	2215.3	2428.4	2581.0	2633.7
57.5°	1881.2	2054.8	2283.7	2436.3	2502.1
60°	1707.5	1899.6	2128.5	2294.3	2346.9
62.5°	1544.4	1739.1	1975.9	2146.9	2207.4
65°	1376.0	1573.4	1818.0	1996.9	2052.2
67.5°	1218.2	1412.9	1662.8	1839.1	1910.1
70°	1044.5	1249.7	1504.9	1686.5	1747.0
72.5°	873.5	1086.6	1347.1	1541.8	1610.2
75°	715.6	923.5	1194.5	1383.9	1460.2
77.5°	563.0	773.5	1047.1	1241.8	1307.6
80°	410.4	631.4	910.3	1102.4	1165.5
82.5°	271.0	502.5	778.8	970.8	1039.3
85°	157.9	392.0	663.0	847.2	920.9
87.5°	68.4	297.3	555.1	736.7	797.2
90°	2.6	221.0	468.3	644.6	707.7
92.5°	2.6	215.7	457.8	631.4	692.0
95°	2.6	210.5	455.2	623.6	684.1
97.5°	2.6	207.9	449.9	618.3	676.2
100°	2.6	200.0	442.0	607.8	665.6
102.5°	2.6	189.4	434.1	597.2	652.5
105°	2.6	181.5	426.2	586.7	639.3
107.5°	2.6	173.6	413.1	573.6	626.2
110°	2.6	165.8	392.0	560.4	613.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	163.1	376.2	542.0	597.2
115°	5.3	157.9	360.5	520.9	578.8
117.5°	5.3	155.2	347.3	499.9	560.4
120°	5.3	147.3	334.1	481.5	539.4
122.5°	5.3	139.4	321.0	463.1	520.9
125°	5.3	134.2	307.8	444.6	499.9
127.5°	5.3	126.3	297.3	426.2	476.2
130°	5.3	121.0	284.2	405.2	455.2
132.5°	5.3	113.1	271.0	384.1	431.5
135°	5.3	105.2	257.8	365.7	410.4
137.5°	5.3	94.7	242.1	344.7	386.8
140°	5.3	86.8	221.0	323.6	363.1
142.5°	5.3	81.6	200.0	299.9	336.8
145°	5.3	76.3	178.9	276.3	310.5
147.5°	5.3	71.0	160.5	252.6	284.2
150°	5.3	63.1	142.1	231.5	257.8
152.5°	7.9	57.9	126.3	205.2	231.5
155°	7.9	52.6	110.5	176.3	205.2
157.5°	7.9	47.4	94.7	147.3	178.9
160°	7.9	42.1	81.6	121.0	152.6
162.5°	7.9	39.5	71.0	100.0	128.9
165°	7.9	34.2	60.5	81.6	105.2
167.5°	7.9	26.3	50.0	63.1	86.8
170°	7.9	21.0	39.5	44.7	65.8
172.5°	7.9	15.8	28.9	31.6	34.2
175°	7.9	13.2	18.4	18.4	10.5
177.5°	7.9	10.5	10.5	10.5	5.3
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)