

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-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-LD5-14-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

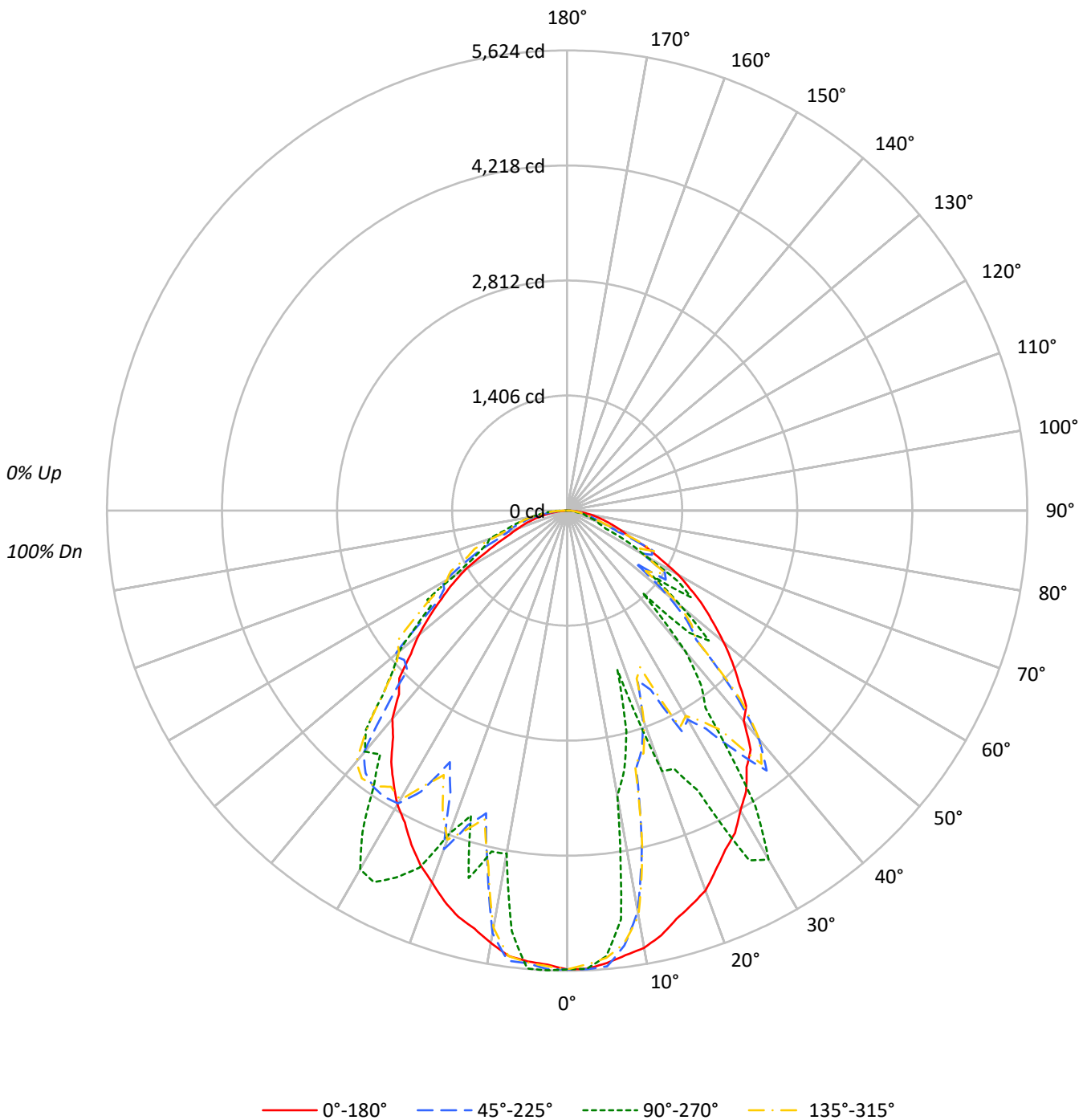
Lumens per Lamp: N/A
Luminaire Lumens: 11042.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	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°	8230	8230	8230	8230
5°	8171	7980	8140	8197
10°	8069	5177	7981	6227
15°	7824	4124	7783	6865
20°	7685	5091	7512	6300
25°	7364	5818	7250	7625
30°	7124	7850	6982	8066
35°	6797	4904	6658	6863
40°	6365	3947	6300	6751
45°	6079	3947	5945	5964
50°	5605	3675	5330	5420
55°	5106	4090	4702	4501
60°	4496	2689	4084	3887
65°	3651	1462	3166	3285
70°	2870	1280	2648	3324
75°	2567	947	2350	2710
80°	2352	658	1976	2215
85°	2084	487	1351	1818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.2	4.6
10°-20°	1185.0	10.7
20°-30°	1763.9	16.0
30°-40°	2224.6	20.1
40°-50°	2014.8	18.2
50°-60°	1675.1	15.2
60°-70°	1012.0	9.2
70°-80°	501.9	4.5
80°-90°	154.5	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°	3459.1	31.3
0°-40°	5683.7	51.5
0°-60°	9373.6	84.9
0°-90°	11042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11042.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5607	5607	5607	5607	5607	
5°	5552	5468	5531	5617	5552	526
15°	5166	2793	5139	4650	5166	1461
25°	4574	3775	4503	4948	4574	2115
35°	3826	2946	3748	4123	3826	2404
45°	2965	2109	2900	3186	2965	2287
55°	2031	1847	1870	2033	2031	1807
65°	1079	520	936	1167	1079	1061
75°	474	235	434	672	474	508
85°	141	65	92	243	141	156
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°	5607.0	5607.0	5607.0	5607.0	5607.0	5607.0	5607.0	5607.0	5607.0	5607.0	5607.0
2.5°	5605.1	5637.6	5610.8	5605.1	5603.2	5608.9	5551.6	5534.4	5553.5	5610.8	5608.9
5°	5551.6	5599.4	5591.7	5511.5	5467.5	5515.3	5488.6	5492.4	5530.6	5570.7	5551.6
7.5°	5480.9	5540.1	5360.6	5133.2	5039.6	5158.1	5333.8	5471.4	5488.6	5553.5	5549.7
10°	5425.5	5479.0	4970.8	4197.1	3540.0	4059.6	5024.3	5360.6	5366.3	5456.1	5245.9
12.5°	5316.6	5240.2	4220.1	3289.7	3234.3	3322.2	4248.7	5114.1	5234.5	5295.6	4485.6
