

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: P567538

Luminaire Tested: **8SNX-174HL-FDL-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567538
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-174HL-FDL-UNV-L830-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

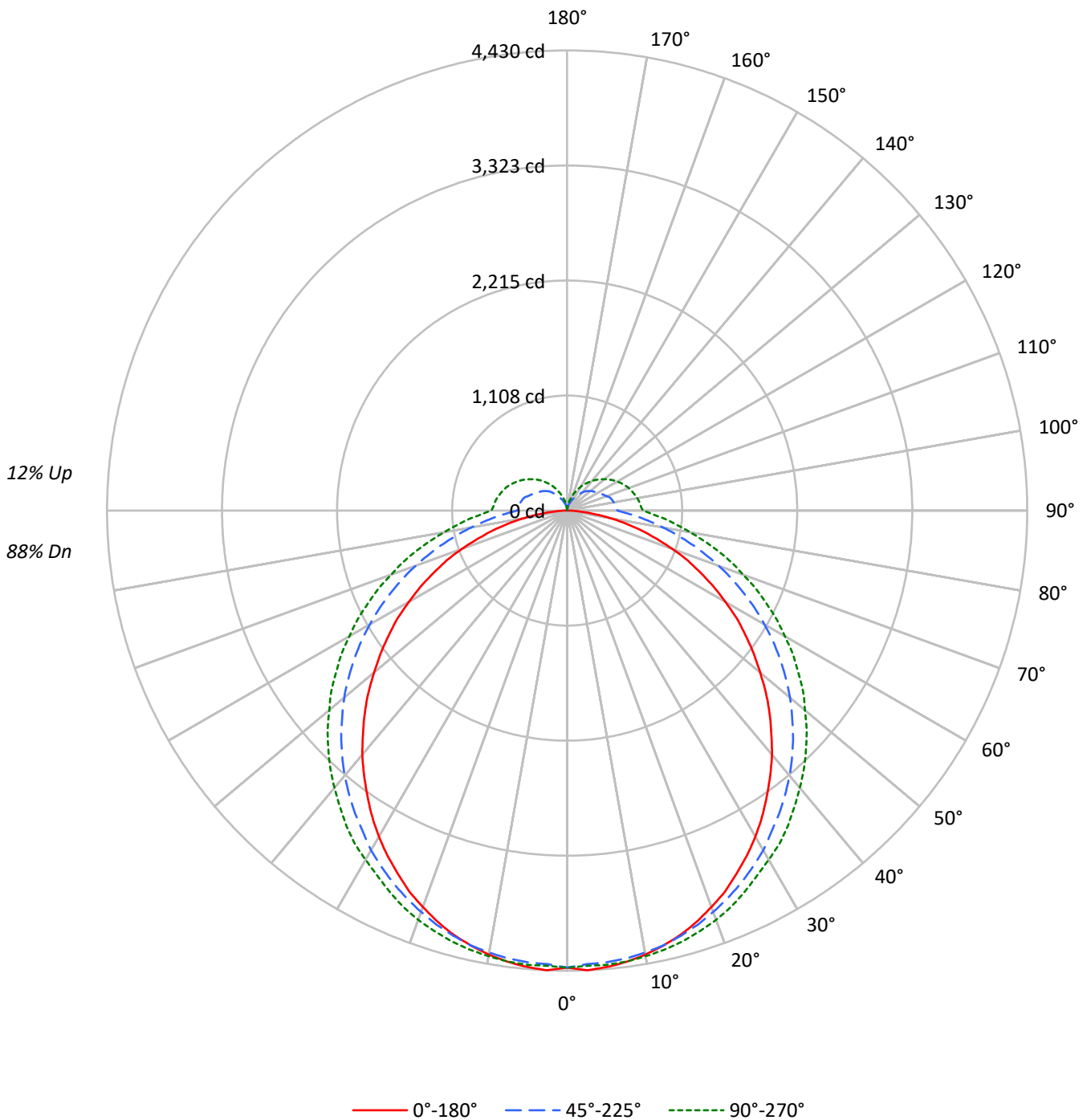
Lumens per Lamp: N/A
Luminaire Lumens: 15840.0 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 124.4
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°	23679	23679	23679
5°	23817	23331	23370
10°	23697	23119	23127
15°	23514	22863	22903
20°	23213	22554	22645
25°	22850	22241	22300
30°	22454	21927	22005
35°	21948	21549	21800
40°	21460	21237	21484
45°	20867	20875	21218
50°	20179	20493	20881
55°	19529	20018	20580
60°	18779	19513	20210
65°	17867	18935	19850
70°	16707	18304	19440
75°	15049	17617	19301
80°	12740	17219	19147
85°	9488	17669	20181



