

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-L940-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-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

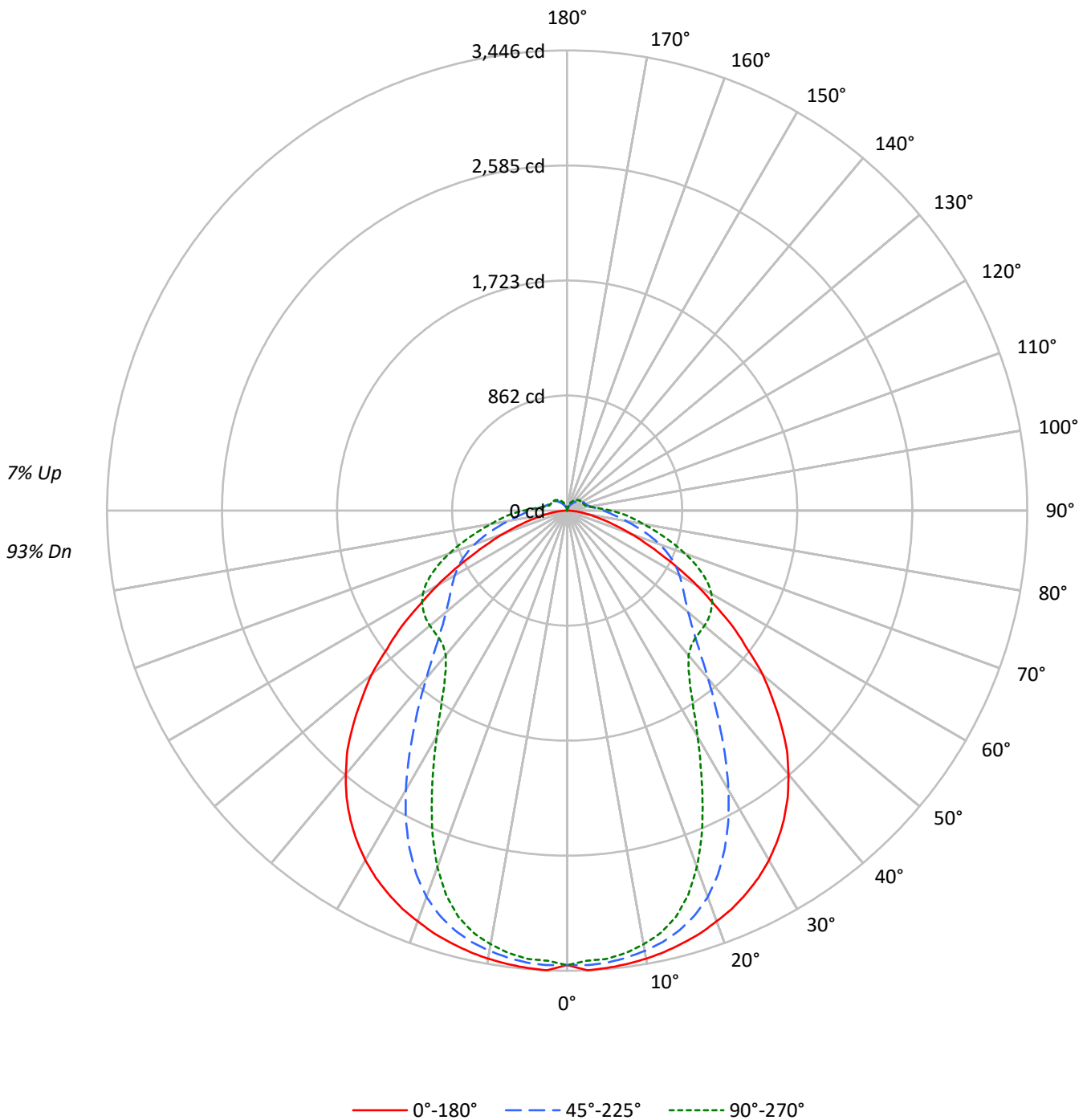
Lumens per Lamp: N/A  
Luminaire Lumens: 8558.0 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLN-UNV-L940-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°	13750	13750	13750
5°	13927	13459	13236
10°	13942	13099	12691
15°	13966	12671	11967
20°	13993	12029	10747
25°	14021	11033	9101
30°	13977	9717	7486
35°	13804	8275	6273
40°	13428	7015	5671
45°	12747	6104	5628
50°	11809	5587	5826
55°	10435	5378	6030
60°	8844	5310	6113
65°	7155	5201	5922
70°	5796	4945	5462
75°	4428	4489	4847
80°	3351	4047	4311
85°	2384	3840	3966



