

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-LD5-10-W-ASY-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 (P34179)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-ASY-UNV-L835-CD1-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

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

Summary

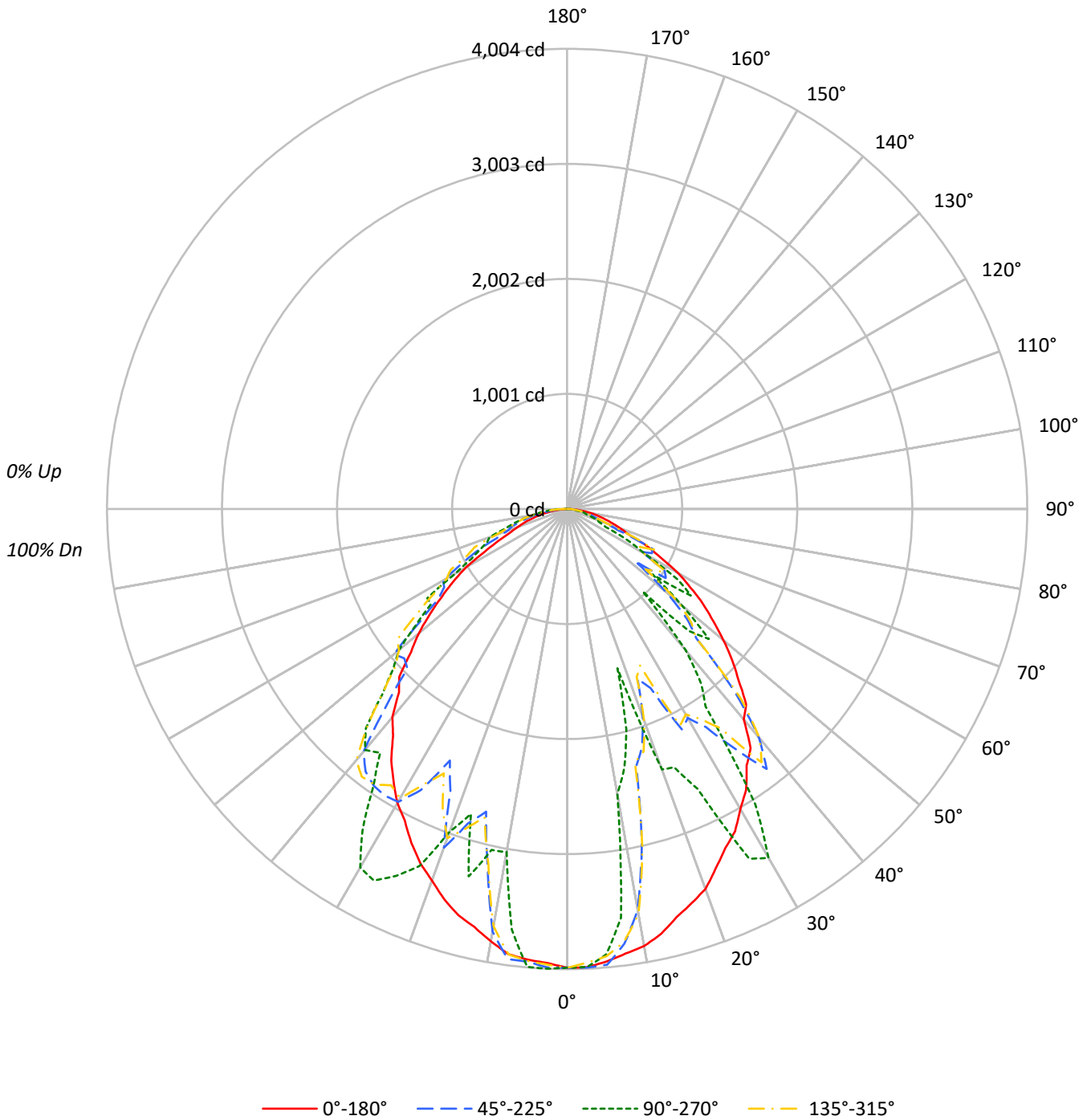
Lumens per Lamp: N/A
Luminaire Lumens: 7861.0 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
Input Voltage (V):
Input Current (A_{in}): 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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					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°	5859	5859	5859	5859
5°	5817	5681	5795	5836
10°	5744	3685	5682	4433
15°	5570	2936	5541	4887
20°	5471	3625	5348	4485
25°	5243	4142	5162	5429
30°	5072	5588	4971	5742
35°	4839	3491	4740	4886
40°	4531	2810	4485	4806
45°	4327	2810	4233	4246
50°	3990	2617	3795	3859
55°	3635	2912	3348	3204
60°	3201	1914	2908	2767
65°	2599	1041	2254	2339
70°	2043	912	1885	2366
75°	1828	674	1673	1929
80°	1675	469	1407	1577
85°	1482	346	962	1294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.2	4.6
10°-20°	843.6	10.7
20°-30°	1255.7	16.0
30°-40°	1583.7	20.1
40°-50°	1434.4	18.2
50°-60°	1192.6	15.2
60°-70°	720.5	9.2
70°-80°	357.3	4.5
80°-90°	110.0	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°	2462.6	31.3
0°-40°	4046.3	51.5
0°-60°	6673.2	84.9
0°-90°	7861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7861.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3992	3992	3992	3992	3992	
5°	3952	3892	3937	3998	3952	374
15°	3678	1988	3658	3310	3678	1040
25°	3256	2687	3206	3522	3256	1506
35°	2724	2097	2668	2935	2724	1712
45°	2111	1502	2064	2269	2111	1628
55°	1446	1315	1332	1447	1446	1287
65°	768	370	666	831	768	755
75°	337	167	309	479	337	362
85°	101	46	65	173	101	111
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°	3991.7	3991.7	3991.7	3991.7	3991.7	3991.7	3991.7	3991.7	3991.7	3991.7	3991.7
2.5°	3990.4	4013.5	3994.4	3990.4	3989.0	3993.1	3952.3	3940.0	3953.6	3994.4	3993.1
5°	3952.3	3986.3	3980.8	3923.7	3892.4	3926.4	3907.4	3910.1	3937.3	3965.9	3952.3
