

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: **4ILED-LD5-14-W-ASYWG-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 (P34184)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-14-W-ASYWG-UNV-L850-CD2-U  
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION  
  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

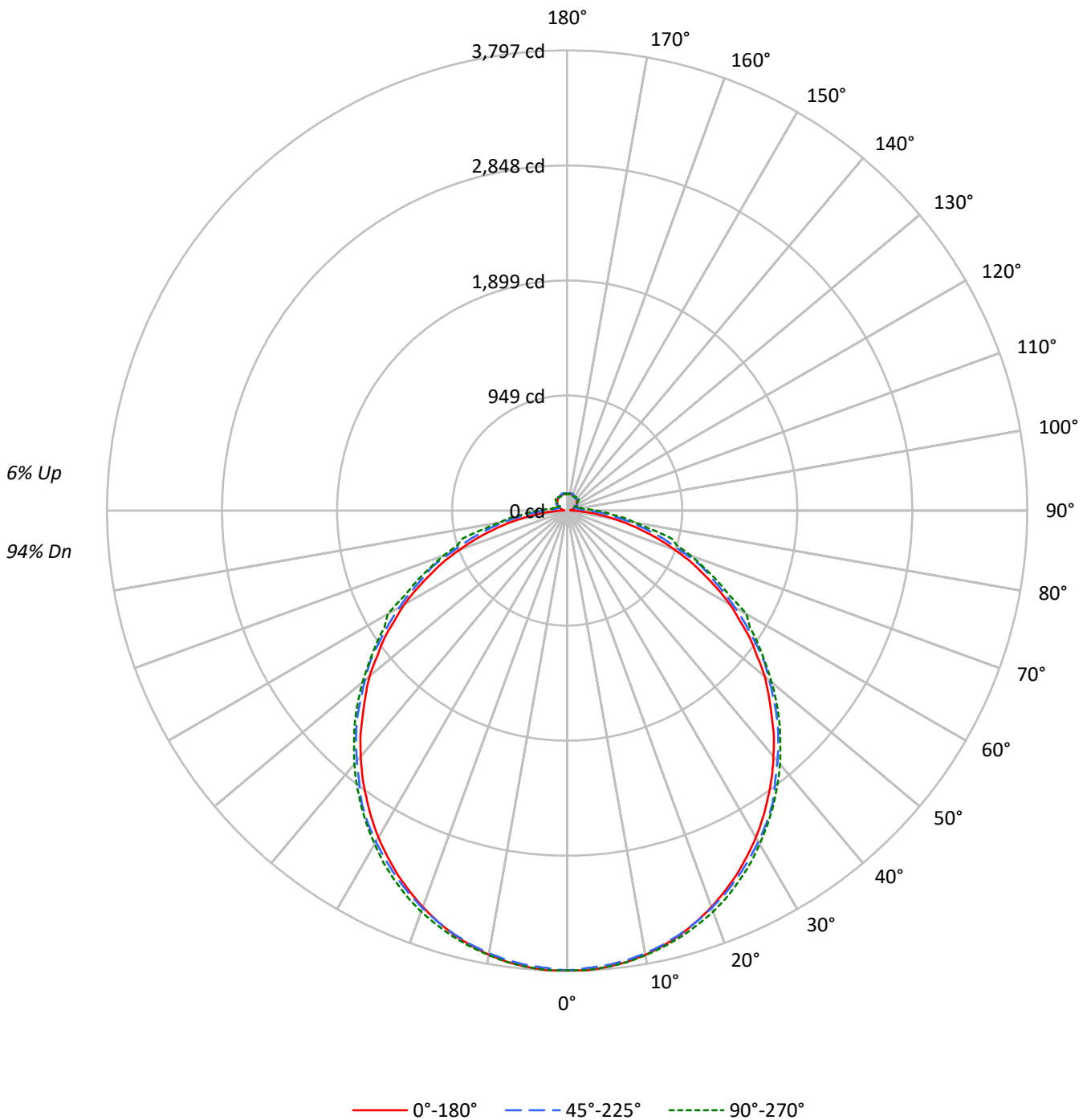
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11435.0 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 102  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: 4ILED-LD5-14-W-ASYWG-UNV-L850-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-14-W-ASYWG-UNV-L850-CD2-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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	91	94	91	87	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	76	72	78	73	69	74	70	67	65
3	88	78	70	63	85	76	68	62	72	66	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	46
5	74	62	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	40	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11140	11140	11140
5°	11115	11005	11034
10°	11045	10875	10897
15°	10933	10714	10742
20°	10777	10538	10585
25°	10603	10344	10375
30°	10409	10139	10133
35°	10176	9927	9877
40°	9941	9580	9592
45°	9660	9305	9272
50°	9445	8936	8903
55°	9118	8534	8522
60°	8747	8060	8440
65°	8192	7572	7667
70°	7578	7009	7157
75°	6771	6362	7234
80°	5761	5704	5921
85°	4548	5140	5551



