

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-LD5-112SL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-112SL-SLC-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

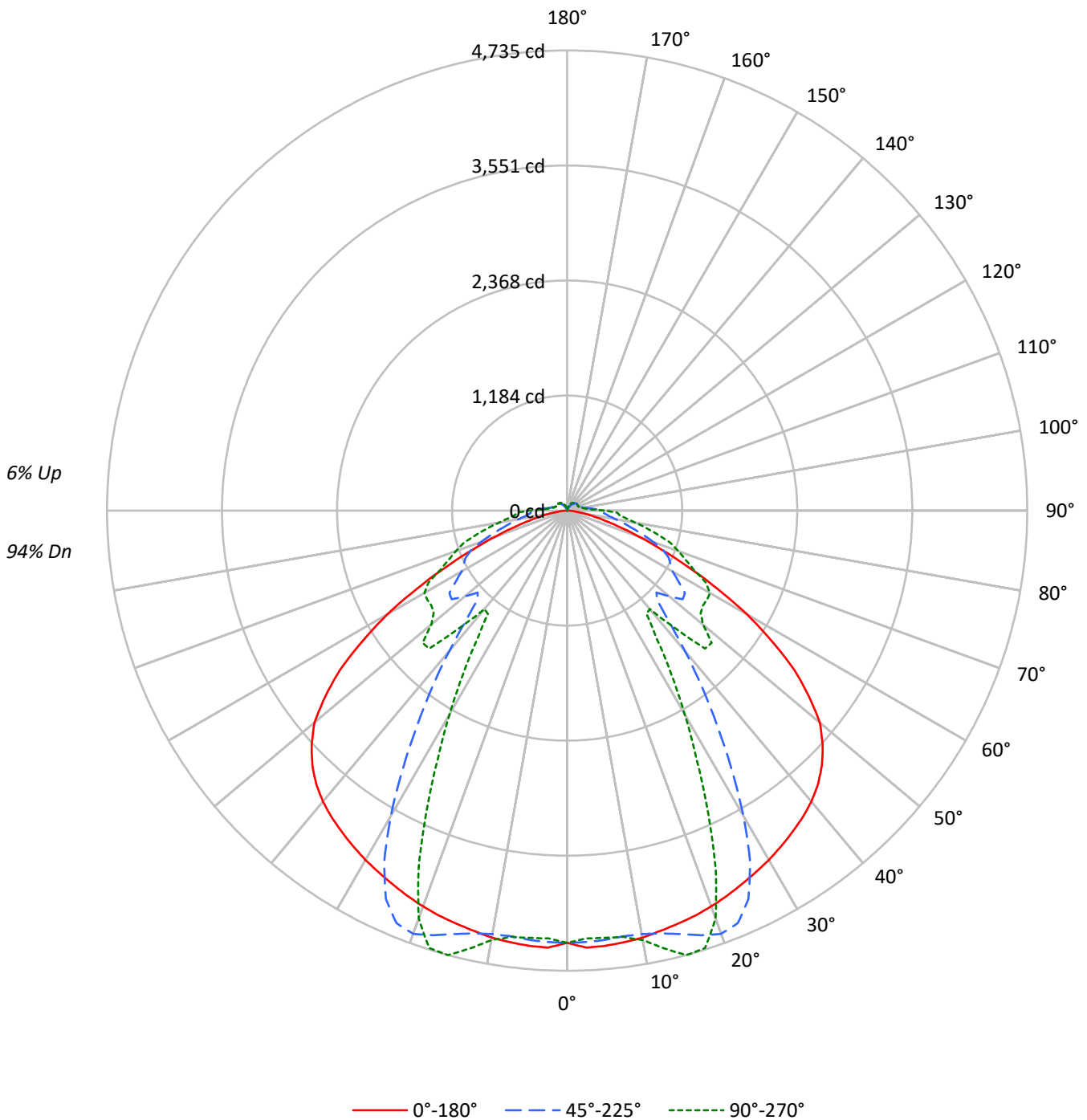
Lumens per Lamp: N/A
Luminaire Lumens: 11421.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 92
Input Voltage (V): NR
Input Current (A_{in}): 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17965	17965	17965
5°	18208	17560	17328
10°	18256	17309	17268
15°	18332	17568	17998
20°	18530	18108	16894
25°	18790	17418	13008
30°	19193	14602	9253
35°	19705	11070	6265
40°	20350	8056	5305
45°	20862	5850	8340
50°	20951	6486	7915
55°	19651	7475	7816
60°	16817	6851	8308
65°	12726	6922	7600
70°	9006	6316	7074
75°	5980	5308	6347
80°	3911	4566	5284
85°	2246	4365	4742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.0	3.7
10°-20°	1277.4	11.2
20°-30°	1855.6	16.2
30°-40°	1773.0	15.5
40°-50°	1621.8	14.2
50°-60°	1497.4	13.1
60°-70°	1189.4	10.4
70°-80°	734.1	6.4
80°-90°	399.8	3.5
90°-100°	202.1	1.8
100°-110°	127.0	1.1
110°-120°	107.5	0.9
120°-130°	87.8	0.8
130°-140°	63.0	0.6
140°-150°	38.9	0.3
150°-160°	18.4	0.2
160°-170°	4.8	0.0
170°-180°	0.0	0.0
0°-30°	3556.0	31.1
0°-40°	5328.9	46.7
0°-60°	8448.1	74.0
0°-90°	10771.5	94.3
90°-120°	436.6	3.8
90°-150°	626.3	5.5
90°-180°	650.0	5.7
0°-180°	11421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4446	4446	4446	4446	4446	
5°	4495	4426	4434	4411	4413	428
15°	4401	4342	4511	4678	4735	1245
25°	4245	4328	4411	3734	3428	1962
35°	4039	3974	2679	1844	1604	2532
45°	3708	2586	1307	1667	2008	2850
55°	2852	1326	1480	1592	1704	2512
65°	1376	860	1153	1401	1435	1391
75°	405	459	691	915	976	460
85°	57	195	392	533	541	73
90°	2	146	350	415	384	3
95°	0	136	242	214	203	0
105°	0	122	150	136	134	0
115°	0	100	144	128	122	1
125°	2	81	128	124	118	2
135°	2	57	102	112	108	2
145°	2	35	71	90	96	1
155°	4	22	43	57	69	1
165°	4	12	22	28	37	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4446.1	4446.1	4446.1	4446.1	4446.1
2.5°	4501.2	4436.2	4444.1	4430.3	4406.7
5°	4495.3	4426.4	4434.3	4410.7	4412.6
7.5°	4479.5	4408.7	4418.5	4414.6	4424.4
10°	4461.8	4387.0	4424.4	4457.9	4487.4
12.5°	4430.3	4363.4	4454.0	4552.4	4613.4
15°	4400.8	4341.8	4511.0	4678.3	4735.4
17.5°	4371.3	4333.9	4581.9	4727.5	4719.7
20°	4333.9	4330.0	4635.0	4585.8	4465.8
22.5°	4292.6	4331.9	4593.7	4233.5	3997.3
25°	4245.3	4328.0	4410.7	3733.6	3428.5
27.5°	4198.1	4310.3	4078.0	3186.5	2885.3
30°	4150.9	4263.0	3629.3	2686.5	2413.0
32.5°	4095.8	4160.7	3141.2	2243.7	1991.8
35°	4038.7	3973.7	2678.7	1844.2	1604.1
37.5°	3979.6	3704.1	2263.4	1493.8	1340.3
40°	3908.8	3365.6	1881.6	1281.3	1322.6
42.5°	3820.2	2983.7	1545.0	1344.3	1631.6
45°	3708.0	2586.2	1306.9	1667.0	2007.5
47.5°	3566.3	2204.3	1247.8	1909.1	2015.4
50°	3395.1	1854.0	1371.8	1830.4	1822.5
52.5°	3135.3	1562.7	1497.8	1669.0	1732.0
55°	2851.9	1326.5	1480.1	1592.2	1704.4
57.5°	2493.7	1167.1	1358.0	1576.5	1706.4
60°	2137.4	1060.8	1253.7	1574.5	1696.6
62.5°	1743.8	964.4	1200.6	1537.1	1610.0
65°	1375.7	860.1	1153.3	1401.3	1434.8
67.5°	1054.9	753.8	1070.7	1249.8	1316.7
70°	795.1	649.5	940.8	1133.7	1216.3
72.5°	572.7	551.1	806.9	1031.3	1117.9
75°	405.4	458.6	690.8	915.2	976.2
77.5°	279.5	374.0	592.4	787.3	836.5
80°	183.0	299.2	503.9	677.0	710.5
82.5°	110.2	240.1	436.9	592.4	610.1
85°	57.1	194.8	391.7	533.4	541.2
87.5°	17.7	163.4	366.1	505.8	515.7
90°	2.0	145.6	350.3	415.3	383.8
92.5°	0.0	137.8	303.1	283.4	253.9
95°	0.0	135.8	242.1	214.5	202.7
97.5°	0.0	131.9	198.8	179.1	173.2
100°	0.0	127.9	171.2	157.5	155.5
102.5°	0.0	126.0	155.5	143.7	141.7
105°	0.0	122.0	149.6	135.8	133.8
107.5°	0.0	116.1	145.6	131.9	127.9
110°	0.0	110.2	145.6	129.9	124.0



