

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: P567448

Luminaire Tested: **8SNX-162HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567448
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-L940-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

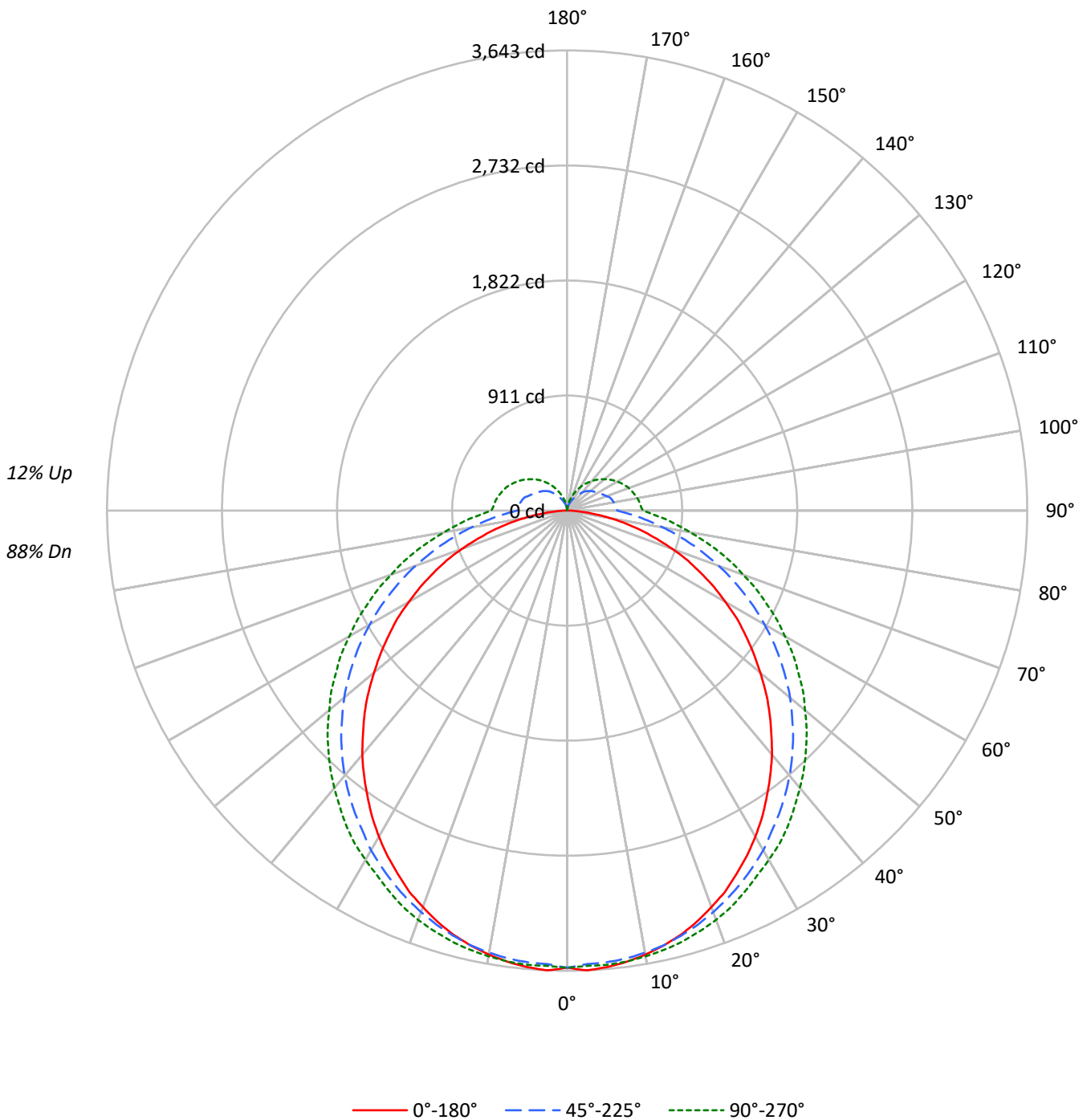
Lumens per Lamp: N/A
Luminaire Lumens: 13028.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

