

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-L835-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-L835-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

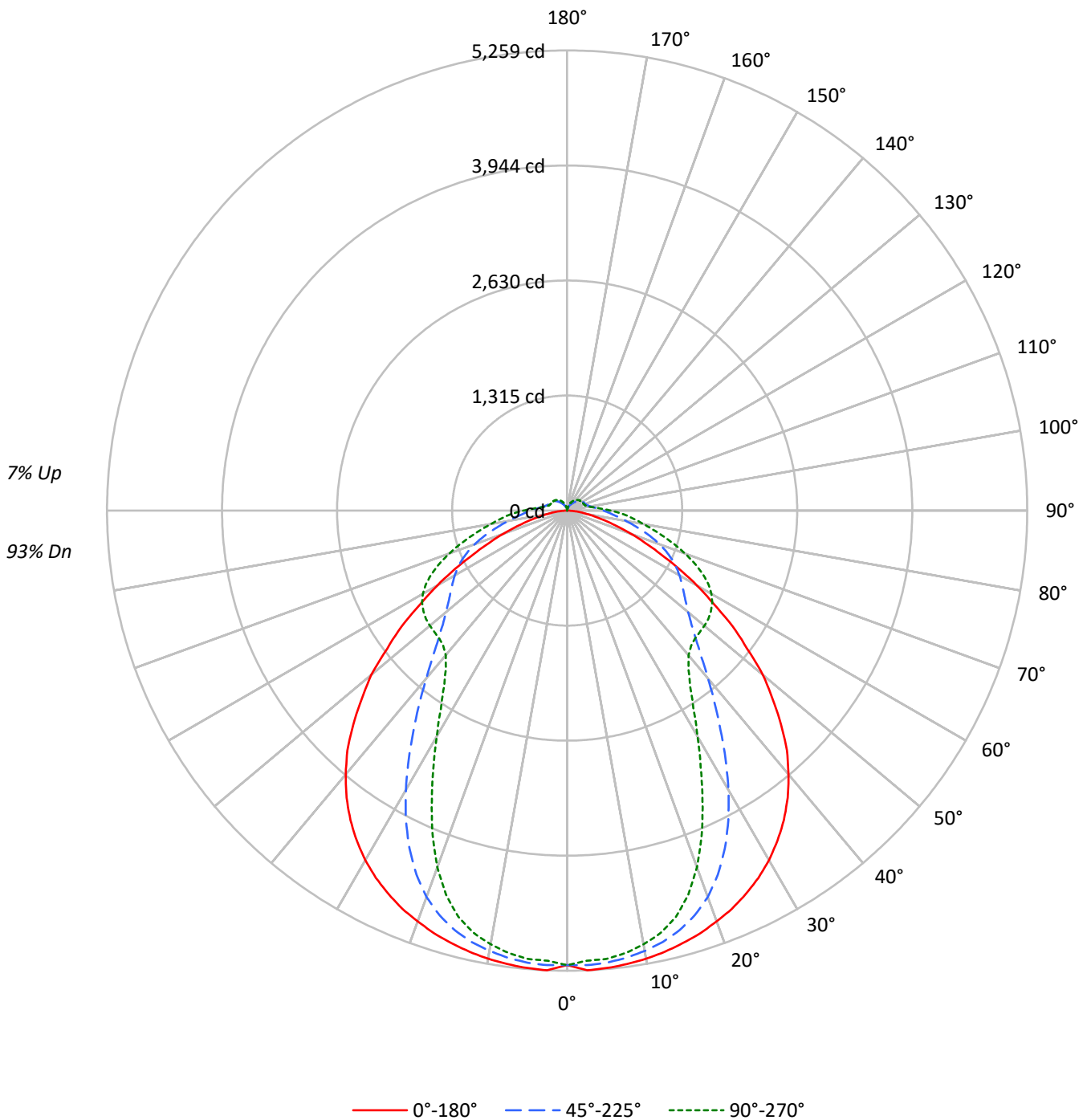
Lumens per Lamp: N/A  
Luminaire Lumens: 13061.0 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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	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°	20985	20985	20985
5°	21255	20541	20200
10°	21277	19991	19369
15°	21315	19339	18264
20°	21356	18359	16403
25°	21398	16838	13890
30°	21332	14829	11425
35°	21067	12629	9574
40°	20494	10707	8655
45°	19455	9316	8590
50°	18024	8527	8891
55°	15926	8207	9202
60°	13497	8103	9329
65°	10920	7939	9038
70°	8847	7546	8336
75°	6759	6850	7397
80°	5115	6176	6580
85°	3638	5860	6052



