

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: **8ILED-LD5-18-W-ASY-UNV-L835-CD2-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 (P34179)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-18-W-ASY-UNV-L835-CD2-U  
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

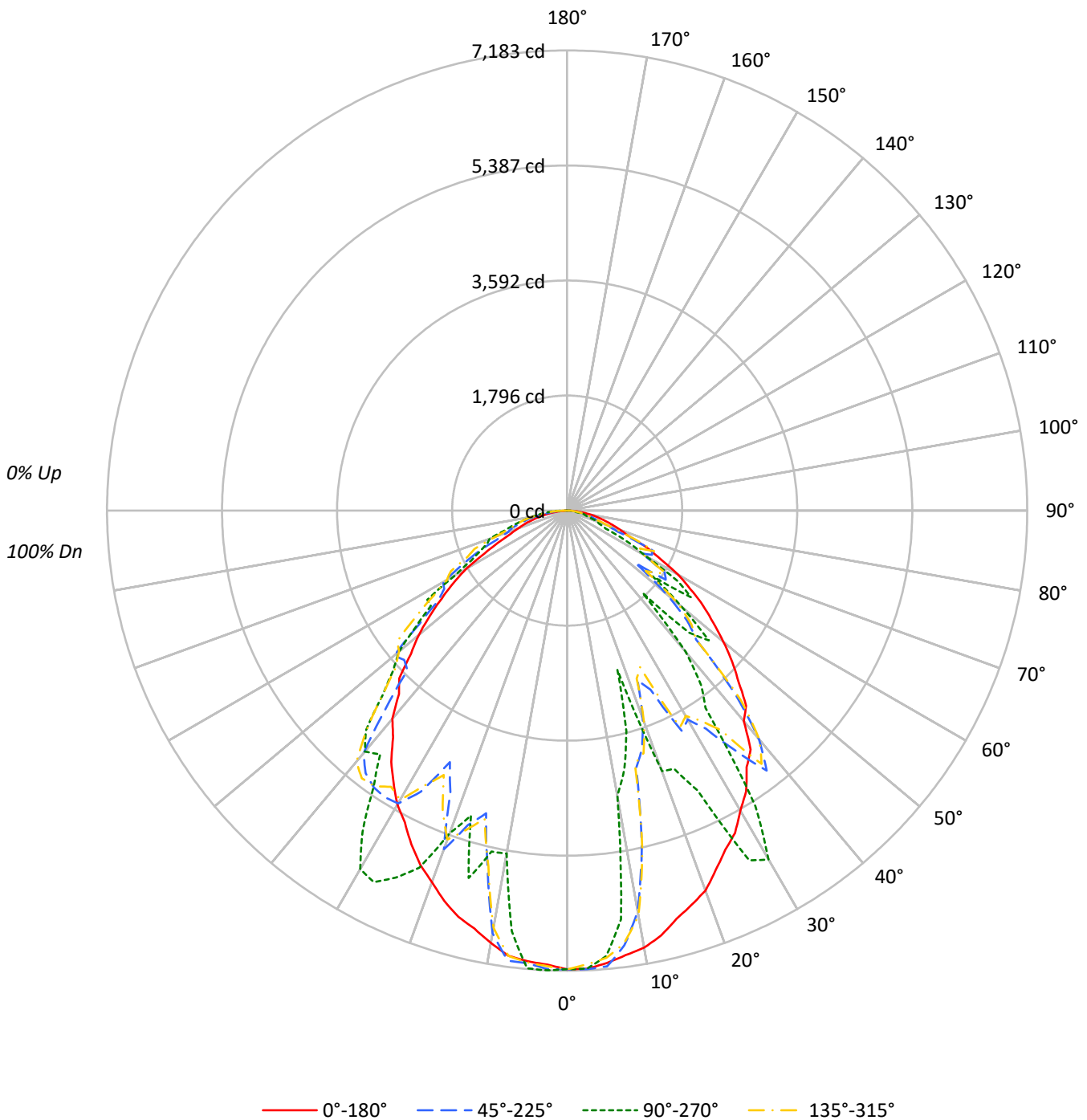
Lumens per Lamp: N/A  
Luminaire Lumens: 14102.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 131.3  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28

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

	0°	90°	180°	270°
0°	10511	10511	10511	10511
5°	10435	10191	10396	10469
10°	10305	6611	10192	7953
15°	9992	5266	9940	8768
20°	9814	6502	9594	8046
25°	9405	7430	9259	9739
30°	9098	10025	8917	10301
35°	8681	6263	8503	8765
40°	8128	5041	8045	8621
45°	7763	5041	7593	7617
50°	7158	4694	6807	6922
55°	6520	5224	6005	5748
60°	5742	3434	5216	4964
65°	4663	1868	4044	4196
70°	3664	1635	3381	4246
75°	3279	1209	3001	3461
80°	3004	841	2523	2828
85°	2660	622	1726	2323



