

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-LD5-22-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-LD5-22-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

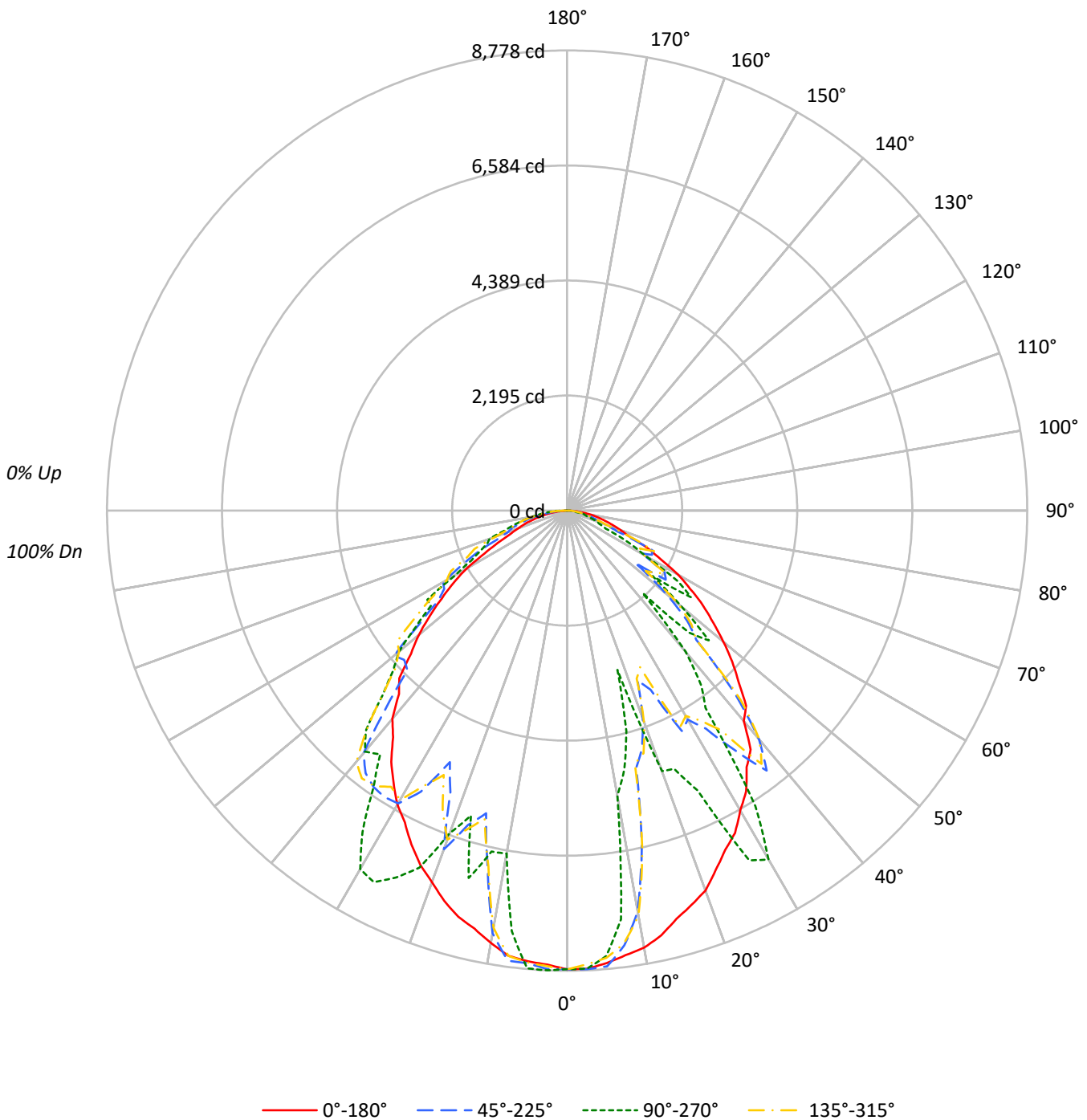
Lumens per Lamp: N/A
Luminaire Lumens: 17233.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
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°	12844	12844	12844	12844
5°	12752	12454	12704	12793
10°	12593	8079	12455	9718
15°	12210	6436	12147	10714
20°	11994	7946	11724	9832
25°	11493	9080	11315	11901
30°	11118	12251	10897	12588
35°	10608	7653	10391	10711
40°	9933	6160	9831	10536
45°	9487	6161	9279	9308
50°	8748	5736	8318	8459
55°	7968	6383	7339	7024
60°	7017	4196	6374	6066
65°	5698	2283	4941	5127
70°	4478	1998	4132	5188
75°	4006	1478	3667	4230
80°	3671	1028	3083	3456
85°	3251	760	2109	2838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.3	4.6
10°-20°	1849.4	10.7
20°-30°	2752.8	16.0
30°-40°	3471.8	20.1
40°-50°	3144.4	18.2
50°-60°	2614.3	15.2
60°-70°	1579.4	9.2
70°-80°	783.3	4.5
80°-90°	241.1	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°	5398.6	31.3
0°-40°	8870.4	51.5
0°-60°	14629.1	84.9
0°-90°	17233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17233.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8751	8751	8751	8751	8751	
5°	8664	8533	8632	8766	8664	820
15°	8062	4359	8020	7257	8062	2280
25°	7138	5892	7027	7722	7138	3300
35°	5972	4598	5850	6434	5972	3752
45°	4627	3292	4526	4973	4627	3569
55°	3169	2883	2919	3172	3169	2821
65°	1685	811	1461	1822	1685	1655
75°	739	367	677	1050	739	793
85°	221	101	143	379	221	244
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°	8750.7	8750.7	8750.7	8750.7	8750.7	8750.7	8750.7	8750.7	8750.7	8750.7	8750.7
2.5°	8747.7	8798.4	8756.7	8747.7	8744.8	8753.7	8664.3	8637.4	8667.2	8756.7	8753.7
5°	8664.3	8738.8	8726.9	8601.6	8533.1	8607.6	8565.9	8571.8	8631.5	8694.1	8664.3
7.5°	8553.9	8646.4	8366.1	8011.3	7865.2	8050.1	8324.4	8539.0	8565.9	8667.2	8661.3
10°	8467.5	8551.0	7757.9	6550.4	5524.7	6335.7	7841.4	8366.1	8375.1	8515.2	8187.2
