

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-LD5-170HL-SLN-UNV-L930-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-LD5-170HL-SLN-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

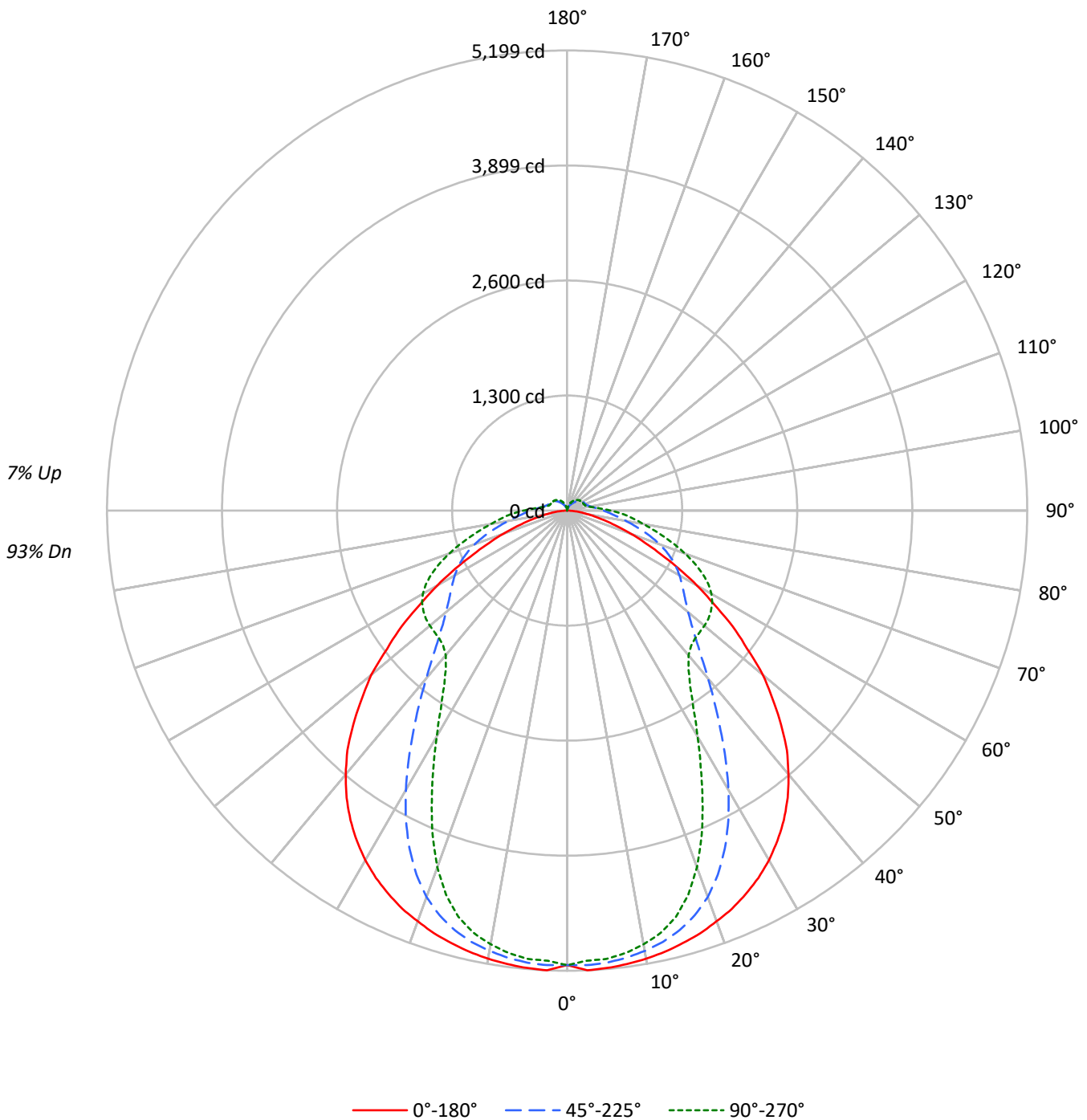
Lumens per Lamp: N/A  
Luminaire Lumens: 12912.1 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 124  
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°	20745	20745	20745
5°	21013	20306	19969
10°	21035	19763	19148
15°	21072	19118	18055
20°	21112	18149	16215
25°	21154	16645	13732
30°	21089	14660	11294
35°	20827	12485	9465
40°	20260	10585	8556
45°	19233	9209	8492
50°	17818	8429	8789
55°	15744	8114	9097
60°	13343	8011	9223
65°	10796	7848	8935
70°	8745	7460	8240
75°	6682	6772	7312
80°	5055	6106	6505
85°	3599	5794	5983



