

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-SLC-UNV-L830-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 (P27404)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-130HL-SLC-UNV-L830-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

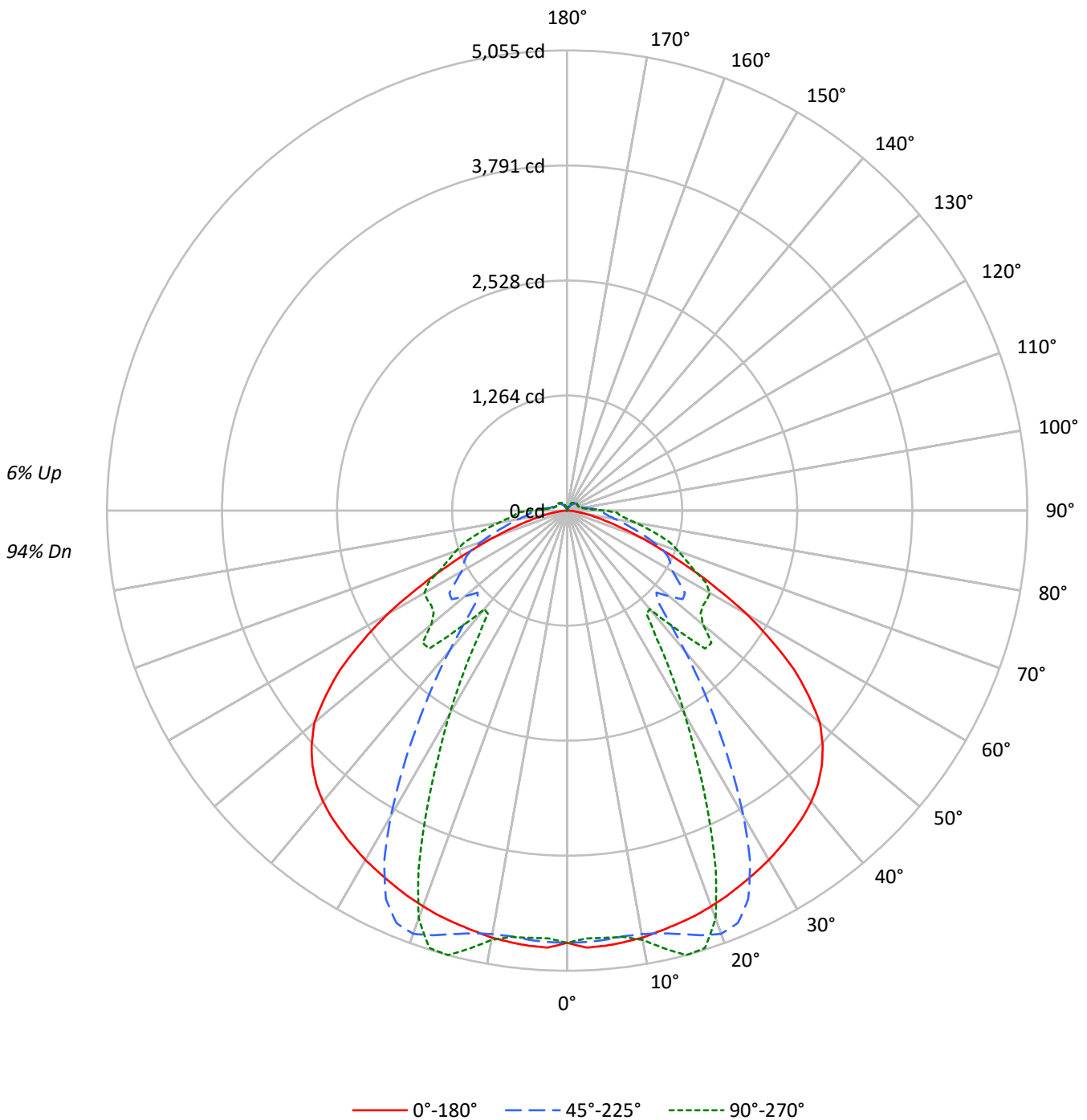
Lumens per Lamp: N/A  
Luminaire Lumens: 12192.1 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19177	19177	19177
5°	19437	18746	18498
10°	19488	18477	18434
15°	19570	18754	19213
20°	19781	19330	18034
25°	20058	18594	13886
30°	20489	15588	9877
35°	21036	11817	6688
40°	21724	8599	5663
45°	22270	6245	8904
50°	22366	6924	8450
55°	20978	7979	8344
60°	17953	7313	8869
65°	13586	7390	8113
70°	9615	6743	7551
75°	6384	5666	6776
80°	4177	4874	5641
85°	2395	4659	5063