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-14-W-ASYWG-UNV-L850-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.7	3.1
10°-20°	1022.8	8.9
20°-30°	1538.7	13.5
30°-40°	1839.1	16.1
40°-50°	1886.8	16.5
50°-60°	1693.0	14.8
60°-70°	1300.9	11.4
70°-80°	796.0	7.0
80°-90°	337.5	3.0
90°-100°	118.8	1.0
100°-110°	83.1	0.7
110°-120°	77.6	0.7
120°-130°	90.3	0.8
130°-140°	95.6	0.8
140°-150°	80.9	0.7
150°-160°	61.7	0.5
160°-170°	40.1	0.4
170°-180°	13.4	0.1
0°-30°	2920.2	25.5
0°-40°	4759.3	41.6
0°-60°	8339.1	72.9
0°-90°	10773.5	94.2
90°-120°	279.5	2.4
90°-150°	546.3	4.8
90°-180°	662.0	5.8
0°-180°	11435.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3795	3795	3795	3795	3795	
5°	3780	3780	3766	3780	3780	359
15°	3621	3623	3615	3634	3638	1021
25°	3312	3318	3335	3364	3366	1525
35°	2889	2927	2954	2960	2966	1808
45°	2385	2427	2454	2473	2477	1844
55°	1845	1862	1893	1920	1925	1644
65°	1243	1266	1312	1354	1362	1235
75°	653	688	759	803	898	695
85°	174	236	318	360	370	186
90°	34	94	180	228	238	26
95°	27	65	111	148	155	25
105°	52	50	75	119	111	55
115°	77	86	65	75	80	77
125°	98	98	117	100	84	88
135°	115	113	123	138	134	88
145°	126	130	123	130	136	79
155°	134	142	134	128	128	62
165°	138	142	146	142	138	39
175°	140	140	140	140	136	13
180°	138	138	138	138	138	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-14-W-ASYWG-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3794.9	3794.9	3794.9	3794.9	3794.9
2.5°	3797.0	3794.9	3778.2	3790.7	3794.9
5°	3780.2	3780.2	3765.6	3780.2	3780.2
7.5°	3757.2	3755.1	3742.6	3755.1	3759.3
10°	3721.7	3721.7	3709.1	3723.8	3725.9
12.5°	3675.6	3677.7	3667.3	3681.9	3686.1
15°	3621.3	3623.3	3615.0	3633.8	3638.0
17.5°	3554.3	3558.5	3556.4	3577.3	3583.6
20°	3481.1	3493.6	3489.5	3516.7	3522.9
22.5°	3399.5	3407.9	3416.2	3445.5	3449.7
25°	3311.6	3317.9	3334.6	3363.9	3366.0
27.5°	3215.4	3232.1	3246.8	3269.8	3278.2
30°	3115.0	3138.0	3154.7	3175.7	3177.7
32.5°	3006.2	3037.6	3058.5	3069.0	3075.2
35°	2889.1	2926.7	2953.9	2960.2	2966.5
37.5°	2774.0	2813.7	2820.0	2849.3	2851.4
40°	2648.5	2694.5	2698.7	2725.9	2732.2
42.5°	2525.0	2550.1	2579.4	2604.5	2602.4
45°	2384.9	2426.7	2453.9	2472.7	2476.9
47.5°	2255.2	2303.3	2311.7	2334.7	2343.0
50°	2129.7	2167.3	2177.8	2207.1	2202.9
52.5°	1976.9	2018.8	2050.2	2060.6	2060.6
55°	1845.1	1861.9	1893.3	1920.5	1924.6
57.5°	1688.2	1715.4	1744.7	1782.4	1786.6
60°	1554.4	1575.3	1598.3	1661.0	1709.2
62.5°	1397.5	1418.4	1451.8	1504.1	1504.1
65°	1242.6	1265.7	1311.7	1353.5	1361.9
67.5°	1102.5	1123.4	1200.8	1211.3	1217.5
70°	943.5	970.7	1029.3	1069.0	1083.7
72.5°	799.1	824.2	887.0	937.2	945.6
75°	652.7	688.3	759.4	803.3	897.5
77.5°	518.8	562.7	629.7	682.0	700.8
80°	389.1	437.2	518.8	558.6	566.9
82.5°	269.9	332.6	403.8	462.3	477.0
85°	173.6	236.4	318.0	359.8	370.3
87.5°	92.0	159.0	238.5	288.7	301.2
90°	33.5	94.1	179.9	228.0	238.5
92.5°	29.3	66.9	136.0	177.8	188.3
95°	27.2	64.9	110.9	148.5	154.8
97.5°	31.4	56.5	98.3	117.2	123.4
100°	37.7	50.2	94.1	113.0	119.2
102.5°	43.9	46.0	85.8	102.5	102.5
105°	52.3	50.2	75.3	119.2	110.9
107.5°	58.6	66.9	73.2	87.9	96.2
110°	66.9	73.2	64.9	83.7	85.8