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°	19476	19476	19476
5°	19589	19189	19222
10°	19490	19015	19022
15°	19340	18804	18837
20°	19092	18550	18624
25°	18794	18293	18341
30°	18468	18034	18099
35°	18051	17723	17930
40°	17651	17467	17670
45°	17163	17169	17451
50°	16597	16855	17174
55°	16063	16464	16926
60°	15446	16049	16622
65°	14695	15573	16326
70°	13741	15054	15989
75°	12377	14490	15874
80°	10476	14162	15747
85°	7804	14531	16597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.5	2.6
10°-20°	988.2	7.6
20°-30°	1503.3	11.5
30°-40°	1827.9	14.0
40°-50°	1933.9	14.8
50°-60°	1812.8	13.9
60°-70°	1491.3	11.4
70°-80°	1031.9	7.9
80°-90°	573.8	4.4
90°-100°	378.0	2.9
100°-110°	339.0	2.6
110°-120°	280.6	2.2
120°-130°	216.9	1.7
130°-140°	153.5	1.2
140°-150°	92.6	0.7
150°-160°	44.5	0.3
160°-170°	14.6	0.1
170°-180°	1.8	0.0
0°-30°	2835.1	21.8
0°-40°	4663.0	35.8
0°-60°	8409.7	64.6
0°-90°	11506.6	88.3
90°-120°	997.5	7.7
90°-150°	1460.6	11.2
90°-180°	1521.0	11.7
0°-180°	13028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3619	3619	3619	3619	3619	
5°	3628	3621	3590	3619	3610	344
15°	3476	3487	3485	3532	3532	980
25°	3172	3217	3255	3326	3329	1462
35°	2758	2831	2927	3021	3048	1726
45°	2267	2385	2530	2644	2675	1747
55°	1725	1878	2059	2189	2233	1544
65°	1167	1334	1542	1693	1740	1157
75°	607	783	1013	1174	1238	644
85°	134	332	562	718	781	154
90°	2	187	397	547	600	9
95°	2	178	386	529	580	2
105°	2	154	361	498	542	2
115°	4	134	306	442	491	4
125°	4	114	261	377	424	4
135°	4	89	219	310	348	3
145°	4	65	152	234	263	3
155°	7	45	94	150	174	3
165°	7	29	51	69	89	2
175°	7	11	16	16	9	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3618.7	3618.7	3618.7	3618.7	3618.7
2.5°	3643.2	3632.1	3594.1	3618.7	3607.5
5°	3627.6	3620.9	3589.7	3618.7	3609.8
7.5°	3603.1	3600.8	3576.3	3609.8	3600.8
10°	3569.6	3574.1	3554.0	3589.7	3583.0
12.5°	3527.2	3533.9	3525.0	3565.1	3560.7
15°	3475.9	3487.0	3484.8	3531.7	3531.7
17.5°	3413.4	3429.0	3438.0	3491.5	3491.5
20°	3339.8	3364.3	3382.2	3440.2	3449.1
22.5°	3266.2	3295.2	3322.0	3382.2	3395.6
25°	3172.5	3217.1	3255.0	3326.4	3328.6
27.5°	3081.0	3130.1	3181.4	3250.6	3257.3
30°	2980.6	3043.1	3105.5	3172.5	3192.6
32.5°	2873.5	2942.7	3011.8	3101.1	3127.9
35°	2757.5	2831.1	2927.1	3020.8	3047.5
37.5°	2641.5	2724.0	2835.6	2931.5	2956.1
40°	2523.3	2614.7	2739.7	2837.8	2866.8
42.5°	2391.6	2503.2	2637.0	2741.9	2775.4
45°	2266.7	2384.9	2529.9	2643.7	2675.0
47.5°	2135.1	2260.0	2416.2	2536.6	2572.3
50°	1994.5	2137.3	2304.6	2425.1	2458.6
52.5°	1862.9	2007.9	2184.1	2309.1	2355.9
55°	1724.6	1878.5	2059.2	2188.6	2233.2
57.5°	1595.2	1742.4	1936.5	2065.9	2121.7
60°	1447.9	1610.8	1804.9	1945.4	1990.0
62.5°	1309.6	1474.7	1675.5	1820.5	1871.8
65°	1166.8	1334.1	1541.6	1693.3	1740.2
67.5°	1033.0	1198.0	1410.0	1559.5	1619.7
70°	885.7	1059.7	1276.1	1430.1	1481.4
72.5°	740.7	921.4	1142.3	1307.4	1365.4
75°	606.8	783.1	1012.9	1173.5	1238.2
77.5°	477.4	655.9	887.9	1053.0	1108.8
80°	348.0	535.4	771.9	934.8	988.3
82.5°	229.8	426.1	660.4	823.2	881.2
85°	133.9	332.4	562.2	718.4	780.8
87.5°	58.0	252.1	470.7	624.7	676.0
90°	2.2	187.4	397.1	546.6	600.1
92.5°	2.2	182.9	388.2	535.4	586.8
95°	2.2	178.5	386.0	528.7	580.1
97.5°	2.2	176.2	381.5	524.3	573.4
100°	2.2	169.6	374.8	515.4	564.4
102.5°	2.2	160.6	368.1	506.4	553.3
105°	2.2	153.9	361.4	497.5	542.1
107.5°	2.2	147.2	350.3	486.4	531.0
110°	2.2	140.6	332.4	475.2	519.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	138.3	319.0	459.6	506.4
115°	4.5	133.9	305.6	441.7	490.8
117.5°	4.5	131.6	294.5	423.9	475.2
120°	4.5	124.9	283.3	408.3	457.4
122.5°	4.5	118.2	272.2	392.7	441.7
125°	4.5	113.8	261.0	377.0	423.9
127.5°	4.5	107.1	252.1	361.4	403.8
130°	4.5	102.6	240.9	343.6	386.0
132.5°	4.5	95.9	229.8	325.7	365.9
135°	4.5	89.2	218.6	310.1	348.0
137.5°	4.5	80.3	205.3	292.3	328.0
140°	4.5	73.6	187.4	274.4	307.9
142.5°	4.5	69.2	169.6	254.3	285.6
145°	4.5	64.7	151.7	234.3	263.3
147.5°	4.5	60.2	136.1	214.2	240.9
150°	4.5	53.5	120.5	196.3	218.6
152.5°	6.7	49.1	107.1	174.0	196.3
155°	6.7	44.6	93.7	149.5	174.0
157.5°	6.7	40.2	80.3	124.9	151.7
160°	6.7	35.7	69.2	102.6	129.4
162.5°	6.7	33.5	60.2	84.8	109.3
165°	6.7	29.0	51.3	69.2	89.2
167.5°	6.7	22.3	42.4	53.5	73.6
170°	6.7	17.8	33.5	37.9	55.8
172.5°	6.7	13.4	24.5	26.8	29.0
175°	6.7	11.2	15.6	15.6	8.9
177.5°	6.7	8.9	8.9	8.9	4.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)