

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-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-LD5-98SL-SLN-UNV-L840-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

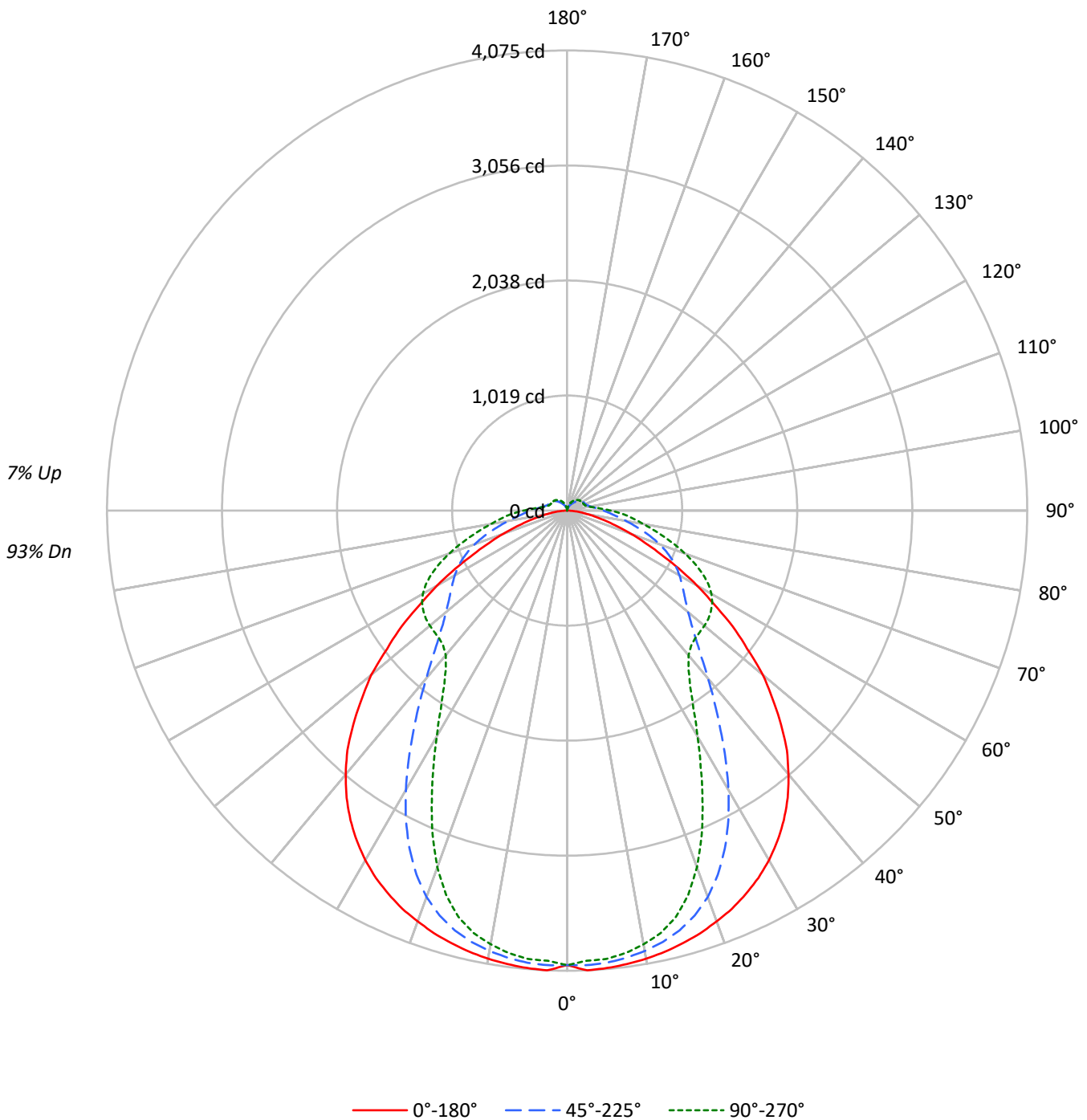
Lumens per Lamp: N/A  
Luminaire Lumens: 10121.0 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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



