

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: P567446

Luminaire Tested: **8SNX-162HL-FDL-UNV-L930-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567446
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-L930-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 3000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

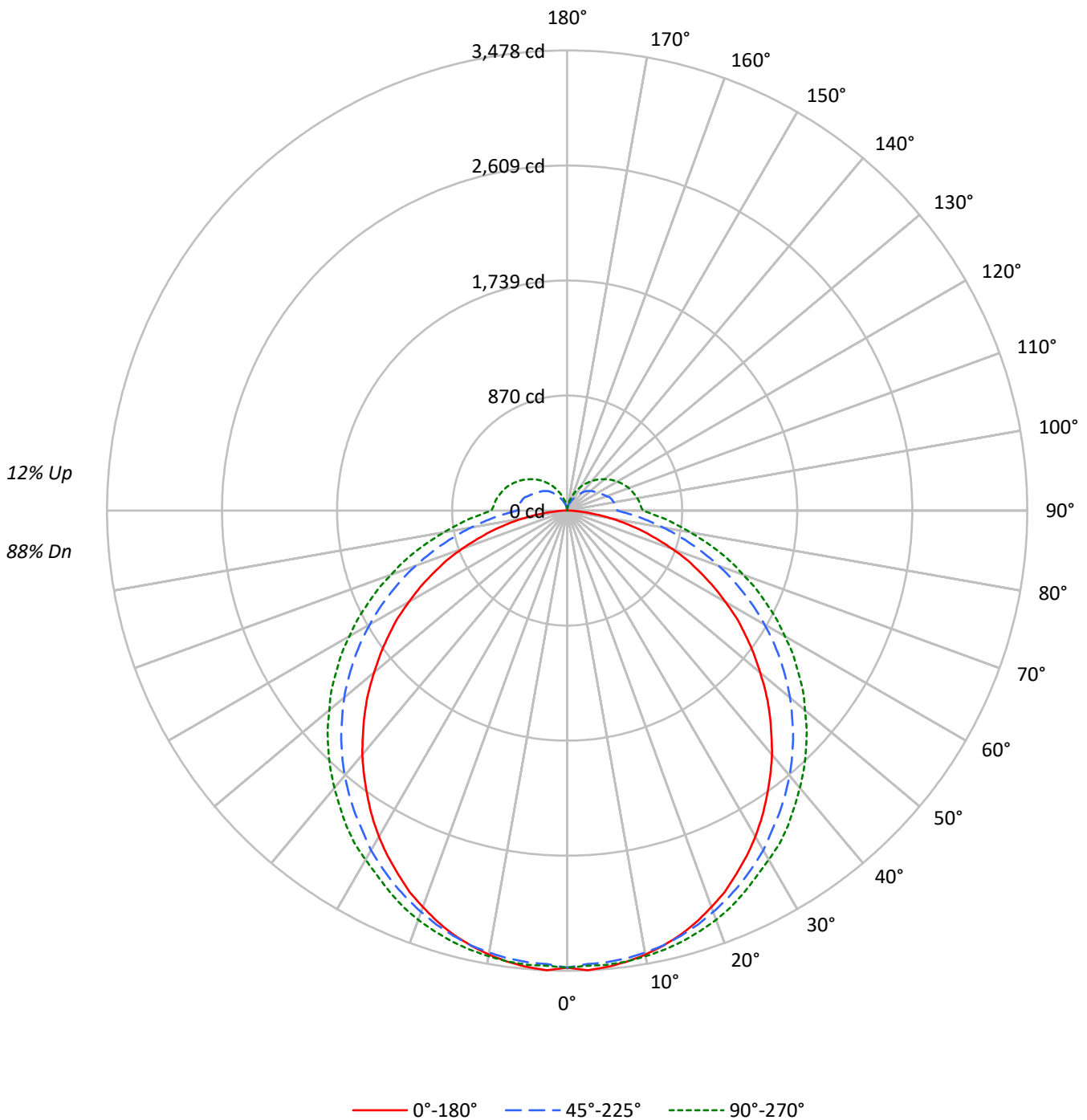
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12436.0 lumens
Efficiency: N/A
Efficacy: 112.8 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 (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°	18590	18590	18590
5°	18699	18317	18348
10°	18604	18151	18158
15°	18461	17950	17981
20°	18224	17707	17778
25°	17939	17461	17508
30°	17629	17214	17276
35°	17231	16918	17116
40°	16848	16673	16867
45°	16383	16389	16658
50°	15843	16089	16393
55°	15333	15716	16156
60°	14744	15320	15867
65°	14027	14866	15584
70°	13117	14370	15263
75°	11816	13831	15152
80°	10001	13518	15031
85°	7448	13872	15845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.9	2.6
10°-20°	943.3	7.6
20°-30°	1435.0	11.5
30°-40°	1744.9	14.0
40°-50°	1846.0	14.8
50°-60°	1730.4	13.9
60°-70°	1423.5	11.4
70°-80°	985.0	7.9
80°-90°	547.7	4.4
90°-100°	360.8	2.9
100°-110°	323.6	2.6
110°-120°	267.8	2.2
120°-130°	207.0	1.7
130°-140°	146.6	1.2
140°-150°	88.4	0.7
150°-160°	42.5	0.3
160°-170°	13.9	0.1
170°-180°	1.7	0.0
0°-30°	2706.3	21.8
0°-40°	4451.1	35.8
0°-60°	8027.5	64.6
0°-90°	10983.7	88.3
90°-120°	952.2	7.7
90°-150°	1394.2	11.2
90°-180°	1452.0	11.7
0°-180°	12436.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3454	3454	3454	3454	3454	
5°	3463	3456	3427	3454	3446	329
15°	3318	3329	3326	3371	3371	935
25°	3028	3071	3107	3175	3177	1396
35°	2632	2702	2794	2884	2909	1647
45°	2164	2277	2415	2524	2553	1668
55°	1646	1793	1966	2089	2132	1474
65°	1114	1274	1472	1616	1661	1104
75°	579	748	967	1120	1182	614
85°	128	317	537	686	745	147
90°	2	179	379	522	573	8
95°	2	170	368	505	554	2
105°	2	147	345	475	518	2
115°	4	128	292	422	468	3
125°	4	109	249	360	405	4
135°	4	85	209	296	332	3
145°	4	62	145	224	251	3
155°	6	43	89	143	166	3
165°	6	28	49	66	85	2
175°	6	11	15	15	8	1
180°	4	4	4	4	4	



