

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-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: 8SNLED-LD5-106SL-SLN-UNV-L840-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

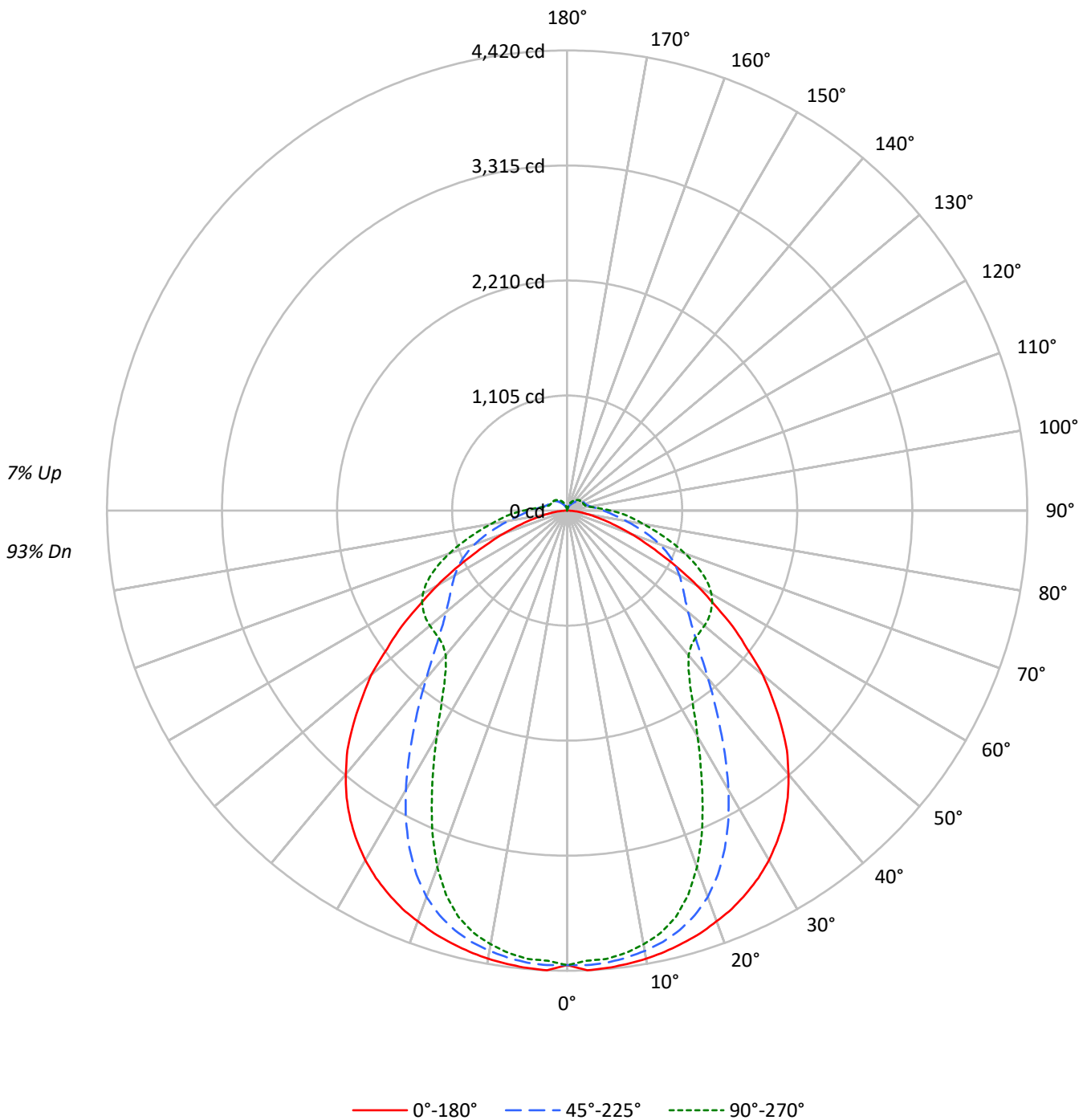
Lumens per Lamp: N/A  
Luminaire Lumens: 10977.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: 8SNLED-LD5-106SL-SLN-UNV-L840-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-SLN-UNV-L840-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	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°	17636	17636	17636
5°	17864	17263	16977
10°	17883	16801	16278
15°	17914	16253	15350
20°	17949	15429	13786
25°	17984	14151	11674
30°	17929	12463	9602
35°	17706	10614	8047
40°	17224	8998	7274
45°	16350	7829	7219
50°	15148	7166	7472
55°	13385	6898	7734
60°	11343	6810	7840
65°	9178	6672	7596
70°	7434	6342	7006
75°	5681	5757	6217
80°	4298	5191	5530
85°	3060	4926	5087



