

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-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 (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-L840-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

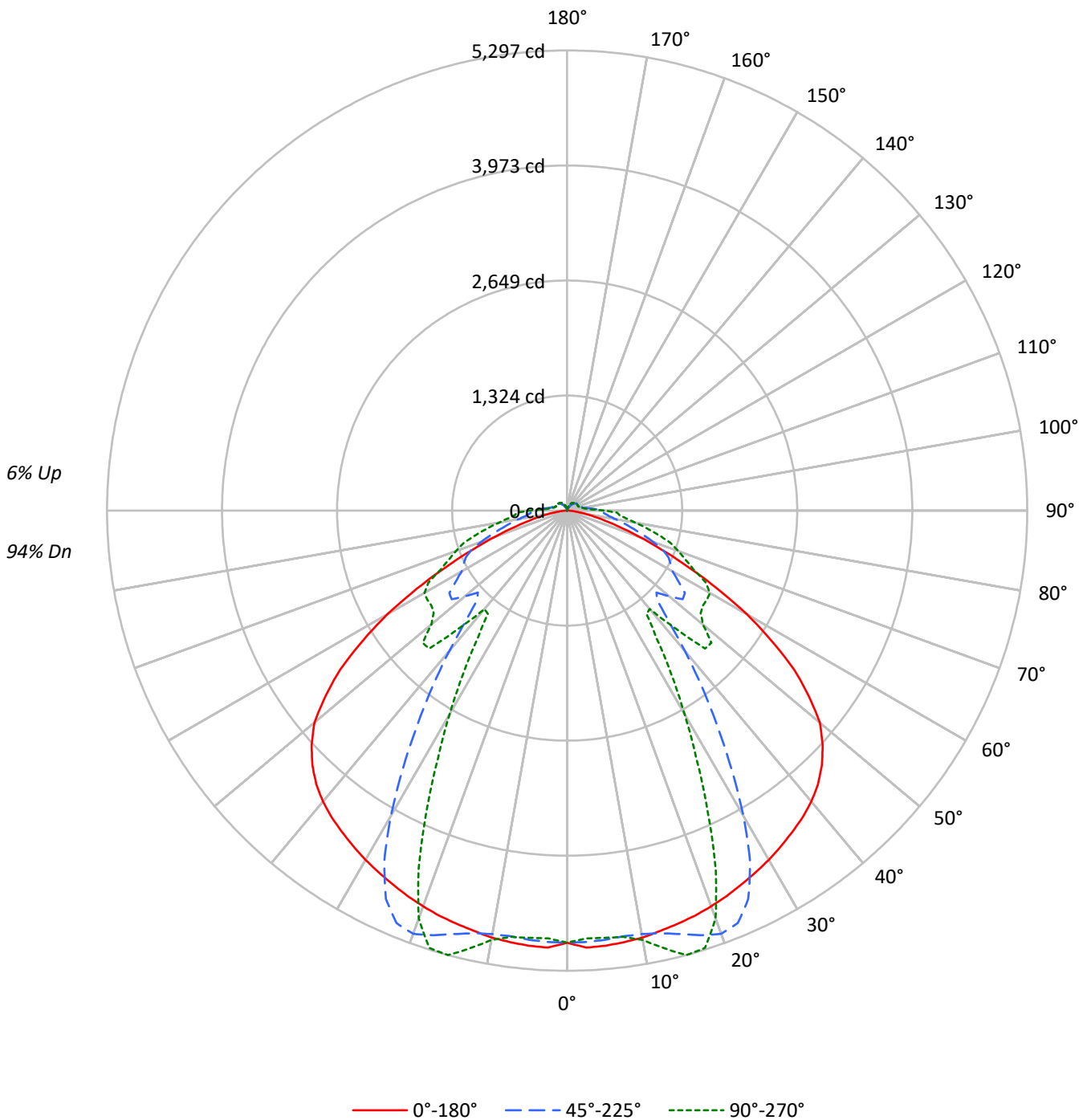
Lumens per Lamp: N/A  
Luminaire Lumens: 12775.0 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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



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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°	20094	20094	20094
5°	20366	19642	19383
10°	20420	19361	19315
15°	20506	19651	20132
20°	20726	20254	18897
25°	21017	19483	14550
30°	21469	16333	10349
35°	22042	12382	7008
40°	22763	9010	5934
45°	23335	6544	9329
50°	23435	7255	8854
55°	21981	8361	8743
60°	18811	7663	9293
65°	14235	7743	8501
70°	10075	7065	7912
75°	6690	5937	7100
80°	4375	5107	5910
85°	2510	4882	5305



