

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-FLWG-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 (P34182)  
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-FLWG-UNV-L835-CD2-U  
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

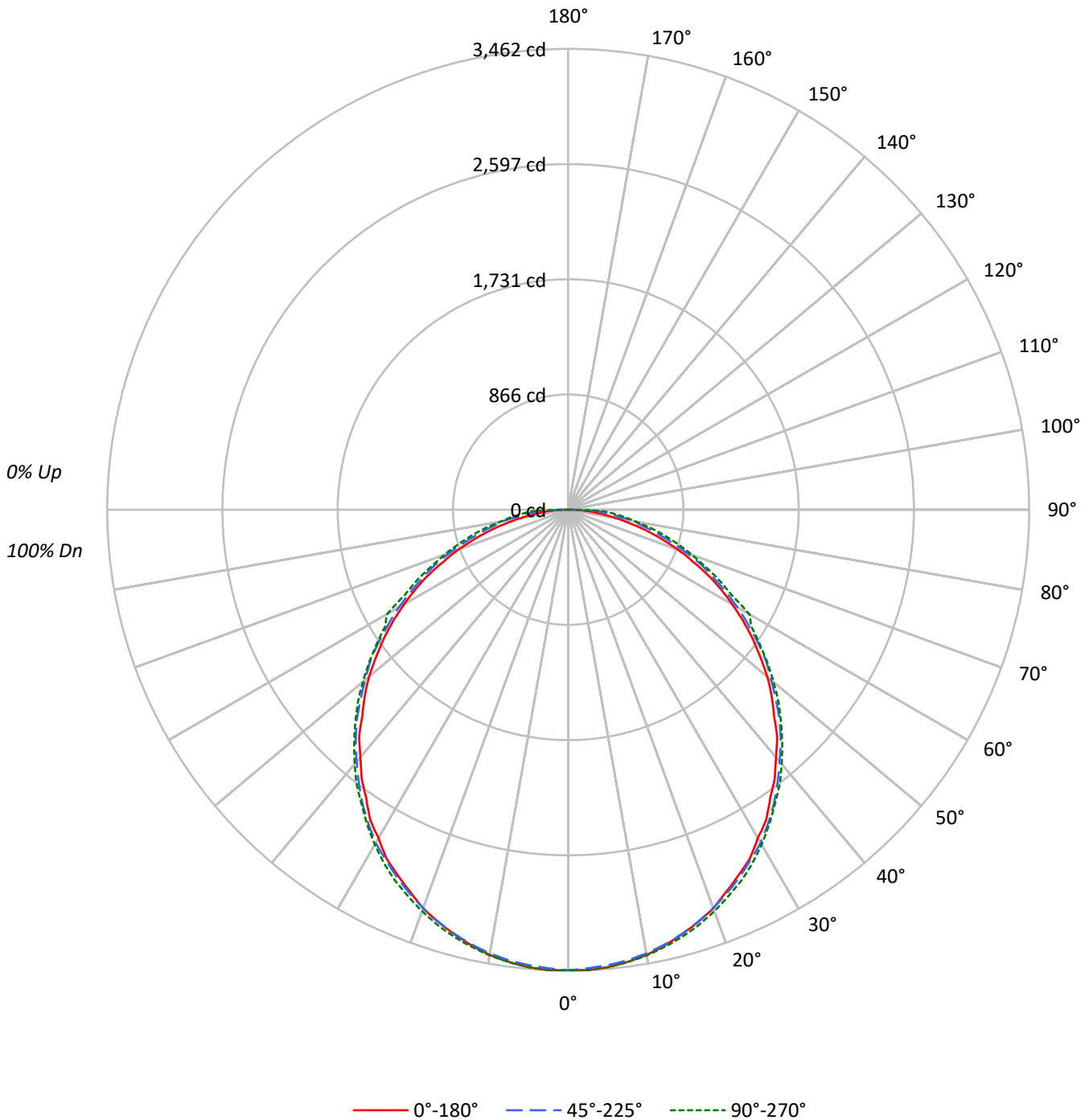
Lumens per Lamp: N/A  
Luminaire Lumens: 9841.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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



