

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: P566263

Luminaire Tested: **4SNX-31SL-SLW-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P566263
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-L835-CD
Description: 4FT 3100 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND SLW LENS
Light Source: -
Ballast/Driver: -

Summary

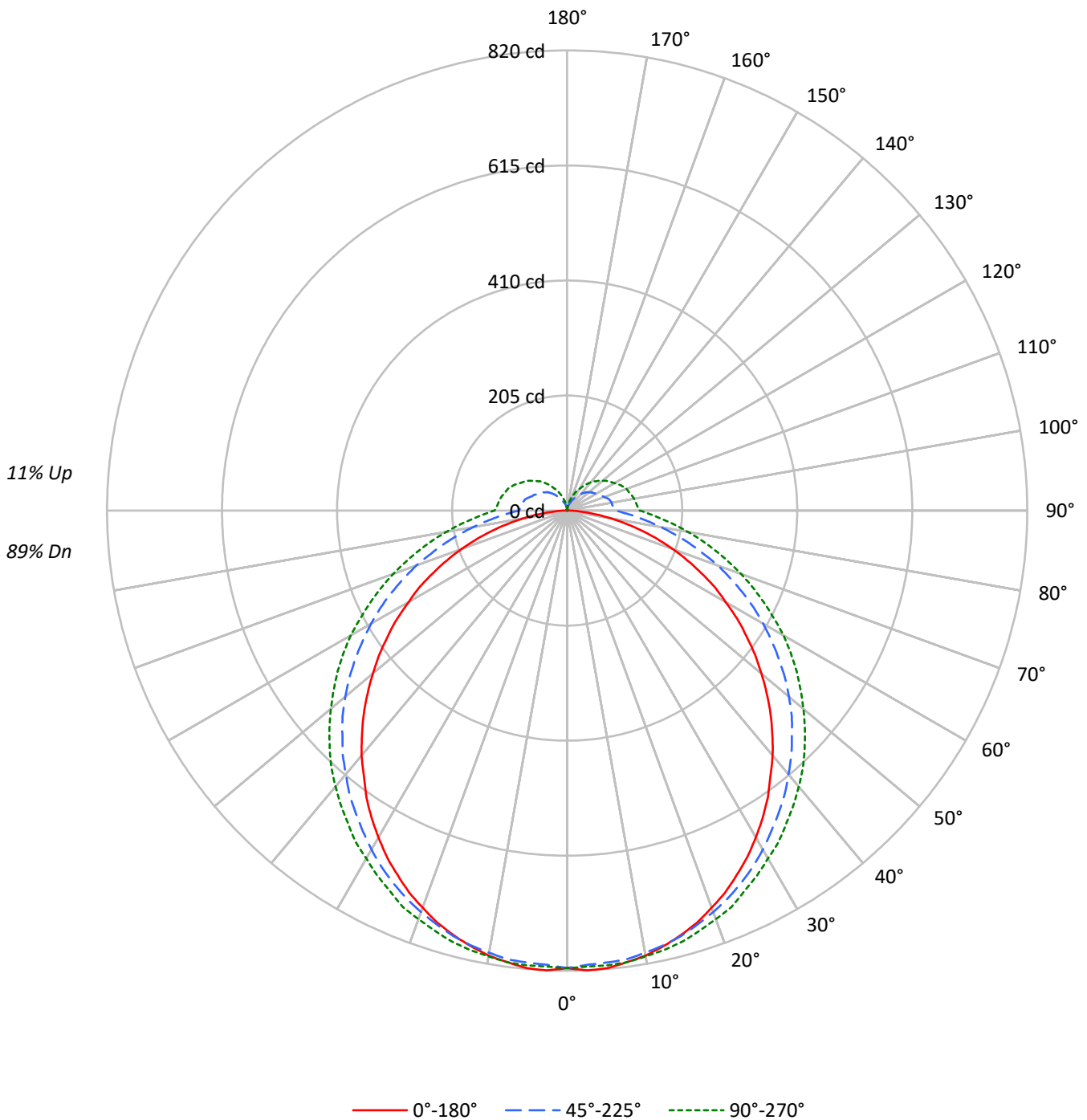
Lumens per Lamp: N/A
Luminaire Lumens: 2902.0 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

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

TEST NUMBER: P566263

CATALOG NUMBER: 4SNX-31SL-SLW-UNV-L835-CD

Luminous Intensity Polar Plot





TEST NUMBER: P566263

CATALOG NUMBER: 4SNX-31SL-SLW-UNV-L835-CD

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°	8775	8775	8775
5°	8828	8549	8542
10°	8768	8377	8331
15°	8679	8199	8135
20°	8561	7996	7918
25°	8422	7796	7692
30°	8257	7578	7468
35°	8077	7352	7257
40°	7869	7128	7057
45°	7644	6901	6839
50°	7388	6661	6594
55°	7106	6372	6355
60°	6777	6064	6088
65°	6435	5718	5752
70°	5955	5335	5421
75°	5319	4850	5058
80°	4287	4359	4698
85°	3025	3935	4330



