

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-LD5-130HL-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-LD5-130HL-SLN-UNV-L840-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

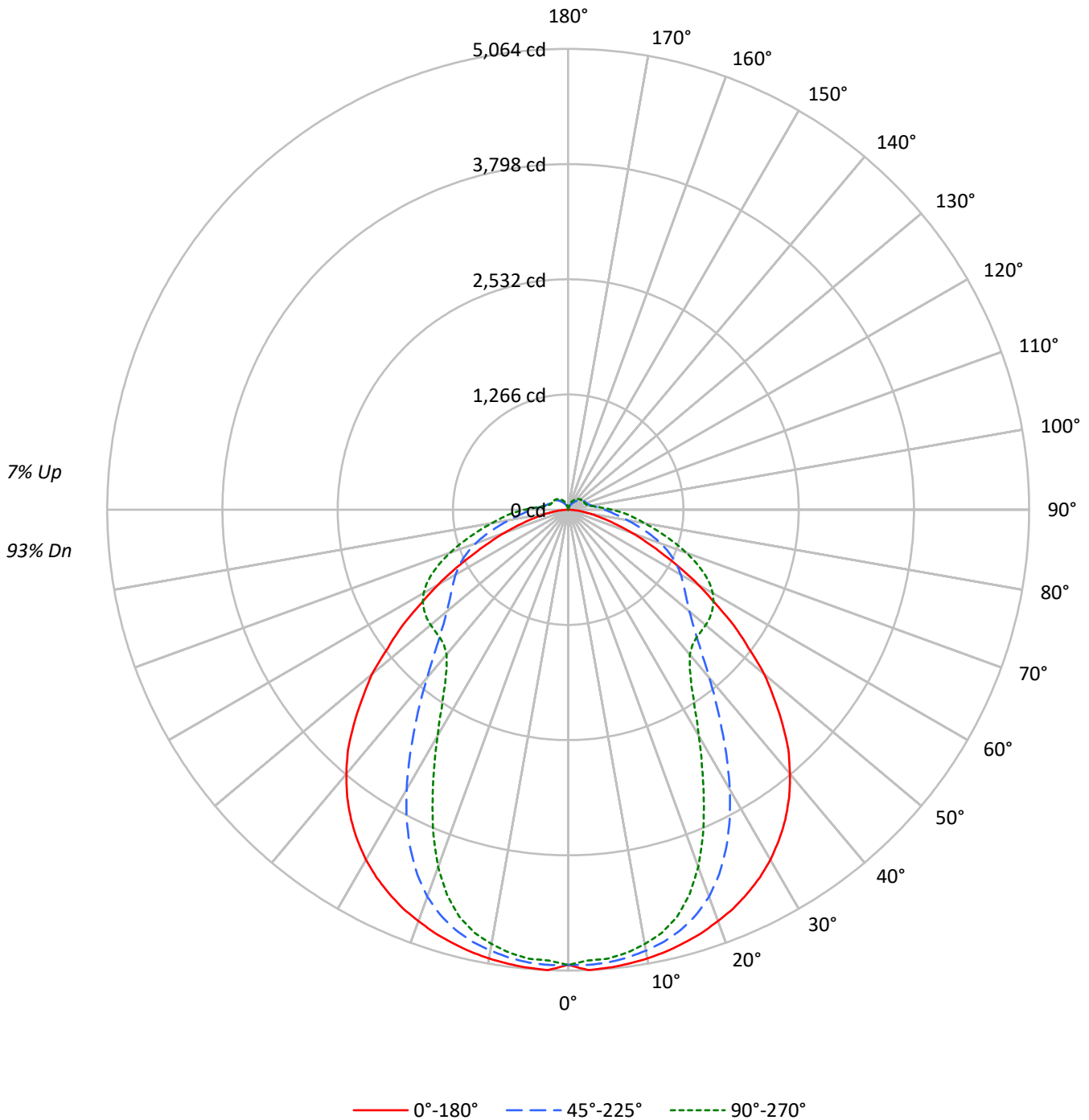
Lumens per Lamp: N/A  
Luminaire Lumens: 12577.0 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 86  
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°	20207	20207	20207
5°	20468	19779	19451
10°	20489	19250	18651
15°	20525	18622	17587
20°	20565	17678	15795
25°	20605	16214	13375
30°	20542	14280	11001
35°	20287	12162	9220
40°	19734	10310	8334
45°	18734	8970	8271
50°	17355	8211	8561
55°	15336	7903	8861
60°	12996	7803	8983
65°	10515	7644	8703
70°	8518	7267	8026
75°	6508	6596	7123
80°	4925	5948	6336
85°	3505	5643	5828



