

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: **8SNLED-LD5-106SL-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: 8SNLED-LD5-106SL-SLN-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

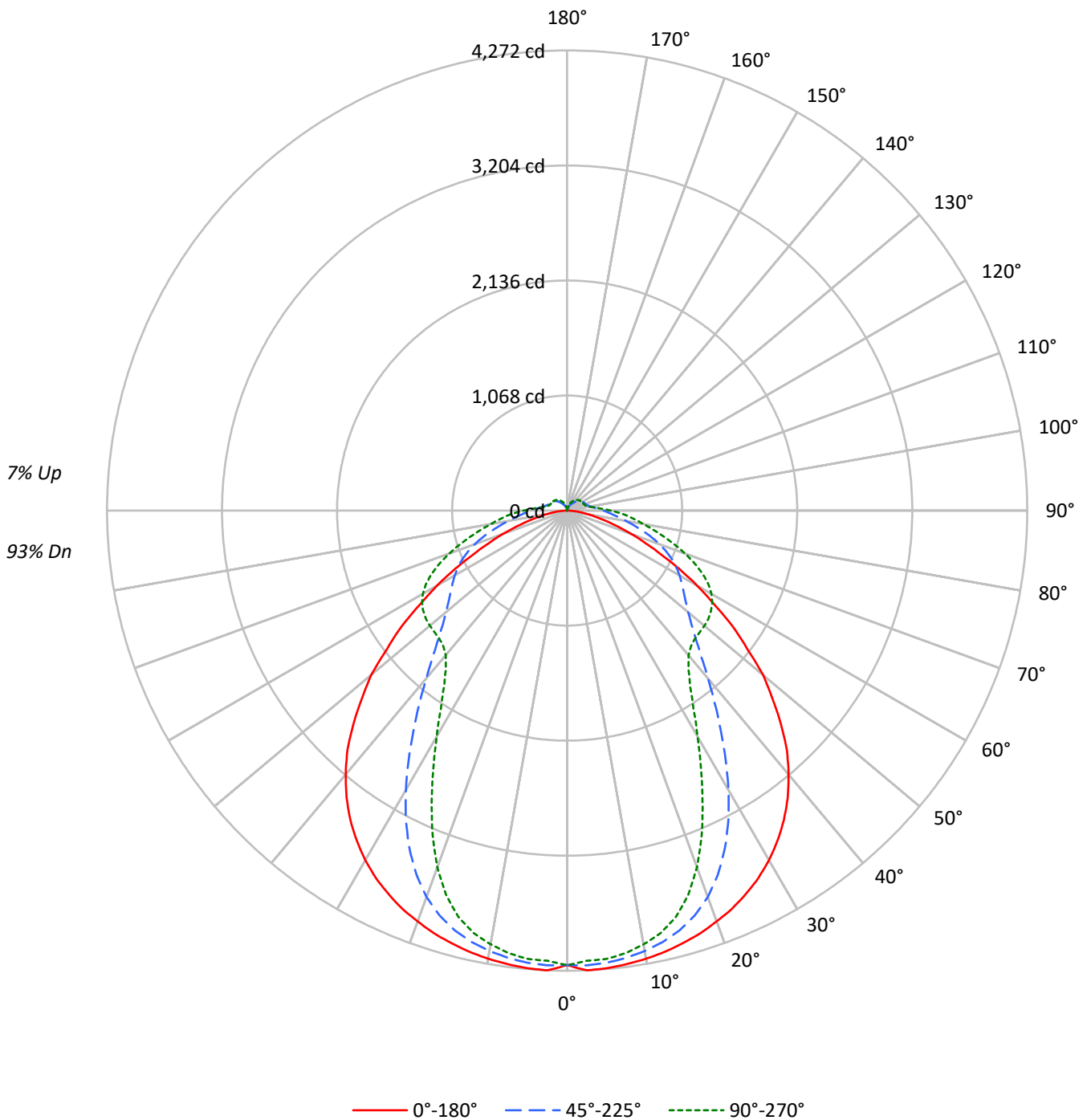
Lumens per Lamp: N/A
Luminaire Lumens: 10611.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 82
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°	17049	17049	17049
5°	17269	16688	16411
10°	17286	16241	15736
15°	17316	15711	14838
20°	17350	14915	13326
25°	17384	13679	11285
30°	17331	12048	9282
35°	17116	10260	7778
40°	16650	8698	7031
45°	15805	7568	6978
50°	14643	6927	7223
55°	12939	6668	7476
60°	10965	6583	7579
65°	8871	6450	7343
70°	7187	6131	6772
75°	5490	5565	6009
80°	4155	5018	5345
85°	2958	4762	4917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.2	3.8
10°-20°	1128.3	10.6
20°-30°	1577.2	14.9
30°-40°	1636.0	15.4
40°-50°	1511.4	14.2
50°-60°	1349.4	12.7
60°-70°	1093.6	10.3
70°-80°	727.4	6.9
80°-90°	416.5	3.9
90°-100°	230.4	2.2
100°-110°	156.0	1.5
110°-120°	129.9	1.2
120°-130°	105.6	1.0
130°-140°	76.2	0.7
140°-150°	45.9	0.4
150°-160°	22.1	0.2
160°-170°	5.7	0.1
170°-180°	0.0	0.0
0°-30°	3104.7	29.3
0°-40°	4740.7	44.7
0°-60°	7601.5	71.6
0°-90°	9839.0	92.7
90°-120°	516.4	4.9
90°-150°	744.2	7.0
90°-180°	772.0	7.3
0°-180°	10611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4219	4219	4219	4219	4219	
5°	4263	4192	4214	4184	4179	406
15°	4157	4069	4034	3942	3904	1175
25°	3928	3754	3464	3101	2974	1810
35°	3508	3123	2483	2085	1991	2189
45°	2809	2226	1691	1630	1680	2160
55°	1878	1419	1320	1535	1630	1670
65°	959	858	1075	1317	1386	969
75°	372	466	724	888	924	408
85°	75	216	427	546	561	87
90°	4	152	337	407	403	6
95°	4	128	268	286	277	3
105°	2	112	192	187	178	2
115°	2	101	170	169	163	2
125°	2	86	150	158	154	2
135°	4	64	119	139	139	3
145°	4	40	82	108	116	2
155°	4	26	51	68	82	2
165°	4	15	26	33	44	1
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°	4219.4	4219.4	4219.4	4219.4	4219.4
2.5°	4272.5	4202.9	4224.9	4206.5	4182.7
5°	4263.4	4191.9	4213.9	4184.5	4179.0
7.5°	4246.9	4175.3	4188.2	4153.3	4144.2
10°	4224.9	4149.7	4151.5	4102.0	4089.2
12.5°	4195.5	4113.0	4102.0	4034.2	4015.8
15°	4157.0	4069.0	4034.2	3942.5	3904.0
