

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-LD5-136SL-SLN-UNV-L850-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-LD5-136SL-SLN-UNV-L850-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

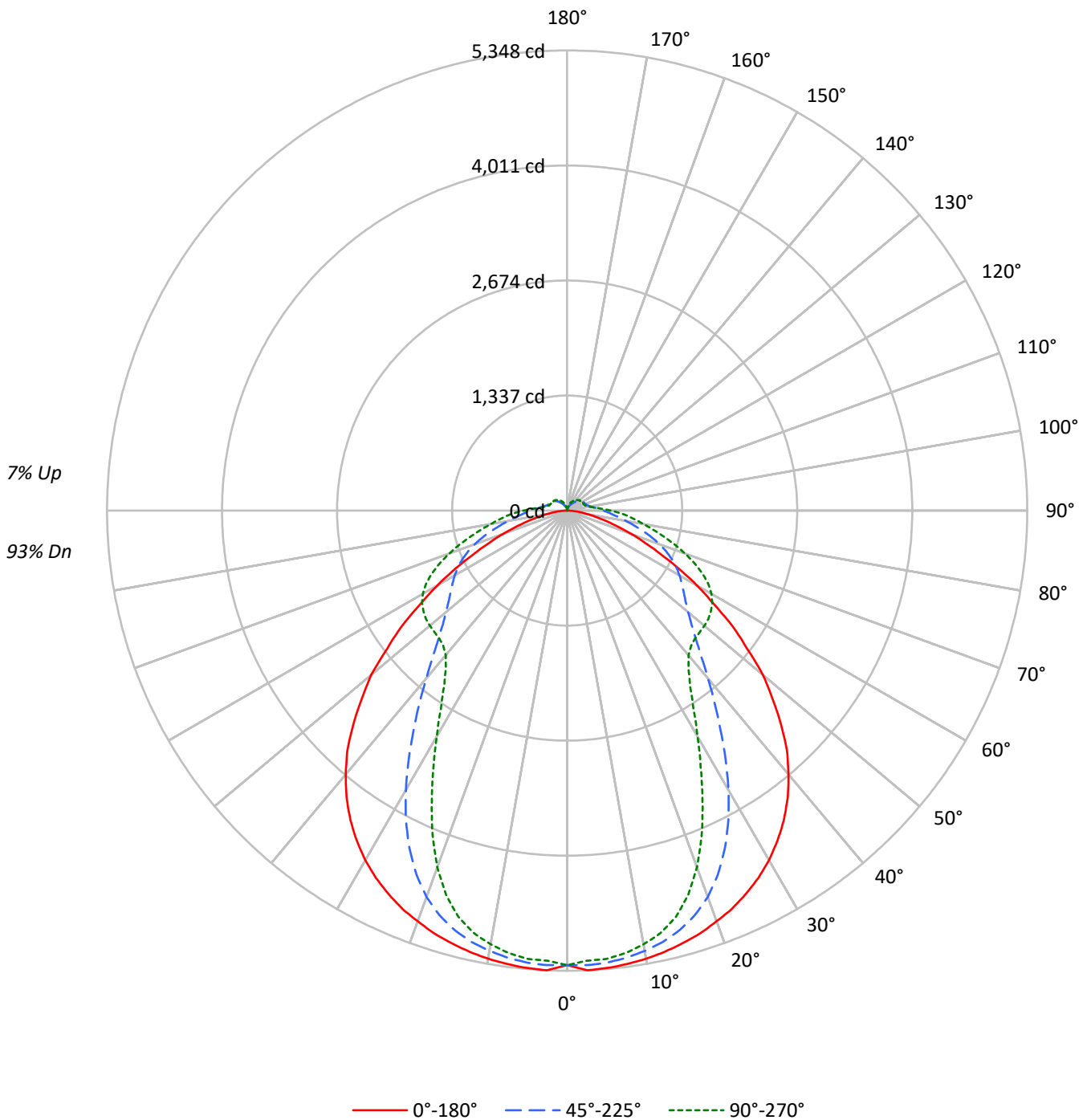
Lumens per Lamp: N/A  
Luminaire Lumens: 13282.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 110  
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	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°	21340	21340	21340
5°	21615	20888	20542
10°	21637	20329	19697
15°	21675	19666	18573
20°	21717	18669	16680
25°	21760	17122	14125
30°	21693	15080	11618
35°	21424	12843	9736
40°	20841	10888	8802
45°	19784	9474	8735
50°	18329	8671	9041
55°	16196	8346	9358
60°	13725	8240	9487
65°	11105	8073	9191
70°	8996	7674	8476
75°	6873	6966	7522
80°	5200	6281	6692
85°	3701	5960	6155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.7	3.8
10°-20°	1412.3	10.6
20°-30°	1974.3	14.9
30°-40°	2047.8	15.4
40°-50°	1891.9	14.2
50°-60°	1689.1	12.7
60°-70°	1368.9	10.3
70°-80°	910.5	6.9
80°-90°	521.4	3.9
90°-100°	288.4	2.2
100°-110°	195.3	1.5
110°-120°	162.6	1.2
120°-130°	132.2	1.0
130°-140°	95.4	0.7
140°-150°	57.5	0.4
150°-160°	27.6	0.2
160°-170°	7.2	0.1
170°-180°	0.0	0.0
0°-30°	3886.2	29.3
0°-40°	5934.1	44.7
0°-60°	9515.0	71.6
0°-90°	12315.7	92.7
90°-120°	646.4	4.9
90°-150°	931.5	7.0
90°-180°	966.0	7.3
0°-180°	13282.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5282	5282	5282	5282	5282	
5°	5336	5247	5275	5238	5231	508
15°	5203	5093	5050	4935	4887	1470
25°	4916	4698	4336	3881	3723	2266
35°	4391	3909	3108	2610	2493	2740
45°	3516	2786	2116	2040	2102	2704
55°	2350	1777	1653	1921	2040	2090
65°	1200	1074	1345	1648	1735	1213
75°	466	583	907	1111	1157	511
85°	94	271	535	684	702	108
90°	5	190	422	510	505	7
95°	5	161	335	358	347	3
105°	2	140	241	234	223	2
115°	2	126	214	211	204	2
125°	2	108	188	197	193	3
135°	5	80	149	174	174	3
145°	5	50	103	135	145	3
155°	5	32	64	85	103	2
165°	5	18	32	41	55	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-SLN-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5281.5	5281.5	5281.5	5281.5	5281.5
2.5°	5348.0	5260.8	5288.3	5265.4	5235.5
5°	5336.5	5247.0	5274.6	5237.8	5231.0
7.5°	5315.9	5226.4	5242.4	5198.8	5187.3
10°	5288.3	5194.2	5196.5	5134.6	5118.5
12.5°	5251.6	5148.3	5134.6	5049.6	5026.7