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.2	3.8
10°-20°	1337.3	10.6
20°-30°	1869.5	14.9
30°-40°	1939.1	15.4
40°-50°	1791.4	14.2
50°-60°	1599.4	12.7
60°-70°	1296.2	10.3
70°-80°	862.1	6.9
80°-90°	493.7	3.9
90°-100°	273.1	2.2
100°-110°	185.0	1.5
110°-120°	154.0	1.2
120°-130°	125.2	1.0
130°-140°	90.3	0.7
140°-150°	54.4	0.4
150°-160°	26.2	0.2
160°-170°	6.8	0.1
170°-180°	0.0	0.0
0°-30°	3680.0	29.3
0°-40°	5619.1	44.7
0°-60°	9010.0	71.6
0°-90°	11662.0	92.7
90°-120°	612.1	4.9
90°-150°	882.0	7.0
90°-180°	915.0	7.3
0°-180°	12577.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5001	5001	5001	5001	5001	
5°	5053	4968	4995	4960	4953	481
15°	4927	4823	4782	4673	4627	1392
25°	4656	4449	4106	3675	3525	2145
35°	4158	3701	2943	2471	2360	2594
45°	3330	2639	2004	1932	1991	2560
55°	2226	1682	1565	1819	1932	1979
65°	1137	1017	1274	1560	1643	1149
75°	441	552	858	1052	1095	484
85°	89	256	506	648	665	103
90°	4	180	400	482	478	7
95°	4	152	317	339	328	3
105°	2	133	228	222	211	2
115°	2	120	202	200	193	2
125°	2	102	178	187	183	2
135°	4	76	141	165	165	3
145°	4	48	98	128	137	3
155°	4	30	61	80	98	2
165°	4	17	30	39	52	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLN-UNV-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5001.1	5001.1	5001.1	5001.1	5001.1
2.5°	5064.1	4981.6	5007.6	4985.9	4957.6
5°	5053.3	4968.5	4994.6	4959.8	4953.3
7.5°	5033.7	4949.0	4964.2	4922.9	4912.0
10°	5007.6	4918.5	4920.7	4862.0	4846.8
12.5°	4972.9	4875.1	4862.0	4781.6	4759.9
15°	4927.2	4822.9	4781.6	4672.9	4627.3
17.5°	4877.2	4755.5	4670.8	4503.4	4431.7
20°	4809.9	4672.9	4525.1	4270.8	4175.2
22.5°	4742.5	4572.9	4336.0	3997.0	3868.7
25°	4655.5	4449.1	4105.7	3675.3	3525.3
27.5°	4557.7	4303.4	3840.5	3344.9	3184.1
30°	4442.5	4127.4	3549.3	3021.1	2869.0
32.5°	4307.8	3929.6	3242.8	2729.9	2588.6
35°	4157.8	3701.4	2942.9	2471.2	2360.4
37.5°	3986.1	3451.4	2664.7	2262.6	2190.8
40°	3790.5	3179.8	2408.2	2101.7	2077.8
42.5°	3579.7	2914.6	2188.7	1997.4	2019.1
45°	3329.7	2638.6	2003.9	1932.2	1990.9
47.5°	3066.7	2369.1	1854.0	1895.3	1980.0
50°	2812.4	2119.1	1736.6	1871.3	1971.3
52.5°	2497.3	1895.3	1643.1	1849.6	1958.3
55°	2225.6	1682.3	1564.9	1819.2	1932.2
57.5°	1912.6	1491.0	1495.3	1780.1	1893.1
60°	1651.8	1317.1	1428.0	1725.7	1834.4
62.5°	1386.7	1160.6	1354.1	1654.0	1751.8
65°	1136.7	1017.2	1273.6	1560.5	1643.1
67.5°	928.1	886.8	1182.4	1447.5	1517.1
70°	752.0	767.2	1082.4	1321.5	1380.1
72.5°	578.1	656.4	973.7	1186.7	1236.7
75°	441.2	552.1	858.5	1052.0	1095.4
77.5°	326.0	460.8	754.2	930.2	967.2
80°	230.4	380.4	656.4	823.7	852.0
82.5°	154.3	313.0	576.0	728.1	754.2
85°	89.1	256.5	506.4	647.7	665.1
87.5°	36.9	213.0	449.9	565.1	573.8
90°	4.3	180.4	399.9	482.5	478.2
92.5°	4.3	163.0	356.4	404.3	393.4
95°	4.3	152.1	317.3	339.1	328.2
97.5°	4.3	145.6	282.5	291.2	280.4
100°	2.2	141.3	258.6	258.6	247.8
102.5°	2.2	136.9	241.3	234.7	226.0
105°	2.2	132.6	228.2	221.7	210.8
107.5°	2.2	130.4	219.5	213.0	202.1
110°	2.2	126.1	213.0	206.5	197.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	123.9	208.7	204.3	193.4
115°	2.2	119.5	202.1	200.0	193.4
117.5°	2.2	115.2	197.8	197.8	191.3
120°	2.2	110.8	191.3	195.6	189.1
122.5°	2.2	106.5	184.7	191.3	184.7
125°	2.2	102.2	178.2	186.9	182.6
127.5°	4.3	95.6	169.5	182.6	178.2
130°	2.2	89.1	160.8	178.2	176.0
132.5°	4.3	82.6	152.1	171.7	171.7
135°	4.3	76.1	141.3	165.2	165.2
137.5°	4.3	67.4	130.4	156.5	158.7
140°	4.3	60.9	119.5	147.8	152.1
142.5°	4.3	54.3	108.7	139.1	145.6
145°	4.3	47.8	97.8	128.2	136.9
147.5°	4.3	43.5	86.9	115.2	128.2
150°	4.3	36.9	78.2	104.3	117.4
152.5°	4.3	32.6	69.6	93.5	108.7
155°	4.3	30.4	60.9	80.4	97.8
157.5°	4.3	26.1	52.2	69.6	86.9
160°	4.3	21.7	43.5	60.9	73.9
162.5°	4.3	19.6	36.9	50.0	65.2
165°	4.3	17.4	30.4	39.1	52.2
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)