

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: P#

Luminaire Tested: **2SNLED-LD5-22SL-SLN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2SNLED-LD5-22SL-SLN-UNV-L830-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

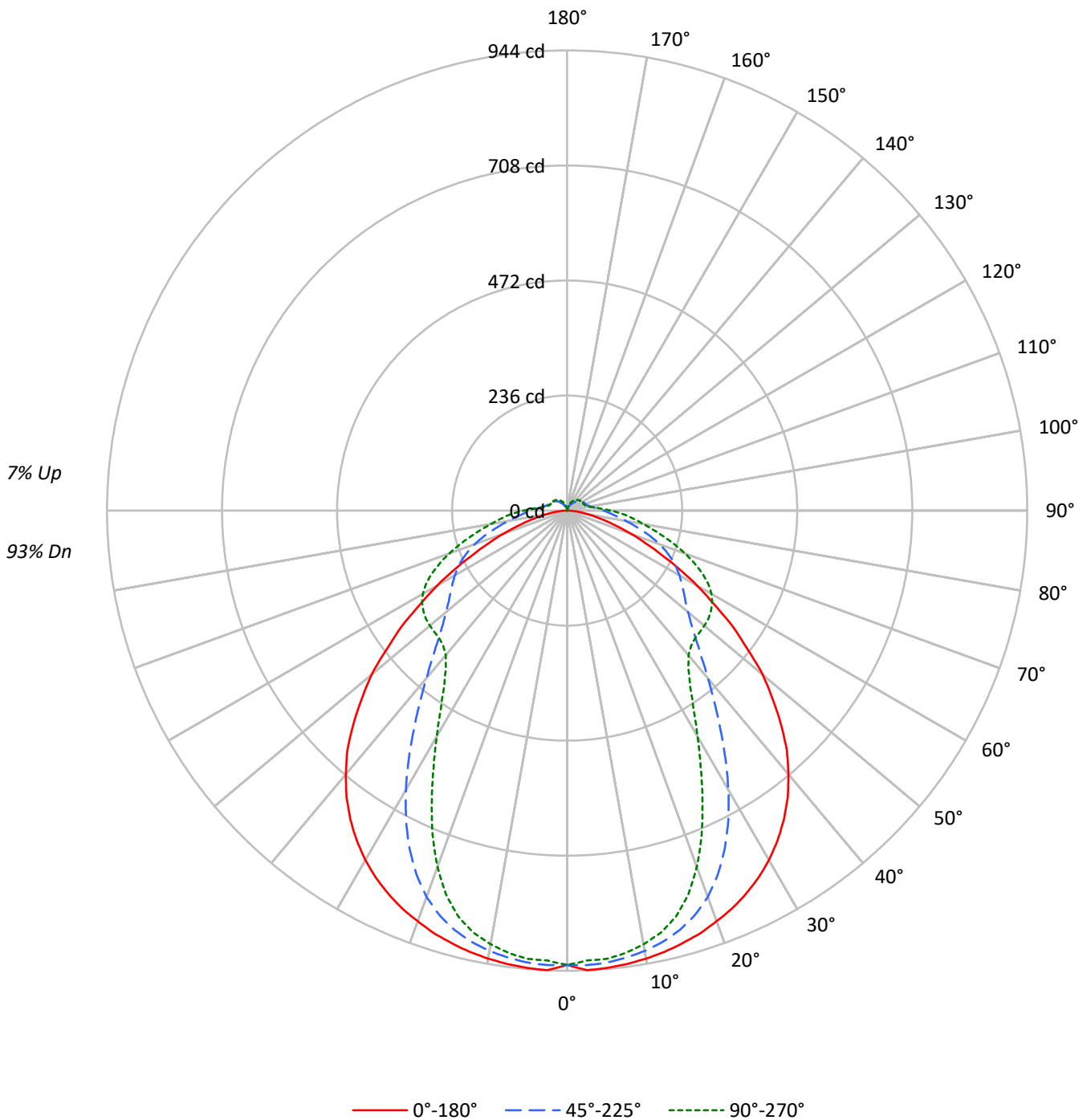
Lumens per Lamp: N/A
Luminaire Lumens: 2344.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15065	15065	15065
5°	15196	14704	14502
10°	15150	14272	13904
15°	15112	13769	13111
20°	15075	13037	11774
25°	15035	11924	9971
30°	14914	10473	8201
35°	14648	8894	6873
40°	14161	7516	6212
45°	13350	6519	6165
50°	12267	5945	6383
55°	10730	5699	6606
60°	8980	5599	6697
65°	7146	5456	6487
70°	5654	5150	5983
75°	4162	4635	5311
80°	2948	4130	4724
85°	1796	3857	4346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.8
10°-20°	249.2	10.6
20°-30°	348.4	14.9
30°-40°	361.4	15.4
40°-50°	333.9	14.2
50°-60°	298.1	12.7
60°-70°	241.6	10.3
70°-80°	160.7	6.9
80°-90°	92.0	3.9
90°-100°	50.9	2.2
100°-110°	34.5	1.5
110°-120°	28.7	1.2
120°-130°	23.3	1.0
130°-140°	16.8	0.7
140°-150°	10.1	0.4
150°-160°	4.9	0.2
160°-170°	1.3	0.1
170°-180°	0.0	0.0
0°-30°	685.8	29.3
0°-40°	1047.2	44.7
0°-60°	1679.2	71.6
0°-90°	2173.5	92.7
90°-120°	114.1	4.9
90°-150°	164.4	7.0
90°-180°	171.0	7.3
0°-180°	2344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	942	926	931	924	923	90
15°	918	899	891	871	862	259
25°	868	829	765	685	657	400
35°	775	690	548	461	440	483
45°	621	492	374	360	371	477
55°	415	314	292	339	360	369
65°	212	190	237	291	306	214
75°	82	103	160	196	204	90
85°	17	48	94	121	124	19
90°	1	34	74	90	89	1
95°	1	28	59	63	61	1
105°	0	25	42	41	39	0
115°	0	22	38	37	36	0
125°	0	19	33	35	34	0
135°	1	14	26	31	31	1
145°	1	9	18	24	26	1
155°	1	6	11	15	18	0
165°	1	3	6	7	10	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.1	932.1	932.1	932.1	932.1
2.5°	943.8	928.4	933.3	929.2	924.0
5°	941.8	926.0	930.9	924.4	923.2
7.5°	938.1	922.3	925.2	917.5	915.5
10°	933.3	916.7	917.1	906.1	903.3
12.5°	926.8	908.6	906.1	891.2	887.1
15°	918.3	898.9	891.2	870.9	862.4
