

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-LD5-14-W-ASY-UNV-L840-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-LD5-14-W-ASY-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

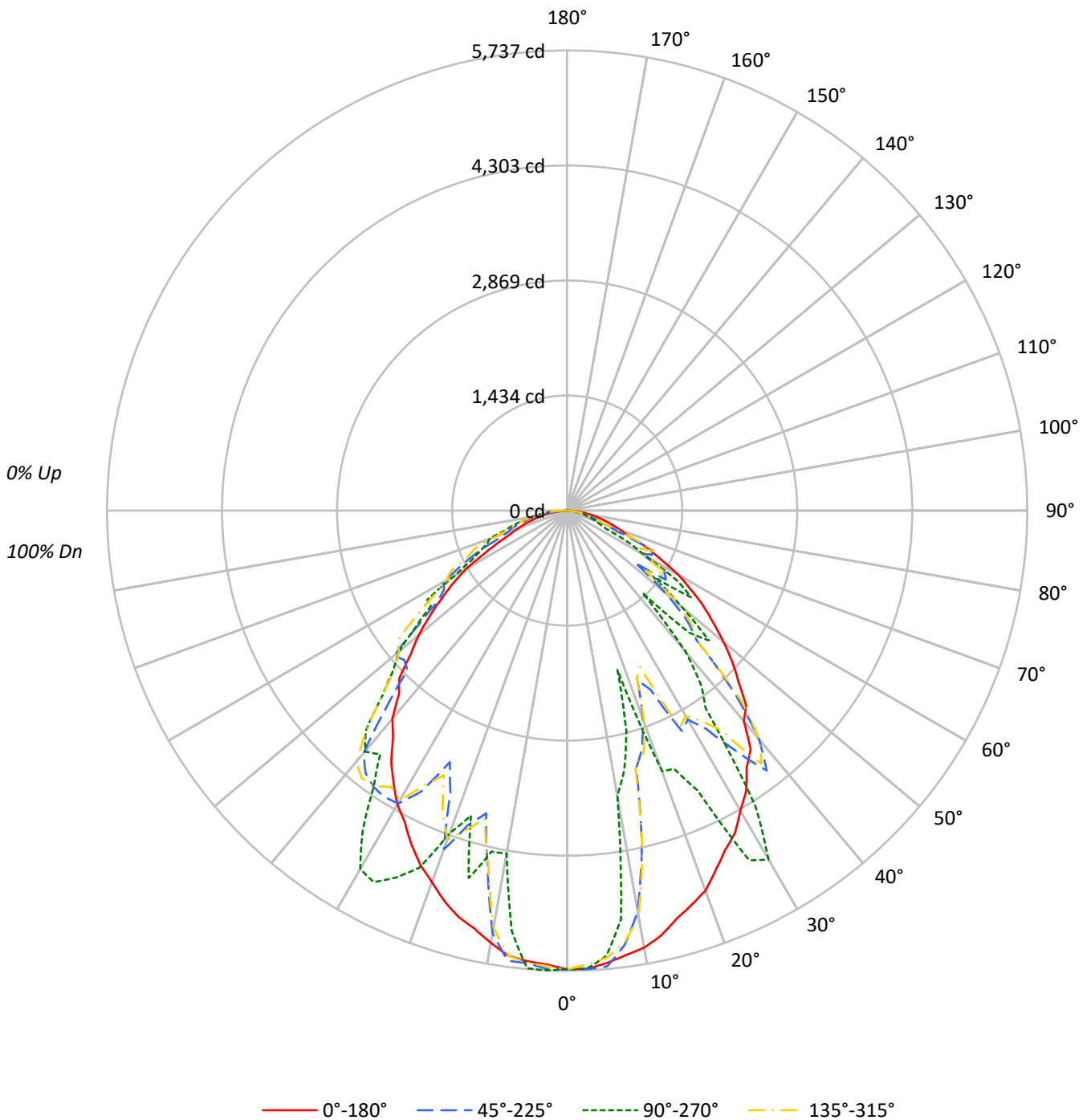
Lumens per Lamp: N/A
Luminaire Lumens: 11263.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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					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°	8395	8395	8395	8395
5°	8334	8140	8303	8361
10°	8230	5280	8140	6352
15°	7980	4206	7939	7003
20°	7839	5193	7663	6426
25°	7511	5934	7395	7778
30°	7266	8007	7122	8227
35°	6933	5002	6791	7000
40°	6492	4026	6426	6886
45°	6200	4026	6064	6083
50°	5717	3749	5437	5529
55°	5208	4172	4796	4590
60°	4586	2742	4166	3965
65°	3724	1492	3230	3351
70°	2927	1306	2700	3391
75°	2619	966	2397	2764
80°	2400	672	2015	2259
85°	2125	497	1378	1855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.5	4.6
10°-20°	1208.7	10.7
20°-30°	1799.2	16.0
30°-40°	2269.1	20.1
40°-50°	2055.1	18.2
50°-60°	1708.7	15.2
60°-70°	1032.3	9.2
70°-80°	512.0	4.5
80°-90°	157.6	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°	3528.4	31.3
0°-40°	5797.4	51.5
0°-60°	9561.2	84.9
0°-90°	11263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11263.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5719	5719	5719	5719	5719	
5°	5663	5577	5641	5729	5663	536
15°	5269	2849	5242	4743	5269	1490
25°	4665	3850	4593	5047	4665	2157
35°	3903	3005	3823	4205	3903	2452
45°	3024	2151	2958	3250	3024	2333
55°	2071	1884	1908	2073	2071	1844
65°	1101	530	955	1191	1101	1082
75°	483	240	442	686	483	518
85°	144	66	94	248	144	160
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°	5719.2	5719.2	5719.2	5719.2	5719.2	5719.2	5719.2	5719.2	5719.2	5719.2	5719.2
2.5°	5717.3	5750.4	5723.1	5717.3	5715.3	5721.2	5662.7	5645.2	5664.7	5723.1	5721.2
5°	5662.7	5711.4	5703.6	5621.8	5577.0	5625.7	5598.4	5602.3	5641.3	5682.2	5662.7
7.5°	5590.6	5651.0	5467.8	5236.0	5140.5	5261.3	5440.6	5580.9	5598.4	5664.7	5660.8
10°	5534.1	5588.7	5070.3	4281.1	3610.8	4140.8	5124.9	5467.8	5473.7	5565.3	5350.9
