

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-LD5-127SL-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-LD5-127SL-SLC-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

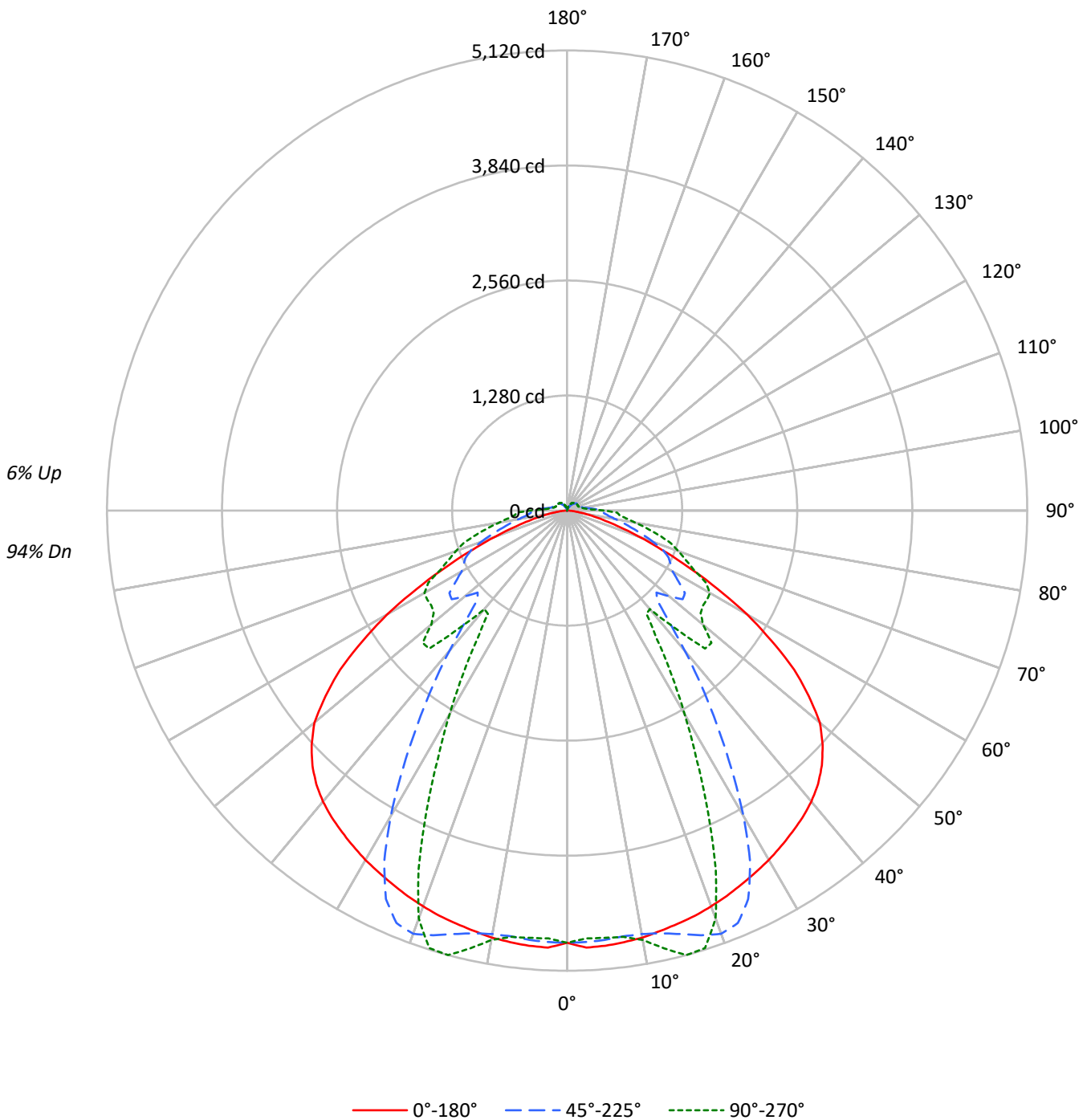
Lumens per Lamp: N/A
Luminaire Lumens: 12349.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 103
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: P#
CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L830-CD1-U

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°	19424	19424	19424
5°	19687	18987	18736
10°	19739	18715	18671
15°	19822	18996	19461
20°	20035	19579	18266
25°	20316	18833	14065
30°	20752	15788	10004
35°	21306	11969	6774
40°	22004	8710	5736
45°	22557	6325	9018
50°	22653	7013	8558
55°	21248	8082	8451
60°	18184	7407	8983
65°	13760	7485	8217
70°	9738	6829	7649
75°	6467	5739	6863
80°	4230	4936	5713
85°	2427	4719	5128



