

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-LD5-18-W-ASY-UNV-L850-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-LD5-18-W-ASY-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

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

Summary

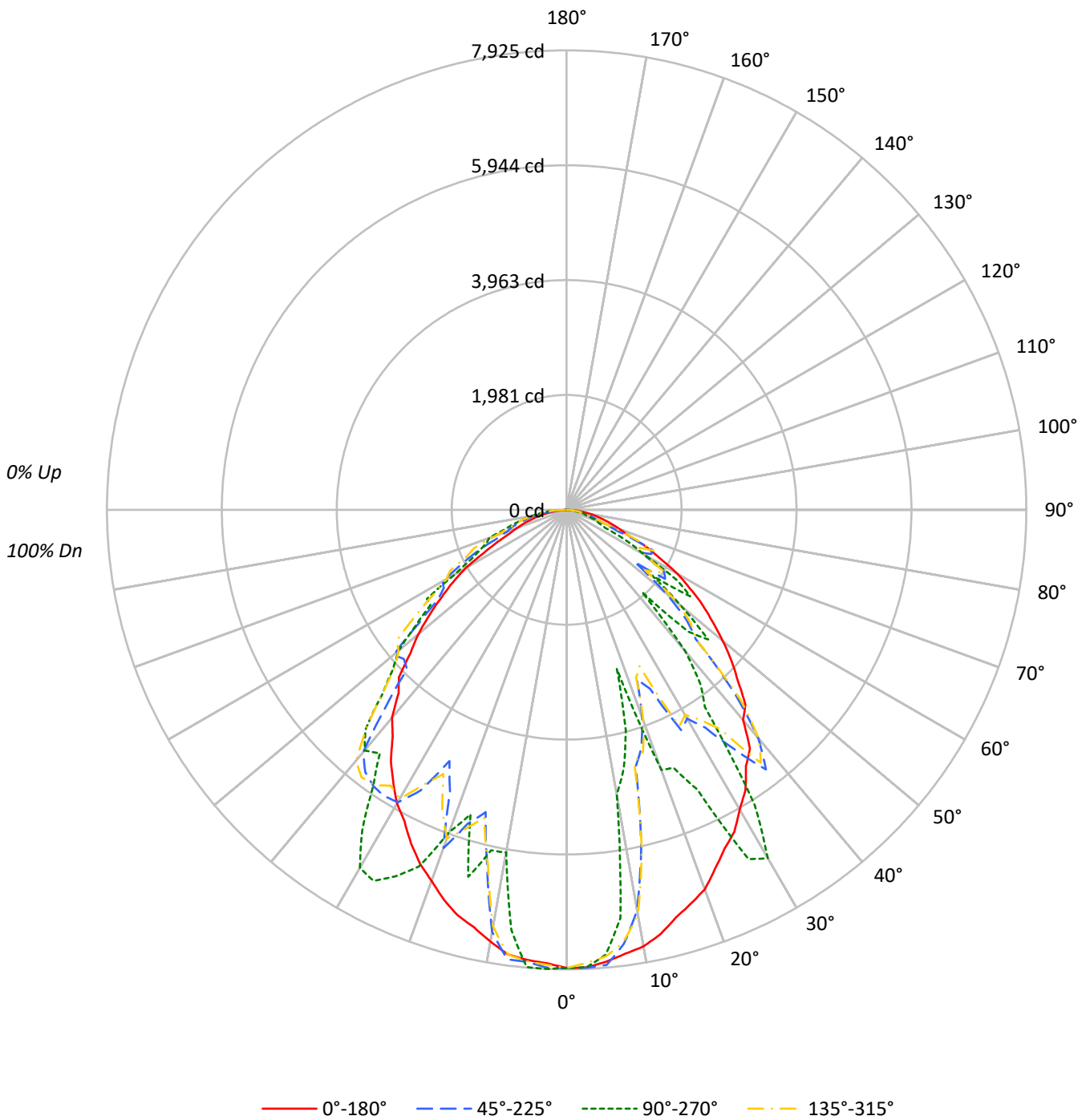
Lumens per Lamp: N/A
Luminaire Lumens: 15559.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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°	11597	11597	11597	11597
5°	11513	11244	11470	11550
10°	11369	7294	11245	8774
15°	11024	5810	10967	9674
20°	10828	7174	10586	8877
25°	10377	8198	10216	10745
30°	10038	11061	9839	11365
35°	9578	6910	9382	9670
40°	8968	5562	8876	9512
45°	8565	5562	8378	8404
50°	7898	5179	7510	7637
55°	7194	5764	6626	6342
60°	6335	3789	5755	5477
65°	5144	2061	4461	4629
70°	4043	1804	3730	4684
75°	3617	1334	3311	3819
80°	3314	928	2783	3121
85°	2935	686	1904	2563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.0	4.6
10°-20°	1669.8	10.7
20°-30°	2485.4	16.0
30°-40°	3134.6	20.1
40°-50°	2839.0	18.2
50°-60°	2360.4	15.2
60°-70°	1426.0	9.2
70°-80°	707.2	4.5
80°-90°	217.7	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°	4874.2	31.3
0°-40°	8008.7	51.5
0°-60°	13208.1	84.9
0°-90°	15559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15559.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7901	7901	7901	7901	7901	
5°	7823	7704	7793	7914	7823	741
15°	7279	3936	7241	6552	7279	2059
25°	6444	5319	6345	6972	6444	2980
35°	5392	4151	5282	5809	5392	3388
45°	4178	2972	4086	4490	4178	3223
55°	2862	2603	2635	2864	2862	2547
65°	1521	732	1319	1645	1521	1495
75°	668	331	611	948	668	716
85°	199	92	129	342	199	220
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°	7900.7	7900.7	7900.7	7900.7	7900.7	7900.7	7900.7	7900.7	7900.7	7900.7	7900.7
2.5°	7898.0	7943.8	7906.1	7898.0	7895.3	7903.4	7822.6	7798.4	7825.3	7906.1	7903.4
5°	7822.6	7889.9	7879.1	7766.1	7704.2	7771.5	7733.8	7739.2	7793.0	7849.5	7822.6
7.5°	7723.0	7806.5	7553.4	7233.1	7101.2	7268.1	7515.7	7709.6	7733.8	7825.3	7819.9
10°	7645.0	7720.3	7004.3	5914.1	4988.1	5720.3	7079.7	7553.4	7561.5	7688.0	7391.9
