

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: P566265

Luminaire Tested: **4SNX-31SL-SLW-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566265
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-L850-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

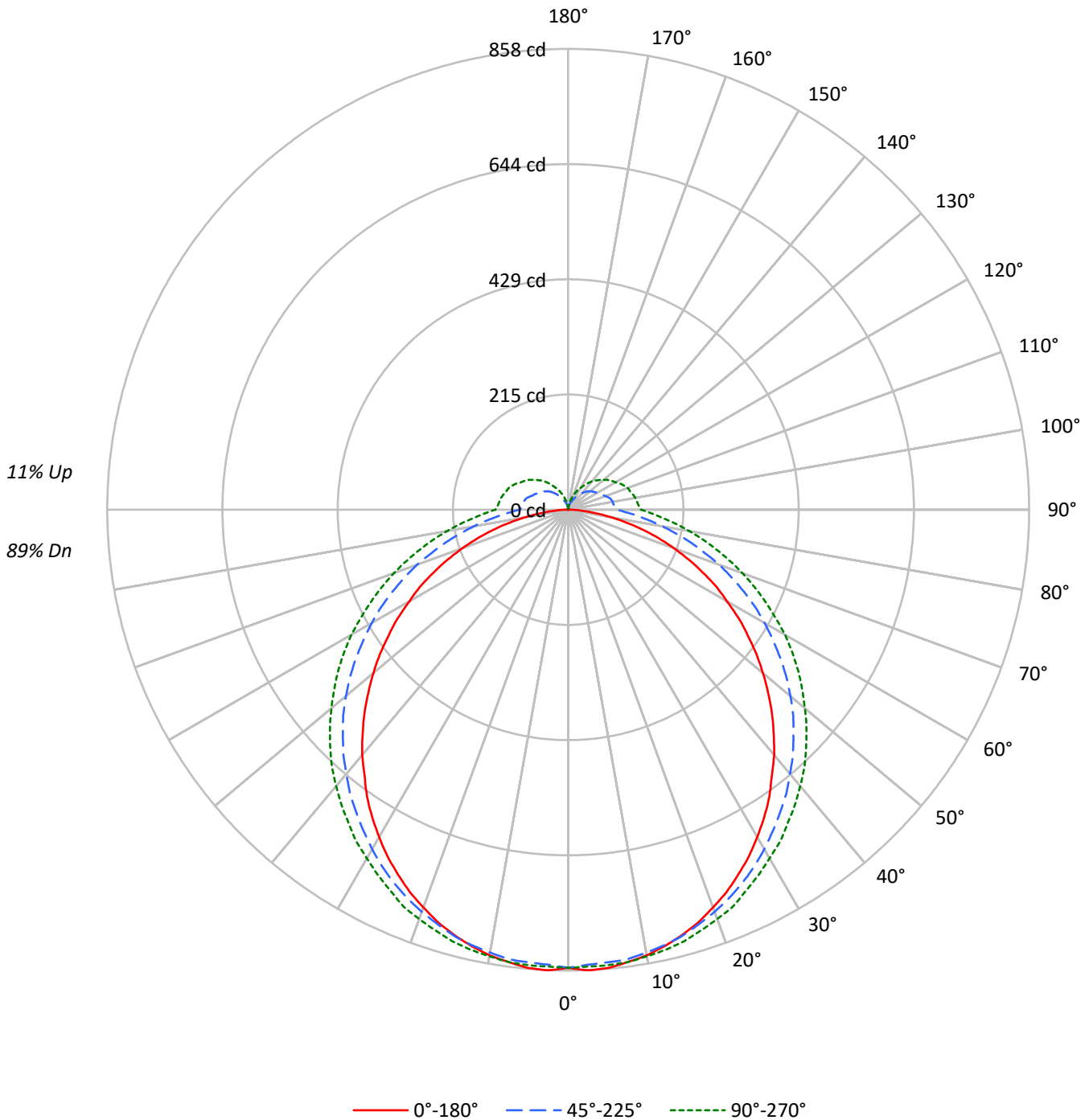
Lumens per Lamp: N/A
Luminaire Lumens: 3037.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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°	9183	9183	9183
5°	9239	8947	8939
10°	9175	8766	8718
15°	9084	8580	8514
20°	8959	8367	8287
25°	8814	8159	8050
30°	8642	7931	7815
35°	8453	7694	7595
40°	8235	7460	7384
45°	8001	7222	7156
50°	7733	6971	6901
55°	7438	6670	6650
60°	7090	6347	6371
65°	6735	5984	6019
70°	6232	5584	5675
75°	5566	5077	5294
80°	4487	4562	4917
85°	3164	4118	4531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	2.7
10°-20°	232.9	7.7
20°-30°	354.1	11.7
30°-40°	429.9	14.2
40°-50°	454.3	15.0
50°-60°	425.1	14.0
60°-70°	348.8	11.5
70°-80°	239.9	7.9
80°-90°	131.4	4.3
90°-100°	84.6	2.8
100°-110°	75.9	2.5
110°-120°	62.8	2.1
120°-130°	48.4	1.6
130°-140°	34.0	1.1
140°-150°	20.5	0.7
150°-160°	9.8	0.3
160°-170°	3.2	0.1
170°-180°	0.4	0.0
0°-30°	668.1	22.0
0°-40°	1098.0	36.2
0°-60°	1977.3	65.1
0°-90°	2697.4	88.8
90°-120°	223.4	7.4
90°-150°	326.2	10.7
90°-180°	340.0	11.2
0°-180°	3037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	857	855	846	853	851	81
15°	820	823	821	832	832	231
25°	749	758	767	783	783	345
35°	653	668	688	707	712	408
45°	536	561	593	619	626	414
55°	408	442	482	512	522	365
65°	276	313	361	394	405	273
75°	144	183	236	273	285	152
85°	32	76	128	164	176	37
90°	0	42	90	123	135	2
95°	0	40	86	118	130	0
105°	0	33	81	111	121	1
115°	2	30	69	98	111	2
125°	2	25	58	84	95	2
135°	2	19	48	69	77	1
145°	2	14	33	53	58	1
155°	2	9	21	33	39	1
165°	2	5	11	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°	853.1	853.1	853.1	853.1	853.1
2.5°	858.4	856.6	847.8	854.9	851.3
5°	856.6	854.9	846.1	853.1	851.3
7.5°	849.6	849.6	844.3	851.3	849.6
10°	842.5	842.5	837.3	846.1	844.3
12.5°	832.0	833.8	830.2	840.8	839.0
