

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: P566256

Luminaire Tested: **4SNX-31SL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566256
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-LW-UNV-L840-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

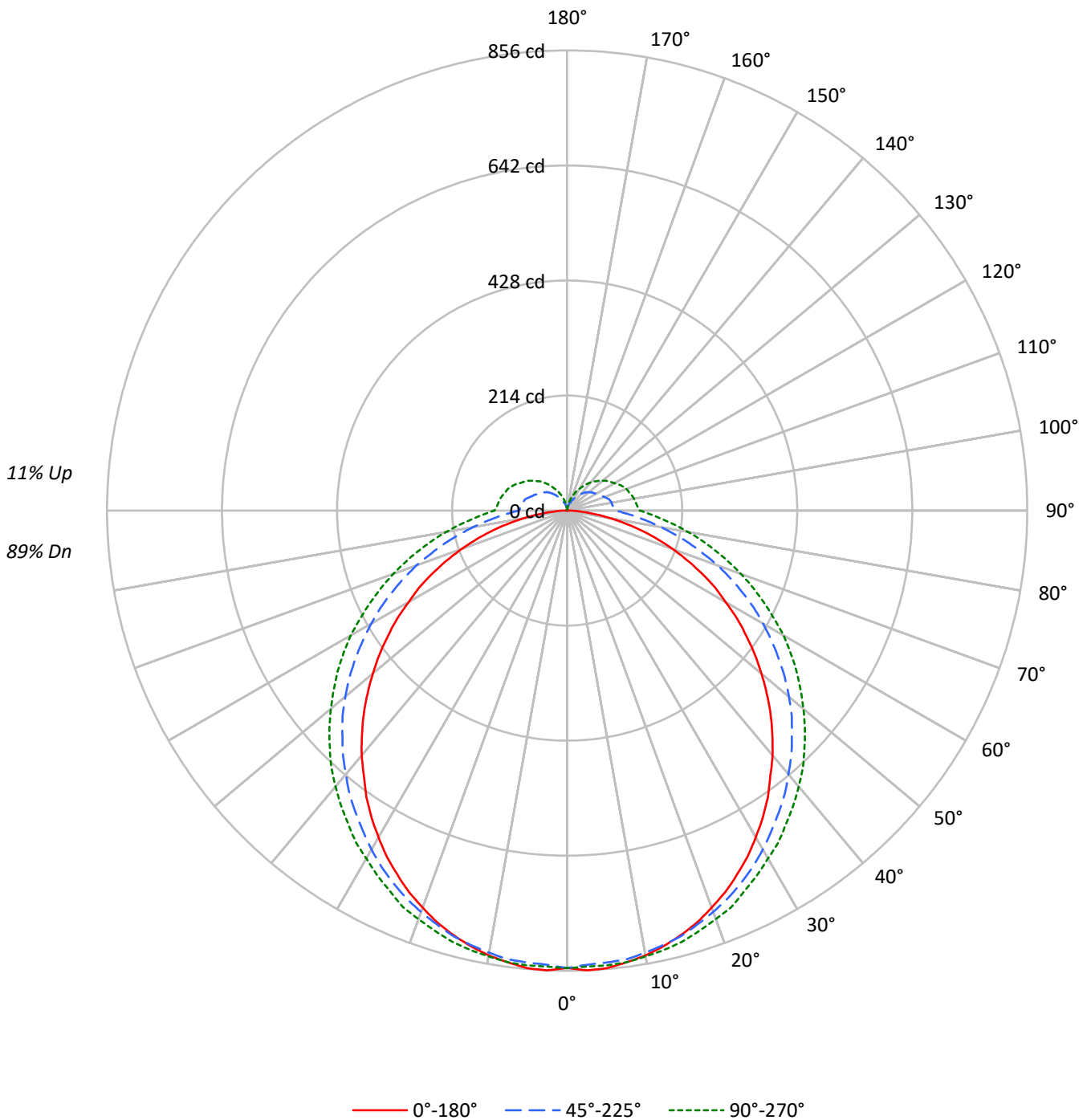
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3029.0 lumens
Efficiency: N/A
Efficacy: 155.3 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: 0.17')
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°	9159	9159	9159
5°	9198	8735	8669
10°	9117	8387	8236
15°	9009	8050	7845
20°	8868	7699	7455
25°	8706	7364	7073
30°	8517	7019	6707
35°	8311	6673	6365
40°	8074	6335	6039
45°	7820	5996	5704
50°	7528	5648	5354
55°	7209	5259	5009
60°	6833	4853	4645
65°	6439	4416	4230
70°	5896	3950	3821
75°	5179	3408	3389
80°	4046	2860	2957
85°	2644	2352	2513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	2.7
10°-20°	232.3	7.7
20°-30°	353.2	11.7
30°-40°	428.7	14.2
40°-50°	453.1	15.0
50°-60°	424.0	14.0
60°-70°	347.9	11.5
70°-80°	239.3	7.9
80°-90°	131.0	4.3
90°-100°	84.4	2.8
100°-110°	75.7	2.5
110°-120°	62.7	2.1
120°-130°	48.3	1.6
130°-140°	33.9	1.1
140°-150°	20.4	0.7
150°-160°	9.8	0.3
160°-170°	3.2	0.1
170°-180°	0.4	0.0
0°-30°	666.3	22.0
0°-40°	1095.1	36.2
0°-60°	1972.1	65.1
0°-90°	2690.2	88.8
90°-120°	222.7	7.4
90°-150°	325.4	10.7
90°-180°	339.0	11.2
0°-180°	3029.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	854	853	844	851	849	81
15°	818	821	819	830	830	231
25°	747	756	765	781	781	344
35°	651	667	686	705	710	407
45°	535	560	591	618	624	412
55°	407	440	481	510	521	364
65°	275	312	360	393	404	273
75°	144	182	235	272	284	151
85°	32	75	128	163	175	37
90°	0	42	90	123	135	2
95°	0	40	86	118	130	0
105°	0	33	81	110	121	1
115°	2	30	68	98	110	2
125°	2	25	58	84	95	2
135°	2	19	47	68	77	1
145°	2	14	33	53	58	1
155°	2	9	21	33	39	1
165°	2	5	10	16	19	1
175°	2	2	4	4	2	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.9	850.9	850.9	850.9	850.9
2.5°	856.1	854.4	845.6	852.6	849.1
5°	854.4	852.6	843.8	850.9	849.1
7.5°	847.3	847.3	842.1	849.1	847.3
10°	840.3	840.3	835.1	843.8	842.1
12.5°	829.8	831.6	828.0	838.6	836.8
15°	817.5	821.0	819.3	829.8	829.8