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.8	3.8
10°-20°	1373.0	10.6
20°-30°	1919.3	14.9
30°-40°	1990.8	15.4
40°-50°	1839.2	14.2
50°-60°	1642.0	12.7
60°-70°	1330.7	10.3
70°-80°	885.1	6.9
80°-90°	506.9	3.9
90°-100°	280.4	2.2
100°-110°	189.9	1.5
110°-120°	158.1	1.2
120°-130°	128.5	1.0
130°-140°	92.7	0.7
140°-150°	55.9	0.4
150°-160°	26.9	0.2
160°-170°	7.0	0.1
170°-180°	0.0	0.0
0°-30°	3778.0	29.3
0°-40°	5768.8	44.7
0°-60°	9249.9	71.6
0°-90°	11972.7	92.7
90°-120°	628.4	4.9
90°-150°	905.6	7.0
90°-180°	939.0	7.3
0°-180°	12912.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5134	5134	5134	5134	5134	
5°	5188	5101	5128	5092	5085	493
15°	5058	4951	4909	4797	4750	1429
25°	4780	4568	4215	3773	3619	2202
35°	4269	3800	3021	2537	2423	2663
45°	3418	2709	2057	1984	2044	2628
55°	2285	1727	1607	1868	1984	2032
65°	1167	1044	1308	1602	1687	1180
75°	453	567	881	1080	1125	497
85°	92	263	520	665	683	105
90°	4	185	411	495	491	7
95°	4	156	326	348	337	3
105°	2	136	234	228	216	2
115°	2	123	208	205	199	2
125°	2	105	183	192	187	2
135°	4	78	145	170	170	3
145°	4	49	100	132	141	3
155°	4	31	62	83	100	2
165°	4	18	31	40	54	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-SLN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5134.3	5134.3	5134.3	5134.3	5134.3
2.5°	5199.0	5114.2	5141.0	5118.7	5089.7
5°	5187.9	5100.9	5127.6	5091.9	5085.2
7.5°	5167.8	5080.8	5096.4	5054.0	5042.8
10°	5141.0	5049.5	5051.8	4991.5	4975.9
12.5°	5105.3	5004.9	4991.5	4909.0	4886.6
15°	5058.5	4951.4	4909.0	4797.4	4750.5
17.5°	5007.1	4882.2	4795.2	4623.3	4549.7
20°	4938.0	4797.4	4645.7	4384.6	4286.4
22.5°	4868.8	4694.8	4451.5	4103.4	3971.8
25°	4779.5	4567.6	4215.0	3773.2	3619.2
27.5°	4679.1	4418.1	3942.8	3434.0	3268.9
30°	4560.9	4237.3	3643.8	3101.6	2945.4
32.5°	4422.5	4034.3	3329.2	2802.6	2657.5
35°	4268.6	3800.0	3021.2	2537.0	2423.2
37.5°	4092.3	3543.4	2735.6	2322.8	2249.2
40°	3891.5	3264.5	2472.3	2157.7	2133.2
42.5°	3675.0	2992.2	2247.0	2050.6	2072.9
45°	3418.4	2708.9	2057.3	1983.7	2043.9
47.5°	3148.4	2432.2	1903.3	1945.7	2032.8
50°	2887.4	2175.6	1782.8	1921.2	2023.8
52.5°	2563.8	1945.7	1686.9	1898.9	2010.4
55°	2284.9	1727.1	1606.6	1867.6	1983.7
57.5°	1963.6	1530.7	1535.2	1827.5	1943.5
60°	1695.8	1352.2	1466.0	1771.7	1883.3
62.5°	1423.6	1191.5	1390.1	1698.1	1798.5
65°	1167.0	1044.3	1307.6	1602.1	1686.9
67.5°	952.8	910.4	1213.9	1486.1	1557.5
70°	772.0	787.7	1111.2	1356.7	1416.9
72.5°	593.5	673.9	999.6	1218.3	1269.6
75°	453.0	566.8	881.4	1080.0	1124.6
77.5°	334.7	473.0	774.3	955.0	992.9
80°	236.5	390.5	673.9	845.7	874.7
82.5°	158.4	321.3	591.3	747.5	774.3
85°	91.5	263.3	519.9	664.9	682.8
87.5°	37.9	218.7	461.9	580.2	589.1
90°	4.5	185.2	410.6	495.4	490.9
92.5°	4.5	167.4	365.9	415.0	403.9
95°	4.5	156.2	325.8	348.1	336.9
97.5°	4.5	149.5	290.1	299.0	287.8
100°	2.2	145.0	265.5	265.5	254.4
102.5°	2.2	140.6	247.7	241.0	232.1
105°	2.2	136.1	234.3	227.6	216.4
107.5°	2.2	133.9	225.4	218.7	207.5
110°	2.2	129.4	218.7	212.0	203.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	127.2	214.2	209.7	198.6
115°	2.2	122.7	207.5	205.3	198.6
117.5°	2.2	118.3	203.1	203.1	196.4
120°	2.2	113.8	196.4	200.8	194.1
122.5°	2.2	109.3	189.7	196.4	189.7
125°	2.2	104.9	183.0	191.9	187.4
127.5°	4.5	98.2	174.0	187.4	183.0
130°	2.2	91.5	165.1	183.0	180.7
132.5°	4.5	84.8	156.2	176.3	176.3
135°	4.5	78.1	145.0	169.6	169.6
137.5°	4.5	69.2	133.9	160.7	162.9
140°	4.5	62.5	122.7	151.7	156.2
142.5°	4.5	55.8	111.6	142.8	149.5
145°	4.5	49.1	100.4	131.6	140.6
147.5°	4.5	44.6	89.3	118.3	131.6
150°	4.5	37.9	80.3	107.1	120.5
152.5°	4.5	33.5	71.4	95.9	111.6
155°	4.5	31.2	62.5	82.6	100.4
157.5°	4.5	26.8	53.6	71.4	89.3
160°	4.5	22.3	44.6	62.5	75.9
162.5°	4.5	20.1	37.9	51.3	66.9
165°	4.5	17.9	31.2	40.2	53.6
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)