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLN-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.0	3.8
10°-20°	910.0	10.6
20°-30°	1272.1	14.9
30°-40°	1319.5	15.4
40°-50°	1219.0	14.2
50°-60°	1088.3	12.7
60°-70°	882.0	10.3
70°-80°	586.6	6.9
80°-90°	335.9	3.9
90°-100°	185.9	2.2
100°-110°	125.9	1.5
110°-120°	104.8	1.2
120°-130°	85.2	1.0
130°-140°	61.4	0.7
140°-150°	37.1	0.4
150°-160°	17.8	0.2
160°-170°	4.6	0.1
170°-180°	0.0	0.0
0°-30°	2504.0	29.3
0°-40°	3823.5	44.7
0°-60°	6130.8	71.6
0°-90°	7935.4	92.7
90°-120°	416.5	4.9
90°-150°	600.2	7.0
90°-180°	623.0	7.3
0°-180°	8558.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3403	3403	3403	3403	3403	
5°	3438	3381	3399	3375	3370	327
15°	3353	3282	3254	3180	3149	947
25°	3168	3027	2794	2501	2399	1460
35°	2829	2519	2002	1682	1606	1765
45°	2266	1795	1364	1315	1355	1742
55°	1514	1145	1065	1238	1315	1347
65°	774	692	867	1062	1118	782
75°	300	376	584	716	745	329
85°	61	174	345	441	453	70
90°	3	123	272	328	325	5
95°	3	104	216	231	223	2
105°	2	90	155	151	144	2
115°	2	81	138	136	132	1
125°	2	70	121	127	124	2
135°	3	52	96	112	112	2
145°	3	32	67	87	93	2
155°	3	21	41	55	67	1
165°	3	12	21	27	36	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3403.0	3403.0	3403.0	3403.0	3403.0
2.5°	3445.9	3389.7	3407.4	3392.7	3373.4
5°	3438.5	3380.8	3398.6	3374.9	3370.5
7.5°	3425.2	3367.5	3377.9	3349.8	3342.4
10°	3407.4	3346.8	3348.3	3308.4	3298.0
12.5°	3383.8	3317.2	3308.4	3253.6	3238.8
15°	3352.7	3281.7	3253.6	3179.7	3148.6
17.5°	3318.7	3235.9	3178.2	3064.3	3015.5
20°	3272.9	3179.7	3079.1	2906.1	2841.0
22.5°	3227.0	3111.7	2950.5	2719.7	2632.5
25°	3167.9	3027.4	2793.7	2500.9	2398.8
27.5°	3101.3	2928.3	2613.3	2276.1	2166.6
30°	3022.9	2808.5	2415.1	2055.7	1952.2
32.5°	2931.2	2673.9	2206.6	1857.5	1761.4
35°	2829.2	2518.6	2002.5	1681.5	1606.1
37.5°	2712.3	2348.5	1813.2	1539.6	1490.8
40°	2579.2	2163.7	1638.6	1430.1	1413.9
42.5°	2435.8	1983.2	1489.3	1359.1	1373.9
45°	2265.7	1795.4	1363.6	1314.8	1354.7
47.5°	2086.8	1612.0	1261.5	1289.6	1347.3
50°	1913.7	1442.0	1181.7	1273.4	1341.4
52.5°	1699.3	1289.6	1118.1	1258.6	1332.5
55°	1514.4	1144.7	1064.8	1237.9	1314.8
57.5°	1301.5	1014.5	1017.5	1211.2	1288.1
60°	1124.0	896.2	971.7	1174.3	1248.2
62.5°	943.6	789.7	921.4	1125.5	1192.0
65°	773.5	692.1	866.6	1061.9	1118.1
67.5°	631.5	603.4	804.5	985.0	1032.3
70°	511.7	522.1	736.5	899.2	939.1
72.5°	393.4	446.6	662.6	807.5	841.5
75°	300.2	375.6	584.2	715.8	745.4
77.5°	221.8	313.5	513.2	633.0	658.1
80°	156.8	258.8	446.6	560.5	579.7
82.5°	105.0	213.0	391.9	495.4	513.2
85°	60.6	174.5	344.6	440.7	452.6
87.5°	25.1	144.9	306.1	384.5	390.4
90°	3.0	122.8	272.1	328.3	325.4
92.5°	3.0	110.9	242.5	275.1	267.7
95°	3.0	103.5	215.9	230.7	223.3
97.5°	3.0	99.1	192.3	198.2	190.8
100°	1.5	96.1	176.0	176.0	168.6
102.5°	1.5	93.2	164.2	159.7	153.8
105°	1.5	90.2	155.3	150.9	143.5
107.5°	1.5	88.7	149.4	144.9	137.5
110°	1.5	85.8	144.9	140.5	134.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	84.3	142.0	139.0	131.6
115°	1.5	81.3	137.5	136.1	131.6
117.5°	1.5	78.4	134.6	134.6	130.1
120°	1.5	75.4	130.1	133.1	128.7
122.5°	1.5	72.5	125.7	130.1	125.7
125°	1.5	69.5	121.3	127.2	124.2
127.5°	3.0	65.1	115.4	124.2	121.3
130°	1.5	60.6	109.4	121.3	119.8
132.5°	3.0	56.2	103.5	116.8	116.8
135°	3.0	51.8	96.1	112.4	112.4
137.5°	3.0	45.8	88.7	106.5	108.0
140°	3.0	41.4	81.3	100.6	103.5
142.5°	3.0	37.0	73.9	94.7	99.1
145°	3.0	32.5	66.6	87.3	93.2
147.5°	3.0	29.6	59.2	78.4	87.3
150°	3.0	25.1	53.2	71.0	79.9
152.5°	3.0	22.2	47.3	63.6	73.9
155°	3.0	20.7	41.4	54.7	66.6
157.5°	3.0	17.7	35.5	47.3	59.2
160°	3.0	14.8	29.6	41.4	50.3
162.5°	3.0	13.3	25.1	34.0	44.4
165°	3.0	11.8	20.7	26.6	35.5
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)