

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-LD5-68SL-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-LD5-68SL-SLN-UNV-L840-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

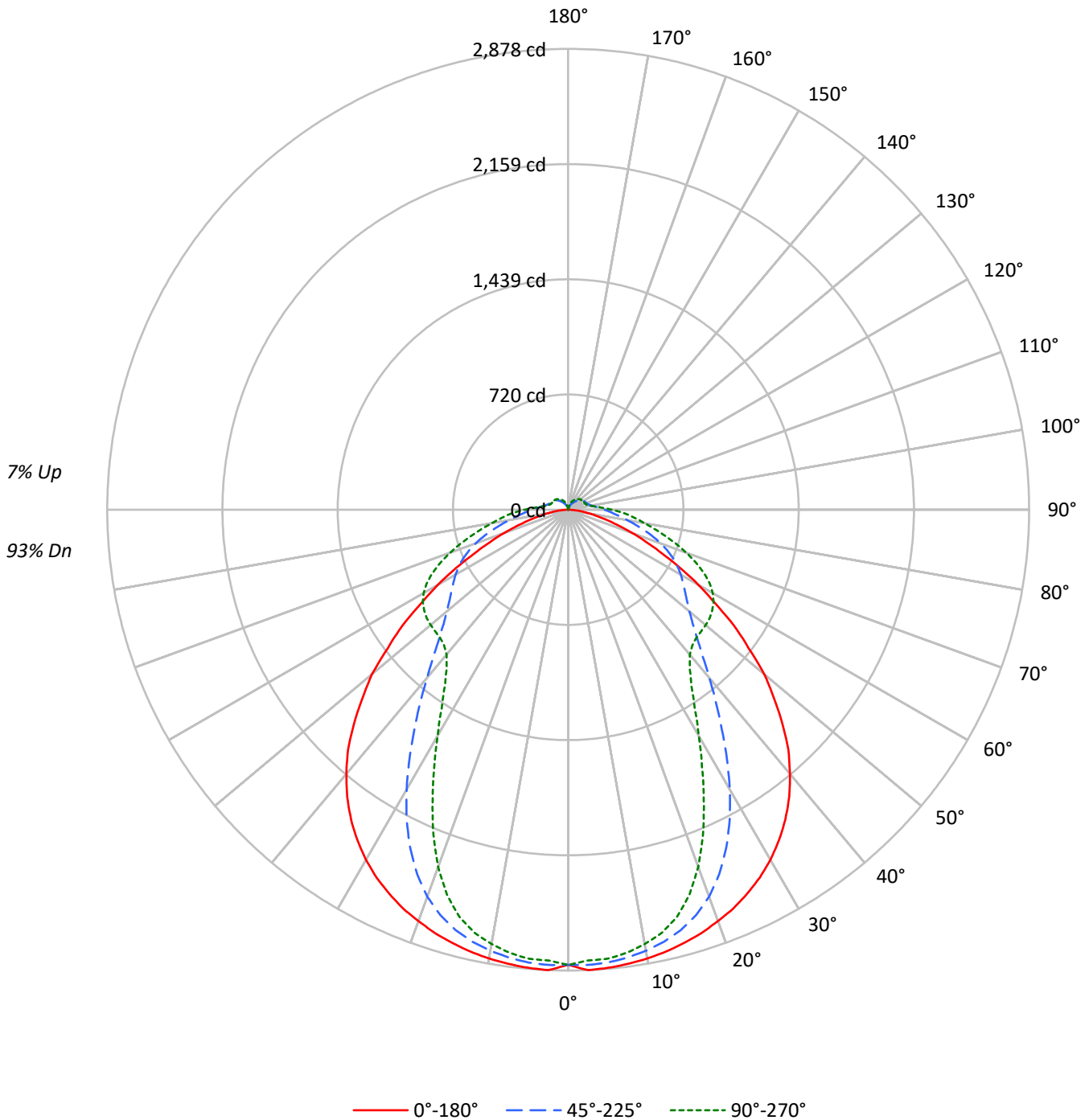
Lumens per Lamp: N/A  
Luminaire Lumens: 7148.0 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 50  
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-LD5-68SL-SLN-UNV-L840-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-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°	11484	11484	11484
5°	11633	11241	11055
10°	11645	10941	10600
15°	11665	10584	9996
20°	11688	10047	8977
25°	11711	9215	7602
30°	11675	8116	6252
35°	11530	6912	5240
40°	11216	5860	4737
45°	10647	5098	4701
50°	9864	4667	4866
55°	8716	4492	5036
60°	7387	4435	5106
65°	5976	4345	4947
70°	4841	4130	4562
75°	3700	3749	4048
80°	2798	3380	3601
85°	1990	3207	3312