7.5°	3902.0	3944.1	3816.3	3654.4	3587.8	3672.1	3797.2	3895.2	3907.4	3953.6	3950.9
10°	3862.5	3900.6	3538.8	2988.0	2520.2	2890.1	3576.9	3816.3	3820.4	3884.3	3734.7
12.5°	3785.0	3730.6	3004.3	2342.0	2302.6	2365.1	3024.7	3640.8	3726.5	3770.0	3193.4
15°	3677.6	3515.7	2320.2	2046.9	1988.4	2055.0	2279.4	3488.5	3658.5	3699.3	2726.9
17.5°	3597.3	3291.3	2166.5	1812.9	1453.9	1730.0	2212.8	3359.3	3560.6	3495.3	2869.7
20°	3518.4	3065.5	1924.5	1972.1	2412.7	1962.5	1954.4	3109.1	3439.5	3050.6	3136.3
22.5°	3382.4	2582.7	1595.3	2351.5	2431.8	2328.4	1583.1	2669.8	3337.5	2754.1	2653.4
25°	3255.9	2140.7	1719.1	2441.3	2687.4	2407.3	1501.5	2116.2	3205.6	2463.0	2414.1
27.5°	3162.1	2019.7	2163.8	2807.1	3431.4	2614.0	2125.7	1954.4	3058.7	2329.8	2758.2
30°	3013.9	1851.0	2099.9	3427.3	3504.8	3366.1	2063.2	1879.6	2954.0	2465.8	2941.8
32.5°	2896.9	1644.3	2250.9	3232.8	3049.2	3216.5	2166.5	1753.1	2811.2	2595.0	2956.7
35°	2724.2	1558.6	2547.4	2827.5	2097.2	2737.8	2331.1	1610.3	2668.4	2397.8	2936.3
37.5°	2622.2	1282.5	2852.0	1917.7	1916.3	1920.4	2778.6	1419.9	2486.2	2036.0	2880.6
40°	2389.6	1387.2	2597.7	1753.1	1600.8	1789.8	2604.5	1158.8	2365.1	1799.3	2755.4
42.5°	2305.3	1557.2	2162.5	1440.3	971.1	1528.7	2240.0	1468.8	2166.5	1879.6	2337.9
45°	2110.8	1516.4	1589.9	911.2	1501.5	972.4	1583.1	1452.5	2064.5	1981.6	1965.3
47.5°	1947.6	1422.6	1415.8	1399.5	1672.9	1358.7	1467.5	1364.1	1842.9	1927.2	1923.1
50°	1773.5	1471.6	1128.8	1471.6	1294.8	1492.0	1255.3	1283.9	1686.5	1807.5	1963.9
52.5°	1600.8	1539.6	741.2	1100.3	938.4	1138.4	862.3	1267.6	1506.9	1698.7	1622.5
55°	1445.7	1530.0	1047.2	945.2	1315.2	900.3	945.2	1404.9	1331.5	1528.7	1366.8
57.5°	1271.6	1292.0	1007.8	1153.3	1138.4	1210.4	1013.2	1245.8	1176.4	1360.0	1268.9
60°	1113.9	961.6	741.2	901.7	775.2	1002.4	754.8	1026.8	1011.9	1069.0	1245.8
62.5°	912.6	777.9	832.3	659.6	607.9	650.1	714.0	743.9	809.2	905.8	1033.6
65°	768.4	614.7	820.1	420.3	369.9	492.3	835.1	656.9	666.4	820.1	860.9
67.5°	575.3	452.9	470.6	337.3	304.6	330.5	587.5	508.7	534.5	606.6	663.7
70°	492.3	402.6	341.4	277.4	276.1	278.8	368.6	379.5	454.3	511.4	549.5
72.5°	410.7	331.9	272.0	228.5	206.7	251.6	269.3	312.8	384.9	607.9	501.9
