

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-LD5-32-W-ASY-UNV-L835-CD4-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-LD5-32-W-ASY-UNV-L835-CD4-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

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

Summary

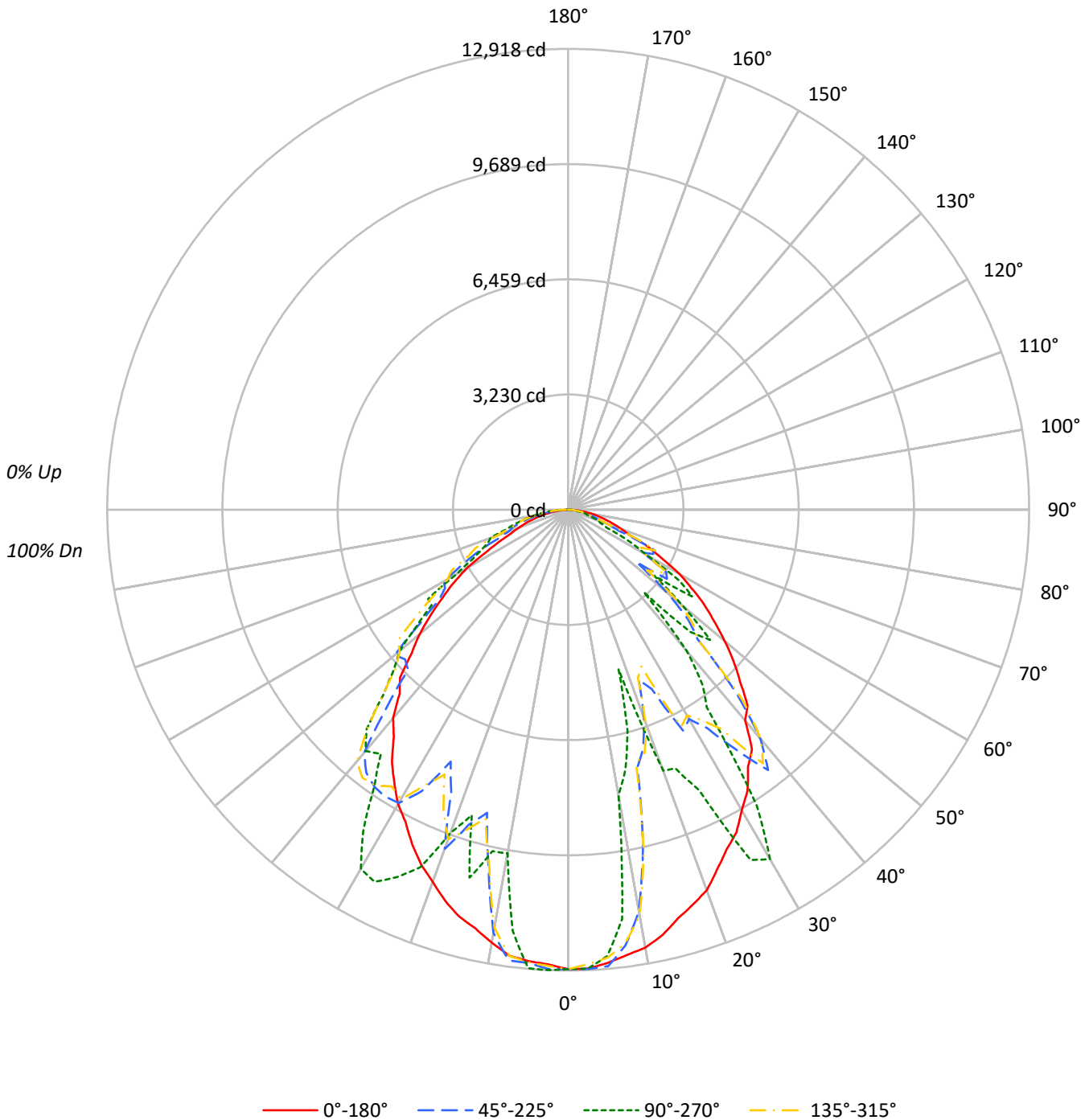
Lumens per Lamp: N/A
Luminaire Lumens: 25363.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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



TEST NUMBER: P#
CATALOG NUMBER: 8ILED-LD5-32-W-ASY-UNV-L835-CD4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-W-ASY-UNV-L835-CD4-U

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°	18904	18904	18904	18904
5°	18768	18329	18697	18829
10°	18533	11890	18331	14303
15°	17970	9472	17877	15769
20°	17652	11695	17256	14471
25°	16915	13363	16653	17515
30°	16363	18030	16038	18527
35°	15613	11264	15293	15764
40°	14619	9066	14470	15506
45°	13962	9067	13656	13699
50°	12875	8442	12243	12450
55°	11727	9395	10801	10337
60°	10326	6176	9381	8928
65°	8386	3360	7273	7546
70°	6591	2941	6081	7636
75°	5896	2175	5397	6225
80°	5403	1512	4537	5087
85°	4785	1118	3103	4177