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.3	3.7
10°-20°	1381.2	11.2
20°-30°	2006.4	16.2
30°-40°	1917.0	15.5
40°-50°	1753.5	14.2
50°-60°	1619.1	13.1
60°-70°	1286.1	10.4
70°-80°	793.8	6.4
80°-90°	432.2	3.5
90°-100°	218.5	1.8
100°-110°	137.3	1.1
110°-120°	116.3	0.9
120°-130°	95.0	0.8
130°-140°	68.1	0.6
140°-150°	42.0	0.3
150°-160°	19.9	0.2
160°-170°	5.2	0.0
170°-180°	0.0	0.0
0°-30°	3844.9	31.1
0°-40°	5761.9	46.7
0°-60°	9134.6	74.0
0°-90°	11646.7	94.3
90°-120°	472.0	3.8
90°-150°	677.1	5.5
90°-180°	702.0	5.7
0°-180°	12349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4807	4807	4807	4807	4807	
5°	4860	4786	4795	4769	4771	463
15°	4758	4695	4878	5058	5120	1347
25°	4590	4680	4769	4037	3707	2122
35°	4367	4297	2896	1994	1734	2738
45°	4009	2796	1413	1802	2171	3081
55°	3084	1434	1600	1722	1843	2716
65°	1488	930	1247	1515	1551	1504
75°	438	496	747	990	1056	497
85°	62	211	424	577	585	79
90°	2	158	379	449	415	3
95°	0	147	262	232	219	0
105°	0	132	162	147	145	0
115°	0	108	155	138	132	1
125°	2	87	138	134	128	2
135°	2	62	111	121	117	2
145°	2	38	77	98	104	1
155°	4	23	47	62	74	2
165°	4	13	23	30	40	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4807.3	4807.3	4807.3	4807.3	4807.3
2.5°	4866.9	4796.7	4805.2	4790.3	4764.8
5°	4860.5	4786.1	4794.6	4769.0	4771.2
7.5°	4843.5	4766.9	4777.6	4773.3	4783.9
10°	4824.4	4743.5	4783.9	4820.1	4852.0
12.5°	4790.3	4718.0	4815.9	4922.3	4988.2
15°	4758.4	4694.6	4877.6	5058.5	5120.2
17.5°	4726.5	4686.0	4954.2	5111.7	5103.2
20°	4686.0	4681.8	5011.6	4958.4	4828.6
22.5°	4641.4	4683.9	4967.0	4577.5	4322.1
25°	4590.3	4679.7	4769.0	4037.0	3707.1
27.5°	4539.2	4660.5	4409.4	3445.4	3119.8
30°	4488.1	4609.4	3924.2	2904.8	2609.0
32.5°	4428.5	4498.8	3396.4	2426.0	2153.6
35°	4366.8	4296.6	2896.3	1994.0	1734.4
37.5°	4303.0	4005.1	2447.3	1615.2	1449.2
40°	4226.4	3639.0	2034.5	1385.4	1430.1
42.5°	4130.6	3226.2	1670.5	1453.5	1764.2
45°	4009.3	2796.3	1413.0	1802.5	2170.6
47.5°	3856.1	2383.5	1349.2	2064.2	2179.2
50°	3670.9	2004.7	1483.3	1979.1	1970.6
52.5°	3390.0	1689.7	1619.5	1804.6	1872.7
55°	3083.6	1434.3	1600.3	1721.6	1842.9
57.5°	2696.3	1262.0	1468.4	1704.6	1845.1
60°	2311.1	1147.0	1355.6	1702.5	1834.4
62.5°	1885.5	1042.8	1298.1	1662.0	1740.8
65°	1487.5	930.0	1247.1	1515.2	1551.4
67.5°	1140.7	815.1	1157.7	1351.3	1423.7
70°	859.7	702.3	1017.2	1225.8	1315.2
72.5°	619.3	595.9	872.5	1115.1	1208.8
75°	438.4	495.8	747.0	989.6	1055.5
77.5°	302.2	404.3	640.6	851.2	904.4
80°	197.9	323.5	544.8	732.1	768.2
82.5°	119.2	259.6	472.4	640.6	659.7
85°	61.7	210.7	423.5	576.7	585.2
87.5°	19.2	176.6	395.8	546.9	557.6
90°	2.1	157.5	378.8	449.0	415.0
92.5°	0.0	149.0	327.7	306.4	274.5
95°	0.0	146.8	261.8	232.0	219.2
97.5°	0.0	142.6	214.9	193.7	187.3
100°	0.0	138.3	185.1	170.2	168.1
102.5°	0.0	136.2	168.1	155.4	153.2
105°	0.0	131.9	161.7	146.8	144.7
107.5°	0.0	125.6	157.5	142.6	138.3
110°	0.0	119.2	157.5	140.5	134.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-127SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	112.8	157.5	138.3	131.9
115°	0.0	108.5	155.4	138.3	131.9
117.5°	2.1	104.3	153.2	138.3	131.9
120°	0.0	100.0	149.0	138.3	129.8
122.5°	2.1	93.6	144.7	136.2	129.8
125°	2.1	87.3	138.3	134.1	127.7
127.5°	2.1	80.9	131.9	129.8	123.4
130°	2.1	74.5	125.6	127.7	121.3
132.5°	2.1	68.1	117.0	123.4	119.2
135°	2.1	61.7	110.7	121.3	117.0
137.5°	2.1	55.3	102.1	114.9	114.9
140°	2.1	48.9	93.6	110.7	112.8
142.5°	2.1	44.7	85.1	106.4	108.5
145°	2.1	38.3	76.6	97.9	104.3
147.5°	2.1	34.0	68.1	89.4	97.9
150°	2.1	29.8	59.6	80.9	89.4
152.5°	2.1	25.5	53.2	70.2	83.0
155°	4.3	23.4	46.8	61.7	74.5
157.5°	4.3	19.2	38.3	53.2	63.8
160°	4.3	17.0	34.0	44.7	57.5
162.5°	4.3	14.9	27.7	38.3	48.9
165°	4.3	12.8	23.4	29.8	40.4
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)