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.7	2.6
10°-20°	1201.5	7.6
20°-30°	1827.8	11.5
30°-40°	2222.5	14.0
40°-50°	2351.3	14.8
50°-60°	2204.0	13.9
60°-70°	1813.2	11.4
70°-80°	1254.6	7.9
80°-90°	697.6	4.4
90°-100°	459.6	2.9
100°-110°	412.1	2.6
110°-120°	341.1	2.2
120°-130°	263.7	1.7
130°-140°	186.7	1.2
140°-150°	112.6	0.7
150°-160°	54.1	0.3
160°-170°	17.7	0.1
170°-180°	2.2	0.0
0°-30°	3447.0	21.8
0°-40°	5669.5	35.8
0°-60°	10224.8	64.6
0°-90°	13990.2	88.3
90°-120°	1212.8	7.7
90°-150°	1775.8	11.2
90°-180°	1850.0	11.7
0°-180°	15840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4400	4400	4400	4400	4400	
5°	4411	4402	4364	4400	4389	419
15°	4226	4240	4237	4294	4294	1191
25°	3857	3912	3958	4044	4047	1778
35°	3353	3442	3559	3673	3705	2098
45°	2756	2900	3076	3214	3252	2124
55°	2097	2284	2504	2661	2715	1877
65°	1419	1622	1874	2059	2116	1407
75°	738	952	1232	1427	1506	783
85°	163	404	684	873	949	187
90°	3	228	483	665	730	11
95°	3	217	469	643	705	2
105°	3	187	439	605	659	3
115°	5	163	372	537	597	4
125°	5	138	317	458	515	5
135°	5	108	266	377	423	4
145°	5	79	184	285	320	3
155°	8	54	114	182	212	4
165°	8	35	62	84	108	2
175°	8	14	19	19	11	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4399.7	4399.7	4399.7	4399.7	4399.7
2.5°	4429.6	4416.0	4369.9	4399.7	4386.2
5°	4410.6	4402.5	4364.5	4399.7	4388.9
7.5°	4380.8	4378.0	4348.2	4388.9	4378.0
10°	4340.1	4345.5	4321.1	4364.5	4356.3
12.5°	4288.5	4296.7	4285.8	4334.6	4329.2
15°	4226.1	4239.7	4237.0	4294.0	4294.0
17.5°	4150.2	4169.2	4180.0	4245.1	4245.1
20°	4060.7	4090.5	4112.2	4182.7	4193.6
22.5°	3971.2	4006.4	4039.0	4112.2	4128.5
25°	3857.2	3911.5	3957.6	4044.4	4047.1
27.5°	3746.0	3805.7	3868.1	3952.2	3960.3
30°	3624.0	3699.9	3775.9	3857.2	3881.6
32.5°	3493.8	3577.8	3661.9	3770.4	3803.0
35°	3352.7	3442.2	3558.9	3672.8	3705.3
37.5°	3211.6	3312.0	3447.6	3564.3	3594.1
40°	3067.9	3179.1	3331.0	3450.4	3485.6
42.5°	2907.8	3043.5	3206.2	3333.7	3374.4
45°	2755.9	2899.7	3076.0	3214.4	3252.3
47.5°	2595.9	2747.8	2937.7	3084.2	3127.6
50°	2425.0	2598.6	2802.1	2948.5	2989.2
52.5°	2265.0	2441.3	2655.6	2807.5	2864.4
55°	2096.8	2284.0	2503.7	2661.0	2715.3
57.5°	1939.5	2118.5	2354.5	2511.8	2579.6
60°	1760.4	1958.5	2194.4	2365.3	2419.6
62.5°	1592.3	1793.0	2037.1	2213.4	2275.8
65°	1418.7	1622.1	1874.4	2058.8	2115.8
67.5°	1255.9	1456.6	1714.3	1896.1	1969.3
70°	1076.9	1288.5	1551.6	1738.7	1801.1
72.5°	900.6	1120.3	1388.8	1589.5	1660.1
75°	737.8	952.1	1231.5	1426.8	1505.5
77.5°	580.5	797.5	1079.6	1280.3	1348.1
80°	423.2	651.0	938.5	1136.6	1201.7
82.5°	279.4	518.1	802.9	1000.9	1071.5
85°	162.8	404.2	683.6	873.4	949.4
87.5°	70.5	306.5	572.3	759.5	821.9
90°	2.7	227.9	482.8	664.6	729.7
92.5°	2.7	222.4	472.0	651.0	713.4
95°	2.7	217.0	469.3	642.9	705.3
97.5°	2.7	214.3	463.8	637.4	697.1
100°	2.7	206.2	455.7	626.6	686.3
102.5°	2.7	195.3	447.6	615.7	672.7
105°	2.7	187.2	439.4	604.9	659.1
107.5°	2.7	179.0	425.9	591.3	645.6
110°	2.7	170.9	404.2	577.8	632.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	168.2	387.9	558.8	615.7
115°	5.4	162.8	371.6	537.1	596.8
117.5°	5.4	160.0	358.1	515.4	577.8
120°	5.4	151.9	344.5	496.4	556.1
122.5°	5.4	143.8	330.9	477.4	537.1
125°	5.4	138.3	317.4	458.4	515.4
127.5°	5.4	130.2	306.5	439.4	491.0
130°	5.4	124.8	293.0	417.7	469.3
132.5°	5.4	116.6	279.4	396.0	444.9
135°	5.4	108.5	265.8	377.0	423.2
137.5°	5.4	97.7	249.6	355.3	398.7
140°	5.4	89.5	227.9	333.6	374.3
142.5°	5.4	84.1	206.2	309.2	347.2
145°	5.4	78.7	184.5	284.8	320.1
147.5°	5.4	73.2	165.5	260.4	293.0
150°	5.4	65.1	146.5	238.7	265.8
152.5°	8.1	59.7	130.2	211.6	238.7
155°	8.1	54.3	113.9	181.7	211.6
157.5°	8.1	48.8	97.7	151.9	184.5
160°	8.1	43.4	84.1	124.8	157.3
162.5°	8.1	40.7	73.2	103.1	132.9
165°	8.1	35.3	62.4	84.1	108.5
167.5°	8.1	27.1	51.5	65.1	89.5
170°	8.1	21.7	40.7	46.1	67.8
172.5°	8.1	16.3	29.8	32.6	35.3
175°	8.1	13.6	19.0	19.0	10.9
177.5°	8.1	10.9	10.9	10.9	5.4
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)