

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: P566262

Luminaire Tested: **4SNX-31SL-SLW-UNV-L830-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNX-31SL-SLW-UNV-L830-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

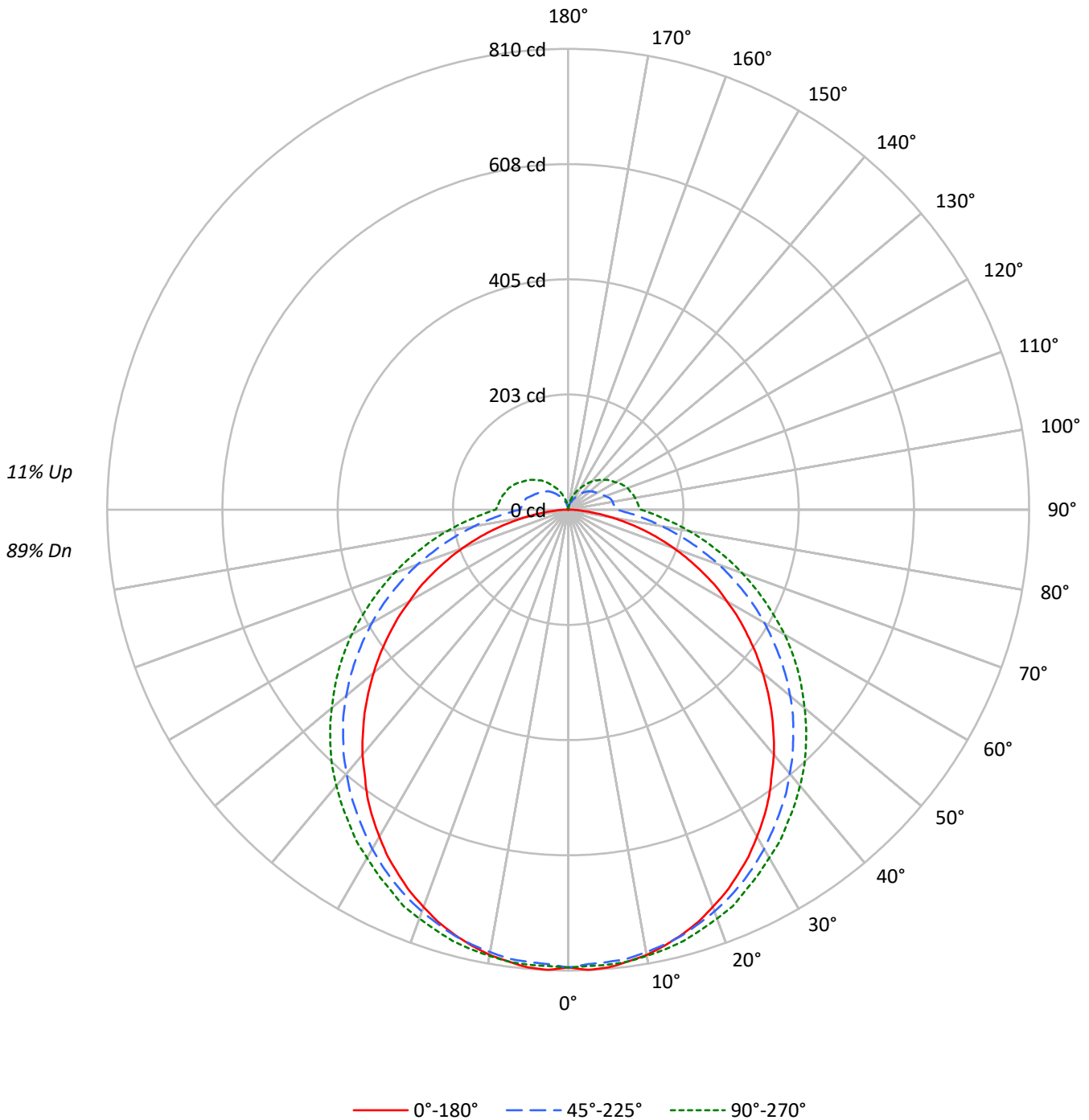
Lumens per Lamp: N/A
Luminaire Lumens: 2864.1 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 19.5
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	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	76	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8660	8660	8660
5°	8712	8437	8429
10°	8653	8267	8221
15°	8566	8091	8029
20°	8448	7891	7815
25°	8312	7694	7592
30°	8149	7479	7370
35°	7971	7256	7163
40°	7766	7036	6964
45°	7545	6811	6748
50°	7292	6573	6508
55°	7013	6289	6272
60°	6687	5985	6009
65°	6350	5642	5676
70°	5877	5266	5351
75°	5250	4788	4991
80°	4232	4300	4636
85°	2985	3884	4273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	2.7
10°-20°	219.6	7.7
20°-30°	334.0	11.7
30°-40°	405.4	14.2
40°-50°	428.4	15.0
50°-60°	400.9	14.0
60°-70°	328.9	11.5
70°-80°	226.2	7.9
80°-90°	123.9	4.3
90°-100°	79.8	2.8
100°-110°	71.6	2.5
110°-120°	59.3	2.1
120°-130°	45.6	1.6
130°-140°	32.1	1.1
140°-150°	19.3	0.7
150°-160°	9.3	0.3
160°-170°	3.0	0.1
170°-180°	0.4	0.0
0°-30°	630.0	22.0
0°-40°	1035.4	36.2
0°-60°	1864.7	65.1
0°-90°	2543.7	88.8
90°-120°	210.6	7.4
90°-150°	307.7	10.7
90°-180°	320.0	11.2
0°-180°	2864.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	808	806	798	804	803	77
15°	773	776	775	785	785	218
25°	707	715	723	738	738	326
35°	615	630	649	667	672	384
45°	506	529	559	584	590	390
55°	385	416	454	483	493	344
65°	260	295	340	372	382	258
75°	136	172	222	257	269	143
85°	30	71	121	154	166	35
90°	0	40	85	116	128	2
95°	0	38	81	111	123	0
105°	0	32	76	104	114	1
115°	2	28	65	93	104	2
125°	2	23	55	80	90	2
135°	2	18	45	65	73	1
145°	2	13	32	50	55	1
155°	2	8	20	32	36	1
165°	2	5	10	15	18	0
175°	2	2	3	3	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	804.5	804.5	804.5	804.5	804.5
2.5°	809.5	807.8	799.5	806.2	802.8
5°	807.8	806.2	797.9	804.5	802.8
7.5°	801.2	801.2	796.2	802.8	801.2
10°	794.6	794.6	789.6	797.9	796.2
12.5°	784.6	786.3	782.9	792.9	791.2
15°	773.0	776.3	774.6	784.6	784.6