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CATALOG NUMBER: 8SNLED-LD5-112SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	104.3	145.6	127.9	122.0
115°	0.0	100.4	143.7	127.9	122.0
117.5°	2.0	96.4	141.7	127.9	122.0
120°	0.0	92.5	137.8	127.9	120.1
122.5°	2.0	86.6	133.8	126.0	120.1
125°	2.0	80.7	127.9	124.0	118.1
127.5°	2.0	74.8	122.0	120.1	114.2
130°	2.0	68.9	116.1	118.1	112.2
132.5°	2.0	63.0	108.2	114.2	110.2
135°	2.0	57.1	102.3	112.2	108.2
137.5°	2.0	51.2	94.5	106.3	106.3
140°	2.0	45.3	86.6	102.3	104.3
142.5°	2.0	41.3	78.7	98.4	100.4
145°	2.0	35.4	70.9	90.5	96.4
147.5°	2.0	31.5	63.0	82.7	90.5
150°	2.0	27.6	55.1	74.8	82.7
152.5°	2.0	23.6	49.2	64.9	76.8
155°	3.9	21.6	43.3	57.1	68.9
157.5°	3.9	17.7	35.4	49.2	59.0
160°	3.9	15.7	31.5	41.3	53.1
162.5°	3.9	13.8	25.6	35.4	45.3
165°	3.9	11.8	21.6	27.6	37.4
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)