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	451.5	3.7
10°-20°	1363.6	11.2
20°-30°	1980.9	16.2
30°-40°	1892.6	15.5
40°-50°	1731.3	14.2
50°-60°	1598.5	13.1
60°-70°	1269.7	10.4
70°-80°	783.7	6.4
80°-90°	426.8	3.5
90°-100°	215.7	1.8
100°-110°	135.6	1.1
110°-120°	114.8	0.9
120°-130°	93.8	0.8
130°-140°	67.3	0.6
140°-150°	41.5	0.3
150°-160°	19.7	0.2
160°-170°	5.1	0.0
170°-180°	0.0	0.0
0°-30°	3796.0	31.1
0°-40°	5688.7	46.7
0°-60°	9018.5	74.0
0°-90°	11498.7	94.3
90°-120°	466.1	3.8
90°-150°	668.6	5.5
90°-180°	693.0	5.7
0°-180°	12192.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4746	4746	4746	4746	4746	
5°	4799	4725	4734	4708	4710	457
15°	4698	4635	4816	4994	5055	1330
25°	4532	4620	4708	3986	3660	2095
35°	4311	4242	2860	1969	1712	2703
45°	3958	2761	1395	1780	2143	3042
55°	3044	1416	1580	1700	1820	2681
65°	1469	918	1231	1496	1532	1485
75°	433	490	738	977	1042	491
85°	61	208	418	569	578	78
90°	2	156	374	443	410	3
95°	0	145	258	229	216	0
105°	0	130	160	145	143	0
115°	0	107	153	137	130	1
125°	2	86	137	132	126	2
135°	2	61	109	120	116	2
145°	2	38	76	97	103	1
155°	4	23	46	61	74	2
165°	4	13	23	29	40	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-130HL-SLC-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4746.2	4746.2	4746.2	4746.2	4746.2
2.5°	4805.1	4735.7	4744.1	4729.4	4704.2
5°	4798.8	4725.2	4733.6	4708.4	4710.5
7.5°	4781.9	4706.3	4716.8	4712.6	4723.1
10°	4763.0	4683.2	4723.1	4758.8	4790.4
12.5°	4729.4	4658.0	4754.6	4859.7	4924.8
15°	4697.9	4634.9	4815.6	4994.2	5055.1
17.5°	4666.4	4626.5	4891.2	5046.7	5038.3
20°	4626.5	4622.3	4947.9	4895.4	4767.2
22.5°	4582.3	4624.4	4903.8	4519.3	4267.2
25°	4531.9	4620.2	4708.4	3985.7	3660.0
27.5°	4481.5	4601.3	4353.3	3401.6	3080.1
30°	4431.1	4550.8	3874.3	2867.9	2575.9
32.5°	4372.2	4441.6	3353.2	2395.2	2126.2
35°	4311.3	4242.0	2859.5	1968.7	1712.3
37.5°	4248.3	3954.1	2416.2	1594.7	1430.8
40°	4172.6	3592.8	2008.6	1367.8	1411.9
42.5°	4078.1	3185.2	1649.3	1435.0	1741.8
45°	3958.3	2760.8	1395.1	1779.6	2143.1
47.5°	3807.1	2353.2	1332.1	2038.0	2151.5
50°	3624.3	1979.2	1464.4	1954.0	1945.6
52.5°	3346.9	1668.2	1598.9	1781.7	1848.9
55°	3044.4	1416.1	1580.0	1699.7	1819.5
57.5°	2662.0	1245.9	1449.7	1682.9	1821.6
60°	2281.7	1132.5	1338.4	1680.8	1811.1
62.5°	1861.5	1029.5	1281.6	1640.9	1718.6
65°	1468.6	918.2	1231.2	1495.9	1531.7
67.5°	1126.2	804.7	1143.0	1334.2	1405.6
70°	848.8	693.3	1004.3	1210.2	1298.4
72.5°	611.4	588.3	861.4	1100.9	1193.4
75°	432.8	489.5	737.5	977.0	1042.1
77.5°	298.3	399.2	632.4	840.4	892.9
80°	195.4	319.4	537.9	722.8	758.5
82.5°	117.7	256.3	466.4	632.4	651.3
85°	60.9	208.0	418.1	569.4	577.8
87.5°	18.9	174.4	390.8	540.0	550.5
90°	2.1	155.5	374.0	443.3	409.7
92.5°	0.0	147.1	323.6	302.5	271.0
95°	0.0	145.0	258.4	229.0	216.4
97.5°	0.0	140.8	212.2	191.2	184.9
100°	0.0	136.6	182.8	168.1	166.0
102.5°	0.0	134.5	166.0	153.4	151.3
105°	0.0	130.3	159.7	145.0	142.9
107.5°	0.0	124.0	155.5	140.8	136.6
110°	0.0	117.7	155.5	138.7	132.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	111.4	155.5	136.6	130.3
115°	0.0	107.2	153.4	136.6	130.3
117.5°	2.1	103.0	151.3	136.6	130.3
120°	0.0	98.7	147.1	136.6	128.2
122.5°	2.1	92.4	142.9	134.5	128.2
125°	2.1	86.1	136.6	132.4	126.1
127.5°	2.1	79.8	130.3	128.2	121.9
130°	2.1	73.5	124.0	126.1	119.8
132.5°	2.1	67.2	115.6	121.9	117.7
135°	2.1	60.9	109.3	119.8	115.6
137.5°	2.1	54.6	100.8	113.5	113.5
140°	2.1	48.3	92.4	109.3	111.4
142.5°	2.1	44.1	84.0	105.1	107.2
145°	2.1	37.8	75.6	96.6	103.0
147.5°	2.1	33.6	67.2	88.2	96.6
150°	2.1	29.4	58.8	79.8	88.2
152.5°	2.1	25.2	52.5	69.3	81.9
155°	4.2	23.1	46.2	60.9	73.5
157.5°	4.2	18.9	37.8	52.5	63.0
160°	4.2	16.8	33.6	44.1	56.7
162.5°	4.2	14.7	27.3	37.8	48.3
165°	4.2	12.6	23.1	29.4	39.9
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)