TEST NUMBER: P566263

CATALOG NUMBER: 4SNX-31SL-SLW-UNV-L835-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	2.7
10°-20°	222.5	7.7
20°-30°	338.4	11.7
30°-40°	410.8	14.2
40°-50°	434.1	15.0
50°-60°	406.2	14.0
60°-70°	333.3	11.5
70°-80°	229.2	7.9
80°-90°	125.5	4.3
90°-100°	80.8	2.8
100°-110°	72.5	2.5
110°-120°	60.1	2.1
120°-130°	46.2	1.6
130°-140°	32.5	1.1
140°-150°	19.6	0.7
150°-160°	9.4	0.3
160°-170°	3.1	0.1
170°-180°	0.4	0.0
0°-30°	638.4	22.0
0°-40°	1049.2	36.2
0°-60°	1889.4	65.1
0°-90°	2577.4	88.8
90°-120°	213.4	7.4
90°-150°	311.7	10.7
90°-180°	325.0	11.2
0°-180°	2902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	818	817	808	815	814	78
15°	783	787	785	795	795	221
25°	716	724	733	748	748	330
35°	624	639	657	676	681	390
45°	513	536	566	592	598	395
55°	390	422	460	489	499	349
65°	264	299	345	376	387	261
75°	138	175	225	260	272	145
85°	30	72	123	156	168	35
90°	0	40	86	118	129	2
95°	0	39	82	113	124	0
105°	0	32	77	106	116	1
115°	2	29	66	94	106	2
125°	2	24	56	81	91	2
135°	2	18	45	66	74	1
145°	2	13	32	50	56	1
155°	2	8	20	32	37	1
165°	2	5	10	15	18	0
175°	2	2	3	3	2	0
180°	2	2	2	2	2	



TEST NUMBER: P566263

CATALOG NUMBER: 4SNX-31SL-SLW-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.2	815.2	815.2	815.2	815.2
2.5°	820.2	818.5	810.1	816.9	813.5
5°	818.5	816.9	808.5	815.2	813.5
7.5°	811.8	811.8	806.8	813.5	811.8
10°	805.1	805.1	800.1	808.5	806.8
12.5°	795.0	796.7	793.3	803.4	801.7
15°	783.2	786.6	784.9	795.0	795.0
17.5°	769.8	773.2	773.2	784.9	784.9
20°	753.0	758.0	761.4	774.8	774.8
22.5°	736.2	742.9	747.9	759.7	764.8
25°	716.0	724.4	732.8	747.9	747.9
27.5°	695.8	705.9	716.0	731.1	732.8
30°	672.3	684.1	697.5	712.7	716.0
32.5°	648.8	663.9	677.4	695.8	700.9
35°	623.6	638.7	657.2	675.7	680.7
37.5°	595.0	613.5	637.0	657.2	662.2
40°	569.8	590.0	613.5	637.0	642.1
42.5°	541.2	563.1	591.6	613.5	621.9
45°	512.6	536.2	566.4	591.6	598.4
47.5°	482.4	509.3	542.9	566.4	574.8
50°	452.1	480.7	516.0	542.9	549.6
52.5°	421.9	452.1	489.1	516.0	524.4
55°	389.9	421.9	460.5	489.1	499.2
57.5°	359.7	391.6	432.0	462.2	472.3
60°	326.1	363.0	403.4	433.6	445.4
62.5°	297.5	331.1	374.8	405.1	415.2
65°	263.9	299.2	344.6	376.5	386.6
67.5°	231.9	268.9	314.3	347.9	358.0
70°	200.0	237.0	285.7	317.7	329.4
72.5°	168.1	206.7	253.8	289.1	300.9
75°	137.8	174.8	225.2	260.5	272.3
77.5°	105.9	146.2	196.7	231.9	245.4
80°	77.3	119.3	169.8	205.1	218.5
82.5°	52.1	94.1	144.5	179.8	193.3
85°	30.3	72.3	122.7	156.3	168.1
87.5°	15.1	55.5	102.5	136.1	147.9
90°	0.0	40.3	85.7	117.7	129.4
92.5°	0.0	38.7	84.0	114.3	126.1
95°	0.0	38.7	82.4	112.6	124.4
97.5°	0.0	37.0	80.7	112.6	122.7
100°	0.0	35.3	80.7	110.9	121.0
102.5°	0.0	33.6	79.0	109.3	119.3
105°	0.0	31.9	77.3	105.9	116.0
107.5°	1.7	31.9	74.0	104.2	114.3
110°	1.7	30.3	70.6	102.5	112.6



TEST NUMBER: P566263

CATALOG NUMBER: 4SNX-31SL-SLW-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	28.6	67.2	99.2	109.3
115°	1.7	28.6	65.6	94.1	105.9
117.5°	1.7	26.9	62.2	90.8	102.5
120°	1.7	26.9	60.5	87.4	97.5
122.5°	1.7	25.2	57.1	84.0	94.1
125°	1.7	23.5	55.5	80.7	90.8
127.5°	1.7	21.9	53.8	77.3	87.4
130°	1.7	20.2	50.4	74.0	82.4
132.5°	1.7	20.2	48.7	68.9	79.0
135°	1.7	18.5	45.4	65.6	74.0
137.5°	1.7	16.8	42.0	62.2	70.6
140°	1.7	15.1	38.7	58.8	65.6
142.5°	1.7	15.1	35.3	53.8	60.5
145°	1.7	13.4	31.9	50.4	55.5
147.5°	1.7	11.8	28.6	45.4	50.4
150°	1.7	11.8	25.2	40.3	45.4
152.5°	1.7	10.1	21.9	37.0	42.0
155°	1.7	8.4	20.2	31.9	37.0
157.5°	1.7	8.4	16.8	26.9	31.9
160°	1.7	6.7	15.1	21.9	26.9
162.5°	1.7	6.7	13.4	18.5	23.5
165°	1.7	5.0	10.1	15.1	18.5
167.5°	1.7	5.0	8.4	11.8	15.1
170°	1.7	3.4	6.7	8.4	11.8
172.5°	1.7	3.4	5.0	5.0	5.0
175°	1.7	1.7	3.4	3.4	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)