

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-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 (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-L830-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

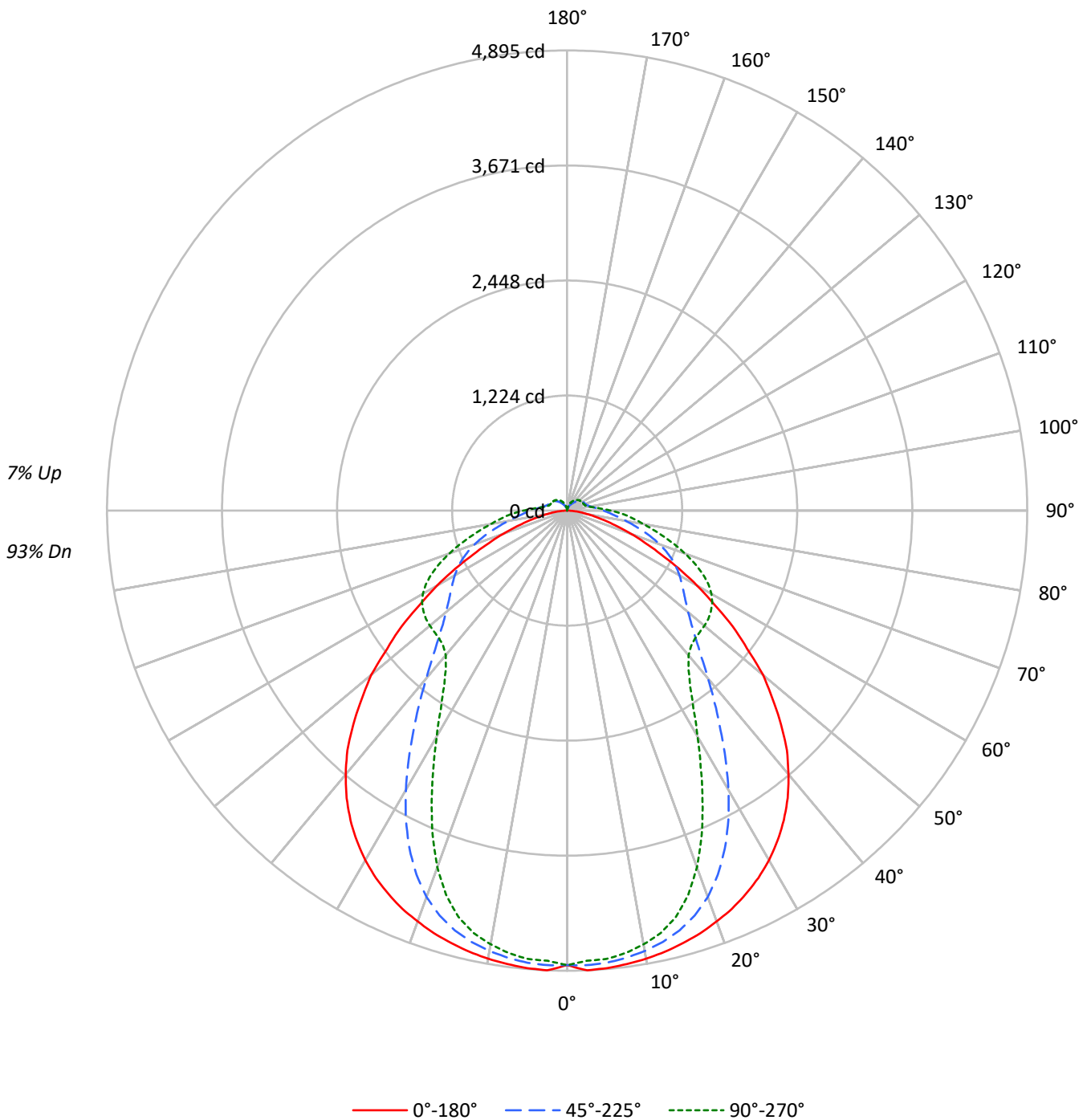
Lumens per Lamp: N/A  
Luminaire Lumens: 12158.0 lumens  
Efficiency: N/A  
Efficacy: 141.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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°	19534	19534	19534
5°	19786	19120	18804
10°	19806	18609	18030
15°	19841	18002	17001
20°	19879	17089	15268
25°	19919	15673	12930
30°	19857	13804	10635
35°	19611	11756	8912
40°	19077	9967	8057
45°	18110	8672	7996
50°	16778	7937	8276
55°	14825	7640	8566
60°	12564	7543	8684
65°	10165	7390	8413
70°	8235	7025	7759
75°	6291	6376	6885
80°	4760	5749	6125
85°	3387	5455	5634