15°	5165.7	4938.4	3259.1	2875.1	2793.0	2886.6	3201.8	4900.2	5139.0	5196.3	3830.3
17.5°	5053.0	4623.1	3043.3	2546.6	2042.2	2430.0	3108.2	4718.7	5001.4	4909.7	4030.9
20°	4942.2	4306.0	2703.2	2770.1	3389.0	2756.7	2745.2	4367.2	4831.4	4285.0	4405.4
22.5°	4751.1	3627.8	2240.9	3303.1	3415.8	3270.6	2223.7	3750.1	4688.1	3868.5	3727.2
25°	4573.5	3007.0	2414.7	3429.2	3774.9	3381.4	2109.1	2972.6	4502.8	3459.7	3390.9
27.5°	4441.7	2836.9	3039.4	3943.0	4819.9	3671.8	2985.9	2745.2	4296.5	3272.5	3874.3
30°	4233.4	2600.0	2949.6	4814.2	4923.1	4728.2	2898.1	2640.2	4149.4	3463.5	4132.2
32.5°	4069.1	2309.7	3161.7	4541.0	4283.1	4518.1	3043.3	2462.5	3948.8	3645.0	4153.2
35°	3826.5	2189.3	3578.2	3971.7	2945.8	3845.6	3274.4	2261.9	3748.2	3368.0	4124.5
37.5°	3683.2	1801.5	4006.1	2693.7	2691.7	2697.5	3902.9	1994.4	3492.2	2859.9	4046.2
40°	3356.6	1948.6	3648.8	2462.5	2248.5	2514.1	3658.4	1627.7	3322.2	2527.4	3870.5
42.5°	3238.1	2187.4	3037.5	2023.1	1364.0	2147.3	3146.4	2063.2	3043.3	2640.2	3284.0
45°	2964.9	2130.1	2233.2	1280.0	2109.1	1365.9	2223.7	2040.3	2900.0	2783.4	2760.5
47.5°	2735.7	1998.3	1988.7	1965.8	2349.8	1908.5	2061.3	1916.1	2588.6	2707.0	2701.3
50°	2491.2	2067.0	1585.6	2067.0	1818.7	2095.7	1763.3	1803.4	2368.9	2538.9	2758.6
52.5°	2248.5	2162.6	1041.2	1545.5	1318.2	1599.0	1211.2	1780.5	2116.7	2386.1	2279.1
55°	2030.7	2149.2	1471.0	1327.7	1847.3	1264.7	1327.7	1973.4	1870.3	2147.3	1919.9
57.5°	1786.2	1814.9	1415.6	1620.0	1599.0	1700.2	1423.2	1749.9	1652.5	1910.4	1782.4
60°	1564.6	1350.6	1041.2	1266.6	1088.9	1408.0	1060.3	1442.3	1421.3	1501.6	1749.9
62.5°	1281.9	1092.7	1169.2	926.5	853.9	913.2	1003.0	1045.0	1136.7	1272.3	1451.9
65°	1079.4	863.5	1152.0	590.3	519.6	691.6	1173.0	922.7	936.1	1152.0	1209.3
67.5°	808.1	636.2	661.0	473.8	427.9	464.2	825.3	714.5	750.8	852.0	932.3
70°	691.6	565.5	479.5	389.7	387.8	391.6	517.7	533.0	638.1	718.3	771.8
72.5°	576.9	466.1	382.1	320.9	290.4	353.4	378.3	439.4	540.6	853.9	704.9
75°	473.8	538.7	309.5	263.6	235.0	257.9	303.8	399.3	433.7	531.1	576.9