17.5°	803.5	807.0	807.0	819.3	819.3
20°	785.9	791.2	794.7	808.7	808.7
22.5°	768.4	775.4	780.7	793.0	798.2
25°	747.3	756.1	764.9	780.7	780.7
27.5°	726.3	736.8	747.3	763.1	764.9
30°	701.7	714.0	728.0	743.8	747.3
32.5°	677.2	693.0	707.0	726.3	731.6
35°	650.9	666.6	685.9	705.2	710.5
37.5°	621.0	640.3	664.9	685.9	691.2
40°	594.7	615.8	640.3	664.9	670.2
42.5°	564.9	587.7	617.5	640.3	649.1
45°	535.1	559.6	591.2	617.5	624.5
47.5°	503.5	531.6	566.7	591.2	600.0
50°	471.9	501.7	538.6	566.7	573.7
52.5°	440.3	471.9	510.5	538.6	547.4
55°	407.0	440.3	480.7	510.5	521.0
57.5°	375.4	408.8	450.9	482.4	493.0
60°	340.3	378.9	421.0	452.6	464.9
62.5°	310.5	345.6	391.2	422.8	433.3
65°	275.4	312.3	359.6	393.0	403.5
67.5°	242.1	280.7	328.1	363.1	373.7
70°	208.8	247.4	298.2	331.6	343.8
72.5°	175.4	215.8	264.9	301.7	314.0
75°	143.9	182.5	235.1	271.9	284.2
77.5°	110.5	152.6	205.3	242.1	256.1
80°	80.7	124.6	177.2	214.0	228.1
82.5°	54.4	98.2	150.9	187.7	201.7
85°	31.6	75.4	128.1	163.2	175.4
87.5°	15.8	57.9	107.0	142.1	154.4
90°	0.0	42.1	89.5	122.8	135.1
92.5°	0.0	40.3	87.7	119.3	131.6
95°	0.0	40.3	86.0	117.5	129.8
97.5°	0.0	38.6	84.2	117.5	128.1
100°	0.0	36.8	84.2	115.8	126.3
102.5°	0.0	35.1	82.5	114.0	124.6
105°	0.0	33.3	80.7	110.5	121.0
107.5°	1.8	33.3	77.2	108.8	119.3
110°	1.8	31.6	73.7	107.0	117.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	29.8	70.2	103.5	114.0
115°	1.8	29.8	68.4	98.2	110.5
117.5°	1.8	28.1	64.9	94.7	107.0
120°	1.8	28.1	63.2	91.2	101.8
122.5°	1.8	26.3	59.6	87.7	98.2
125°	1.8	24.6	57.9	84.2	94.7
127.5°	1.8	22.8	56.1	80.7	91.2
130°	1.8	21.1	52.6	77.2	86.0
132.5°	1.8	21.1	50.9	71.9	82.5
135°	1.8	19.3	47.4	68.4	77.2
137.5°	1.8	17.5	43.9	64.9	73.7
140°	1.8	15.8	40.3	61.4	68.4
142.5°	1.8	15.8	36.8	56.1	63.2
145°	1.8	14.0	33.3	52.6	57.9
147.5°	1.8	12.3	29.8	47.4	52.6
150°	1.8	12.3	26.3	42.1	47.4
152.5°	1.8	10.5	22.8	38.6	43.9
155°	1.8	8.8	21.1	33.3	38.6
157.5°	1.8	8.8	17.5	28.1	33.3
160°	1.8	7.0	15.8	22.8	28.1
162.5°	1.8	7.0	14.0	19.3	24.6
165°	1.8	5.3	10.5	15.8	19.3
167.5°	1.8	5.3	8.8	12.3	15.8
170°	1.8	3.5	7.0	8.8	12.3
172.5°	1.8	3.5	5.3	5.3	5.3
175°	1.8	1.8	3.5	3.5	1.8
177.5°	1.8	1.8	1.8	1.8	1.8
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)