

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-LD5-11-W-CLWG-UNV-L850-CD1-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 (P34178)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-11-W-CLWG-UNV-L850-CD1-U  
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD  
DISTRIBUTION

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

**Summary**

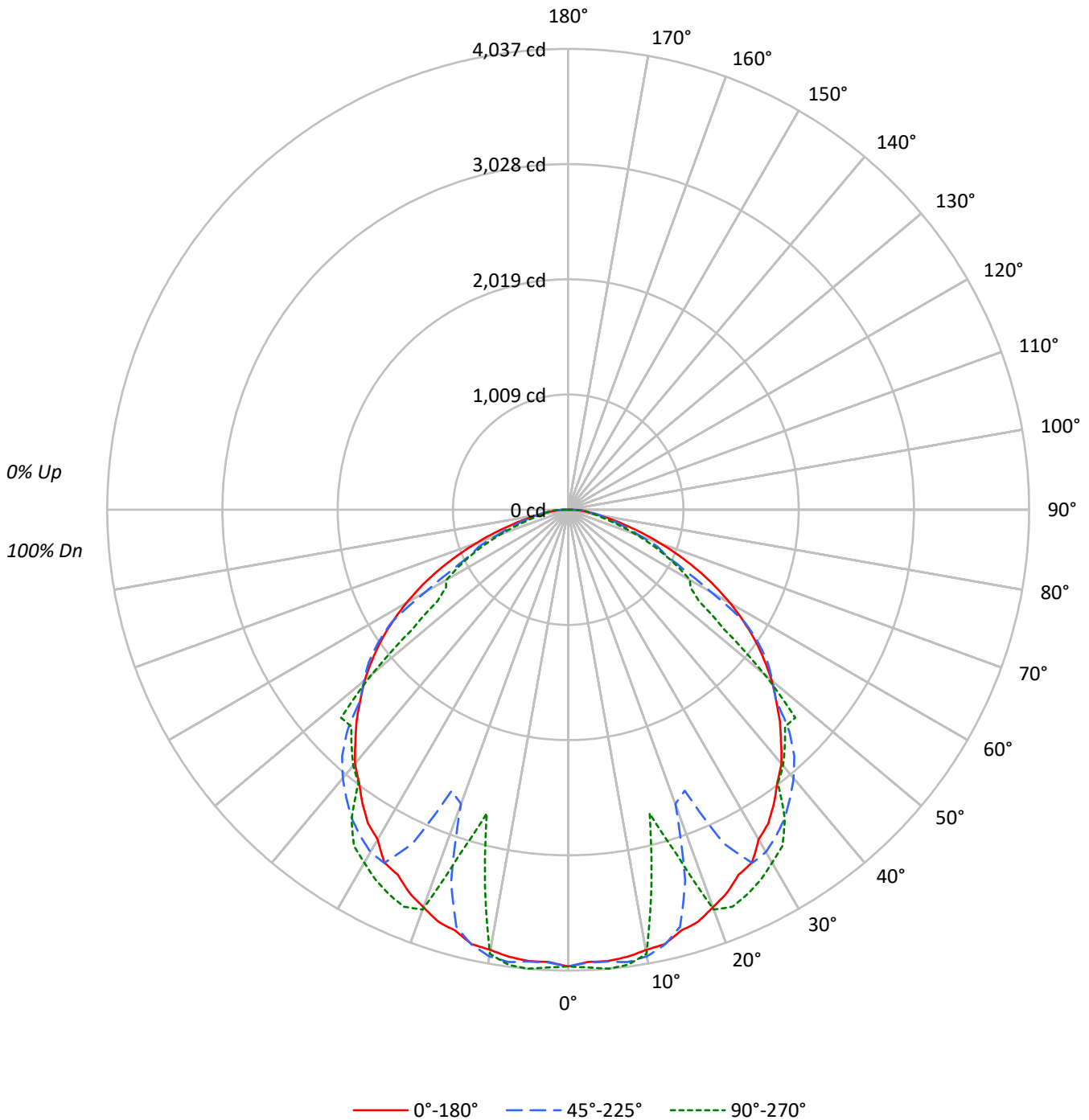
Lumens per Lamp: N/A  
Luminaire Lumens: 10359.0 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 83.9  
Input Voltage (V):  
Input Current (Ain): 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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26

