

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-LD5-14-W-FLWG-UNV-L840-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: 8ILED-LD5-14-W-FLWG-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION  
  
Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

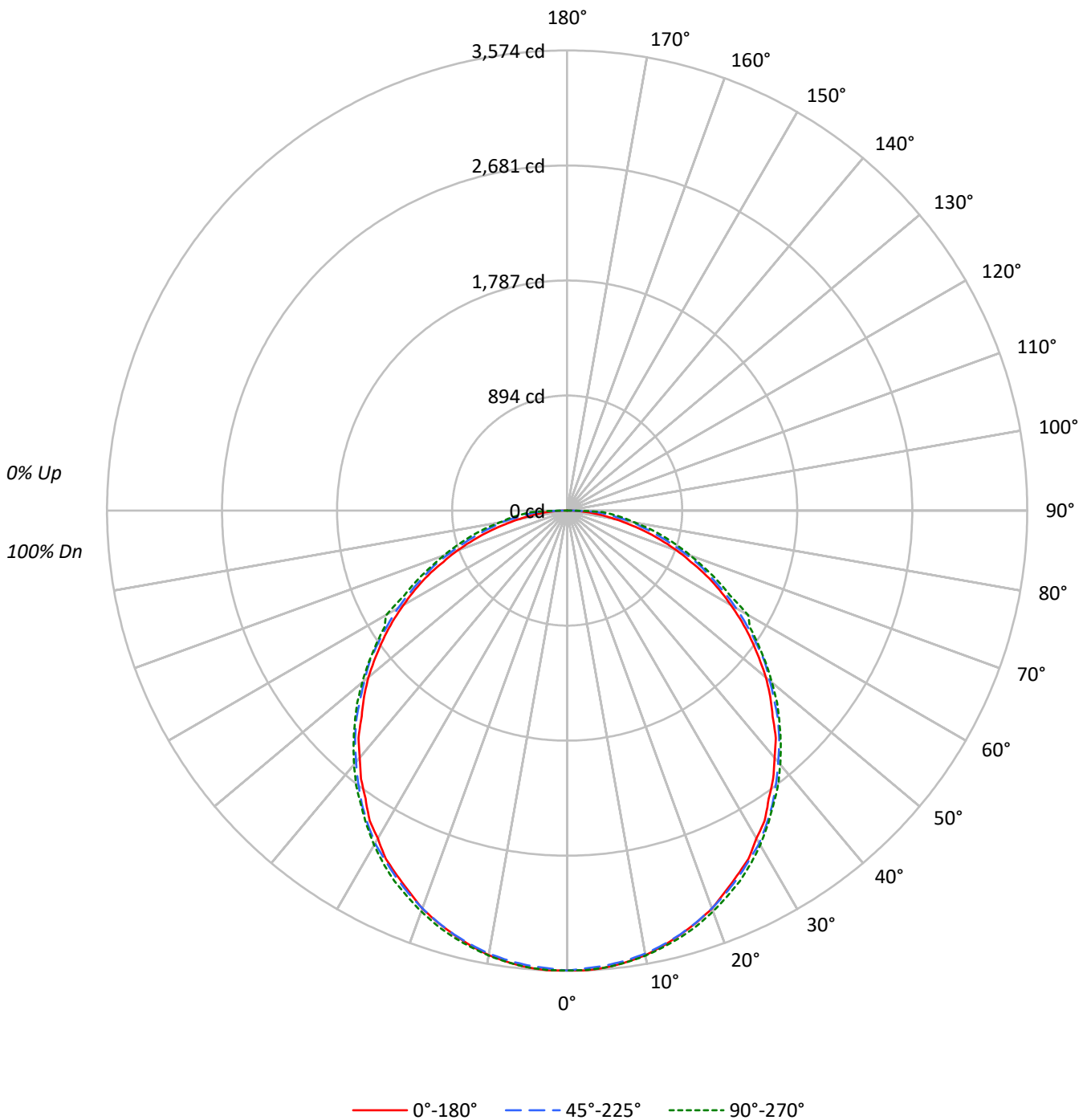
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10158.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 100.8  
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°	5243	5243	5243
5°	5240	5184	5196
10°	5214	5130	5132
15°	5162	5060	5061
20°	5115	4979	4977
25°	5033	4894	4892
30°	4948	4818	4782
35°	4850	4700	4646
40°	4752	4559	4519
45°	4626	4433	4366
50°	4534	4254	4198
55°	4385	4086	4008
60°	4222	3874	4008
65°	4034	3634	3631
70°	3760	3383	3359
75°	3421	3071	3118
80°	2954	2912	2778
85°	2527	2516	2644