TEST NUMBER: P567446

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3454.2	3454.2	3454.2	3454.2	3454.2
2.5°	3477.7	3467.0	3430.8	3454.2	3443.6
5°	3462.8	3456.4	3426.6	3454.2	3445.7
7.5°	3439.3	3437.2	3413.8	3445.7	3437.2
10°	3407.4	3411.6	3392.5	3426.6	3420.2
12.5°	3366.9	3373.3	3364.8	3403.1	3398.9
15°	3317.9	3328.6	3326.5	3371.2	3371.2
17.5°	3258.3	3273.2	3281.7	3332.9	3332.9
20°	3188.0	3211.5	3228.5	3283.9	3292.4
22.5°	3117.8	3145.4	3171.0	3228.5	3241.3
25°	3028.3	3070.9	3107.1	3175.3	3177.4
27.5°	2941.0	2987.9	3036.8	3102.9	3109.2
30°	2845.2	2904.8	2964.4	3028.3	3047.5
32.5°	2742.9	2809.0	2875.0	2960.2	2985.7
35°	2632.2	2702.5	2794.1	2883.5	2909.1
37.5°	2521.5	2600.3	2706.7	2798.3	2821.7
40°	2408.6	2495.9	2615.2	2708.9	2736.6
42.5°	2283.0	2389.4	2517.2	2617.3	2649.2
45°	2163.7	2276.6	2415.0	2523.6	2553.4
47.5°	2038.0	2157.3	2306.4	2421.4	2455.4
50°	1903.9	2040.2	2199.9	2314.9	2346.8
52.5°	1778.2	1916.7	2084.9	2204.2	2248.9
55°	1646.2	1793.1	1965.6	2089.2	2131.7
57.5°	1522.7	1663.2	1848.5	1972.0	2025.3
60°	1382.1	1537.6	1722.9	1857.0	1899.6
62.5°	1250.1	1407.7	1599.3	1737.8	1786.7
65°	1113.8	1273.5	1471.6	1616.4	1661.1
67.5°	986.0	1143.6	1345.9	1488.6	1546.1
70°	845.5	1011.6	1218.1	1365.1	1414.1
72.5°	707.0	879.5	1090.4	1248.0	1303.3
75°	579.3	747.5	966.8	1120.2	1181.9
77.5°	455.7	626.1	847.6	1005.2	1058.4
80°	332.2	511.1	736.8	892.3	943.4
82.5°	219.4	406.8	630.4	785.8	841.2
85°	127.8	317.3	536.7	685.7	745.4
87.5°	55.4	240.6	449.3	596.3	645.3
90°	2.1	178.9	379.1	521.8	572.9
92.5°	2.1	174.6	370.6	511.1	560.1
95°	2.1	170.4	368.4	504.7	553.7
97.5°	2.1	168.2	364.2	500.5	547.3
100°	2.1	161.9	357.8	491.9	538.8
102.5°	2.1	153.3	351.4	483.4	528.1
105°	2.1	146.9	345.0	474.9	517.5
107.5°	2.1	140.6	334.3	464.3	506.8
110°	2.1	134.2	317.3	453.6	496.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	132.0	304.5	438.7	483.4
115°	4.3	127.8	291.8	421.7	468.5
117.5°	4.3	125.6	281.1	404.6	453.6
120°	4.3	119.3	270.5	389.7	436.6
122.5°	4.3	112.9	259.8	374.8	421.7
125°	4.3	108.6	249.2	359.9	404.6
127.5°	4.3	102.2	240.6	345.0	385.5
130°	4.3	98.0	230.0	328.0	368.4
132.5°	4.3	91.6	219.4	310.9	349.3
135°	4.3	85.2	208.7	296.0	332.2
137.5°	4.3	76.7	195.9	279.0	313.1
140°	4.3	70.3	178.9	261.9	293.9
142.5°	4.3	66.0	161.9	242.8	272.6
145°	4.3	61.8	144.8	223.6	251.3
147.5°	4.3	57.5	129.9	204.4	230.0
150°	4.3	51.1	115.0	187.4	208.7
152.5°	6.4	46.9	102.2	166.1	187.4
155°	6.4	42.6	89.4	142.7	166.1
157.5°	6.4	38.3	76.7	119.3	144.8
160°	6.4	34.1	66.0	98.0	123.5
162.5°	6.4	31.9	57.5	80.9	104.4
165°	6.4	27.7	49.0	66.0	85.2
167.5°	6.4	21.3	40.5	51.1	70.3
170°	6.4	17.0	31.9	36.2	53.2
172.5°	6.4	12.8	23.4	25.6	27.7
175°	6.4	10.6	14.9	14.9	8.5
177.5°	6.4	8.5	8.5	8.5	4.3
180°	4.3	4.3	4.3	4.3	4.3

(END OF REPORT)