

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-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 (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-L850-CD1-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

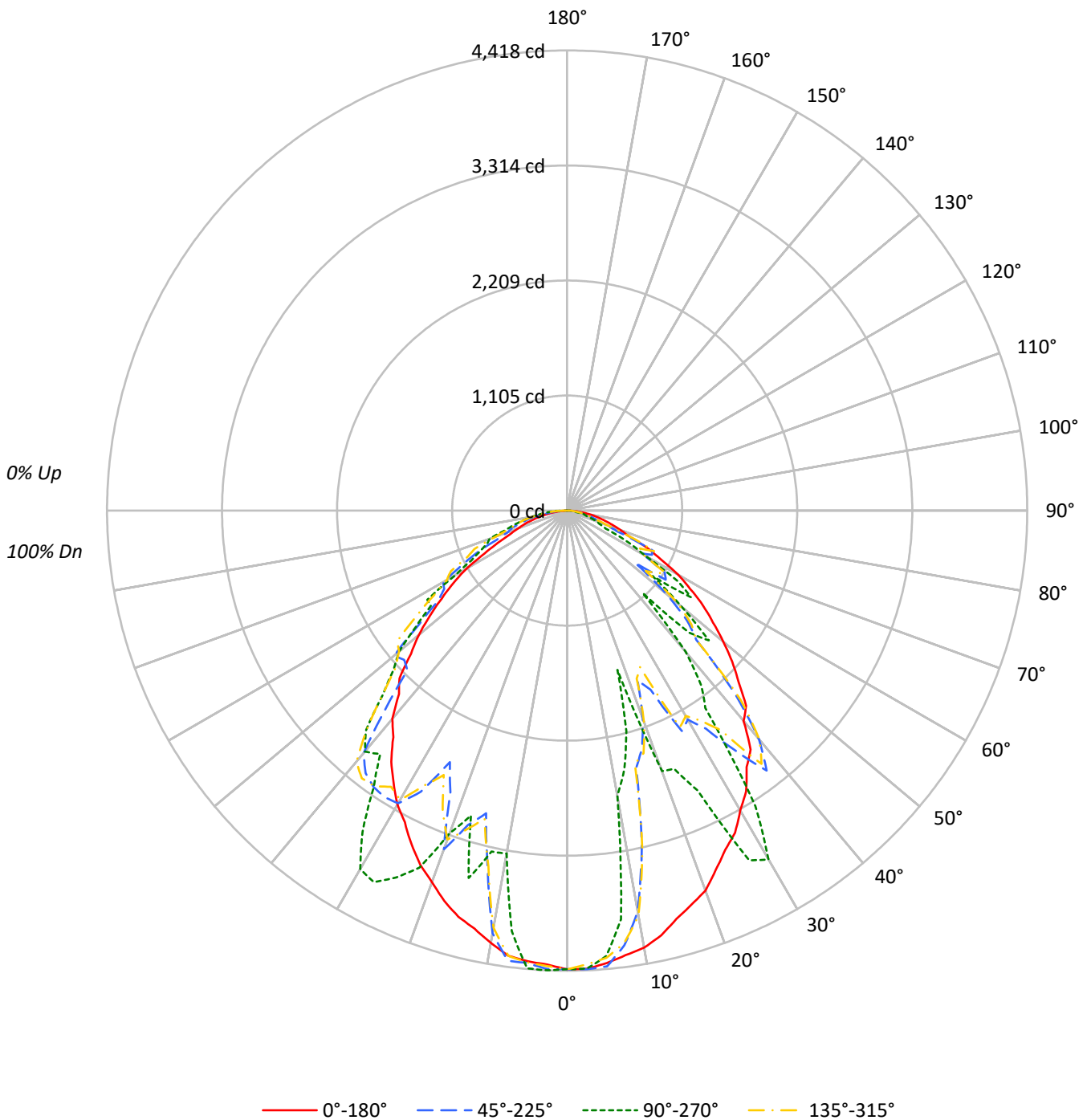
Lumens per Lamp: N/A
Luminaire Lumens: 8673.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	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				86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73				73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6464	6464	6464	6464
5°	6418	6268	6394	6439
10°	6338	4066	6268	4891
15°	6145	3239	6113	5392
20°	6036	3999	5901	4948
25°	5784	4570	5695	5990
30°	5595	6166	5484	6335
35°	5339	3852	5229	5390
40°	4999	3100	4948	5302
45°	4774	3101	4670	4684
50°	4403	2887	4187	4257
55°	4010	3213	3693	3535
60°	3531	2112	3208	3053
65°	2868	1149	2487	2580
70°	2254	1006	2080	2611
75°	2016	744	1846	2129
80°	1848	517	1552	1739
85°	1636	382	1061	1429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.8	4.6
10°-20°	930.8	10.7
20°-30°	1385.4	16.0
30°-40°	1747.3	20.1
40°-50°	1582.5	18.2
50°-60°	1315.7	15.2
60°-70°	794.9	9.2
70°-80°	394.2	4.5
80°-90°	121.3	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°	2717.0	31.3
0°-40°	4464.3	51.5
0°-60°	7362.5	84.9
0°-90°	8673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8673.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4404	4404	4404	4404	4404	
5°	4360	4294	4344	4412	4360	413
15°	4057	2194	4036	3652	4057	1148
25°	3592	2965	3537	3886	3592	1661
35°	3006	2314	2944	3238	3006	1888
45°	2329	1657	2278	2503	2329	1796
55°	1595	1451	1469	1597	1595	1420
65°	848	408	735	917	848	833
75°	372	185	341	528	372	399
85°	111	51	72	191	111	123
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°	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1
2.5°	4402.5	4428.1	4407.1	4402.5	4401.0	4405.6	4360.5	4347.0	4362.0	4407.1	4405.6
5°	4360.5	4398.0	4392.0	4329.0	4294.5	4332.0	4311.0	4314.0	4344.0	4375.5	4360.5
7.5°	4305.0	4351.5	4210.5	4031.9	3958.4	4051.4	4189.5	4297.5	4311.0	4362.0	4359.0