12.5°	7491.5	7383.8	5946.4	4635.4	4557.4	4681.2	5986.8	7206.2	7375.8	7461.9	6320.5
15°	7278.9	6958.5	4592.4	4051.3	3935.5	4067.4	4511.6	6904.7	7241.2	7321.9	5397.2
17.5°	7120.0	6514.4	4288.2	3588.3	2877.6	3424.1	4379.7	6649.0	7047.4	6918.1	5679.9
20°	6963.9	6067.5	3809.0	3903.2	4775.4	3884.4	3868.2	6153.6	6807.8	6037.9	6207.5
22.5°	6694.7	5111.9	3157.6	4654.3	4813.1	4608.5	3133.4	5284.2	6605.9	5451.1	5251.9
25°	6444.4	4237.0	3402.5	4831.9	5319.2	4764.6	2971.8	4188.6	6344.8	4875.0	4778.1
27.5°	6258.6	3997.4	4282.8	5556.1	6791.6	5173.8	4207.4	3868.2	6054.0	4611.2	5459.1
30°	5965.2	3663.7	4156.3	6783.5	6937.0	6662.4	4083.6	3720.2	5846.8	4880.4	5822.5
32.5°	5733.7	3254.5	4455.1	6398.6	6035.2	6366.3	4288.2	3469.8	5564.1	5136.1	5852.2
35°	5391.8	3084.9	5041.9	5596.4	4150.9	5418.8	4613.9	3187.2	5281.5	4745.8	5811.8
37.5°	5190.0	2538.4	5644.9	3795.6	3792.9	3800.9	5499.5	2810.3	4920.8	4029.8	5701.4
40°	4729.6	2745.7	5141.5	3469.8	3168.3	3542.5	5155.0	2293.5	4681.2	3561.4	5453.8
42.5°	4562.7	3082.2	4280.1	2850.7	1922.0	3025.7	4433.5	2907.2	4288.2	3720.2	4627.4
45°	4177.8	3001.5	3146.8	1803.6	2971.8	1924.7	3133.4	2874.9	4086.3	3922.1	3889.8
47.5°	3854.8	2815.7	2802.3	2769.9	3311.0	2689.2	2904.5	2700.0	3647.5	3814.4	3806.3
50°	3510.2	2912.6	2234.3	2912.6	2562.7	2953.0	2484.6	2541.1	3337.9	3577.5	3887.1
52.5°	3168.3	3047.2	1467.1	2177.7	1857.4	2253.1	1706.7	2508.8	2982.6	3362.2	3211.4
55°	2861.5	3028.4	2072.8	1870.9	2603.1	1782.0	1870.9	2780.7	2635.4	3025.7	2705.3
57.5°	2516.9	2557.3	1994.7	2282.7	2253.1	2395.8	2005.5	2465.8	2328.5	2691.9	2511.5
60°	2204.7	1903.2	1467.1	1784.7	1534.4	1983.9	1494.0	2032.4	2002.8	2115.8	2465.8
62.5°	1806.3	1539.8	1647.4	1305.6	1203.3	1286.7	1413.2	1472.5	1601.7	1792.8	2045.8
65°	1520.9	1216.7	1623.2	831.8	732.2	974.5	1652.8	1300.2	1319.0	1623.2	1704.0
67.5°	1138.7	896.4	931.4	667.6	603.0	654.1	1162.9	1006.8	1057.9	1200.6	1313.6
70°	974.5	796.8	675.7	549.1	546.5	551.8	729.5	751.0	899.1	1012.1	1087.5
72.5°	812.9	656.8	538.4	452.2	409.2	498.0	533.0	619.1	761.8	1203.3	993.3
75°	667.6	759.1	436.1	371.5	331.1	363.4	428.0	562.6	611.1	748.3	812.9