12.5°	8297.5	8178.3	6586.1	5134.2	5047.7	5184.8	6630.9	7981.5	8169.3	8264.7	7000.6
15°	8062.0	7707.2	5086.4	4487.2	4359.0	4505.1	4997.0	7647.6	8020.3	8109.7	5977.9
17.5°	7886.1	7215.2	4749.5	3974.3	3187.2	3792.5	4850.9	7364.3	7805.6	7662.5	6291.0
20°	7713.2	6720.3	4218.8	4323.2	5289.2	4302.3	4284.4	6815.7	7540.2	6687.5	6875.4
22.5°	7415.0	5661.9	3497.3	5155.0	5330.9	5104.3	3470.5	5852.7	7316.6	6037.5	5816.9
25°	7137.7	4692.9	3768.6	5351.8	5891.5	5277.3	3291.6	4639.2	7027.4	5399.5	5292.2
27.5°	6932.0	4427.5	4743.6	6153.8	7522.3	5730.5	4660.1	4284.4	6705.4	5107.3	6046.5
30°	6607.0	4057.8	4603.4	7513.4	7683.3	7379.2	4522.9	4120.4	6475.8	5405.5	6449.0
32.5°	6350.6	3604.6	4934.4	7087.0	6684.5	7051.3	4749.5	3843.2	6162.8	5688.7	6481.8
35°	5972.0	3416.8	5584.4	6198.6	4597.5	6001.8	5110.3	3530.1	5849.7	5256.4	6437.1
37.5°	5748.3	2811.6	6252.2	4203.9	4200.9	4209.9	6091.2	3112.7	5450.2	4463.3	6314.8
40°	5238.5	3041.1	5694.7	3843.2	3509.2	3923.7	5709.6	2540.2	5184.8	3944.5	6040.5
42.5°	5053.7	3413.8	4740.6	3157.4	2128.8	3351.2	4910.5	3220.0	4749.5	4120.4	5125.2
45°	4627.3	3324.4	3485.4	1997.6	3291.6	2131.8	3470.5	3184.2	4525.9	4344.1	4308.3
47.5°	4269.5	3118.7	3103.7	3068.0	3667.3	2978.5	3217.0	2990.5	4039.9	4224.8	4215.8
50°	3887.9	3226.0	2474.7	3226.0	2838.4	3270.7	2751.9	2814.5	3697.1	3962.4	4305.3
52.5°	3509.2	3375.1	1624.9	2412.0	2057.2	2495.5	1890.3	2778.8	3303.5	3723.9	3556.9
55°	3169.3	3354.2	2295.8	2072.1	2883.1	1973.8	2072.1	3079.9	2918.9	3351.2	2996.4
57.5°	2787.7	2832.4	2209.3	2528.3	2495.5	2653.5	2221.2	2731.1	2579.0	2981.5	2781.7
60°	2441.9	2107.9	1624.9	1976.7	1699.5	2197.4	1654.7	2251.0	2218.2	2343.5	2731.1
62.5°	2000.6	1705.4	1824.7	1446.0	1332.7	1425.2	1565.3	1630.9	1774.0	1985.7	2265.9
65°	1684.6	1347.6	1797.8	921.3	811.0	1079.3	1830.6	1440.1	1460.9	1797.8	1887.3
67.5°	1261.2	992.8	1031.6	739.4	667.9	724.5	1288.0	1115.1	1171.7	1329.8	1455.0
70°	1079.3	882.5	748.4	608.2	605.2	611.2	808.0	831.8	995.8	1121.0	1204.5
72.5°	900.4	727.5	596.3	500.9	453.2	551.6	590.3	685.7	843.8	1332.7	1100.2
75°	739.4	840.8	483.0	411.4	366.7	402.5	474.1	623.1	676.8	828.9	900.4
