

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-LD5-98SL-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-LD5-98SL-SLN-UNV-L830-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

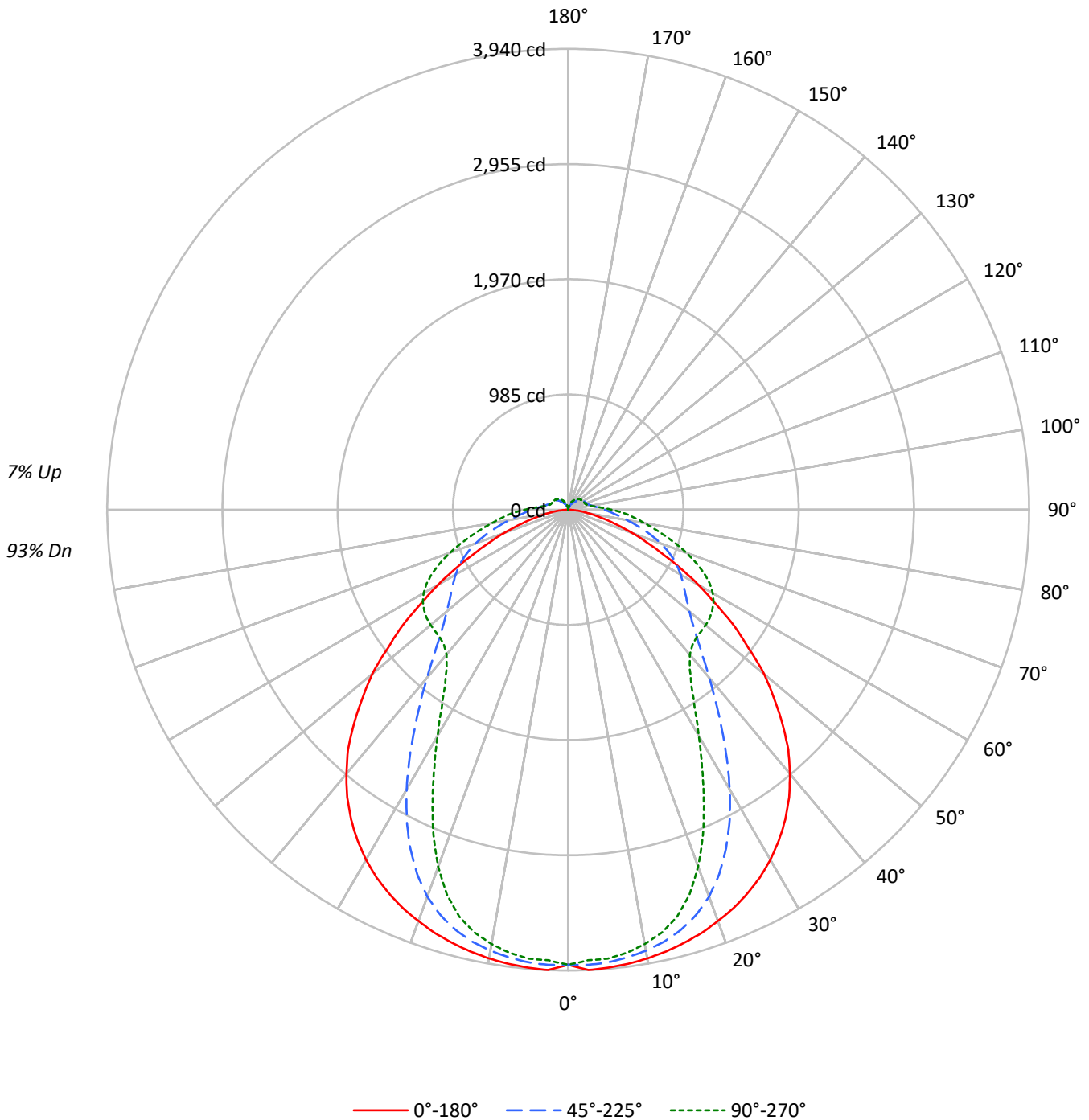
Lumens per Lamp: N/A  
Luminaire Lumens: 9784.0 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 75  
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-LD5-98SL-SLN-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLN-UNV-L830-CD1-U

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	79	79	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	66	66	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	57	57	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	49	49	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	43	43	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	39	39	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	35	35	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	31	31	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	28	28	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	26	26	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15720	15720	15720
5°	15923	15387	15132
10°	15939	14976	14509
15°	15967	14486	13682
20°	15998	13752	12287
25°	16030	12613	10405
30°	15980	11109	8558
35°	15782	9461	7172
40°	15352	8021	6484
45°	14574	6978	6435
50°	13502	6387	6660
55°	11930	6148	6893
60°	10110	6070	6988
65°	8180	5947	6770
70°	6627	5653	6244
75°	5063	5132	5541
80°	3830	4627	4929
85°	2726	4391	4534