17.5°	759.7	763.0	763.0	774.6	774.6
20°	743.1	748.1	751.4	764.7	764.7
22.5°	726.5	733.2	738.2	749.8	754.7
25°	706.6	714.9	723.2	738.2	738.2
27.5°	686.7	696.7	706.6	721.6	723.2
30°	663.5	675.1	688.4	703.3	706.6
32.5°	640.3	655.2	668.5	686.7	691.7
35°	615.4	630.3	648.6	666.8	671.8
37.5°	587.2	605.5	628.7	648.6	653.6
40°	562.3	582.2	605.5	628.7	633.7
42.5°	534.1	555.7	583.9	605.5	613.7
45°	505.9	529.1	559.0	583.9	590.5
47.5°	476.1	502.6	535.8	559.0	567.3
50°	446.2	474.4	509.2	535.8	542.4
52.5°	416.4	446.2	482.7	509.2	517.5
55°	384.8	416.4	454.5	482.7	492.7
57.5°	355.0	386.5	426.3	456.2	466.1
60°	321.8	358.3	398.1	428.0	439.6
62.5°	293.6	326.8	369.9	399.8	409.7
65°	260.4	295.3	340.0	371.6	381.5
67.5°	228.9	265.4	310.2	343.4	353.3
70°	197.4	233.9	282.0	313.5	325.1
72.5°	165.9	204.0	250.5	285.3	296.9
75°	136.0	172.5	222.3	257.1	268.7
77.5°	104.5	144.3	194.1	228.9	242.2
80°	76.3	117.8	167.5	202.4	215.6
82.5°	51.4	92.9	142.7	177.5	190.8
85°	29.9	71.3	121.1	154.3	165.9
87.5°	14.9	54.7	101.2	134.4	146.0
90°	0.0	39.8	84.6	116.1	127.7
92.5°	0.0	38.2	82.9	112.8	124.4
95°	0.0	38.2	81.3	111.1	122.7
97.5°	0.0	36.5	79.6	111.1	121.1
100°	0.0	34.8	79.6	109.5	119.4
102.5°	0.0	33.2	78.0	107.8	117.8
105°	0.0	31.5	76.3	104.5	114.5
107.5°	1.7	31.5	73.0	102.8	112.8
110°	1.7	29.9	69.7	101.2	111.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	28.2	66.4	97.9	107.8
115°	1.7	28.2	64.7	92.9	104.5
117.5°	1.7	26.5	61.4	89.6	101.2
120°	1.7	26.5	59.7	86.3	96.2
122.5°	1.7	24.9	56.4	82.9	92.9
125°	1.7	23.2	54.7	79.6	89.6
127.5°	1.7	21.6	53.1	76.3	86.3
130°	1.7	19.9	49.8	73.0	81.3
132.5°	1.7	19.9	48.1	68.0	78.0
135°	1.7	18.2	44.8	64.7	73.0
137.5°	1.7	16.6	41.5	61.4	69.7
140°	1.7	14.9	38.2	58.1	64.7
142.5°	1.7	14.9	34.8	53.1	59.7
145°	1.7	13.3	31.5	49.8	54.7
147.5°	1.7	11.6	28.2	44.8	49.8
150°	1.7	11.6	24.9	39.8	44.8
152.5°	1.7	10.0	21.6	36.5	41.5
155°	1.7	8.3	19.9	31.5	36.5
157.5°	1.7	8.3	16.6	26.5	31.5
160°	1.7	6.6	14.9	21.6	26.5
162.5°	1.7	6.6	13.3	18.2	23.2
165°	1.7	5.0	10.0	14.9	18.2
167.5°	1.7	5.0	8.3	11.6	14.9
170°	1.7	3.3	6.6	8.3	11.6
172.5°	1.7	3.3	5.0	5.0	5.0
175°	1.7	1.7	3.3	3.3	1.7
177.5°	1.7	1.7	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)