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.4	3.8
10°-20°	1388.8	10.6
20°-30°	1941.4	14.9
30°-40°	2013.7	15.4
40°-50°	1860.4	14.2
50°-60°	1661.0	12.7
60°-70°	1346.1	10.3
70°-80°	895.3	6.9
80°-90°	512.7	3.9
90°-100°	283.6	2.2
100°-110°	192.1	1.5
110°-120°	159.9	1.2
120°-130°	130.0	1.0
130°-140°	93.8	0.7
140°-150°	56.6	0.4
150°-160°	27.2	0.2
160°-170°	7.0	0.1
170°-180°	0.0	0.0
0°-30°	3821.6	29.3
0°-40°	5835.3	44.7
0°-60°	9356.7	71.6
0°-90°	12110.8	92.7
90°-120°	635.7	4.9
90°-150°	916.0	7.0
90°-180°	950.0	7.3
0°-180°	13061.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5194	5194	5194	5194	5194	
5°	5248	5160	5187	5151	5144	499
15°	5117	5008	4966	4853	4805	1446
25°	4835	4620	4264	3817	3661	2228
35°	4318	3844	3056	2566	2451	2694
45°	3458	2740	2081	2007	2068	2659
55°	2311	1747	1625	1889	2007	2055
65°	1180	1056	1323	1621	1706	1193
75°	458	573	892	1092	1138	502
85°	92	266	526	673	691	106
90°	4	187	415	501	497	7
95°	4	158	330	352	341	3
105°	2	138	237	230	219	2
115°	2	124	210	208	201	2
125°	2	106	185	194	190	3
135°	4	79	147	172	172	3
145°	4	50	102	133	142	3
155°	4	32	63	84	102	2
165°	4	18	32	41	54	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-SLN-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5193.6	5193.6	5193.6	5193.6	5193.6
2.5°	5259.0	5173.3	5200.3	5177.8	5148.4
5°	5247.7	5159.7	5186.8	5150.7	5143.9
7.5°	5227.4	5139.4	5155.2	5112.3	5101.0
10°	5200.3	5107.8	5110.1	5049.1	5033.3
12.5°	5164.2	5062.7	5049.1	4965.6	4943.0
15°	5116.8	5008.5	4965.6	4852.8	4805.4
17.5°	5064.9	4938.5	4850.5	4676.7	4602.2
20°	4995.0	4852.8	4699.3	4435.2	4335.9
22.5°	4925.0	4748.9	4502.9	4150.8	4017.6
25°	4834.7	4620.3	4263.7	3816.7	3661.0
27.5°	4733.1	4469.0	3988.3	3473.7	3306.6
30°	4613.5	4286.2	3685.8	3137.4	2979.4
32.5°	4473.6	4080.8	3367.6	2834.9	2688.2
35°	4317.8	3843.8	3056.1	2566.3	2451.2
37.5°	4139.5	3584.3	2767.2	2349.6	2275.2
40°	3936.4	3302.1	2500.9	2182.6	2157.8
42.5°	3717.4	3026.8	2272.9	2074.3	2096.8
45°	3457.9	2740.1	2081.0	2006.6	2067.5
47.5°	3184.8	2460.2	1925.3	1968.2	2056.2
50°	2920.7	2200.7	1803.4	1943.4	2047.2
52.5°	2593.4	1968.2	1706.4	1920.8	2033.6
55°	2311.3	1747.0	1625.1	1889.2	2006.6
57.5°	1986.2	1548.4	1552.9	1848.6	1965.9
60°	1715.4	1367.8	1482.9	1792.1	1905.0
62.5°	1440.0	1205.3	1406.2	1717.6	1819.2
65°	1180.5	1056.3	1322.7	1620.6	1706.4
67.5°	963.8	920.9	1227.9	1503.2	1575.5
70°	781.0	796.8	1124.0	1372.3	1433.3
72.5°	600.4	681.6	1011.2	1232.4	1284.3
75°	458.2	573.3	891.6	1092.4	1137.6
77.5°	338.6	478.5	783.2	966.0	1004.4
80°	239.3	395.0	681.6	855.4	884.8
82.5°	160.3	325.0	598.1	756.1	783.2
85°	92.5	266.3	525.9	672.6	690.7
87.5°	38.4	221.2	467.2	586.8	595.9
90°	4.5	187.3	415.3	501.1	496.6
92.5°	4.5	169.3	370.2	419.8	408.5
95°	4.5	158.0	329.5	352.1	340.8
97.5°	4.5	151.2	293.4	302.5	291.2
100°	2.3	146.7	268.6	268.6	257.3
102.5°	2.3	142.2	250.5	243.8	234.7
105°	2.3	137.7	237.0	230.2	218.9
107.5°	2.3	135.4	228.0	221.2	209.9
110°	2.3	130.9	221.2	214.4	205.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	128.7	216.7	212.2	200.9
115°	2.3	124.1	209.9	207.7	200.9
117.5°	2.3	119.6	205.4	205.4	198.6
120°	2.3	115.1	198.6	203.1	196.4
122.5°	2.3	110.6	191.9	198.6	191.9
125°	2.3	106.1	185.1	194.1	189.6
127.5°	4.5	99.3	176.1	189.6	185.1
130°	2.3	92.5	167.0	185.1	182.8
132.5°	4.5	85.8	158.0	178.3	178.3
135°	4.5	79.0	146.7	171.5	171.5
137.5°	4.5	70.0	135.4	162.5	164.8
140°	4.5	63.2	124.1	153.5	158.0
142.5°	4.5	56.4	112.9	144.5	151.2
145°	4.5	49.7	101.6	133.2	142.2
147.5°	4.5	45.1	90.3	119.6	133.2
150°	4.5	38.4	81.3	108.3	121.9
152.5°	4.5	33.9	72.2	97.1	112.9
155°	4.5	31.6	63.2	83.5	101.6
157.5°	4.5	27.1	54.2	72.2	90.3
160°	4.5	22.6	45.1	63.2	76.7
162.5°	4.5	20.3	38.4	51.9	67.7
165°	4.5	18.1	31.6	40.6	54.2
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)