77.5°	538.4	441.5	341.9	309.6	296.1	320.3	331.1	586.8	479.2	578.8	686.4
80°	419.9	328.4	266.5	207.3	177.7	201.9	263.8	298.8	352.6	430.7	511.5
82.5°	301.5	250.3	185.7	150.7	129.2	148.1	175.0	210.0	239.6	296.1	358.0
85°	199.2	164.2	131.9	107.7	91.5	105.0	118.4	131.9	129.2	177.7	228.8
87.5°	99.6	88.8	88.8	78.1	64.6	72.7	80.8	70.0	37.7	78.1	140.0
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°	7900.7	7900.7	7900.7	7900.7	7900.7	7900.7
2.5°	7903.4	7924.9	7919.5	7852.2	7857.6	7898.0
5°	7846.8	7914.1	7898.0	7811.8	7806.5	7822.6
7.5°	7575.0	7305.8	7701.5	7736.5	7706.9	7723.0
10°	6180.6	6000.2	6457.8	7297.7	7647.6	7645.0
12.5°	5548.0	6016.4	5639.5	6274.8	7480.7	7491.5
15°	6325.9	6552.0	6414.8	5491.4	7292.3	7278.9
17.5°	5922.1	5507.6	5976.0	5760.6	7052.7	7120.0
20°	5281.5	5908.7	5343.4	6029.8	6212.9	6963.9
22.5°	6409.4	6657.0	6159.0	5596.4	5623.3	6694.7
25°	6568.2	6972.0	6444.4	5025.7	5122.7	6444.4
27.5°	6753.9	7214.3	6713.6	5340.7	4821.2	6258.6
30°	6832.0	7128.1	6955.8	5749.9	4915.4	5965.2
32.5°	6681.3	6562.8	6834.7	5642.2	4850.8	5733.7
35°	5897.9	5809.1	6223.6	5790.2	4791.6	5391.8
37.5°	5004.2	5289.6	5464.5	5811.8	4371.6	5190.0
40°	4928.8	5418.8	5047.3	5642.2	4002.8	4729.6
42.5°	5044.6	5128.0	4945.0	5106.5	3698.6	4562.7
45°	4487.4	4490.1	4786.2	4495.4	3731.0	4177.8
47.5°	3905.9	4056.7	4194.0	4005.5	3704.0	3854.8
50°	3429.5	3779.4	3760.6	3782.1	3451.0	3510.2
52.5°	3429.5	3284.1	3321.8	3679.8	3292.2	3168.3
55°	2918.0	2864.2	3109.1	3168.3	3163.0	2861.5
57.5°	2589.6	2856.1	2675.7	2726.9	2842.6	2516.9
60°	2298.9	2218.1	2562.7	2390.4	2519.6	2204.7
62.5°	1795.5	1865.5	1986.6	2258.5	2105.1	1806.3
65°	1537.1	1644.7	1720.1	1889.7	1704.0	1520.9
67.5°	1448.2	1494.0	1472.5	1730.9	1464.4	1138.7
70°	1273.3	1418.6	1321.7	1297.5	1208.7	974.5
72.5°	1060.6	1106.4	1208.7	1033.7	934.1	812.9
75°	904.5	947.5	955.6	893.7	917.9	667.6
77.5°	718.7	764.5	759.1	761.8	759.1	538.4
80°	565.3	597.6	597.6	584.1	511.5	419.9
82.5°	425.3	457.6	465.7	422.6	379.6	301.5
85°	304.2	341.9	339.2	301.5	250.3	199.2
87.5°	196.5	239.6	245.0	193.8	148.1	99.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)