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	651.6	4.6
10°-20°	1513.4	10.7
20°-30°	2252.7	16.0
30°-40°	2841.0	20.1
40°-50°	2573.1	18.2
50°-60°	2139.4	15.2
60°-70°	1292.5	9.2
70°-80°	641.0	4.5
80°-90°	197.3	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4417.7	31.3
0°-40°	7258.8	51.5
0°-60°	11971.2	84.9
0°-90°	14102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14102.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	7161	7161	7161	7161	7161	
5°	7090	6983	7063	7173	7090	671
15°	6597	3567	6563	5938	6597	1866
25°	5841	4821	5751	6319	5841	2701
35°	4887	3762	4787	5265	4887	3071
45°	3787	2694	3704	4070	3787	2921
55°	2594	2359	2389	2596	2594	2308
65°	1378	664	1196	1491	1378	1355
75°	605	300	554	859	605	649
85°	180	83	117	310	180	200
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	7160.8	7160.8	7160.8	7160.8	7160.8	7160.8	7160.8	7160.8	7160.8	7160.8	7160.8
2.5°	7158.4	7199.9	7165.7	7158.4	7156.0	7163.3	7090.1	7068.1	7092.5	7165.7	7163.3
5°	7090.1	7151.1	7141.3	7038.8	6982.7	7043.7	7009.6	7014.4	7063.2	7114.5	7090.1
7.5°	6999.8	7075.4	6846.1	6555.8	6436.2	6587.5	6811.9	6987.6	7009.6	7092.5	7087.6
10°	6929.1	6997.4	6348.4	5360.3	4521.0	5184.6	6416.7	6846.1	6853.4	6968.1	6699.7
12.5°	6790.0	6692.4	5389.5	4201.3	4130.6	4242.8	5426.1	6531.4	6685.1	6763.1	5728.7
15°	6597.2	6306.9	4162.3	3671.9	3567.0	3686.5	4089.1	6258.1	6563.1	6636.3	4891.8
17.5°	6453.3	5904.3	3886.6	3252.3	2608.2	3103.4	3969.6	6026.3	6387.4	6270.3	5148.0
20°	6311.8	5499.3	3452.3	3537.7	4328.2	3520.6	3506.0	5577.4	6170.3	5472.5	5626.2
22.5°	6067.8	4633.2	2861.9	4218.4	4362.4	4176.9	2839.9	4789.3	5987.3	4940.6	4760.1
25°	5840.9	3840.3	3083.9	4379.5	4821.1	4318.5	2693.5	3796.3	5750.6	4418.5	4330.7
27.5°	5672.6	3623.1	3881.7	5035.8	6155.6	4689.3	3813.4	3506.0	5487.1	4179.4	4947.9
30°	5406.6	3320.6	3767.1	6148.3	6287.4	6038.5	3701.2	3371.8	5299.3	4423.4	5277.3
32.5°	5196.8	2949.7	4037.9	5799.4	5470.0	5770.1	3886.6	3144.9	5043.1	4655.2	5304.1
35°	4886.9	2796.0	4569.8	5072.4	3762.2	4911.3	4181.8	2888.7	4786.9	4301.4	5267.5
37.5°	4703.9	2300.7	5116.3	3440.1	3437.7	3445.0	4984.5	2547.2	4460.0	3652.4	5167.5
40°	4286.7	2488.6	4660.0	3144.9	2871.7	3210.8	4672.2	2078.7	4242.8	3227.9	4943.0
42.5°	4135.5	2793.6	3879.3	2583.8	1742.0	2742.3	4018.4	2635.0	3886.6	3371.8	4194.0
45°	3786.6	2720.4	2852.1	1634.7	2693.5	1744.5	2839.9	2605.7	3703.6	3554.8	3525.5
47.5°	3493.8	2552.0	2539.8	2510.6	3001.0	2437.4	2632.6	2447.1	3305.9	3457.2	3449.9
50°	3181.5	2639.9	2025.0	2639.9	2322.7	2676.5	2251.9	2303.2	3025.4	3242.5	3523.1
52.5°	2871.7	2761.9	1329.7	1973.8	1683.5	2042.1	1546.8	2273.9	2703.3	3047.3	2910.7
55°	2593.5	2744.8	1878.7	1695.7	2359.3	1615.2	1695.7	2520.3	2388.6	2742.3	2452.0