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-SLN-UNV-L840-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.0	3.8
10°-20°	1167.2	10.6
20°-30°	1631.6	14.9
30°-40°	1692.4	15.4
40°-50°	1563.5	14.2
50°-60°	1395.9	12.7
60°-70°	1131.3	10.3
70°-80°	752.5	6.9
80°-90°	430.9	3.9
90°-100°	238.4	2.2
100°-110°	161.4	1.5
110°-120°	134.4	1.2
120°-130°	109.3	1.0
130°-140°	78.8	0.7
140°-150°	47.5	0.4
150°-160°	22.8	0.2
160°-170°	5.9	0.1
170°-180°	0.0	0.0
0°-30°	3211.8	29.3
0°-40°	4904.3	44.7
0°-60°	7863.7	71.6
0°-90°	10178.4	92.7
90°-120°	534.2	4.9
90°-150°	769.8	7.0
90°-180°	799.0	7.3
0°-180°	10977.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4365	4365	4365	4365	4365	
5°	4410	4336	4359	4329	4323	420
15°	4300	4209	4173	4078	4039	1215
25°	4063	3883	3583	3208	3077	1872
35°	3629	3230	2568	2157	2060	2264
45°	2906	2303	1749	1686	1738	2234
55°	1942	1468	1366	1588	1686	1727
65°	992	888	1112	1362	1434	1003
75°	385	482	749	918	956	422
85°	78	224	442	565	580	89
90°	4	157	349	421	417	6
95°	4	133	277	296	286	3
105°	2	116	199	194	184	2
115°	2	104	176	174	169	2
125°	2	89	156	163	159	2
135°	4	66	123	144	144	3
145°	4	42	85	112	120	2
155°	4	27	53	70	85	2
165°	4	15	27	34	46	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-SLN-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4364.9	4364.9	4364.9	4364.9	4364.9
2.5°	4419.9	4347.8	4370.6	4351.6	4327.0
5°	4410.4	4336.4	4359.2	4328.9	4323.2
7.5°	4393.3	4319.4	4332.6	4296.6	4287.1
10°	4370.6	4292.8	4294.7	4243.5	4230.2
12.5°	4340.2	4254.9	4243.5	4173.3	4154.3
15°	4300.4	4209.3	4173.3	4078.5	4038.6
17.5°	4256.8	4150.5	4076.6	3930.5	3867.9
20°	4198.0	4078.5	3949.5	3727.5	3644.1
22.5°	4139.2	3991.2	3784.4	3488.5	3376.6
25°	4063.3	3883.1	3583.3	3207.8	3076.9
27.5°	3977.9	3756.0	3351.9	2919.4	2779.0
30°	3877.4	3602.3	3097.7	2636.8	2504.0
32.5°	3759.8	3429.7	2830.3	2382.6	2259.3
35°	3628.9	3230.5	2568.5	2156.8	2060.1
37.5°	3479.0	3012.4	2325.7	1974.7	1912.1
40°	3308.3	2775.2	2101.8	1834.4	1813.5
42.5°	3124.3	2543.8	1910.2	1743.3	1762.3
45°	2906.1	2302.9	1749.0	1686.4	1737.6
47.5°	2676.6	2067.7	1618.1	1654.1	1728.1
50°	2454.7	1849.5	1515.7	1633.3	1720.5
52.5°	2179.6	1654.1	1434.1	1614.3	1709.2
55°	1942.5	1468.2	1365.8	1587.8	1686.4
57.5°	1669.3	1301.3	1305.1	1553.6	1652.2
60°	1441.7	1149.6	1246.3	1506.2	1601.0
62.5°	1210.3	1013.0	1181.8	1443.6	1528.9
65°	992.1	887.8	1111.6	1362.0	1434.1
67.5°	810.0	774.0	1031.9	1263.4	1324.1
70°	656.3	669.6	944.7	1153.3	1204.6
72.5°	504.6	572.9	849.8	1035.7	1079.4
75°	385.1	481.8	749.3	918.1	956.1
77.5°	284.5	402.2	658.2	811.9	844.1
80°	201.1	332.0	572.9	718.9	743.6
82.5°	134.7	273.2	502.7	635.5	658.2
85°	77.8	223.8	442.0	565.3	580.5
87.5°	32.2	185.9	392.7	493.2	500.8
90°	3.8	157.4	349.0	421.1	417.3
92.5°	3.8	142.3	311.1	352.8	343.3
95°	3.8	132.8	277.0	295.9	286.4
97.5°	3.8	127.1	246.6	254.2	244.7
100°	1.9	123.3	225.7	225.7	216.3
102.5°	1.9	119.5	210.6	204.9	197.3
105°	1.9	115.7	199.2	193.5	184.0
107.5°	1.9	113.8	191.6	185.9	176.4
110°	1.9	110.0	185.9	180.2	172.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-SLN-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	108.1	182.1	178.3	168.8
115°	1.9	104.3	176.4	174.5	168.8
117.5°	1.9	100.5	172.6	172.6	166.9
120°	1.9	96.7	166.9	170.7	165.0
122.5°	1.9	93.0	161.2	166.9	161.2
125°	1.9	89.2	155.6	163.1	159.3
127.5°	3.8	83.5	148.0	159.3	155.6
130°	1.9	77.8	140.4	155.6	153.7
132.5°	3.8	72.1	132.8	149.9	149.9
135°	3.8	66.4	123.3	144.2	144.2
137.5°	3.8	58.8	113.8	136.6	138.5
140°	3.8	53.1	104.3	129.0	132.8
142.5°	3.8	47.4	94.8	121.4	127.1
145°	3.8	41.7	85.4	111.9	119.5
147.5°	3.8	37.9	75.9	100.5	111.9
150°	3.8	32.2	68.3	91.1	102.4
152.5°	3.8	28.5	60.7	81.6	94.8
155°	3.8	26.6	53.1	70.2	85.4
157.5°	3.8	22.8	45.5	60.7	75.9
160°	3.8	19.0	37.9	53.1	64.5
162.5°	3.8	17.1	32.2	43.6	56.9
165°	3.8	15.2	26.6	34.1	45.5
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)