10°	4261.5	4303.5	3904.4	3296.7	2780.5	3188.6	3946.4	4210.5	4215.0	4285.5	4120.5
12.5°	4176.0	4115.9	3314.7	2583.9	2540.4	2609.4	3337.2	4016.9	4111.4	4159.5	3523.2
15°	4057.4	3878.9	2559.9	2258.3	2193.8	2267.3	2514.9	3848.9	4036.4	4081.4	3008.6
17.5°	3968.9	3631.3	2390.3	2000.2	1604.1	1908.7	2441.4	3706.3	3928.4	3856.4	3166.1
20°	3881.9	3382.2	2123.2	2175.8	2661.9	2165.3	2156.3	3430.2	3794.8	3365.7	3460.2
22.5°	3731.8	2849.5	1760.1	2594.4	2682.9	2568.9	1746.6	2945.5	3682.3	3038.6	2927.5
25°	3592.3	2361.8	1896.7	2693.4	2965.0	2655.9	1656.6	2334.8	3536.7	2717.5	2663.4
27.5°	3488.7	2228.3	2387.3	3097.1	3785.8	2884.0	2345.3	2156.3	3374.7	2570.4	3043.1
30°	3325.2	2042.2	2316.8	3781.3	3866.9	3713.8	2276.3	2073.7	3259.1	2720.5	3245.6
32.5°	3196.1	1814.1	2483.4	3566.8	3364.2	3548.7	2390.3	1934.2	3101.6	2863.0	3262.1
35°	3005.6	1719.6	2810.5	3119.6	2313.8	3020.6	2571.9	1776.6	2944.0	2645.4	3239.6
37.5°	2893.0	1415.0	3146.6	2115.7	2114.2	2118.7	3065.6	1566.6	2743.0	2246.3	3178.1
40°	2636.4	1530.5	2866.0	1934.2	1766.1	1974.7	2873.5	1278.4	2609.4	1985.2	3040.1
42.5°	2543.4	1718.1	2385.8	1589.1	1071.4	1686.6	2471.4	1620.6	2390.3	2073.7	2579.4
45°	2328.8	1673.1	1754.1	1005.4	1656.6	1072.9	1746.6	1602.6	2277.8	2186.3	2168.3
47.5°	2148.8	1569.6	1562.0	1544.0	1845.6	1499.0	1619.1	1505.0	2033.2	2126.2	2121.7
50°	1956.7	1623.6	1245.4	1623.6	1428.5	1646.1	1385.0	1416.5	1860.7	1994.2	2166.8
52.5°	1766.1	1698.6	817.8	1213.9	1035.4	1255.9	951.3	1398.5	1662.6	1874.2	1790.1
55°	1595.1	1688.1	1155.4	1042.9	1451.0	993.3	1042.9	1550.0	1469.0	1686.6	1508.0
57.5°	1403.0	1425.5	1111.9	1272.4	1255.9	1335.5	1117.9	1374.5	1298.0	1500.5	1400.0
60°	1228.9	1060.9	817.8	994.9	855.3	1105.9	832.8	1132.9	1116.4	1179.4	1374.5
62.5°	1006.9	858.3	918.3	727.8	670.7	717.3	787.8	820.8	892.8	999.4	1140.4
65°	847.8	678.2	904.8	463.7	408.1	543.2	921.3	724.8	735.3	904.8	949.8
67.5°	634.7	499.7	519.2	372.1	336.1	364.6	648.2	561.2	589.7	669.2	732.3
70°	543.2	444.2	376.6	306.1	304.6	307.6	406.6	418.6	501.2	564.2	606.2
72.5°	453.2	366.1	300.1	252.1	228.1	277.6	297.1	345.1	424.6	670.7	553.7
75°	372.1	423.1	243.1	207.1	184.6	202.6	238.6	313.6	340.6	417.1	453.2