17.5°	4114.8	4012.1	3940.6	3799.4	3738.9
20°	4058.0	3942.5	3817.8	3603.2	3522.5
22.5°	4001.1	3858.1	3658.2	3372.2	3264.0
25°	3927.8	3753.6	3463.9	3100.8	2974.3
27.5°	3845.3	3630.7	3240.2	2822.1	2686.4
30°	3748.1	3482.2	2994.4	2548.9	2420.5
32.5°	3634.4	3315.3	2735.9	2303.1	2183.9
35°	3507.9	3122.8	2482.8	2084.9	1991.4
37.5°	3363.0	2911.9	2248.1	1908.9	1848.4
40°	3198.0	2682.7	2031.7	1773.2	1753.0
42.5°	3020.1	2459.0	1846.5	1685.2	1703.5
45°	2809.2	2226.1	1690.7	1630.2	1679.7
47.5°	2587.4	1998.7	1564.2	1599.0	1670.5
50°	2372.8	1787.9	1465.1	1578.8	1663.2
52.5°	2106.9	1599.0	1386.3	1560.5	1652.2
55°	1877.7	1419.3	1320.3	1534.8	1630.2
57.5°	1613.7	1257.9	1261.6	1501.8	1597.2
60°	1393.6	1111.2	1204.7	1456.0	1547.6
62.5°	1169.9	979.2	1142.4	1395.5	1478.0
65°	959.0	858.2	1074.6	1316.6	1386.3
67.5°	783.0	748.2	997.5	1221.2	1279.9
70°	634.5	647.3	913.2	1114.9	1164.4
72.5°	487.8	553.8	821.5	1001.2	1043.4
75°	372.2	465.8	724.3	887.5	924.2
77.5°	275.1	388.7	636.3	784.8	816.0
80°	194.4	320.9	553.8	695.0	718.8
82.5°	130.2	264.1	485.9	614.3	636.3
85°	75.2	216.4	427.3	546.4	561.1
87.5°	31.2	179.7	379.6	476.8	484.1
90°	3.7	152.2	337.4	407.1	403.4
92.5°	3.7	137.5	300.7	341.1	331.9
95°	3.7	128.4	267.7	286.1	276.9
97.5°	3.7	122.9	238.4	245.7	236.5
100°	1.8	119.2	218.2	218.2	209.0
102.5°	1.8	115.5	203.5	198.0	190.7
105°	1.8	111.9	192.5	187.0	177.9
107.5°	1.8	110.0	185.2	179.7	170.5
110°	1.8	106.4	179.7	174.2	166.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	104.5	176.0	172.4	163.2
115°	1.8	100.9	170.5	168.7	163.2
117.5°	1.8	97.2	166.9	166.9	161.4
120°	1.8	93.5	161.4	165.0	159.5
122.5°	1.8	89.9	155.9	161.4	155.9
125°	1.8	86.2	150.4	157.7	154.0
127.5°	3.7	80.7	143.0	154.0	150.4
130°	1.8	75.2	135.7	150.4	148.5
132.5°	3.7	69.7	128.4	144.9	144.9
135°	3.7	64.2	119.2	139.4	139.4
137.5°	3.7	56.8	110.0	132.0	133.9
140°	3.7	51.3	100.9	124.7	128.4
142.5°	3.7	45.8	91.7	117.4	122.9
145°	3.7	40.3	82.5	108.2	115.5
147.5°	3.7	36.7	73.3	97.2	108.2
150°	3.7	31.2	66.0	88.0	99.0
152.5°	3.7	27.5	58.7	78.8	91.7
155°	3.7	25.7	51.3	67.8	82.5
157.5°	3.7	22.0	44.0	58.7	73.3
160°	3.7	18.3	36.7	51.3	62.3
162.5°	3.7	16.5	31.2	42.2	55.0
165°	3.7	14.7	25.7	33.0	44.0
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)