

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: P565740

Luminaire Tested: **2SNX-44HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P565740
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: 2SNX-44HL-FDL-UNV-L840-CD
Description: 2FT 4400 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

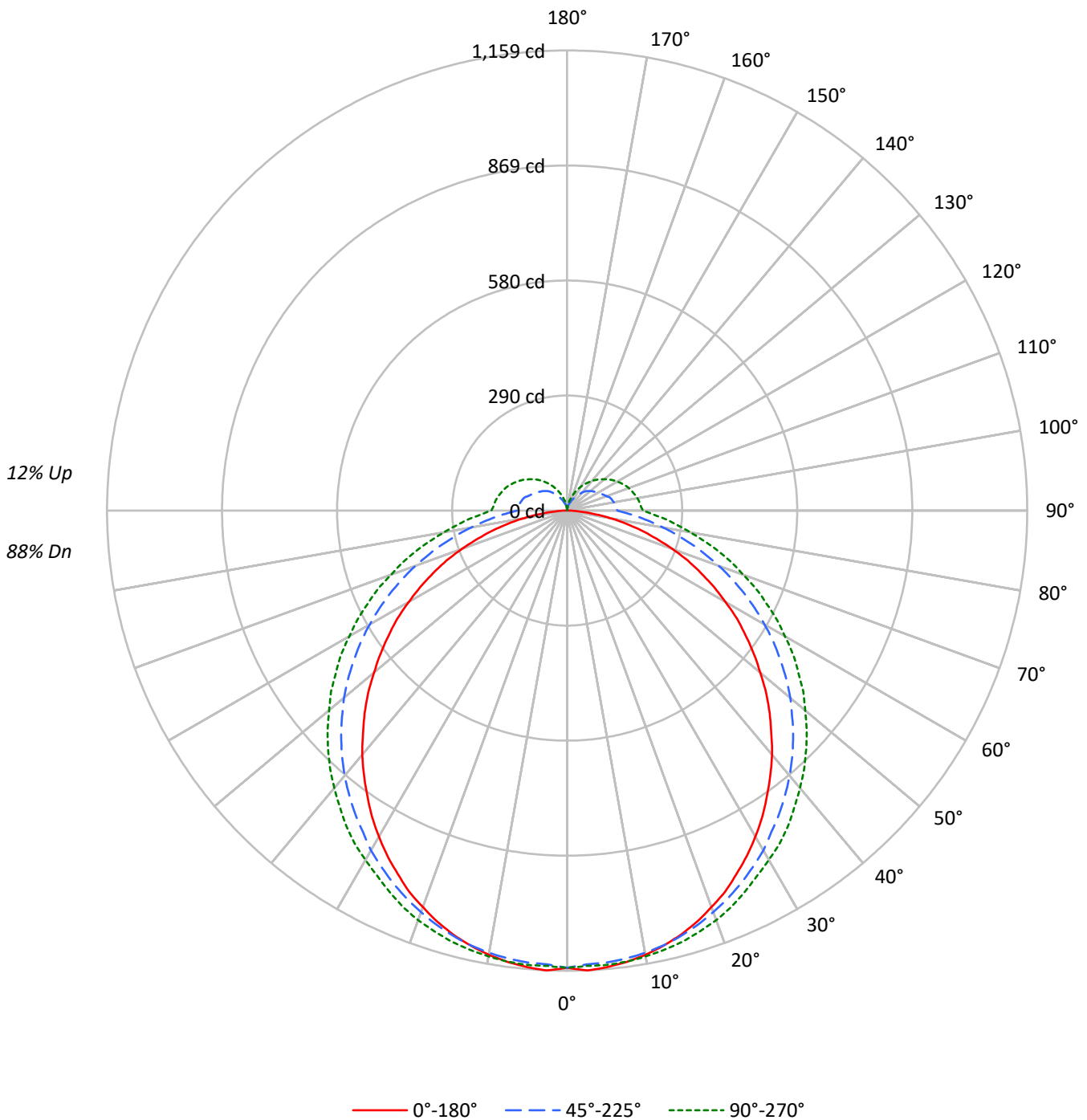
Lumens per Lamp: N/A
Luminaire Lumens: 4146.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 2' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 31.1
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			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°	24791	24791	24791
5°	24901	24404	24469
10°	24742	24159	24213
15°	24517	23869	23978
20°	24167	23522	23707
25°	23751	23173	23347
30°	23298	22821	23039
35°	22730	22401	22823
40°	22179	22050	22492
45°	21512	21642	22215
50°	20742	21211	21861
55°	20003	20679	21546
60°	19149	20113	21159
65°	18105	19458	20782
70°	16783	18736	20352
75°	14903	17934	20204
80°	12285	17387	20044
85°	8499	17567	21129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	2.6
10°-20°	314.5	7.6
20°-30°	478.4	11.5
30°-40°	581.7	14.0
40°-50°	615.4	14.8
50°-60°	576.9	13.9
60°-70°	474.6	11.4
70°-80°	328.4	7.9
80°-90°	182.6	4.4
90°-100°	120.3	2.9
100°-110°	107.9	2.6
110°-120°	89.3	2.2
120°-130°	69.0	1.7
130°-140°	48.9	1.2
140°-150°	29.5	0.7
150°-160°	14.2	0.3
160°-170°	4.6	0.1
170°-180°	0.6	0.0
0°-30°	902.2	21.8
0°-40°	1483.9	35.8
0°-60°	2676.3	64.6
0°-90°	3661.8	88.3
90°-120°	317.4	7.7
90°-150°	464.8	11.2
90°-180°	484.0	11.7
0°-180°	4146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1154	1152	1142	1152	1149	110
15°	1106	1110	1109	1124	1124	312
25°	1010	1024	1036	1059	1059	465
35°	878	901	932	961	970	549
45°	721	759	805	841	851	556
55°	549	598	655	696	711	491
65°	371	425	491	539	554	368
75°	193	249	322	374	394	205
85°	43	106	179	229	248	49
90°	1	60	126	174	191	3
95°	1	57	123	168	185	1
105°	1	49	115	158	172	1
115°	1	43	97	141	156	1
125°	1	36	83	120	135	1
135°	1	28	70	99	111	1
145°	1	21	48	74	84	1
155°	2	14	30	48	55	1
165°	2	9	16	22	28	1
175°	2	4	5	5	3	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.6	1151.6	1151.6	1151.6	1151.6
2.5°	1159.4	1155.9	1143.8	1151.6	1148.0
5°	1154.4	1152.3	1142.4	1151.6	1148.8
7.5°	1146.6	1145.9	1138.1	1148.8	1145.9
10°	1136.0	1137.4	1131.0	1142.4	1140.2