75°	337.3	383.5	220.3	187.7	167.3	183.6	216.2	284.2	308.7	378.1	410.7
77.5°	272.0	223.0	172.7	156.4	149.6	161.8	167.3	296.5	242.1	292.4	346.8
80°	212.2	165.9	134.6	104.7	89.8	102.0	133.3	151.0	178.2	217.6	258.4
82.5°	152.3	126.5	93.8	76.2	65.3	74.8	88.4	106.1	121.0	149.6	180.9
85°	100.6	83.0	66.6	54.4	46.2	53.0	59.8	66.6	65.3	89.8	115.6
87.5°	50.3	44.9	44.9	39.4	32.6	36.7	40.8	35.4	19.0	39.4	70.7
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°	3991.7	3991.7	3991.7	3991.7	3991.7	3991.7
2.5°	3993.1	4004.0	4001.2	3967.2	3970.0	3990.4
5°	3964.5	3998.5	3990.4	3946.8	3944.1	3952.3
7.5°	3827.2	3691.2	3891.1	3908.8	3893.8	3902.0
10°	3122.7	3031.5	3262.7	3687.1	3863.9	3862.5
12.5°	2803.0	3039.7	2849.3	3170.3	3779.6	3785.0
15°	3196.1	3310.3	3241.0	2774.5	3684.4	3677.6
17.5°	2992.1	2782.6	3019.3	2910.5	3563.3	3597.3
20°	2668.4	2985.3	2699.7	3046.5	3139.0	3518.4
22.5°	3238.3	3363.4	3111.8	2827.5	2841.1	3382.4
25°	3318.5	3522.5	3255.9	2539.2	2588.2	3255.9
27.5°	3412.3	3644.9	3391.9	2698.3	2435.8	3162.1
30°	3451.8	3601.4	3514.4	2905.1	2483.4	3013.9
32.5°	3375.6	3315.8	3453.1	2850.6	2450.8	2896.9
35°	2979.9	2935.0	3144.4	2925.5	2420.9	2724.2
37.5°	2528.3	2672.5	2760.9	2936.3	2208.7	2622.2
40°	2490.2	2737.8	2550.1	2850.6	2022.4	2389.6
42.5°	2548.7	2590.9	2498.4	2580.0	1868.7	2305.3
45°	2267.2	2268.6	2418.2	2271.3	1885.0	2110.8
47.5°	1973.4	2049.6	2118.9	2023.7	1871.4	1947.6
50°	1732.7	1909.5	1900.0	1910.9	1743.6	1773.5
52.5°	1732.7	1659.3	1678.3	1859.2	1663.3	1600.8
55°	1474.3	1447.1	1570.8	1600.8	1598.1	1445.7
57.5°	1308.4	1443.0	1351.9	1377.7	1436.2	1271.6
60°	1161.5	1120.7	1294.8	1207.7	1273.0	1113.9
62.5°	907.1	942.5	1003.7	1141.1	1063.6	912.6
65°	776.6	831.0	869.1	954.8	860.9	768.4
67.5°	731.7	754.8	743.9	874.5	739.9	575.3
70°	643.3	716.7	667.8	655.5	610.7	492.3
72.5°	535.9	559.0	610.7	522.3	471.9	410.7
75°	457.0	478.7	482.8	451.5	463.8	337.3
77.5°	363.1	386.3	383.5	384.9	383.5	272.0
80°	285.6	301.9	301.9	295.1	258.4	212.2
82.5°	214.9	231.2	235.3	213.5	191.8	152.3
85°	153.7	172.7	171.4	152.3	126.5	100.6
87.5°	99.3	121.0	123.8	97.9	74.8	50.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)