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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	10159	10159	10159
5°	10142	10036	10068
10°	10080	9924	9944
15°	9968	9781	9806
20°	9866	9618	9643
25°	9696	9446	9479
30°	9519	9289	9265
35°	9316	9053	9001
40°	9113	8772	8756
45°	8855	8519	8459
50°	8657	8165	8134
55°	8350	7829	7767
60°	8011	7407	7766
65°	7617	6931	7035
70°	7051	6428	6508
75°	6346	5805	6041
80°	5367	5458	5383
85°	4351	4639	5122



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.2	3.3
10°-20°	933.3	9.5
20°-30°	1405.5	14.3
30°-40°	1680.8	17.1
40°-50°	1726.2	17.5
50°-60°	1550.2	15.8
60°-70°	1192.8	12.1
70°-80°	735.2	7.5
80°-90°	289.9	2.9
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°	2665.9	27.1
0°-40°	4346.8	44.2
0°-60°	7623.1	77.5
0°-90°	9841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9841.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3460	3460	3460	3460	3460	
5°	3449	3447	3434	3447	3449	328
15°	3302	3308	3300	3313	3321	932
25°	3028	3032	3045	3068	3075	1397
35°	2645	2683	2694	2704	2704	1659
45°	2186	2220	2247	2256	2260	1693
55°	1690	1712	1737	1756	1754	1511
65°	1155	1167	1201	1242	1250	1139
75°	612	644	693	738	750	646
85°	166	221	287	328	342	190
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3460.5	3460.5	3460.5	3460.5	3460.5
2.5°	3462.4	3460.5	3447.3	3456.8	3460.5
5°	3449.2	3447.3	3434.1	3447.3	3449.2
7.5°	3426.5	3426.5	3413.3	3426.5	3428.4
10°	3396.3	3396.3	3385.0	3396.3	3400.1
12.5°	3352.9	3356.7	3345.4	3358.6	3362.4
15°	3301.9	3307.6	3300.1	3313.3	3320.8
17.5°	3247.2	3249.1	3245.3	3262.3	3269.9
20°	3186.8	3184.9	3184.9	3207.5	3209.4
22.5°	3105.6	3115.0	3116.9	3141.5	3143.4
25°	3028.2	3032.0	3045.2	3067.8	3075.4
27.5°	2954.6	2952.7	2965.9	2986.7	2994.2
30°	2848.8	2867.7	2890.4	2897.9	2905.5
32.5°	2765.8	2771.4	2794.1	2801.7	2807.3
35°	2645.0	2682.7	2694.0	2703.5	2703.5
37.5°	2546.8	2567.6	2582.7	2599.6	2607.2
40°	2427.8	2454.3	2471.3	2488.3	2493.9
42.5°	2324.0	2341.0	2361.8	2375.0	2378.8
45°	2186.2	2220.2	2246.6	2256.0	2259.8
47.5°	2072.9	2110.7	2114.5	2137.1	2142.8
50°	1952.1	1980.4	1989.9	2016.3	2012.5
52.5°	1818.1	1852.0	1874.7	1882.2	1884.1
55°	1689.7	1712.3	1736.9	1755.8	1753.9
57.5°	1559.4	1578.3	1599.1	1627.4	1629.3
60°	1423.5	1446.1	1468.8	1497.1	1572.6
62.5°	1291.3	1304.5	1331.0	1385.7	1380.1
65°	1155.4	1166.7	1200.7	1242.2	1249.8
67.5°	1008.1	1030.8	1081.8	1108.2	1112.0
70°	877.9	898.6	944.0	977.9	985.5
72.5°	740.1	764.6	813.7	857.1	868.4
75°	611.7	643.8	692.9	738.2	749.5
77.5°	479.5	521.1	579.6	689.1	636.2
80°	362.5	409.7	496.5	509.7	515.4
82.5°	258.6	309.6	371.9	417.2	432.3
85°	166.1	220.9	287.0	328.5	341.7
87.5°	92.5	145.4	215.2	256.8	268.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)