

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-WG-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 (P34174)  
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-WG-UNV-L850-CD2-U  
Description: Metalux 4' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

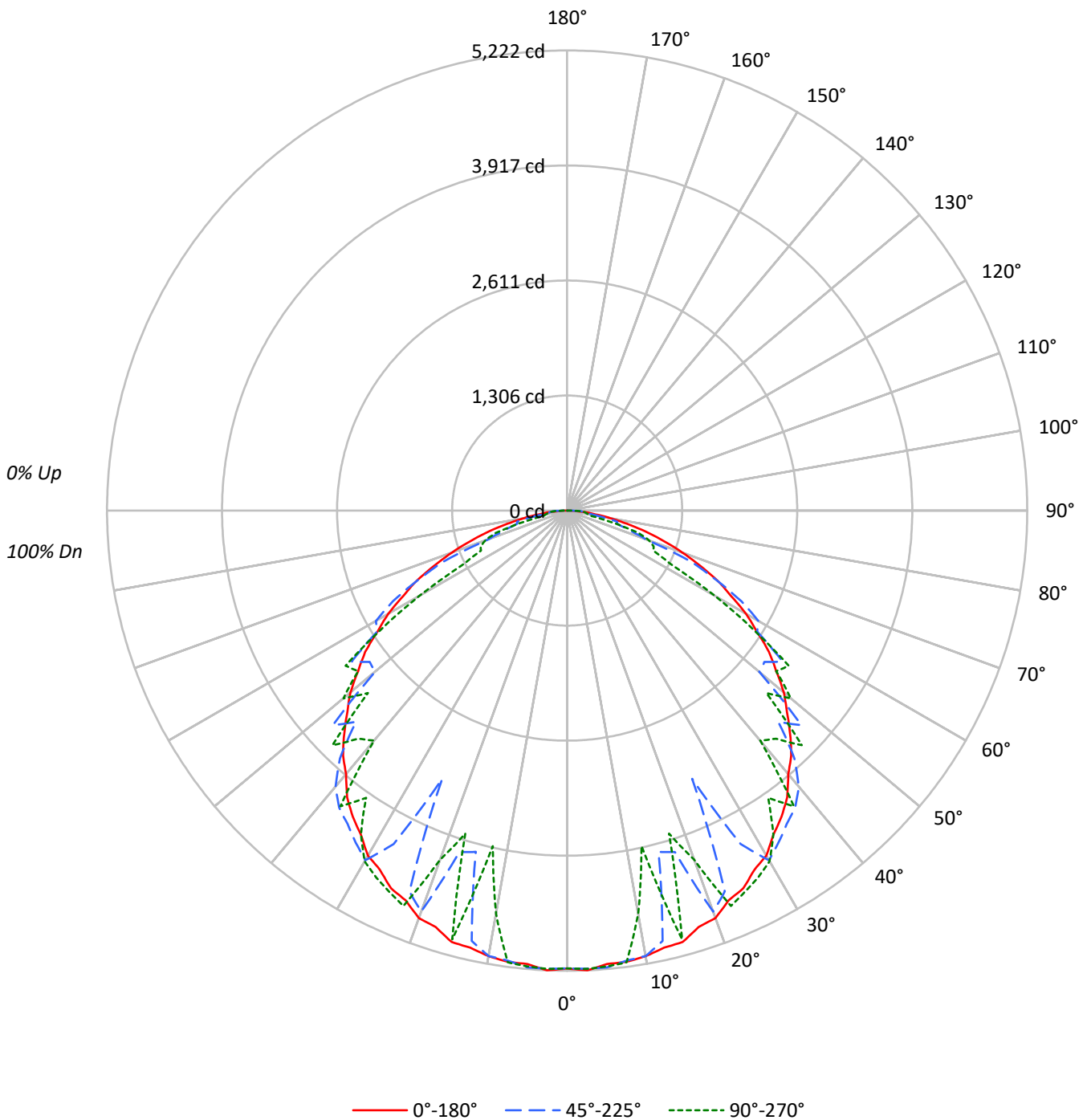
Lumens per Lamp: N/A  
Luminaire Lumens: 14285.0 lumens  
Efficiency: N/A  
Efficacy: 140.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 102  
Input Voltage (V):  
Input Current (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	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	15251	15251	15251
5°	15190	15207	15158
10°	15239	15048	13591
15°	15300	11885	14873
20°	15232	14625	12674
25°	15146	10416	14716
30°	15104	14721	14654
35°	14937	14595	13246
40°	14652	14515	11964
45°	14494	12852	14097
50°	14235	11676	13394
55°	13824	13455	13596
60°	13188	12637	9566
65°	12442	10774	6074
70°	11142	6425	6534
75°	9595	4939	4483
80°	7433	4077	2589
85°	5347	3131	2998