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-W-ASY-UNV-L835-CD4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1172.0	4.6
10°-20°	2721.9	10.7
20°-30°	4051.5	16.0
30°-40°	5109.7	20.1
40°-50°	4627.8	18.2
50°-60°	3847.7	15.2
60°-70°	2324.6	9.2
70°-80°	1152.9	4.5
80°-90°	354.8	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°	7945.4	31.3
0°-40°	13055.2	51.5
0°-60°	21530.7	84.9
0°-90°	25363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25363.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12879	12879	12879	12879	12879	
5°	12752	12559	12704	12901	12752	###
15°	11865	6415	11804	10681	11865	3356
25°	10505	8671	10343	11365	10505	4857
35°	8789	6766	8609	9470	8789	5522
45°	6810	4844	6661	7319	6810	5253
55°	4664	4243	4296	4669	4664	4151
65°	2479	1194	2150	2681	2479	2436
75°	1088	540	996	1545	1088	1167
85°	325	149	211	557	325	359
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-W-ASY-UNV-L835-CD4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	12879.0	12879.0	12879.0	12879.0	12879.0	12879.0	12879.0	12879.0	12879.0	12879.0	12879.0
2.5°	12874.7	12949.3	12887.8	12874.7	12870.3	12883.4	12751.8	12712.3	12756.2	12887.8	12883.4
5°	12751.8	12861.5	12843.9	12659.6	12558.7	12668.4	12607.0	12615.8	12703.5	12795.7	12751.8
7.5°	12589.4	12725.5	12313.0	11790.8	11575.8	11847.8	12251.5	12567.5	12607.0	12756.2	12747.4
10°	12462.2	12585.0	11417.8	9640.6	8131.1	9324.7	11540.7	12313.0	12326.1	12532.4	12049.7
12.5°	12212.1	12036.5	9693.3	7556.3	7429.0	7630.9	9759.1	11746.9	12023.4	12163.8	10303.2
15°	11865.4	11343.2	7486.1	6604.1	6415.4	6630.4	7354.4	11255.4	11804.0	11935.6	8798.1
17.5°	11606.5	10619.2	6990.2	5849.3	4690.9	5581.6	7139.4	10838.6	11488.0	11277.4	9258.9
20°	11352.0	9890.8	6209.1	6362.7	7784.5	6332.0	6305.7	10031.2	11097.5	9842.5	10118.9
22.5°	10913.2	8333.0	5147.2	7587.0	7845.9	7512.4	5107.7	8613.8	10768.4	8885.9	8561.2
25°	10505.1	6906.9	5546.5	7876.6	8670.9	7766.9	4844.5	6827.9	10342.7	7946.8	7788.9
27.5°	10202.3	6516.3	6981.4	9057.0	11071.1	8433.9	6858.6	6305.7	9868.8	7516.8	8899.0
30°	9724.0	5972.2	6775.2	11058.0	11308.1	10860.5	6656.7	6064.3	9530.9	7955.6	9491.4
32.5°	9346.6	5305.2	7262.3	10430.5	9838.1	10377.8	6990.2	5656.2	9070.2	8372.5	9539.7
35°	8789.3	5028.7	8218.9	9122.8	6766.4	8833.2	7521.2	5195.5	8609.4	7736.2	9473.9
37.5°	8460.2	4138.0	9201.8	6187.2	6182.8	6196.0	8964.9	4581.2	8021.4	6569.0	9294.0
40°	7709.9	4475.9	8381.2	5656.2	5164.8	5774.7	8403.2	3738.7	7630.9	5805.4	8890.3
42.5°	7437.8	5024.4	6977.1	4647.0	3133.1	4932.2	7227.2	4739.1	6990.2	6064.3	7543.1
45°	6810.3	4892.7	5129.7	2940.0	4844.5	3137.5	5107.7	4686.5	6661.1	6393.4	6340.8
47.5°	6283.7	4589.9	4568.0	4515.3	5397.3	4383.7	4734.7	4401.3	5945.9	6217.9	6204.8
50°	5722.1	4747.9	3642.1	4747.9	4177.5	4813.7	4050.2	4142.4	5441.2	5831.8	6336.4
52.5°	5164.8	4967.3	2391.5	3550.0	3027.8	3672.8	2782.0	4089.7	4862.0	5480.7	5235.0
55°	4664.5	4936.6	3378.8	3049.7	4243.3	2904.9	3049.7	4532.9	4295.9	4932.2	4410.0
57.5°	4102.9	4168.7	3251.6	3721.1	3672.8	3905.4	3269.1	4019.5	3795.7	4388.1	4094.1
60°	3593.8	3102.4	2391.5	2909.3	2501.2	3234.0	2435.4	3313.0	3264.7	3449.0	4019.5
62.5°	2944.4	2510.0	2685.5	2128.2	1961.5	2097.5	2303.7	2400.3	2610.9	2922.5	3334.9
65°	2479.3	1983.4	2646.0	1355.9	1193.6	1588.5	2694.3	2119.4	2150.2	2646.0	2777.7
67.5°	1856.2	1461.2	1518.3	1088.2	982.9	1066.3	1895.7	1641.1	1724.5	1957.1	2141.4
70°	1588.5	1298.9	1101.4	895.2	890.8	899.6	1189.2	1224.3	1465.6	1649.9	1772.8
72.5°	1325.2	1070.7	877.6	737.2	667.0	811.8	868.8	1009.3	1241.8	1961.5	1619.2
75°	1088.2	1237.4	710.9	605.6	539.7	592.4	697.7	917.1	996.1	1219.9	1325.2
77.5°	877.6	719.6	557.3	504.6	482.7	522.2	539.7	956.6	781.1	943.4	1119.0
80°	684.5	535.3	434.4	337.9	289.6	329.1	430.0	487.1	574.8	702.1	833.7
82.5°	491.5	408.1	302.8	245.7	210.6	241.3	285.2	342.3	390.5	482.7	583.6
85°	324.7	267.7	215.0	175.5	149.2	171.1	193.1	215.0	210.6	289.6	373.0
87.5°	162.4	144.8	144.8	127.3	105.3	118.5	131.6	114.1	61.4	127.3	228.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-W-ASY-UNV-L835-CD4-U