17.5°	909.0	886.3	870.5	839.3	825.9
20°	896.4	870.9	843.4	796.0	778.1
22.5°	883.9	852.3	808.1	744.9	721.0
25°	867.7	829.2	765.2	685.0	657.0
27.5°	849.4	802.0	715.8	623.4	593.4
30°	828.0	769.2	661.5	563.0	534.7
32.5°	802.9	732.4	604.4	508.8	482.4
35°	774.9	689.8	548.5	460.6	439.9
37.5°	742.9	643.3	496.6	421.7	408.3
40°	706.4	592.6	448.8	391.7	387.2
42.5°	667.2	543.2	407.9	372.3	376.3
45°	620.6	491.8	373.5	360.1	371.0
47.5°	571.6	441.5	345.5	353.2	369.0
50°	524.2	394.9	323.7	348.8	367.4
52.5°	465.4	353.2	306.2	344.7	365.0
55°	414.8	313.5	291.7	339.0	360.1
57.5°	356.5	277.9	278.7	331.8	352.8
60°	307.9	245.5	266.1	321.6	341.9
62.5°	258.4	216.3	252.4	308.3	326.5
65°	211.9	189.6	237.4	290.8	306.2
67.5°	173.0	165.3	220.4	269.8	282.7
70°	140.2	143.0	201.7	246.3	257.2
72.5°	107.7	122.3	181.5	221.2	230.5
75°	82.2	102.9	160.0	196.1	204.2
77.5°	60.8	85.9	140.6	173.4	180.3
80°	42.9	70.9	122.3	153.5	158.8
82.5°	28.8	58.3	107.3	135.7	140.6
85°	16.6	47.8	94.4	120.7	124.0
87.5°	6.9	39.7	83.8	105.3	106.9
90°	0.8	33.6	74.5	89.9	89.1
92.5°	0.8	30.4	66.4	75.3	73.3
95°	0.8	28.4	59.1	63.2	61.2
97.5°	0.8	27.1	52.7	54.3	52.3
100°	0.4	26.3	48.2	48.2	46.2
102.5°	0.4	25.5	45.0	43.7	42.1
105°	0.4	24.7	42.5	41.3	39.3
107.5°	0.4	24.3	40.9	39.7	37.7
110°	0.4	23.5	39.7	38.5	36.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	23.1	38.9	38.1	36.1
115°	0.4	22.3	37.7	37.3	36.1
117.5°	0.4	21.5	36.9	36.9	35.6
120°	0.4	20.7	35.6	36.5	35.2
122.5°	0.4	19.8	34.4	35.6	34.4
125°	0.4	19.0	33.2	34.8	34.0
127.5°	0.8	17.8	31.6	34.0	33.2
130°	0.4	16.6	30.0	33.2	32.8
132.5°	0.8	15.4	28.4	32.0	32.0
135°	0.8	14.2	26.3	30.8	30.8
137.5°	0.8	12.6	24.3	29.2	29.6
140°	0.8	11.3	22.3	27.5	28.4
142.5°	0.8	10.1	20.3	25.9	27.1
145°	0.8	8.9	18.2	23.9	25.5
147.5°	0.8	8.1	16.2	21.5	23.9
150°	0.8	6.9	14.6	19.4	21.9
152.5°	0.8	6.1	13.0	17.4	20.3
155°	0.8	5.7	11.3	15.0	18.2
157.5°	0.8	4.9	9.7	13.0	16.2
160°	0.8	4.1	8.1	11.3	13.8
162.5°	0.8	3.6	6.9	9.3	12.2
165°	0.8	3.2	5.7	7.3	9.7
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)