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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	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°	16261	16261	16261
5°	16471	15917	15653
10°	16488	15491	15009
15°	16517	14986	14153
20°	16549	14226	12710
25°	16581	13047	10763
30°	16530	11491	8853
35°	16325	9787	7419
40°	15881	8297	6707
45°	15075	7219	6656
50°	13966	6607	6890
55°	12341	6360	7131
60°	10459	6279	7229
65°	8462	6151	7004
70°	6855	5848	6459
75°	5238	5308	5732
80°	3963	4786	5099
85°	2820	4541	4690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.8	3.8
10°-20°	1076.2	10.6
20°-30°	1504.4	14.9
30°-40°	1560.5	15.4
40°-50°	1441.6	14.2
50°-60°	1287.1	12.7
60°-70°	1043.1	10.3
70°-80°	693.8	6.9
80°-90°	397.3	3.9
90°-100°	219.8	2.2
100°-110°	148.8	1.5
110°-120°	123.9	1.2
120°-130°	100.7	1.0
130°-140°	72.7	0.7
140°-150°	43.8	0.4
150°-160°	21.1	0.2
160°-170°	5.5	0.1
170°-180°	0.0	0.0
0°-30°	2961.4	29.3
0°-40°	4521.8	44.7
0°-60°	7250.5	71.6
0°-90°	9384.7	92.7
90°-120°	492.6	4.9
90°-150°	709.8	7.0
90°-180°	736.0	7.3
0°-180°	10121.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4024	4024	4024	4024	4024	
5°	4066	3998	4019	3991	3986	387
15°	3965	3881	3848	3760	3724	1120
25°	3746	3580	3304	2958	2837	1726
35°	3346	2979	2368	1989	1899	2088
45°	2680	2123	1613	1555	1602	2060
55°	1791	1354	1259	1464	1555	1592
65°	915	818	1025	1256	1322	925
75°	355	444	691	846	882	389
85°	72	206	408	521	535	83
90°	4	145	322	388	385	6
95°	4	122	255	273	264	3
105°	2	107	184	178	170	2
115°	2	96	163	161	156	2
125°	2	82	143	150	147	2
135°	4	61	114	133	133	3
145°	4	38	79	103	110	2
155°	4	24	49	65	79	2
165°	4	14	24	32	42	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLN-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4024.5	4024.5	4024.5	4024.5	4024.5
2.5°	4075.2	4008.8	4029.8	4012.3	3989.5
5°	4066.5	3998.3	4019.3	3991.3	3986.0
7.5°	4050.7	3982.5	3994.8	3961.5	3952.8
10°	4029.8	3958.1	3959.8	3912.6	3900.3
12.5°	4001.8	3923.1	3912.6	3847.9	3830.4
15°	3965.0	3881.1	3847.9	3760.4	3723.7
17.5°	3924.8	3826.9	3758.7	3624.0	3566.3
20°	3870.6	3760.4	3641.5	3436.8	3359.9
22.5°	3816.4	3680.0	3489.3	3216.5	3113.3
25°	3746.4	3580.3	3303.9	2957.6	2836.9
27.5°	3667.7	3463.1	3090.5	2691.8	2562.3
30°	3575.0	3321.4	2856.2	2431.1	2308.7
32.5°	3466.6	3162.2	2609.6	2196.8	2083.1
35°	3345.9	2978.6	2368.2	1988.6	1899.4
37.5°	3207.7	2777.5	2144.3	1820.7	1763.0
40°	3050.3	2558.8	1937.9	1691.3	1672.1
42.5°	2880.6	2345.4	1761.3	1607.4	1624.8
45°	2679.5	2123.3	1612.6	1554.9	1602.1
47.5°	2467.9	1906.4	1491.9	1525.2	1593.4
50°	2263.2	1705.3	1397.5	1505.9	1586.4
52.5°	2009.6	1525.2	1322.3	1488.4	1575.9
55°	1791.0	1353.7	1259.3	1463.9	1554.9
57.5°	1539.1	1199.8	1203.3	1432.5	1523.4
60°	1329.3	1059.9	1149.1	1388.7	1476.2
62.5°	1115.9	934.0	1089.6	1331.0	1409.7
65°	914.7	818.5	1024.9	1255.8	1322.3
67.5°	746.8	713.6	951.5	1164.9	1220.8
70°	605.2	617.4	871.0	1063.4	1110.6
72.5°	465.2	528.2	783.6	955.0	995.2
75°	355.1	444.3	690.9	846.5	881.5
77.5°	262.4	370.8	606.9	748.6	778.3
80°	185.4	306.1	528.2	662.9	685.6
82.5°	124.2	251.9	463.5	585.9	606.9
85°	71.7	206.4	407.5	521.2	535.2
87.5°	29.7	171.4	362.0	454.7	461.7
90°	3.5	145.2	321.8	388.3	384.8
92.5°	3.5	131.2	286.8	325.3	316.6
95°	3.5	122.4	255.4	272.8	264.1
97.5°	3.5	117.2	227.4	234.4	225.6
100°	1.7	113.7	208.1	208.1	199.4
102.5°	1.7	110.2	194.1	188.9	181.9
105°	1.7	106.7	183.6	178.4	169.7
107.5°	1.7	104.9	176.7	171.4	162.7
110°	1.7	101.4	171.4	166.2	159.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	99.7	167.9	164.4	155.7
115°	1.7	96.2	162.7	160.9	155.7
117.5°	1.7	92.7	159.2	159.2	153.9
120°	1.7	89.2	153.9	157.4	152.2
122.5°	1.7	85.7	148.7	153.9	148.7
125°	1.7	82.2	143.4	150.4	146.9
127.5°	3.5	77.0	136.4	146.9	143.4
130°	1.7	71.7	129.4	143.4	141.7
132.5°	3.5	66.5	122.4	138.2	138.2
135°	3.5	61.2	113.7	132.9	132.9
137.5°	3.5	54.2	104.9	125.9	127.7
140°	3.5	49.0	96.2	118.9	122.4
142.5°	3.5	43.7	87.5	111.9	117.2
145°	3.5	38.5	78.7	103.2	110.2
147.5°	3.5	35.0	70.0	92.7	103.2
150°	3.5	29.7	63.0	84.0	94.4
152.5°	3.5	26.2	56.0	75.2	87.5
155°	3.5	24.5	49.0	64.7	78.7
157.5°	3.5	21.0	42.0	56.0	70.0
160°	3.5	17.5	35.0	49.0	59.5
162.5°	3.5	15.7	29.7	40.2	52.5
165°	3.5	14.0	24.5	31.5	42.0
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)