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.7	3.3
10°-20°	963.3	9.5
20°-30°	1450.8	14.3
30°-40°	1735.0	17.1
40°-50°	1781.8	17.5
50°-60°	1600.1	15.8
60°-70°	1231.2	12.1
70°-80°	758.9	7.5
80°-90°	299.3	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°	2751.8	27.1
0°-40°	4486.8	44.2
0°-60°	7868.6	77.5
0°-90°	10158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3572	3572	3572	3572	3572	
5°	3560	3558	3545	3558	3560	338
15°	3408	3414	3406	3420	3428	962
25°	3126	3130	3143	3167	3174	1441
35°	2730	2769	2781	2791	2791	1712
45°	2257	2292	2319	2329	2333	1748
55°	1744	1768	1793	1812	1810	1559
65°	1193	1204	1239	1282	1290	1176
75°	631	664	715	762	774	667
85°	172	228	296	339	353	196
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3572.0	3572.0	3572.0	3572.0	3572.0
2.5°	3573.9	3572.0	3558.4	3568.1	3572.0
5°	3560.3	3558.4	3544.7	3558.4	3560.3
7.5°	3536.9	3536.9	3523.3	3536.9	3538.9
10°	3505.7	3505.7	3494.1	3505.7	3509.6
12.5°	3460.9	3464.8	3453.1	3466.8	3470.7
15°	3408.3	3414.2	3406.4	3420.0	3427.8
17.5°	3351.8	3353.7	3349.8	3367.4	3375.2
20°	3289.4	3287.5	3287.5	3310.9	3312.8
22.5°	3205.6	3215.4	3217.3	3242.7	3244.6
25°	3125.7	3129.6	3143.3	3166.7	3174.5
27.5°	3049.7	3047.8	3061.4	3082.9	3090.7
30°	2940.6	2960.1	2983.5	2991.3	2999.1
32.5°	2854.9	2860.7	2884.1	2891.9	2897.7
35°	2730.2	2769.1	2780.8	2790.6	2790.6
37.5°	2628.8	2650.3	2665.8	2683.4	2691.2
40°	2506.1	2533.3	2550.9	2568.4	2574.3
42.5°	2398.9	2416.4	2437.8	2451.5	2455.4
45°	2256.6	2291.7	2319.0	2328.7	2332.6
47.5°	2139.7	2178.7	2182.6	2205.9	2211.8
50°	2015.0	2044.2	2053.9	2081.2	2077.3
52.5°	1876.6	1911.7	1935.1	1942.9	1944.8
55°	1744.1	1767.5	1792.8	1812.3	1810.4
57.5°	1609.6	1629.1	1650.6	1679.8	1681.7
60°	1469.3	1492.7	1516.1	1545.3	1623.3
62.5°	1332.9	1346.6	1373.8	1430.4	1424.5
65°	1192.6	1204.3	1239.4	1282.3	1290.1
67.5°	1040.6	1064.0	1116.6	1143.9	1147.8
70°	906.2	927.6	974.4	1009.4	1017.2
72.5°	763.9	789.2	839.9	884.7	896.4
75°	631.4	664.5	715.2	761.9	773.6
77.5°	495.0	537.8	598.3	711.3	656.7
80°	374.2	422.9	512.5	526.2	532.0
82.5°	267.0	319.6	383.9	430.7	446.3
85°	171.5	228.0	296.2	339.1	352.7
87.5°	95.5	150.1	222.2	265.0	276.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)