15°	5203.4	5093.2	5049.6	4934.9	4886.7
17.5°	5150.6	5022.1	4932.6	4755.8	4680.1
20°	5079.5	4934.9	4778.8	4510.2	4409.2
22.5°	5008.3	4829.3	4579.1	4221.0	4085.6
25°	4916.5	4698.5	4335.8	3881.3	3723.0
27.5°	4813.2	4544.7	4055.8	3532.4	3362.6
30°	4691.6	4358.7	3748.2	3190.4	3029.8
32.5°	4549.3	4149.9	3424.6	2882.9	2733.7
35°	4390.9	3908.9	3107.8	2609.7	2492.7
37.5°	4209.6	3644.9	2814.0	2389.4	2313.6
40°	4003.0	3358.0	2543.2	2219.5	2194.3
42.5°	3780.3	3078.0	2311.4	2109.4	2132.3
45°	3516.4	2786.5	2116.3	2040.5	2102.5
47.5°	3238.6	2501.9	1957.9	2001.5	2091.0
50°	2970.1	2237.9	1833.9	1976.2	2081.8
52.5°	2637.3	2001.5	1735.2	1953.3	2068.1
55°	2350.4	1776.6	1652.6	1921.2	2040.5
57.5°	2019.9	1574.6	1579.2	1879.8	1999.2
60°	1744.4	1390.9	1508.0	1822.5	1937.2
62.5°	1464.4	1225.7	1430.0	1746.7	1850.0
65°	1200.4	1074.2	1345.0	1648.0	1735.2
67.5°	980.1	936.5	1248.6	1528.7	1602.1
70°	794.2	810.2	1143.1	1395.5	1457.5
72.5°	610.5	693.2	1028.3	1253.2	1306.0
75°	465.9	583.0	906.6	1110.9	1156.8
77.5°	344.3	486.6	796.5	982.4	1021.4
80°	243.3	401.7	693.2	869.9	899.8
82.5°	163.0	330.5	608.3	768.9	796.5
85°	94.1	270.8	534.8	684.0	702.4
87.5°	39.0	224.9	475.1	596.8	606.0
90°	4.6	190.5	422.3	509.6	505.0
92.5°	4.6	172.1	376.4	426.9	415.4
95°	4.6	160.7	335.1	358.1	346.6
97.5°	4.6	153.8	298.4	307.6	296.1
100°	2.3	149.2	273.1	273.1	261.7
102.5°	2.3	144.6	254.8	247.9	238.7
105°	2.3	140.0	241.0	234.1	222.6
107.5°	2.3	137.7	231.8	224.9	213.5
110°	2.3	133.1	224.9	218.1	208.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	130.8	220.3	215.8	204.3
115°	2.3	126.2	213.5	211.2	204.3
117.5°	2.3	121.7	208.9	208.9	202.0
120°	2.3	117.1	202.0	206.6	199.7
122.5°	2.3	112.5	195.1	202.0	195.1
125°	2.3	107.9	188.2	197.4	192.8
127.5°	4.6	101.0	179.0	192.8	188.2
130°	2.3	94.1	169.9	188.2	185.9
132.5°	4.6	87.2	160.7	181.3	181.3
135°	4.6	80.3	149.2	174.4	174.4
137.5°	4.6	71.2	137.7	165.3	167.6
140°	4.6	64.3	126.2	156.1	160.7
142.5°	4.6	57.4	114.8	146.9	153.8
145°	4.6	50.5	103.3	135.4	144.6
147.5°	4.6	45.9	91.8	121.7	135.4
150°	4.6	39.0	82.6	110.2	123.9
152.5°	4.6	34.4	73.4	98.7	114.8
155°	4.6	32.1	64.3	84.9	103.3
157.5°	4.6	27.5	55.1	73.4	91.8
160°	4.6	23.0	45.9	64.3	78.0
162.5°	4.6	20.7	39.0	52.8	68.9
165°	4.6	18.4	32.1	41.3	55.1
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)