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.1	3.4
10°-20°	1313.9	9.2
20°-30°	2037.4	14.3
30°-40°	2612.0	18.3
40°-50°	2675.0	18.7
50°-60°	2536.5	17.8
60°-70°	1624.7	11.4
70°-80°	789.5	5.5
80°-90°	203.9	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°	3843.4	26.9
0°-40°	6455.5	45.2
0°-60°	11666.9	81.7
0°-90°	14285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5195	5195	5195	5195	5195	
5°	5166	5180	5203	5216	5193	493
15°	5068	5068	4010	4716	5037	1423
25°	4731	4087	3358	4804	4774	2174
35°	4241	4268	4343	4231	3979	2649
45°	3579	3585	3389	3412	3766	2758
55°	2798	2885	2985	2879	3070	2485
65°	1887	1844	1866	1212	1079	1849
75°	925	1033	590	714	556	979
85°	204	179	194	204	200	231
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5195.1	5195.1	5195.1	5195.1	5195.1
2.5°	5222.2	5226.3	5203.4	5195.1	5205.5
5°	5165.9	5180.5	5203.4	5215.9	5193.0
7.5°	5163.8	5170.1	5151.3	5220.1	5170.1
10°	5134.7	5170.1	5132.6	4951.4	4647.2
12.5°	5080.5	5086.8	5001.4	3603.6	3899.4
15°	5068.0	5068.0	4009.8	4716.0	5036.8
17.5°	4955.5	4982.6	4064.0	4953.4	3843.2
20°	4920.1	4903.5	4843.0	3507.8	4218.1
22.5°	4786.8	4672.2	4676.4	4874.3	4855.5
25°	4730.6	4086.9	3357.8	4803.5	4774.3
27.5°	4597.2	3426.6	4266.0	4699.3	4693.1
30°	4520.2	3564.1	4580.6	4613.9	4595.2
32.5°	4357.7	4091.1	4466.0	4536.8	4355.6
35°	4241.0	4268.1	4343.1	4230.6	3978.6
37.5°	4101.5	3916.1	4249.4	3857.8	4228.6
40°	3903.6	3051.6	4089.0	4139.0	3407.8
42.5°	3764.0	2987.1	3818.2	3212.0	3509.9
45°	3578.6	3584.9	3389.1	3412.0	3766.1
47.5°	3384.9	3464.1	3605.7	3624.5	3066.2
50°	3209.9	3287.0	2845.4	3072.5	3314.1
52.5°	2991.2	3099.5	2822.5	3172.5	2991.2
55°	2797.5	2885.0	2985.0	2878.7	3070.4
57.5°	2549.6	2689.2	2555.9	2826.7	2495.5
60°	2343.4	2341.3	2505.9	2518.4	1937.2
62.5°	2095.5	2078.9	2228.8	1689.3	1341.5
65°	1887.2	1843.5	1866.4	1212.3	1079.0
67.5°	1626.8	1443.5	1537.3	1012.4	1062.3
70°	1387.3	1379.0	943.6	702.0	989.4
72.5°	1149.8	1251.9	743.6	877.0	856.1
75°	924.9	1033.2	589.5	714.5	556.2
77.5°	693.6	749.9	581.2	437.4	270.8
80°	502.0	354.1	370.8	247.9	247.9
82.5°	325.0	291.6	216.6	231.2	218.7
85°	204.1	179.1	193.7	204.1	200.0
87.5°	70.8	122.9	154.1	150.0	137.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)