15°	819.7	823.2	821.4	832.0	832.0
17.5°	805.6	809.1	809.1	821.4	821.4
20°	788.0	793.3	796.8	810.9	810.9
22.5°	770.4	777.5	782.7	795.1	800.3
25°	749.3	758.1	766.9	782.7	782.7
27.5°	728.2	738.8	749.3	765.2	766.9
30°	703.6	715.9	730.0	745.8	749.3
32.5°	679.0	694.8	708.9	728.2	733.5
35°	652.6	668.4	687.8	707.1	712.4
37.5°	622.7	642.0	666.6	687.8	693.0
40°	596.3	617.4	642.0	666.6	671.9
42.5°	566.4	589.3	619.2	642.0	650.8
45°	536.5	561.1	592.8	619.2	626.2
47.5°	504.8	533.0	568.1	592.8	601.6
50°	473.2	503.1	540.0	568.1	575.2
52.5°	441.5	473.2	511.9	540.0	548.8
55°	408.1	441.5	482.0	511.9	522.4
57.5°	376.4	409.8	452.1	483.7	494.3
60°	341.2	379.9	422.2	453.8	466.1
62.5°	311.3	346.5	392.3	423.9	434.5
65°	276.2	313.1	360.6	394.0	404.6
67.5°	242.7	281.4	328.9	364.1	374.7
70°	209.3	248.0	299.0	332.4	344.8
72.5°	175.9	216.4	265.6	302.5	314.9
75°	144.2	182.9	235.7	272.6	285.0
77.5°	110.8	153.0	205.8	242.7	256.8
80°	80.9	124.9	177.7	214.6	228.7
82.5°	54.5	98.5	151.3	188.2	202.3
85°	31.7	75.6	128.4	163.6	175.9
87.5°	15.8	58.0	107.3	142.5	154.8
90°	0.0	42.2	89.7	123.1	135.4
92.5°	0.0	40.5	87.9	119.6	131.9
95°	0.0	40.5	86.2	117.9	130.2
97.5°	0.0	38.7	84.4	117.9	128.4
100°	0.0	36.9	84.4	116.1	126.6
102.5°	0.0	35.2	82.7	114.3	124.9
105°	0.0	33.4	80.9	110.8	121.4
107.5°	1.8	33.4	77.4	109.1	119.6
110°	1.8	31.7	73.9	107.3	117.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	29.9	70.4	103.8	114.3
115°	1.8	29.9	68.6	98.5	110.8
117.5°	1.8	28.1	65.1	95.0	107.3
120°	1.8	28.1	63.3	91.5	102.0
122.5°	1.8	26.4	59.8	87.9	98.5
125°	1.8	24.6	58.0	84.4	95.0
127.5°	1.8	22.9	56.3	80.9	91.5
130°	1.8	21.1	52.8	77.4	86.2
132.5°	1.8	21.1	51.0	72.1	82.7
135°	1.8	19.3	47.5	68.6	77.4
137.5°	1.8	17.6	44.0	65.1	73.9
140°	1.8	15.8	40.5	61.6	68.6
142.5°	1.8	15.8	36.9	56.3	63.3
145°	1.8	14.1	33.4	52.8	58.0
147.5°	1.8	12.3	29.9	47.5	52.8
150°	1.8	12.3	26.4	42.2	47.5
152.5°	1.8	10.6	22.9	38.7	44.0
155°	1.8	8.8	21.1	33.4	38.7
157.5°	1.8	8.8	17.6	28.1	33.4
160°	1.8	7.0	15.8	22.9	28.1
162.5°	1.8	7.0	14.1	19.3	24.6
165°	1.8	5.3	10.6	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)