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLN-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.1	3.8
10°-20°	1040.4	10.6
20°-30°	1454.3	14.9
30°-40°	1508.5	15.4
40°-50°	1393.6	14.2
50°-60°	1244.2	12.7
60°-70°	1008.4	10.3
70°-80°	670.7	6.9
80°-90°	384.1	3.9
90°-100°	212.5	2.2
100°-110°	143.9	1.5
110°-120°	119.8	1.2
120°-130°	97.4	1.0
130°-140°	70.2	0.7
140°-150°	42.4	0.4
150°-160°	20.4	0.2
160°-170°	5.3	0.1
170°-180°	0.0	0.0
0°-30°	2862.7	29.3
0°-40°	4371.2	44.7
0°-60°	7009.1	71.6
0°-90°	9072.2	92.7
90°-120°	476.2	4.9
90°-150°	686.2	7.0
90°-180°	712.0	7.3
0°-180°	9784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3890	3890	3890	3890	3890	
5°	3931	3865	3885	3858	3853	374
15°	3833	3752	3720	3635	3600	1083
25°	3622	3461	3194	2859	2742	1669
35°	3234	2879	2289	1922	1836	2018
45°	2590	2053	1559	1503	1549	1992
55°	1731	1309	1217	1415	1503	1539
65°	884	791	991	1214	1278	894
75°	343	430	668	818	852	376
85°	69	200	394	504	517	80
90°	3	140	311	375	372	5
95°	3	118	247	264	255	3
105°	2	103	178	172	164	2
115°	2	93	157	156	150	2
125°	2	80	139	145	142	2
135°	3	59	110	128	128	2
145°	3	37	76	100	106	2
155°	3	24	47	63	76	2
165°	3	14	24	30	41	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3890.5	3890.5	3890.5	3890.5	3890.5
2.5°	3939.5	3875.3	3895.6	3878.7	3856.7
5°	3931.1	3865.1	3885.4	3858.4	3853.3
7.5°	3915.9	3849.9	3861.8	3829.6	3821.2
10°	3895.6	3826.3	3828.0	3782.3	3770.5
12.5°	3868.5	3792.4	3782.3	3719.7	3702.8
15°	3833.0	3751.9	3719.7	3635.2	3599.7
17.5°	3794.1	3699.5	3633.5	3503.3	3447.5
20°	3741.7	3635.2	3520.2	3322.4	3248.0
22.5°	3689.3	3557.4	3373.1	3109.4	3009.6
25°	3621.7	3461.0	3193.9	2859.1	2742.5
27.5°	3545.6	3347.8	2987.6	2602.1	2477.0
30°	3456.0	3210.8	2761.1	2350.2	2231.8
32.5°	3351.1	3056.9	2522.7	2123.6	2013.7
35°	3234.5	2879.4	2289.3	1922.4	1836.2
37.5°	3100.9	2685.0	2072.9	1760.1	1704.3
40°	2948.7	2473.6	1873.4	1635.0	1616.4
42.5°	2784.7	2267.4	1702.6	1553.8	1570.7
45°	2590.3	2052.6	1558.9	1503.1	1548.8
47.5°	2385.7	1843.0	1442.2	1474.4	1540.3
50°	2187.9	1648.5	1350.9	1455.8	1533.5
52.5°	1942.7	1474.4	1278.2	1438.9	1523.4
55°	1731.4	1308.7	1217.4	1415.2	1503.1
57.5°	1487.9	1159.9	1163.3	1384.8	1472.7
60°	1285.0	1024.6	1110.8	1342.5	1427.0
62.5°	1078.7	902.9	1053.4	1286.7	1362.8
65°	884.3	791.3	990.8	1214.0	1278.2
67.5°	722.0	689.8	919.8	1126.1	1180.2
70°	585.0	596.8	842.0	1028.0	1073.7
72.5°	449.8	510.6	757.5	923.2	962.1
75°	343.2	429.5	667.9	818.3	852.2
77.5°	253.6	358.4	586.7	723.7	752.4
80°	179.2	295.9	510.6	640.8	662.8
82.5°	120.0	243.5	448.1	566.4	586.7
85°	69.3	199.5	394.0	503.9	517.4
87.5°	28.7	165.7	350.0	439.6	446.4
90°	3.4	140.3	311.1	375.4	372.0
92.5°	3.4	126.8	277.3	314.5	306.0
95°	3.4	118.4	246.9	263.8	255.3
97.5°	3.4	113.3	219.8	226.6	218.1
100°	1.7	109.9	201.2	201.2	192.8
102.5°	1.7	106.5	187.7	182.6	175.8
105°	1.7	103.1	177.5	172.5	164.0
107.5°	1.7	101.4	170.8	165.7	157.2
110°	1.7	98.1	165.7	160.6	153.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLN-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	96.4	162.3	158.9	150.5
115°	1.7	93.0	157.2	155.6	150.5
117.5°	1.7	89.6	153.9	153.9	148.8
120°	1.7	86.2	148.8	152.2	147.1
122.5°	1.7	82.8	143.7	148.8	143.7
125°	1.7	79.5	138.6	145.4	142.0
127.5°	3.4	74.4	131.9	142.0	138.6
130°	1.7	69.3	125.1	138.6	137.0
132.5°	3.4	64.3	118.4	133.6	133.6
135°	3.4	59.2	109.9	128.5	128.5
137.5°	3.4	52.4	101.4	121.7	123.4
140°	3.4	47.3	93.0	115.0	118.4
142.5°	3.4	42.3	84.5	108.2	113.3
145°	3.4	37.2	76.1	99.8	106.5
147.5°	3.4	33.8	67.6	89.6	99.8
150°	3.4	28.7	60.9	81.2	91.3
152.5°	3.4	25.4	54.1	72.7	84.5
155°	3.4	23.7	47.3	62.6	76.1
157.5°	3.4	20.3	40.6	54.1	67.6
160°	3.4	16.9	33.8	47.3	57.5
162.5°	3.4	15.2	28.7	38.9	50.7
165°	3.4	13.5	23.7	30.4	40.6
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)