

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-LD5-27SL-SLN-UNV-L840-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-LD5-27SL-SLN-UNV-L840-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

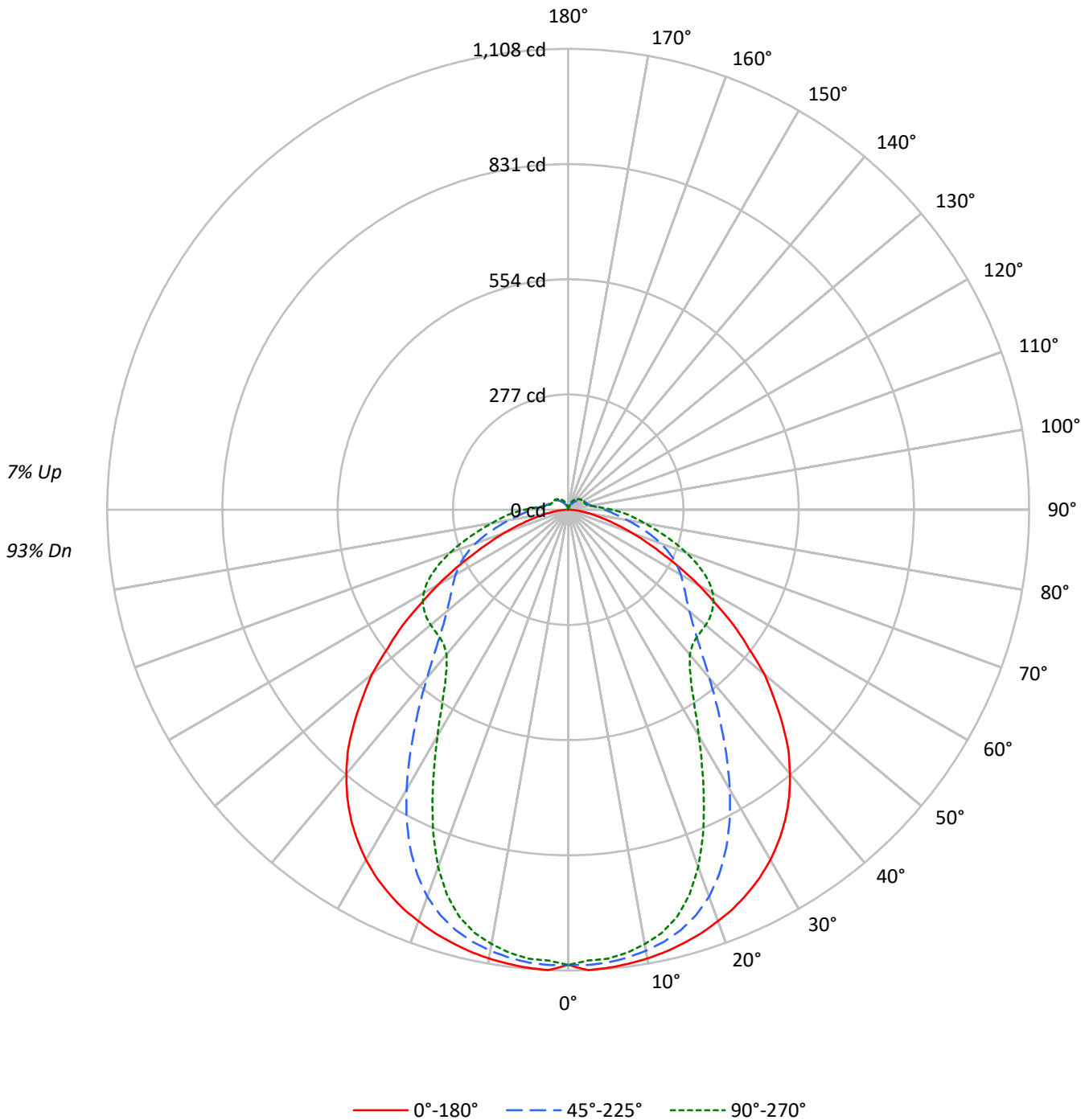
Lumens per Lamp: N/A
Luminaire Lumens: 2752.0 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
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°	17686	17686	17686
5°	17841	17263	17024
10°	17786	16755	16324
15°	17742	16166	15393
20°	17700	15306	13824
25°	17652	14000	11707
30°	17510	12295	9629
35°	17198	10441	8070
40°	16627	8824	7295
45°	15674	7653	7239
50°	14401	6979	7493
55°	12598	6690	7756
60°	10541	6575	7863
65°	8387	6405	7617
70°	6638	6046	7025
75°	4886	5443	6234
80°	3463	4850	5545
85°	2109	4527	5100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	3.8
10°-20°	292.6	10.6
20°-30°	409.1	14.9
30°-40°	424.3	15.4
40°-50°	392.0	14.2
50°-60°	350.0	12.7
60°-70°	283.6	10.3
70°-80°	188.6	6.9
80°-90°	108.0	3.9
90°-100°	59.8	2.2
100°-110°	40.5	1.5
110°-120°	33.7	1.2
120°-130°	27.4	1.0
130°-140°	19.8	0.7
140°-150°	11.9	0.4
150°-160°	5.7	0.2
160°-170°	1.5	0.1
170°-180°	0.0	0.0
0°-30°	805.2	29.3
0°-40°	1229.5	44.7
0°-60°	1971.5	71.6
0°-90°	2551.8	92.7
90°-120°	134.0	4.9
90°-150°	193.0	7.0
90°-180°	200.0	7.3
0°-180°	2752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1106	1087	1093	1085	1084	105
15°	1078	1055	1046	1022	1012	305
25°	1019	974	898	804	771	469
35°	910	810	644	541	516	568
45°	729	577	438	423	436	560
55°	487	368	342	398	423	433
65°	249	223	279	342	360	251
75°	96	121	188	230	240	106
85°	20	56	111	142	146	22
90°	1	40	88	106	105	2
95°	1	33	69	74	72	1
105°	0	29	50	48	46	1
115°	0	26	44	44	42	0
125°	0	22	39	41	40	1
135°	1	17	31	36	36	1
145°	1	10	21	28	30	1
155°	1	7	13	18	21	0
165°	1	4	7	9	11	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°	1094.3	1094.3	1094.3	1094.3	1094.3
2.5°	1108.1	1090.0	1095.7	1091.0	1084.8
5°	1105.7	1087.2	1092.9	1085.3	1083.8
7.5°	1101.4	1082.9	1086.2	1077.2	1074.8
10°	1095.7	1076.2	1076.7	1063.9	1060.5
12.5°	1088.1	1066.7	1063.9	1046.3	1041.5