12.5°	5423.0	5345.1	4304.5	3355.5	3299.0	3388.7	4333.7	5216.5	5339.2	5401.6	4575.4
15°	5269.1	5037.2	3324.4	2932.7	2848.9	2944.4	3265.9	4998.2	5241.8	5300.3	3907.0
17.5°	5154.1	4715.7	3104.2	2597.5	2083.1	2478.7	3170.4	4813.1	5101.5	5008.0	4111.6
20°	5041.1	4392.2	2757.3	2825.5	3456.9	2811.9	2800.2	4454.6	4928.1	4370.8	4493.5
22.5°	4846.2	3700.4	2285.7	3369.2	3484.1	3336.1	2268.2	3825.2	4781.9	3946.0	3801.8
25°	4665.0	3067.1	2463.1	3497.8	3850.5	3449.1	2151.3	3032.1	4592.9	3529.0	3458.8
27.5°	4530.6	2893.7	3100.3	4022.0	4916.4	3745.3	3045.7	2800.2	4382.5	3338.0	3951.8
30°	4318.2	2652.1	3008.7	4910.5	5021.6	4822.9	2956.1	2693.0	4232.4	3532.9	4214.9
32.5°	4150.6	2355.9	3225.0	4631.9	4368.8	4608.5	3104.2	2511.8	4027.8	3718.0	4236.3
35°	3903.1	2233.1	3649.8	4051.2	3004.8	3922.6	3339.9	2307.2	3823.2	3435.4	4207.1
37.5°	3757.0	1837.6	4086.3	2747.6	2745.6	2751.5	3981.0	2034.4	3562.1	2917.1	4127.2
40°	3423.7	1987.6	3721.9	2511.8	2293.5	2564.4	3731.6	1660.2	3388.7	2578.0	3947.9
42.5°	3302.9	2231.2	3098.3	2063.6	1391.3	2190.3	3209.4	2104.5	3104.2	2693.0	3349.7
45°	3024.3	2172.7	2277.9	1305.6	2151.3	1393.3	2268.2	2081.1	2958.0	2839.2	2815.8
47.5°	2790.4	2038.3	2028.5	2005.1	2396.8	1946.7	2102.6	1954.5	2640.4	2761.2	2755.4
50°	2541.0	2108.4	1617.4	2108.4	1855.1	2137.6	1798.6	1839.5	2416.3	2589.7	2813.8
52.5°	2293.5	2205.8	1062.0	1576.4	1344.6	1631.0	1235.4	1816.1	2159.1	2433.8	2324.7
55°	2071.4	2192.2	1500.4	1354.3	1884.3	1290.0	1354.3	2012.9	1907.7	2190.3	1958.4
57.5°	1822.0	1851.2	1443.9	1652.4	1631.0	1734.3	1451.7	1784.9	1685.6	1948.6	1818.1
60°	1595.9	1377.7	1062.0	1291.9	1110.7	1436.1	1081.5	1471.2	1449.8	1531.6	1784.9
62.5°	1307.5	1114.6	1192.6	945.1	871.0	931.4	1023.0	1065.9	1159.4	1297.8	1481.0
65°	1101.0	880.8	1175.0	602.1	530.0	705.4	1196.5	941.2	954.8	1175.0	1233.5
67.5°	824.3	648.9	674.2	483.3	436.5	473.5	841.8	728.8	765.8	869.1	950.9
70°	705.4	576.8	489.1	397.5	395.6	399.5	528.1	543.7	650.8	732.7	787.2
72.5°	588.5	475.5	389.7	327.4	296.2	360.5	385.8	448.2	551.5	871.0	719.0
75°	483.3	549.5	315.7	268.9	239.7	263.1	309.8	407.3	442.3	541.7	588.5