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.4	3.8
10°-20°	1292.8	10.6
20°-30°	1807.2	14.9
30°-40°	1874.5	15.4
40°-50°	1731.8	14.2
50°-60°	1546.1	12.7
60°-70°	1253.0	10.3
70°-80°	833.4	6.9
80°-90°	477.3	3.9
90°-100°	264.0	2.2
100°-110°	178.8	1.5
110°-120°	148.9	1.2
120°-130°	121.0	1.0
130°-140°	87.3	0.7
140°-150°	52.6	0.4
150°-160°	25.3	0.2
160°-170°	6.5	0.1
170°-180°	0.0	0.0
0°-30°	3557.4	29.3
0°-40°	5431.9	44.7
0°-60°	8709.8	71.6
0°-90°	11273.5	92.7
90°-120°	591.7	4.9
90°-150°	852.7	7.0
90°-180°	885.0	7.3
0°-180°	12158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4834	4834	4834	4834	4834	
5°	4885	4803	4828	4795	4788	465
15°	4763	4662	4622	4517	4473	1346
25°	4500	4301	3969	3553	3408	2074
35°	4019	3578	2845	2389	2282	2508
45°	3219	2551	1937	1868	1925	2475
55°	2152	1626	1513	1759	1868	1913
65°	1099	983	1231	1509	1588	1111
75°	426	534	830	1017	1059	468
85°	86	248	490	626	643	99
90°	4	174	387	466	462	7
95°	4	147	307	328	317	3
105°	2	128	221	214	204	2
115°	2	116	195	193	187	2
125°	2	99	172	181	176	2
135°	4	74	137	160	160	3
145°	4	46	94	124	132	3
155°	4	29	59	78	94	2
165°	4	17	29	38	50	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-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4834.5	4834.5	4834.5	4834.5	4834.5
2.5°	4895.4	4815.6	4840.8	4819.8	4792.5
5°	4884.9	4803.0	4828.2	4794.6	4788.3
7.5°	4866.0	4784.1	4798.8	4758.9	4748.4
10°	4840.8	4754.7	4756.8	4700.0	4685.3
12.5°	4807.2	4712.6	4700.0	4622.3	4601.3
15°	4763.1	4662.2	4622.3	4517.2	4473.1
17.5°	4714.7	4597.1	4515.1	4353.4	4284.0
20°	4649.6	4517.2	4374.4	4128.6	4036.1
22.5°	4584.5	4420.6	4191.6	3863.8	3739.9
25°	4500.4	4300.8	3968.9	3552.9	3407.9
27.5°	4405.9	4160.1	3712.5	3233.5	3078.0
30°	4294.5	3989.9	3431.0	2920.5	2773.4
32.5°	4164.3	3798.7	3134.8	2638.9	2502.3
35°	4019.3	3578.1	2844.8	2388.9	2281.7
37.5°	3853.3	3336.5	2575.9	2187.2	2117.9
40°	3664.2	3073.8	2328.0	2031.7	2008.6
42.5°	3460.4	2817.5	2115.8	1930.9	1951.9
45°	3218.8	2550.7	1937.2	1867.8	1924.6
47.5°	2964.6	2290.1	1792.2	1832.1	1914.1
50°	2718.8	2048.5	1678.7	1809.0	1905.6
52.5°	2414.1	1832.1	1588.4	1788.0	1893.0
55°	2151.5	1626.2	1512.8	1758.6	1867.8
57.5°	1848.9	1441.3	1445.5	1720.8	1830.0
60°	1596.8	1273.2	1380.4	1668.2	1773.3
62.5°	1340.5	1122.0	1309.0	1598.9	1693.4
65°	1098.8	983.3	1231.2	1508.6	1588.4
67.5°	897.1	857.2	1143.0	1399.3	1466.5
70°	727.0	741.7	1046.3	1277.4	1334.2
72.5°	558.9	634.5	941.3	1147.2	1195.5
75°	426.5	533.7	829.9	1016.9	1058.9
77.5°	315.2	445.4	729.1	899.2	935.0
80°	222.7	367.7	634.5	796.3	823.6
82.5°	149.2	302.6	556.8	703.9	729.1
85°	86.1	247.9	489.5	626.1	642.9
87.5°	35.7	205.9	434.9	546.3	554.7
90°	4.2	174.4	386.6	466.4	462.2
92.5°	4.2	157.6	344.6	390.8	380.3
95°	4.2	147.1	306.8	327.8	317.3
97.5°	4.2	140.8	273.1	281.5	271.0
100°	2.1	136.6	250.0	250.0	239.5
102.5°	2.1	132.4	233.2	226.9	218.5
105°	2.1	128.2	220.6	214.3	203.8
107.5°	2.1	126.1	212.2	205.9	195.4
110°	2.1	121.9	205.9	199.6	191.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	119.8	201.7	197.5	187.0
115°	2.1	115.6	195.4	193.3	187.0
117.5°	2.1	111.4	191.2	191.2	184.9
120°	2.1	107.2	184.9	189.1	182.8
122.5°	2.1	103.0	178.6	184.9	178.6
125°	2.1	98.7	172.3	180.7	176.5
127.5°	4.2	92.4	163.9	176.5	172.3
130°	2.1	86.1	155.5	172.3	170.2
132.5°	4.2	79.8	147.1	166.0	166.0
135°	4.2	73.5	136.6	159.7	159.7
137.5°	4.2	65.1	126.1	151.3	153.4
140°	4.2	58.8	115.6	142.9	147.1
142.5°	4.2	52.5	105.1	134.5	140.8
145°	4.2	46.2	94.5	124.0	132.4
147.5°	4.2	42.0	84.0	111.4	124.0
150°	4.2	35.7	75.6	100.9	113.5
152.5°	4.2	31.5	67.2	90.3	105.1
155°	4.2	29.4	58.8	77.7	94.5
157.5°	4.2	25.2	50.4	67.2	84.0
160°	4.2	21.0	42.0	58.8	71.4
162.5°	4.2	18.9	35.7	48.3	63.0
165°	4.2	16.8	29.4	37.8	50.4
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)