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	12879.0	12879.0	12879.0	12879.0	12879.0	12879.0
2.5°	12883.4	12918.5	12909.8	12800.1	12808.8	12874.7
5°	12791.3	12901.0	12874.7	12734.2	12725.5	12751.8
7.5°	12348.1	11909.3	12554.3	12611.4	12563.1	12589.4
10°	10075.1	9781.1	10527.0	11896.1	12466.6	12462.2
12.5°	9043.9	9807.4	9193.0	10228.6	12194.5	12212.1
15°	10312.0	10680.6	10456.8	8951.7	11887.3	11865.4
17.5°	9653.8	8978.0	9741.6	9390.5	11496.8	11606.5
20°	8609.4	9631.9	8710.4	9829.3	10127.7	11352.0
22.5°	10448.0	10851.7	10039.9	9122.8	9166.7	10913.2
25°	10706.9	11365.2	10505.1	8192.6	8350.5	10505.1
27.5°	11009.7	11760.1	10943.9	8706.0	7859.1	10202.3
30°	11137.0	11619.7	11338.8	9373.0	8012.7	9724.0
32.5°	10891.2	10698.2	11141.4	9197.4	7907.3	9346.6
35°	9614.3	9469.5	10145.3	9438.8	7810.8	8789.3
37.5°	8157.5	8622.6	8907.8	9473.9	7126.3	8460.2
40°	8034.6	8833.2	8227.7	9197.4	6525.1	7709.9
42.5°	8223.3	8359.3	8060.9	8324.2	6029.2	7437.8
45°	7314.9	7319.3	7802.0	7328.1	6081.9	6810.3
47.5°	6367.1	6612.9	6836.6	6529.5	6038.0	6283.7
50°	5590.4	6160.9	6130.2	6165.3	5625.5	5722.1
52.5°	5590.4	5353.5	5414.9	5998.5	5366.6	5164.8
55°	4756.7	4668.9	5068.2	5164.8	5156.0	4664.5
57.5°	4221.3	4655.8	4361.8	4445.1	4633.8	4102.9
60°	3747.4	3615.8	4177.5	3896.6	4107.3	3593.8
62.5°	2926.9	3040.9	3238.4	3681.6	3431.5	2944.4
65°	2505.6	2681.1	2804.0	3080.4	2777.7	2479.3
67.5°	2360.8	2435.4	2400.3	2821.5	2387.1	1856.2
70°	2075.6	2312.5	2154.6	2115.1	1970.3	1588.5
72.5°	1728.9	1803.5	1970.3	1685.0	1522.7	1325.2
75°	1474.4	1544.6	1557.8	1456.8	1496.3	1088.2
77.5°	1171.6	1246.2	1237.4	1241.8	1237.4	877.6
80°	921.5	974.2	974.2	952.2	833.7	684.5
82.5°	693.3	746.0	759.1	688.9	618.7	491.5
85°	495.9	557.3	552.9	491.5	408.1	324.7
87.5°	320.3	390.5	399.3	315.9	241.3	162.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)