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.1	3.7
10°-20°	1428.8	11.2
20°-30°	2075.6	16.2
30°-40°	1983.1	15.5
40°-50°	1814.0	14.2
50°-60°	1675.0	13.1
60°-70°	1330.5	10.4
70°-80°	821.2	6.4
80°-90°	447.2	3.5
90°-100°	226.0	1.8
100°-110°	142.0	1.1
110°-120°	120.3	0.9
120°-130°	98.3	0.8
130°-140°	70.5	0.6
140°-150°	43.5	0.3
150°-160°	20.6	0.2
160°-170°	5.3	0.0
170°-180°	0.0	0.0
0°-30°	3977.6	31.1
0°-40°	5960.7	46.7
0°-60°	9449.7	74.0
0°-90°	12048.5	94.3
90°-120°	488.3	3.8
90°-150°	700.5	5.5
90°-180°	727.0	5.7
0°-180°	12775.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4973	4973	4973	4973	4973	
5°	5028	4951	4960	4934	4936	478
15°	4923	4856	5046	5233	5297	1393
25°	4749	4841	4934	4176	3835	2195
35°	4518	4445	2996	2063	1794	2833
45°	4148	2893	1462	1865	2246	3188
55°	3190	1484	1656	1781	1906	2810
65°	1539	962	1290	1568	1605	1556
75°	454	513	773	1024	1092	514
85°	64	218	438	597	605	81
90°	2	163	392	464	429	3
95°	0	152	271	240	227	0
105°	0	136	167	152	150	0
115°	0	112	161	143	136	1
125°	2	90	143	139	132	2
135°	2	64	114	126	121	2
145°	2	40	79	101	108	1
155°	4	24	48	64	77	2
165°	4	13	24	31	42	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-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4973.2	4973.2	4973.2	4973.2	4973.2
2.5°	5034.8	4962.2	4971.0	4955.6	4929.2
5°	5028.2	4951.2	4960.0	4933.6	4935.8
7.5°	5010.6	4931.4	4942.4	4938.0	4949.0
10°	4990.8	4907.1	4949.0	4986.4	5019.4
12.5°	4955.6	4880.7	4982.0	5092.1	5160.3
15°	4922.6	4856.5	5045.8	5233.0	5296.8
17.5°	4889.5	4847.7	5125.1	5288.0	5279.2
20°	4847.7	4843.3	5184.5	5129.5	4995.2
22.5°	4801.5	4845.5	5138.3	4735.4	4471.2
25°	4748.6	4841.1	4933.6	4176.2	3835.0
27.5°	4695.8	4821.3	4561.5	3564.2	3227.4
30°	4643.0	4768.4	4059.6	3005.0	2699.0
32.5°	4581.3	4654.0	3513.6	2509.7	2227.9
35°	4517.5	4444.8	2996.2	2062.8	1794.2
37.5°	4451.4	4143.2	2531.7	1670.9	1499.2
40°	4372.2	3764.6	2104.6	1433.2	1479.4
42.5°	4273.1	3337.5	1728.2	1503.6	1825.0
45°	4147.6	2892.8	1461.8	1864.7	2245.5
47.5°	3989.1	2465.7	1395.8	2135.5	2254.3
50°	3797.6	2073.8	1534.4	2047.4	2038.6
52.5°	3507.0	1748.0	1675.3	1866.9	1937.3
55°	3190.0	1483.8	1655.5	1781.0	1906.5
57.5°	2789.3	1305.5	1519.0	1763.4	1908.7
60°	2390.8	1186.6	1402.4	1761.2	1897.7
62.5°	1950.5	1078.7	1342.9	1719.4	1800.8
65°	1538.8	962.1	1290.1	1567.5	1604.9
67.5°	1180.0	843.2	1197.6	1398.0	1472.8
70°	889.4	726.5	1052.3	1268.1	1360.5
72.5°	640.6	616.4	902.6	1153.6	1250.5
75°	453.5	512.9	772.7	1023.7	1091.9
77.5°	312.6	418.3	662.7	880.6	935.6
80°	204.7	334.6	563.6	757.3	794.7
82.5°	123.3	268.6	488.7	662.7	682.5
85°	63.8	217.9	438.1	596.6	605.4
87.5°	19.8	182.7	409.5	565.8	576.8
90°	2.2	162.9	391.9	464.5	429.3
92.5°	0.0	154.1	339.0	317.0	284.0
95°	0.0	151.9	270.8	240.0	226.8
97.5°	0.0	147.5	222.4	200.3	193.7
100°	0.0	143.1	191.5	176.1	173.9
102.5°	0.0	140.9	173.9	160.7	158.5
105°	0.0	136.5	167.3	151.9	149.7
107.5°	0.0	129.9	162.9	147.5	143.1
110°	0.0	123.3	162.9	145.3	138.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	116.7	162.9	143.1	136.5
115°	0.0	112.3	160.7	143.1	136.5
117.5°	2.2	107.9	158.5	143.1	136.5
120°	0.0	103.5	154.1	143.1	134.3
122.5°	2.2	96.9	149.7	140.9	134.3
125°	2.2	90.3	143.1	138.7	132.1
127.5°	2.2	83.7	136.5	134.3	127.7
130°	2.2	77.1	129.9	132.1	125.5
132.5°	2.2	70.4	121.1	127.7	123.3
135°	2.2	63.8	114.5	125.5	121.1
137.5°	2.2	57.2	105.7	118.9	118.9
140°	2.2	50.6	96.9	114.5	116.7
142.5°	2.2	46.2	88.1	110.1	112.3
145°	2.2	39.6	79.3	101.3	107.9
147.5°	2.2	35.2	70.4	92.5	101.3
150°	2.2	30.8	61.6	83.7	92.5
152.5°	2.2	26.4	55.0	72.6	85.9
155°	4.4	24.2	48.4	63.8	77.1
157.5°	4.4	19.8	39.6	55.0	66.0
160°	4.4	17.6	35.2	46.2	59.4
162.5°	4.4	15.4	28.6	39.6	50.6
165°	4.4	13.2	24.2	30.8	41.8
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)