77.5°	300.1	246.1	190.6	172.6	165.1	178.6	184.6	327.1	267.1	322.6	382.6
80°	234.1	183.1	148.6	115.5	99.0	112.5	147.1	166.6	196.6	240.1	285.1
82.5°	168.1	139.5	103.5	84.0	72.0	82.5	97.5	117.0	133.5	165.1	199.6
85°	111.0	91.5	73.5	60.0	51.0	58.5	66.0	73.5	72.0	99.0	127.5
87.5°	55.5	49.5	49.5	43.5	36.0	40.5	45.0	39.0	21.0	43.5	78.0
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°	4404.1	4404.1	4404.1	4404.1	4404.1	4404.1
2.5°	4405.6	4417.6	4414.6	4377.0	4380.0	4402.5
5°	4374.0	4411.6	4402.5	4354.5	4351.5	4360.5
7.5°	4222.5	4072.4	4293.0	4312.5	4296.0	4305.0
10°	3445.2	3344.7	3599.8	4067.9	4263.0	4261.5
12.5°	3092.6	3353.7	3143.6	3497.7	4170.0	4176.0
15°	3526.2	3652.3	3575.8	3061.1	4064.9	4057.4
17.5°	3301.2	3070.1	3331.2	3211.1	3931.4	3968.9
20°	2944.0	3293.7	2978.5	3361.2	3463.2	3881.9
22.5°	3572.8	3710.8	3433.2	3119.6	3134.6	3731.8
25°	3661.3	3886.4	3592.3	2801.5	2855.5	3592.3
27.5°	3764.8	4021.4	3742.3	2977.0	2687.4	3488.7
30°	3808.3	3973.4	3877.4	3205.1	2740.0	3325.2
32.5°	3724.3	3658.3	3809.8	3145.1	2704.0	3196.1
35°	3287.7	3238.1	3469.2	3227.6	2670.9	3005.6
37.5°	2789.5	2948.5	3046.1	3239.6	2436.9	2893.0
40°	2747.5	3020.6	2813.5	3145.1	2231.3	2636.4
42.5°	2812.0	2858.5	2756.5	2846.5	2061.7	2543.4
45°	2501.4	2502.9	2667.9	2505.9	2079.7	2328.8
47.5°	2177.3	2261.3	2337.8	2232.8	2064.7	2148.8
50°	1911.7	2106.7	2096.2	2108.2	1923.7	1956.7
52.5°	1911.7	1830.6	1851.7	2051.2	1835.1	1766.1
55°	1626.6	1596.6	1733.1	1766.1	1763.1	1595.1
57.5°	1443.5	1592.1	1491.5	1520.0	1584.6	1403.0
60°	1281.5	1236.4	1428.5	1332.5	1404.5	1228.9
62.5°	1000.9	1039.9	1107.4	1258.9	1173.4	1006.9
65°	856.8	916.8	958.8	1053.4	949.8	847.8
67.5°	807.3	832.8	820.8	964.8	816.3	634.7
70°	709.7	790.8	736.8	723.3	673.7	543.2
72.5°	591.2	616.7	673.7	576.2	520.7	453.2
75°	504.2	528.2	532.7	498.2	511.7	372.1
77.5°	400.6	426.1	423.1	424.6	423.1	300.1
80°	315.1	333.1	333.1	325.6	285.1	234.1
82.5°	237.1	255.1	259.6	235.6	211.6	168.1
85°	169.6	190.6	189.1	168.1	139.5	111.0
87.5°	109.5	133.5	136.5	108.0	82.5	55.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)