77.5°	382.1	313.3	242.6	219.7	210.1	227.3	235.0	416.5	340.0	410.7	487.2
80°	298.0	233.1	189.1	147.1	126.1	143.3	187.2	212.1	250.3	305.7	363.0
82.5°	214.0	177.7	131.8	107.0	91.7	105.1	124.2	149.0	170.0	210.1	254.1
85°	141.4	116.5	93.6	76.4	65.0	74.5	84.1	93.6	91.7	126.1	162.4
87.5°	70.7	63.0	63.0	55.4	45.8	51.6	57.3	49.7	26.7	55.4	99.3
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°	5607.0	5607.0	5607.0	5607.0	5607.0	5607.0
2.5°	5608.9	5624.2	5620.4	5572.6	5576.4	5605.1
5°	5568.8	5616.6	5605.1	5544.0	5540.1	5551.6
7.5°	5375.8	5184.8	5465.6	5490.5	5469.5	5480.9
10°	4386.3	4258.3	4583.0	5179.1	5427.4	5425.5
12.5°	3937.3	4269.7	4002.3	4453.1	5309.0	5316.6
15°	4489.4	4649.9	4552.5	3897.2	5175.3	5165.7
17.5°	4202.9	3908.7	4241.1	4088.2	5005.2	5053.0
20°	3748.2	4193.3	3792.1	4279.3	4409.2	4942.2
22.5°	4548.6	4724.4	4371.0	3971.7	3990.8	4751.1
25°	4661.4	4947.9	4573.5	3566.7	3635.5	4573.5
27.5°	4793.2	5119.9	4764.5	3790.2	3421.5	4441.7
30°	4848.6	5058.7	4936.5	4080.6	3488.4	4233.4
32.5°	4741.6	4657.5	4850.5	4004.2	3442.5	4069.1
35°	4185.7	4122.6	4416.8	4109.3	3400.5	3826.5
37.5°	3551.4	3753.9	3878.1	4124.5	3102.5	3683.2
40°	3497.9	3845.6	3582.0	4004.2	2840.8	3356.6
42.5°	3580.1	3639.3	3509.4	3624.0	2624.9	3238.1
45°	3184.6	3186.5	3396.7	3190.4	2647.8	2964.9
47.5°	2772.0	2879.0	2976.4	2842.7	2628.7	2735.7
50°	2433.8	2682.2	2668.8	2684.1	2449.1	2491.2
52.5°	2433.8	2330.7	2357.4	2611.5	2336.4	2248.5
55°	2070.9	2032.7	2206.5	2248.5	2244.7	2030.7
57.5°	1837.8	2026.9	1898.9	1935.2	2017.4	1786.2
60°	1631.5	1574.2	1818.7	1696.4	1788.1	1564.6
62.5°	1274.2	1323.9	1409.9	1602.8	1493.9	1281.9
65°	1090.8	1167.2	1220.7	1341.1	1209.3	1079.4
67.5°	1027.8	1060.3	1045.0	1228.4	1039.3	808.1
70°	903.6	1006.8	938.0	920.8	857.8	691.6
72.5°	752.7	785.2	857.8	733.6	662.9	576.9
75°	641.9	672.5	678.2	634.3	651.4	473.8
77.5°	510.1	542.6	538.7	540.6	538.7	382.1
80°	401.2	424.1	424.1	414.6	363.0	298.0
82.5°	301.8	324.8	330.5	299.9	269.4	214.0
85°	215.9	242.6	240.7	214.0	177.7	141.4
87.5°	139.5	170.0	173.8	137.5	105.1	70.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)