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-14-W-ASYWG-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	73.2	81.6	64.9	81.6	81.6
115°	77.4	85.8	64.9	75.3	79.5
117.5°	83.7	87.9	81.6	73.2	73.2
120°	90.0	90.0	100.4	71.1	71.1
122.5°	94.1	94.1	106.7	79.5	71.1
125°	98.3	98.3	117.2	100.4	83.7
127.5°	102.5	102.5	121.3	115.1	104.6
130°	106.7	104.6	125.5	123.4	117.2
132.5°	110.9	108.8	125.5	129.7	125.5
135°	115.1	113.0	123.4	138.1	133.9
137.5°	117.2	117.2	121.3	140.2	140.2
140°	121.3	121.3	121.3	138.1	144.3
142.5°	123.4	125.5	123.4	133.9	140.2
145°	125.5	129.7	123.4	129.7	136.0
147.5°	127.6	133.9	123.4	129.7	129.7
150°	131.8	136.0	125.5	127.6	129.7
152.5°	131.8	140.2	129.7	127.6	127.6
155°	133.9	142.3	133.9	127.6	127.6
157.5°	136.0	142.3	136.0	129.7	127.6
160°	136.0	144.3	140.2	133.9	129.7
162.5°	138.1	144.3	144.3	138.1	133.9
165°	138.1	142.3	146.4	142.3	138.1
167.5°	138.1	142.3	146.4	144.3	140.2
170°	140.2	142.3	144.3	144.3	140.2
172.5°	140.2	140.2	142.3	142.3	140.2
175°	140.2	140.2	140.2	140.2	136.0
177.5°	140.2	140.2	140.2	138.1	133.9
180°	138.1	138.1	138.1	138.1	138.1

(END OF REPORT)