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-SLN-UNV-L840-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.9	3.8
10°-20°	760.1	10.6
20°-30°	1062.5	14.9
30°-40°	1102.1	15.4
40°-50°	1018.1	14.2
50°-60°	909.0	12.7
60°-70°	736.7	10.3
70°-80°	490.0	6.9
80°-90°	280.6	3.9
90°-100°	155.2	2.2
100°-110°	105.1	1.5
110°-120°	87.5	1.2
120°-130°	71.2	1.0
130°-140°	51.3	0.7
140°-150°	31.0	0.4
150°-160°	14.9	0.2
160°-170°	3.8	0.1
170°-180°	0.0	0.0
0°-30°	2091.5	29.3
0°-40°	3193.6	44.7
0°-60°	5120.7	71.6
0°-90°	6628.0	92.7
90°-120°	347.9	4.9
90°-150°	501.3	7.0
90°-180°	520.0	7.3
0°-180°	7148.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2842	2842	2842	2842	2842	
5°	2872	2824	2839	2819	2815	273
15°	2800	2741	2718	2656	2630	791
25°	2646	2529	2333	2089	2004	1219
35°	2363	2104	1672	1404	1342	1474
45°	1892	1500	1139	1098	1132	1455
55°	1265	956	889	1034	1098	1125
65°	646	578	724	887	934	653
75°	251	314	488	598	623	275
85°	51	146	288	368	378	58
90°	2	102	227	274	272	4
95°	2	86	180	193	186	2
105°	1	75	130	126	120	1
115°	1	68	115	114	110	1
125°	1	58	101	106	104	1
135°	2	43	80	94	94	2
145°	2	27	56	73	78	2
155°	2	17	35	46	56	1
165°	2	10	17	22	30	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-SLN-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2842.3	2842.3	2842.3	2842.3	2842.3
2.5°	2878.2	2831.2	2846.0	2833.7	2817.6
5°	2872.0	2823.8	2838.6	2818.9	2815.2
7.5°	2860.9	2812.7	2821.3	2797.9	2791.7
10°	2846.0	2795.4	2796.6	2763.3	2754.6
12.5°	2826.3	2770.7	2763.3	2717.6	2705.2
15°	2800.3	2741.0	2717.6	2655.8	2629.9
17.5°	2771.9	2702.7	2654.6	2559.5	2518.7
20°	2733.6	2655.8	2571.8	2427.3	2372.9
22.5°	2695.3	2599.0	2464.3	2271.6	2198.8
25°	2645.9	2528.6	2333.4	2088.8	2003.6
27.5°	2590.3	2445.8	2182.7	1901.1	1809.7
30°	2524.9	2345.8	2017.2	1717.0	1630.5
32.5°	2448.3	2233.3	1843.0	1551.5	1471.2
35°	2363.1	2103.6	1672.5	1404.5	1341.5
37.5°	2265.5	1961.6	1514.4	1285.9	1245.1
40°	2154.3	1807.2	1368.7	1194.5	1180.9
42.5°	2034.5	1656.5	1243.9	1135.2	1147.6
45°	1892.4	1499.6	1138.9	1098.1	1131.5
47.5°	1743.0	1346.4	1053.7	1077.1	1125.3
50°	1598.4	1204.4	987.0	1063.6	1120.4
52.5°	1419.3	1077.1	933.9	1051.2	1113.0
55°	1264.9	956.1	889.4	1033.9	1098.1
57.5°	1087.0	847.4	849.9	1011.7	1075.9
60°	938.8	748.6	811.6	980.8	1042.6
62.5°	788.1	659.6	769.6	940.0	995.6
65°	646.0	578.1	723.9	886.9	933.9
67.5°	527.5	504.0	672.0	822.7	862.2
70°	427.4	436.0	615.2	751.0	784.4
72.5°	328.6	373.0	553.4	674.5	702.9
75°	250.8	313.8	487.9	597.9	622.6
77.5°	185.3	261.9	428.6	528.7	549.7
80°	130.9	216.2	373.0	468.2	484.2
82.5°	87.7	177.9	327.3	413.8	428.6
85°	50.6	145.8	287.8	368.1	378.0
87.5°	21.0	121.1	255.7	321.2	326.1
90°	2.5	102.5	227.3	274.2	271.8
92.5°	2.5	92.6	202.6	229.8	223.6
95°	2.5	86.5	180.3	192.7	186.5
97.5°	2.5	82.8	160.6	165.5	159.3
100°	1.2	80.3	147.0	147.0	140.8
102.5°	1.2	77.8	137.1	133.4	128.5
105°	1.2	75.4	129.7	126.0	119.8
107.5°	1.2	74.1	124.8	121.1	114.9
110°	1.2	71.6	121.1	117.3	112.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-SLN-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	70.4	118.6	116.1	109.9
115°	1.2	67.9	114.9	113.6	109.9
117.5°	1.2	65.5	112.4	112.4	108.7
120°	1.2	63.0	108.7	111.2	107.5
122.5°	1.2	60.5	105.0	108.7	105.0
125°	1.2	58.1	101.3	106.2	103.8
127.5°	2.5	54.4	96.4	103.8	101.3
130°	1.2	50.6	91.4	101.3	100.1
132.5°	2.5	46.9	86.5	97.6	97.6
135°	2.5	43.2	80.3	93.9	93.9
137.5°	2.5	38.3	74.1	88.9	90.2
140°	2.5	34.6	67.9	84.0	86.5
142.5°	2.5	30.9	61.8	79.1	82.8
145°	2.5	27.2	55.6	72.9	77.8
147.5°	2.5	24.7	49.4	65.5	72.9
150°	2.5	21.0	44.5	59.3	66.7
152.5°	2.5	18.5	39.5	53.1	61.8
155°	2.5	17.3	34.6	45.7	55.6
157.5°	2.5	14.8	29.6	39.5	49.4
160°	2.5	12.4	24.7	34.6	42.0
162.5°	2.5	11.1	21.0	28.4	37.1
165°	2.5	9.9	17.3	22.2	29.6
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)