

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: P567442

Luminaire Tested: **8SNX-162HL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567442
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-162HL-FDL-UNV-L830-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

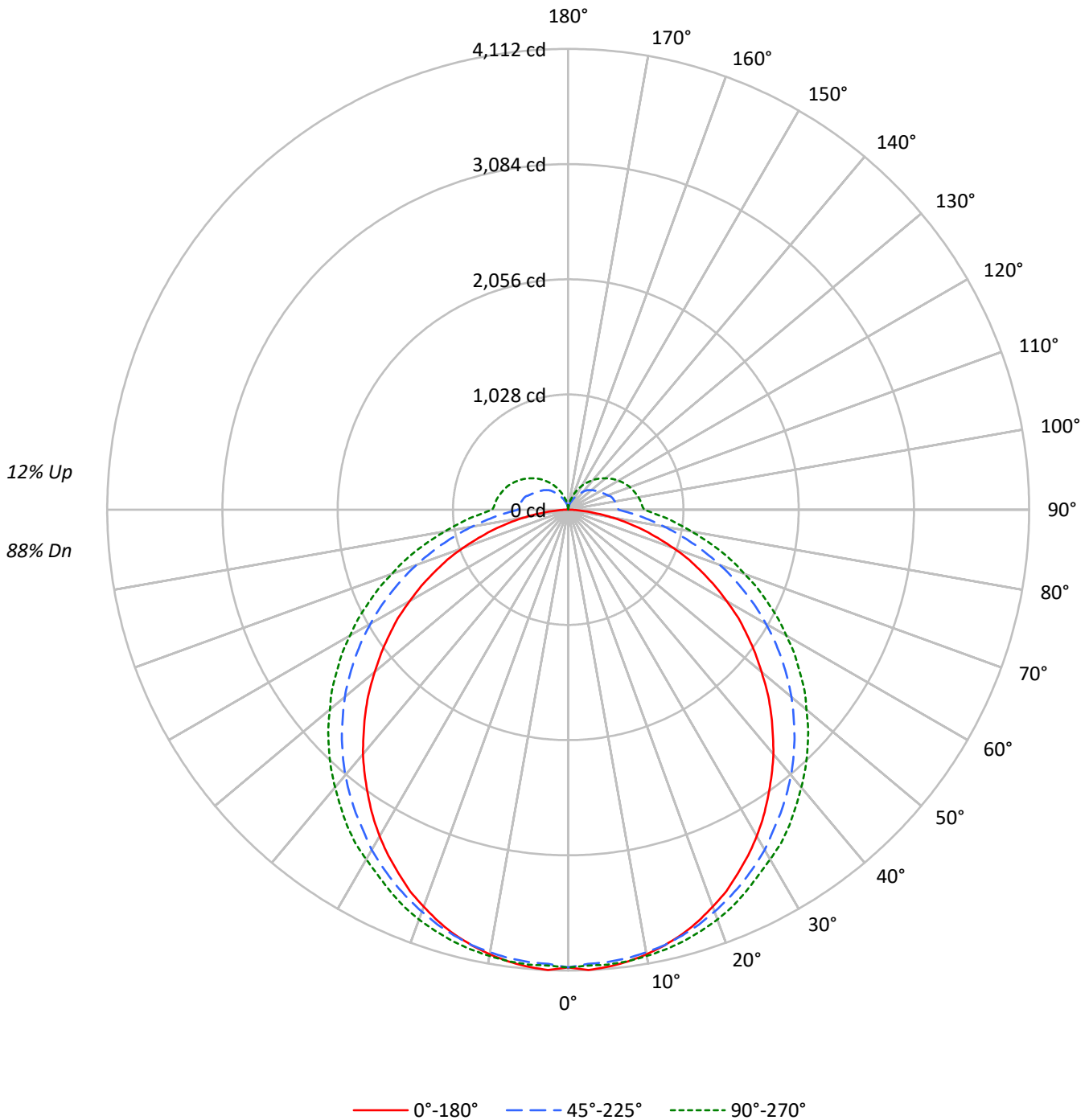
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14703.0 lumens
Efficiency: N/A
Efficacy: 133.4 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): 110.2
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	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°	21979	21979	21979
5°	22108	21656	21693
10°	21995	21460	21467
15°	21827	21222	21258
20°	21547	20935	21019
25°	21210	20644	20699
30°	20842	20353	20426
35°	20372	20002	20236
40°	19920	19712	19942
45°	19369	19377	19695
50°	18730	19022	19382
55°	18128	18581	19102
60°	17432	18112	18759
65°	16584	17575	18425
70°	15508	16990	18044
75°	13970	16353	17915
80°	11825	15984	17772
85°	8806	16400	18731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.7	2.6
10°-20°	1115.3	7.6
20°-30°	1696.6	11.5
30°-40°	2062.9	14.0
40°-50°	2182.5	14.8
50°-60°	2045.8	13.9
60°-70°	1683.0	11.4
70°-80°	1164.5	7.9
80°-90°	647.6	4.4
90°-100°	426.6	2.9
100°-110°	382.5	2.6
110°-120°	316.6	2.2
120°-130°	244.8	1.7
130°-140°	173.3	1.2
140°-150°	104.5	0.7
150°-160°	50.2	0.3
160°-170°	16.4	0.1
170°-180°	2.0	0.0
0°-30°	3199.6	21.8
0°-40°	5262.5	35.8
0°-60°	9490.9	64.6
0°-90°	12986.0	88.3
90°-120°	1125.8	7.7
90°-150°	1648.4	11.2
90°-180°	1717.0	11.7
0°-180°	14703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4084	4084	4084	4084	4084	
5°	4094	4086	4051	4084	4074	389
15°	3923	3935	3933	3986	3986	1106
25°	3580	3631	3674	3754	3757	1650
35°	3112	3195	3303	3409	3439	1948
45°	2558	2692	2855	2984	3019	1972
55°	1946	2120	2324	2470	2520	1742
65°	1317	1506	1740	1911	1964	1306
75°	685	884	1143	1324	1397	727
85°	151	375	634	811	881	174
90°	2	212	448	617	677	10
95°	2	201	436	597	655	2
105°	2	174	408	562	612	3
115°	5	151	345	498	554	4
125°	5	128	295	426	478	4
135°	5	101	247	350	393	4
145°	5	73	171	264	297	3
155°	8	50	106	169	196	3
165°	8	33	58	78	101	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°	4083.9	4083.9	4083.9	4083.9	4083.9
2.5°	4111.6	4099.0	4056.2	4083.9	4071.3
5°	4094.0	4086.4	4051.2	4083.9	4073.9
7.5°	4066.3	4063.8	4036.1	4073.9	4063.8
10°	4028.5	4033.6	4010.9	4051.2	4043.6
12.5°	3980.7	3988.2	3978.2	4023.5	4018.5
15°	3922.8	3935.4	3932.9	3985.7	3985.7