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

	0°	45°	90°
0°	11744	11744	11744
5°	11671	11610	11783
10°	11623	11647	11551
15°	11526	11213	8131
20°	11473	8285	11199
25°	11302	10006	11453
30°	11147	11128	11388
35°	11060	11100	11013
40°	10903	10901	10279
45°	10620	10367	10049
50°	10315	9578	9081
55°	9884	9165	6184
60°	9220	7316	6084
65°	8253	5431	5241
70°	6869	4615	4160
75°	5324	3680	3063
80°	3970	3110	2336
85°	3403	2606	2343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.8	3.7
10°-20°	1006.7	9.7
20°-30°	1605.1	15.5
30°-40°	1926.5	18.6
40°-50°	2048.9	19.8
50°-60°	1676.2	16.2
60°-70°	1062.8	10.3
70°-80°	491.0	4.7
80°-90°	161.9	1.6
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°	2991.6	28.9
0°-40°	4918.1	47.5
0°-60°	8643.3	83.4
0°-90°	10359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10359.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4000	4000	4000	4000	4000	
5°	3969	3971	3972	4004	4037	377
15°	3818	3877	3783	2980	2754	1082
25°	3530	3540	3226	3683	3716	1635
35°	3140	2354	3303	3365	3308	1962
45°	2622	2634	2734	2666	2684	2020
55°	2000	2106	2033	1576	1396	1781
65°	1252	1273	941	948	931	1234
75°	513	487	439	406	380	562
85°	130	142	161	161	156	140
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4000.4	4000.4	4000.4	4000.4	4000.4
2.5°	3965.8	3972.4	3970.8	4000.4	4013.5
5°	3969.1	3970.8	3972.4	4003.7	4036.6
7.5°	3951.0	3985.6	3997.1	3985.6	4020.1
10°	3916.5	3947.7	3972.4	3937.9	3949.4
12.5°	3898.4	3944.4	3903.3	3733.9	3365.4
15°	3817.8	3877.0	3783.2	2980.5	2753.5
17.5°	3784.9	3824.4	3409.9	2740.4	3169.7
20°	3705.9	3760.2	2743.7	3523.3	3727.3
22.5°	3633.6	3673.0	2663.1	3705.9	3763.5
25°	3529.9	3539.8	3225.6	3682.9	3715.8
27.5°	3485.5	3337.5	3488.8	3635.2	3653.3
30°	3335.8	3031.5	3462.5	3569.4	3571.0
32.5°	3260.2	2640.0	3388.5	3474.0	3492.1
35°	3140.1	2353.8	3302.9	3365.4	3307.9
37.5°	3008.5	2312.7	3189.4	3156.5	3016.7
40°	2904.9	2523.3	3071.0	2867.0	2927.9
42.5°	2758.5	2651.6	2929.5	2796.3	2807.8
45°	2621.9	2633.5	2733.8	2666.4	2684.5
47.5°	2467.3	2543.0	2465.7	2554.5	2697.6
50°	2325.9	2406.5	2334.1	2480.5	2246.9
52.5°	2164.7	2265.0	2204.1	1995.2	1723.8
55°	2000.2	2105.5	2033.1	1575.8	1396.5
57.5°	1820.9	1908.1	1832.4	1291.2	1268.2
60°	1638.3	1707.4	1450.8	1176.1	1232.0
62.5°	1445.9	1488.6	1144.8	1084.0	1080.7
65°	1251.8	1273.1	940.9	947.5	931.0
67.5°	1049.4	1059.3	847.1	802.7	778.0
70°	855.3	848.8	677.7	653.0	630.0
72.5°	677.7	646.4	551.0	518.1	490.2
75°	513.2	486.9	439.2	406.3	380.0
77.5°	381.6	366.8	343.8	347.1	291.1
80°	268.1	269.8	282.9	240.2	223.7
82.5°	185.9	195.7	202.3	199.0	194.1
85°	129.9	141.5	161.2	161.2	156.3
87.5°	65.8	97.0	129.9	138.2	134.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)