77.5°	389.7	319.6	247.5	224.1	214.3	231.9	239.7	424.8	346.9	419.0	496.9
80°	304.0	237.7	192.9	150.0	128.6	146.1	191.0	216.3	255.3	311.8	370.2
82.5°	218.2	181.2	134.5	109.1	93.5	107.2	126.7	152.0	173.4	214.3	259.2
85°	144.2	118.9	95.5	77.9	66.3	76.0	85.7	95.5	93.5	128.6	165.6
87.5°	72.1	64.3	64.3	56.5	46.8	52.6	58.5	50.7	27.3	56.5	101.3
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°	5719.2	5719.2	5719.2	5719.2	5719.2	5719.2
2.5°	5721.2	5736.8	5732.9	5684.1	5688.0	5717.3
5°	5680.2	5729.0	5717.3	5654.9	5651.0	5662.7
7.5°	5483.4	5288.6	5575.0	5600.4	5578.9	5590.6
10°	4474.0	4343.5	4674.8	5282.7	5536.1	5534.1
12.5°	4016.1	4355.2	4082.4	4542.3	5415.2	5423.0
15°	4579.3	4743.0	4643.6	3975.2	5278.8	5269.1
17.5°	4287.0	3986.9	4326.0	4170.1	5105.4	5154.1
20°	3823.2	4277.2	3868.0	4364.9	4497.4	5041.1
22.5°	4639.7	4819.0	4458.5	4051.2	4070.7	4846.2
25°	4754.7	5046.9	4665.0	3638.1	3708.2	4665.0
27.5°	4889.1	5222.3	4859.9	3866.1	3490.0	4530.6
30°	4945.6	5160.0	5035.3	4162.3	3558.2	4318.2
32.5°	4836.5	4750.8	4947.6	4084.3	3511.4	4150.6
35°	4269.4	4205.1	4505.2	4191.5	3468.6	3903.1
37.5°	3622.5	3829.1	3955.7	4207.1	3164.6	3757.0
40°	3567.9	3922.6	3653.7	4084.3	2897.6	3423.7
42.5°	3651.7	3712.1	3579.6	3696.5	2677.4	3302.9
45°	3248.4	3250.3	3464.7	3254.2	2700.8	3024.3
47.5°	2827.5	2936.6	3036.0	2899.6	2681.3	2790.4
50°	2482.6	2735.9	2722.2	2737.8	2498.1	2541.0
52.5°	2482.6	2377.3	2404.6	2663.8	2383.2	2293.5
55°	2112.3	2073.3	2250.7	2293.5	2289.6	2071.4
57.5°	1874.6	2067.5	1936.9	1974.0	2057.8	1822.0
60°	1664.1	1605.7	1855.1	1730.4	1823.9	1595.9
62.5°	1299.7	1350.4	1438.1	1634.9	1523.8	1307.5
65°	1112.7	1190.6	1245.2	1367.9	1233.5	1101.0
67.5°	1048.4	1081.5	1065.9	1253.0	1060.1	824.3
70°	921.7	1026.9	956.8	939.2	874.9	705.4
72.5°	767.8	800.9	874.9	748.3	676.2	588.5
75°	654.7	685.9	691.8	646.9	664.5	483.3
77.5°	520.3	553.4	549.5	551.5	549.5	389.7
80°	409.2	432.6	432.6	422.9	370.2	304.0
82.5°	307.9	331.3	337.1	305.9	274.8	218.2
85°	220.2	247.5	245.5	218.2	181.2	144.2
87.5°	142.2	173.4	177.3	140.3	107.2	72.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)