12.5°	1122.5	1124.6	1121.8	1134.6	1133.1
15°	1106.2	1109.7	1109.0	1123.9	1123.9
17.5°	1086.3	1091.2	1094.1	1111.1	1111.1
20°	1062.9	1070.7	1076.3	1094.8	1097.6
22.5°	1039.4	1048.7	1057.2	1076.3	1080.6
25°	1009.6	1023.8	1035.9	1058.6	1059.3
27.5°	980.5	996.1	1012.4	1034.5	1036.6
30°	948.5	968.4	988.3	1009.6	1016.0
32.5°	914.5	936.5	958.5	986.9	995.4
35°	877.5	901.0	931.5	961.3	969.8
37.5°	840.6	866.9	902.4	932.9	940.7
40°	803.0	832.1	871.9	903.1	912.3
42.5°	761.1	796.6	839.2	872.6	883.2
45°	721.3	759.0	805.1	841.3	851.3
47.5°	679.5	719.2	768.9	807.3	818.6
50°	634.7	680.2	733.4	771.8	782.4
52.5°	592.8	639.0	695.1	734.8	749.7
55°	548.8	597.8	655.3	696.5	710.7
57.5°	507.6	554.5	616.3	657.4	675.2
60°	460.8	512.6	574.4	619.1	633.3
62.5°	416.8	469.3	533.2	579.3	595.7
65°	371.3	424.6	490.6	538.9	553.8
67.5°	328.7	381.3	448.7	496.3	515.5
70°	281.9	337.2	406.1	455.1	471.4
72.5°	235.7	293.2	363.5	416.1	434.5
75°	193.1	249.2	322.3	373.5	394.0
77.5°	151.9	208.7	282.6	335.1	352.9
80°	110.8	170.4	245.7	297.5	314.5
82.5°	73.1	135.6	210.2	262.0	280.4
85°	42.6	105.8	178.9	228.6	248.5
87.5°	18.5	80.2	149.8	198.8	215.1
90°	0.7	59.6	126.4	173.9	191.0
92.5°	0.7	58.2	123.5	170.4	186.7
95°	0.7	56.8	122.8	168.3	184.6
97.5°	0.7	56.1	121.4	166.8	182.5
100°	0.7	54.0	119.3	164.0	179.6
102.5°	0.7	51.1	117.1	161.2	176.1
105°	0.7	49.0	115.0	158.3	172.5
107.5°	0.7	46.9	111.5	154.8	169.0
110°	0.7	44.7	105.8	151.2	165.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	44.0	101.5	146.3	161.2
115°	1.4	42.6	97.3	140.6	156.2
117.5°	1.4	41.9	93.7	134.9	151.2
120°	1.4	39.8	90.2	129.9	145.5
122.5°	1.4	37.6	86.6	125.0	140.6
125°	1.4	36.2	83.1	120.0	134.9
127.5°	1.4	34.1	80.2	115.0	128.5
130°	1.4	32.7	76.7	109.3	122.8
132.5°	1.4	30.5	73.1	103.7	116.4
135°	1.4	28.4	69.6	98.7	110.8
137.5°	1.4	25.6	65.3	93.0	104.4
140°	1.4	23.4	59.6	87.3	98.0
142.5°	1.4	22.0	54.0	80.9	90.9
145°	1.4	20.6	48.3	74.5	83.8
147.5°	1.4	19.2	43.3	68.2	76.7
150°	1.4	17.0	38.3	62.5	69.6
152.5°	2.1	15.6	34.1	55.4	62.5
155°	2.1	14.2	29.8	47.6	55.4
157.5°	2.1	12.8	25.6	39.8	48.3
160°	2.1	11.4	22.0	32.7	41.2
162.5°	2.1	10.6	19.2	27.0	34.8
165°	2.1	9.2	16.3	22.0	28.4
167.5°	2.1	7.1	13.5	17.0	23.4
170°	2.1	5.7	10.6	12.1	17.7
172.5°	2.1	4.3	7.8	8.5	9.2
175°	2.1	3.5	5.0	5.0	2.8
177.5°	2.1	2.8	2.8	2.8	1.4
180°	1.4	1.4	1.4	1.4	1.4

(END OF REPORT)