17.5°	3852.3	3869.9	3880.0	3940.4	3940.4
20°	3769.2	3796.9	3817.0	3882.5	3892.6
22.5°	3686.1	3718.8	3749.1	3817.0	3832.1
25°	3580.4	3630.7	3673.5	3754.1	3756.6
27.5°	3477.1	3532.5	3590.4	3668.5	3676.0
30°	3363.8	3434.3	3504.8	3580.4	3603.0
32.5°	3243.0	3321.0	3399.1	3499.8	3530.0
35°	3112.0	3195.1	3303.4	3409.1	3439.4
37.5°	2981.1	3074.3	3200.2	3308.4	3336.1
40°	2847.7	2950.9	3091.9	3202.7	3235.4
42.5°	2699.1	2825.0	2976.1	3094.4	3132.2
45°	2558.1	2691.6	2855.2	2983.6	3018.9
47.5°	2409.6	2550.6	2726.8	2862.8	2903.1
50°	2250.9	2412.1	2600.9	2736.9	2774.7
52.5°	2102.4	2266.0	2465.0	2606.0	2658.8
55°	1946.3	2120.0	2324.0	2470.0	2520.4
57.5°	1800.3	1966.4	2185.5	2331.5	2394.5
60°	1634.1	1817.9	2036.9	2195.6	2245.9
62.5°	1478.0	1664.3	1890.9	2054.6	2112.5
65°	1316.8	1505.7	1739.8	1911.0	1963.9
67.5°	1165.8	1352.1	1591.3	1760.0	1827.9
70°	999.6	1196.0	1440.2	1613.9	1671.8
72.5°	835.9	1039.9	1289.1	1475.5	1540.9
75°	684.9	883.8	1143.1	1324.4	1397.4
77.5°	538.8	740.2	1002.1	1188.4	1251.4
80°	392.8	604.3	871.2	1055.0	1115.4
82.5°	259.3	480.9	745.3	929.1	994.5
85°	151.1	375.2	634.5	810.7	881.2
87.5°	65.5	284.5	531.3	705.0	762.9
90°	2.5	211.5	448.2	616.9	677.3
92.5°	2.5	206.5	438.1	604.3	662.2
95°	2.5	201.4	435.6	596.7	654.6
97.5°	2.5	198.9	430.5	591.7	647.1
100°	2.5	191.4	423.0	581.6	637.0
102.5°	2.5	181.3	415.4	571.5	624.4
105°	2.5	173.7	407.9	561.5	611.8
107.5°	2.5	166.2	395.3	548.9	599.2
110°	2.5	158.6	375.2	536.3	586.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	156.1	360.1	518.7	571.5
115°	5.0	151.1	344.9	498.5	553.9
117.5°	5.0	148.6	332.4	478.4	536.3
120°	5.0	141.0	319.8	460.8	516.2
122.5°	5.0	133.4	307.2	443.1	498.5
125°	5.0	128.4	294.6	425.5	478.4
127.5°	5.0	120.9	284.5	407.9	455.7
130°	5.0	115.8	271.9	387.7	435.6
132.5°	5.0	108.3	259.3	367.6	412.9
135°	5.0	100.7	246.7	350.0	392.8
137.5°	5.0	90.6	231.6	329.8	370.1
140°	5.0	83.1	211.5	309.7	347.5
142.5°	5.0	78.1	191.4	287.0	322.3
145°	5.0	73.0	171.2	264.4	297.1
147.5°	5.0	68.0	153.6	241.7	271.9
150°	5.0	60.4	136.0	221.6	246.7
152.5°	7.6	55.4	120.9	196.4	221.6
155°	7.6	50.4	105.7	168.7	196.4
157.5°	7.6	45.3	90.6	141.0	171.2
160°	7.6	40.3	78.1	115.8	146.0
162.5°	7.6	37.8	68.0	95.7	123.4
165°	7.6	32.7	57.9	78.1	100.7
167.5°	7.6	25.2	47.8	60.4	83.1
170°	7.6	20.1	37.8	42.8	62.9
172.5°	7.6	15.1	27.7	30.2	32.7
175°	7.6	12.6	17.6	17.6	10.1
177.5°	7.6	10.1	10.1	10.1	5.0
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)