77.5°	596.3	489.0	378.7	342.9	328.0	354.8	366.7	650.0	530.7	641.0	760.3
80°	465.1	363.7	295.2	229.6	196.8	223.6	292.2	330.9	390.6	477.0	566.5
82.5°	333.9	277.3	205.7	167.0	143.1	164.0	193.8	232.6	265.4	328.0	396.5
85°	220.6	181.9	146.1	119.3	101.4	116.3	131.2	146.1	143.1	196.8	253.4
87.5°	110.3	98.4	98.4	86.5	71.6	80.5	89.4	77.5	41.7	86.5	155.0
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°	8750.7	8750.7	8750.7	8750.7	8750.7	8750.7
2.5°	8753.7	8777.6	8771.6	8697.1	8703.0	8747.7
5°	8691.1	8765.6	8747.7	8652.3	8646.4	8664.3
7.5°	8390.0	8091.8	8530.1	8568.8	8536.1	8553.9
10°	6845.5	6645.8	7152.6	8082.9	8470.5	8467.5
12.5°	6144.9	6663.7	6246.3	6949.9	8285.6	8297.5
15°	7006.5	7257.0	7104.9	6082.3	8076.9	8062.0
17.5°	6559.3	6100.2	6618.9	6380.4	7811.5	7886.1
20°	5849.7	6544.4	5918.3	6678.6	6881.3	7713.2
22.5°	7099.0	7373.3	6821.7	6198.6	6228.4	7415.0
25°	7274.9	7722.1	7137.7	5566.5	5673.8	7137.7
27.5°	7480.6	7990.4	7435.9	5915.3	5339.9	6932.0
30°	7567.1	7895.0	7704.2	6368.5	5444.2	6607.0
32.5°	7400.1	7268.9	7570.0	6249.2	5372.7	6350.6
35°	6532.5	6434.1	6893.2	6413.2	5307.1	5972.0
37.5°	5542.6	5858.7	6052.5	6437.1	4842.0	5748.3
40°	5459.1	6001.8	5590.3	6249.2	4433.5	5238.5
42.5°	5587.3	5679.8	5477.0	5655.9	4096.6	5053.7
45°	4970.2	4973.2	5301.1	4979.1	4132.4	4627.3
47.5°	4326.2	4493.1	4645.2	4436.5	4102.6	4269.5
50°	3798.4	4186.0	4165.2	4189.0	3822.3	3887.9
52.5°	3798.4	3637.4	3679.2	4075.7	3646.4	3509.2
55°	3232.0	3172.3	3443.6	3509.2	3503.3	3169.3
57.5°	2868.2	3163.4	2963.6	3020.3	3148.5	2787.7
60°	2546.2	2456.8	2838.4	2647.6	2790.7	2441.9
62.5°	1988.7	2066.2	2200.4	2501.5	2331.5	2000.6
65°	1702.4	1821.7	1905.2	2093.0	1887.3	1684.6
67.5°	1604.1	1654.7	1630.9	1917.1	1621.9	1261.2
70°	1410.3	1571.3	1463.9	1437.1	1338.7	1079.3
72.5°	1174.7	1225.4	1338.7	1144.9	1034.6	900.4
75°	1001.8	1049.5	1058.4	989.9	1016.7	739.4
77.5°	796.1	846.7	840.8	843.8	840.8	596.3
80°	626.1	661.9	661.9	647.0	566.5	465.1
82.5°	471.1	506.9	515.8	468.1	420.4	333.9
85°	336.9	378.7	375.7	333.9	277.3	220.6
87.5°	217.6	265.4	271.3	214.7	164.0	110.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)