15°	1078.1	1055.3	1046.3	1022.5	1012.5
17.5°	1067.2	1040.6	1022.0	985.4	969.7
20°	1052.5	1022.5	990.2	934.5	913.6
22.5°	1037.7	1000.6	948.8	874.6	846.5
25°	1018.7	973.5	898.4	804.2	771.4
27.5°	997.3	941.6	840.3	731.9	696.7
30°	972.1	903.1	776.6	661.1	627.8
32.5°	942.6	859.8	709.6	597.3	566.4
35°	909.8	809.9	643.9	540.7	516.5
37.5°	872.2	755.2	583.1	495.1	479.4
40°	829.4	695.8	526.9	459.9	454.7
42.5°	783.3	637.8	478.9	437.1	441.8
45°	728.6	577.4	438.5	422.8	435.6
47.5°	671.0	518.4	405.7	414.7	433.3
50°	615.4	463.7	380.0	409.5	431.3
52.5°	546.4	414.7	359.5	404.7	428.5
55°	487.0	368.1	342.4	398.1	422.8
57.5°	418.5	326.2	327.2	389.5	414.2
60°	361.4	288.2	312.5	377.6	401.4
62.5°	303.4	254.0	296.3	361.9	383.3
65°	248.7	222.6	278.7	341.5	359.5
67.5°	203.1	194.0	258.7	316.7	332.0
70°	164.6	167.9	236.8	289.2	302.0
72.5°	126.5	143.6	213.1	259.7	270.6
75°	96.5	120.8	187.9	230.2	239.7
77.5°	71.3	100.8	165.0	203.5	211.6
80°	50.4	83.2	143.6	180.2	186.4
82.5°	33.8	68.5	126.0	159.3	165.0
85°	19.5	56.1	110.8	141.7	145.5
87.5°	8.1	46.6	98.4	123.7	125.6
90°	1.0	39.5	87.5	105.6	104.6
92.5°	1.0	35.7	78.0	88.5	86.1
95°	1.0	33.3	69.4	74.2	71.8
97.5°	1.0	31.9	61.8	63.7	61.3
100°	0.5	30.9	56.6	56.6	54.2
102.5°	0.5	30.0	52.8	51.4	49.5
105°	0.5	29.0	49.9	48.5	46.1
107.5°	0.5	28.5	48.0	46.6	44.2
110°	0.5	27.6	46.6	45.2	43.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	27.1	45.7	44.7	42.3
115°	0.5	26.2	44.2	43.8	42.3
117.5°	0.5	25.2	43.3	43.3	41.9
120°	0.5	24.3	41.9	42.8	41.4
122.5°	0.5	23.3	40.4	41.9	40.4
125°	0.5	22.4	39.0	40.9	39.9
127.5°	1.0	20.9	37.1	39.9	39.0
130°	0.5	19.5	35.2	39.0	38.5
132.5°	1.0	18.1	33.3	37.6	37.6
135°	1.0	16.6	30.9	36.1	36.1
137.5°	1.0	14.7	28.5	34.2	34.7
140°	1.0	13.3	26.2	32.3	33.3
142.5°	1.0	11.9	23.8	30.4	31.9
145°	1.0	10.5	21.4	28.1	30.0
147.5°	1.0	9.5	19.0	25.2	28.1
150°	1.0	8.1	17.1	22.8	25.7
152.5°	1.0	7.1	15.2	20.4	23.8
155°	1.0	6.7	13.3	17.6	21.4
157.5°	1.0	5.7	11.4	15.2	19.0
160°	1.0	4.8	9.5	13.3	16.2
162.5°	1.0	4.3	8.1	10.9	14.3
165°	1.0	3.8	6.7	8.6	11.4
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)