57.5°	2281.2	2317.8	1807.9	2069.0	2042.1	2171.4	1817.7	2234.9	2110.4	2439.8	2276.3
60°	1998.2	1724.9	1329.7	1617.6	1390.7	1798.1	1354.1	1842.1	1815.2	1917.7	2234.9
62.5°	1637.1	1395.6	1493.2	1183.3	1090.6	1166.2	1280.9	1334.6	1451.7	1624.9	1854.3
65°	1378.5	1102.8	1471.2	753.9	663.6	883.2	1498.0	1178.4	1195.5	1471.2	1544.4
67.5°	1032.0	812.5	844.2	605.1	546.5	592.9	1054.0	912.5	958.8	1088.2	1190.6
70°	883.2	722.2	612.4	497.7	495.3	500.2	661.2	680.7	814.9	917.4	985.7
72.5°	736.8	595.3	488.0	409.9	370.9	451.4	483.1	561.2	690.5	1090.6	900.3
75°	605.1	688.0	395.2	336.7	300.1	329.4	387.9	509.9	553.8	678.3	736.8
77.5°	488.0	400.1	309.9	280.6	268.4	290.3	300.1	531.9	434.3	524.6	622.2
80°	380.6	297.7	241.5	187.9	161.0	183.0	239.1	270.8	319.6	390.4	463.6
82.5°	273.3	226.9	168.3	136.6	117.1	134.2	158.6	190.3	217.1	268.4	324.5
85°	180.5	148.8	119.6	97.6	83.0	95.2	107.4	119.6	117.1	161.0	207.4
87.5°	90.3	80.5	80.5	70.8	58.6	65.9	73.2	63.4	34.2	70.8	126.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	7160.8	7160.8	7160.8	7160.8	7160.8	7160.8
2.5°	7163.3	7182.8	7177.9	7116.9	7121.8	7158.4
5°	7112.0	7173.0	7158.4	7080.3	7075.4	7090.1
7.5°	6865.6	6621.6	6980.3	7012.0	6985.2	6999.8
10°	5601.8	5438.3	5853.1	6614.3	6931.5	6929.1
12.5°	5028.4	5453.0	5111.4	5687.2	6780.2	6790.0
15°	5733.5	5938.5	5814.1	4977.2	6609.4	6597.2
17.5°	5367.6	4991.8	5416.4	5221.2	6392.3	6453.3
20°	4786.9	5355.4	4843.0	5465.2	5631.1	6311.8
22.5°	5809.2	6033.6	5582.3	5072.4	5096.8	6067.8
25°	5953.1	6319.1	5840.9	4555.1	4643.0	5840.9
27.5°	6121.5	6538.7	6084.9	4840.6	4369.7	5672.6
30°	6192.2	6460.6	6304.5	5211.4	4455.1	5406.6
32.5°	6055.6	5948.3	6194.7	5113.8	4396.5	5196.8
35°	5345.6	5265.1	5640.8	5248.0	4342.9	4886.9
37.5°	4535.6	4794.2	4952.8	5267.5	3962.2	4703.9
40°	4467.3	4911.3	4574.6	5113.8	3628.0	4286.7
42.5°	4572.2	4647.8	4481.9	4628.3	3352.3	4135.5
45°	4067.2	4069.6	4338.0	4074.5	3381.6	3786.6
47.5°	3540.2	3676.8	3801.2	3630.4	3357.2	3493.8
50°	3108.3	3425.5	3408.4	3427.9	3127.8	3181.5
52.5°	3108.3	2976.6	3010.7	3335.2	2983.9	2871.7
55°	2644.8	2596.0	2818.0	2871.7	2866.8	2593.5
57.5°	2347.1	2588.6	2425.2	2471.5	2576.4	2281.2
60°	2083.6	2010.4	2322.7	2166.5	2283.7	1998.2
62.5°	1627.4	1690.8	1800.6	2047.0	1907.9	1637.1
65°	1393.1	1490.7	1559.0	1712.7	1544.4	1378.5
67.5°	1312.6	1354.1	1334.6	1568.8	1327.3	1032.0
70°	1154.0	1285.8	1197.9	1176.0	1095.5	883.2
72.5°	961.3	1002.8	1095.5	936.9	846.6	736.8
75°	819.8	858.8	866.1	810.0	832.0	605.1
77.5°	651.4	692.9	688.0	690.5	688.0	488.0
80°	512.4	541.6	541.6	529.4	463.6	380.6
82.5°	385.5	414.8	422.1	383.0	344.0	273.3
85°	275.7	309.9	307.4	273.3	226.9	180.5
87.5°	178.1	217.1	222.0	175.7	134.2	90.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)