

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-TWBWG-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 (P34176)  
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-TWBWG-UNV-L835-CD2-U  
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD  
DISTRIBUTION

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

**Summary**

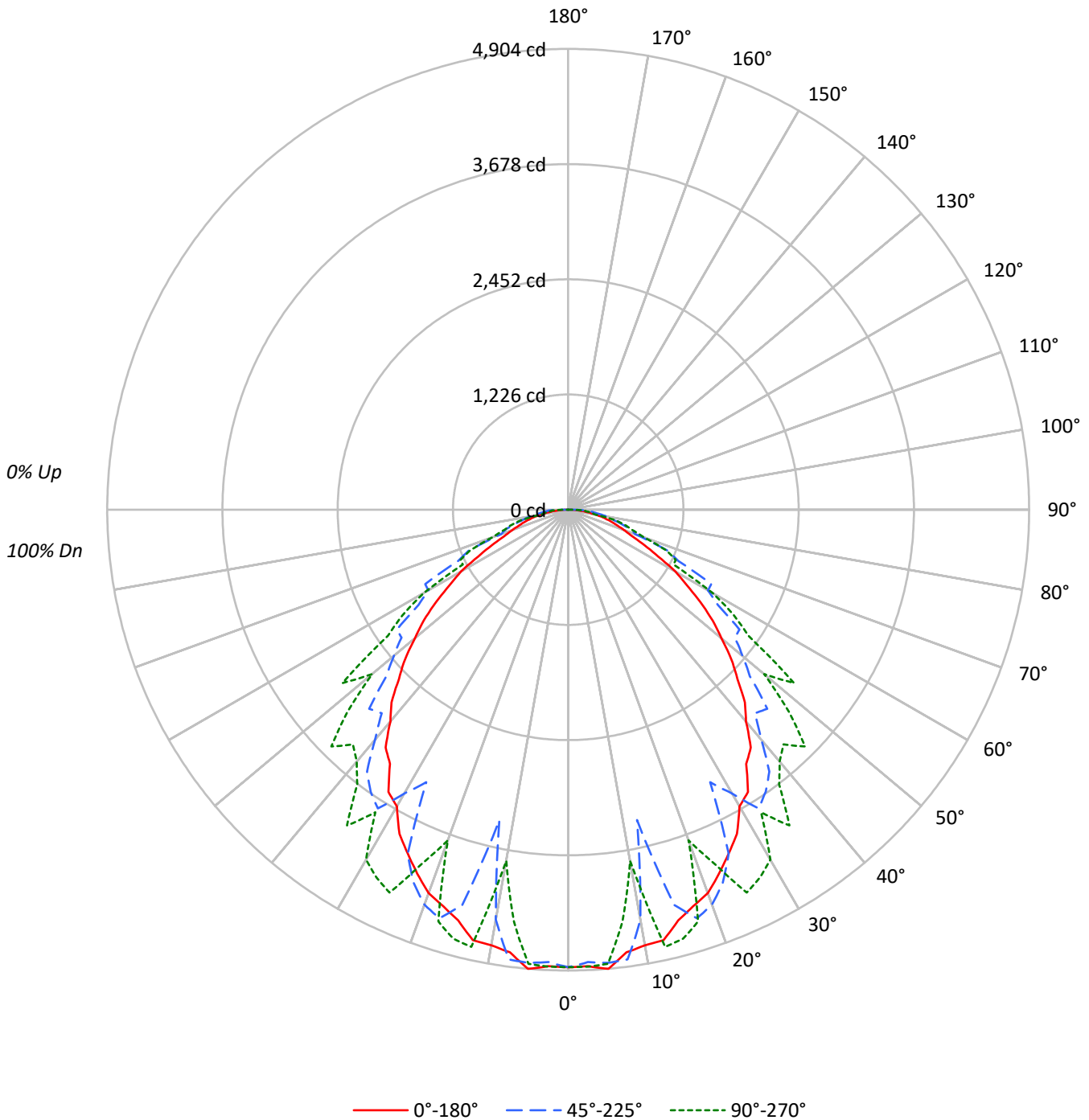
Lumens per Lamp: N/A  
Luminaire Lumens: 11829.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	14292	14292	14292
5°	14421	14146	14161
10°	13967	12990	11097
15°	13660	12902	13958
20°	13441	13505	11248
25°	12928	12531	13860
30°	12181	11205	13713
35°	11635	12307	13657
40°	11046	11345	12280
45°	10314	11360	13341
50°	9443	9938	10994
55°	8479	10024	10365
60°	7404	8653	8763
65°	5912	7453	7109
70°	5049	5168	5647
75°	4739	4935	5021
80°	4276	4608	2977
85°	3759	4090	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.0	3.8
10°-20°	1245.7	10.5
20°-30°	1800.9	15.2
30°-40°	2255.4	19.1
40°-50°	2195.5	18.6
50°-60°	1879.3	15.9
60°-70°	1165.8	9.9
70°-80°	606.7	5.1
80°-90°	235.7	2.0
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°	3490.5	29.5
0°-40°	5746.0	48.6
0°-60°	9820.8	83.0
0°-90°	11829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11829.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4868	4868	4868	4868	4868	
5°	4904	4889	4840	4821	4851	458
15°	4525	4542	4353	4751	4727	1281
25°	4038	3347	4040	4153	4496	1856
35°	3304	3443	3662	3632	4102	2088
45°	2546	2286	2996	3064	3564	1970
55°	1716	1878	2224	2654	2341	1535
65°	897	1006	1291	1093	1263	910
75°	457	530	589	632	623	483
85°	144	191	253	291	189	154
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4868.4	4868.4	4868.4	4868.4	4868.4
2.5°	4862.8	4842.0	4819.3	4859.0	4866.5
5°	4904.3	4889.2	4840.1	4821.2	4851.4
7.5°	4751.4	4783.5	4828.8	4583.4	4424.8
10°	4706.1	4689.1	4430.5	3411.1	3794.3
12.5°	4691.0	4670.2	3382.8	4741.9	4764.6
15°	4524.9	4541.8	4353.1	4751.4	4726.8
17.5°	4422.9	4188.8	4558.8	4638.1	4594.7
20°	4341.7	3650.8	4472.0	4260.6	3743.3
22.5°	4192.6	3112.8	4298.3	3418.7	4083.1
25°	4037.8	3346.9	4039.7	4153.0	4496.5
27.5°	3888.7	3792.4	3267.6	4334.2	4415.4
30°	3645.2	3760.3	3486.6	4243.6	4300.2
32.5°	3560.2	3590.4	3769.8	4007.6	3818.8
35°	3303.5	3443.2	3662.2	3632.0	4102.0
37.5°	3190.2	3229.9	3514.9	3824.5	3684.8
40°	2942.9	3003.4	3195.9	3379.0	3497.9
42.5°	2782.5	2580.5	2937.3	3275.2	3388.4
45°	2546.5	2286.0	2995.8	3063.8	3564.0
47.5°	2354.0	2270.9	2622.0	3188.3	3188.3
50°	2129.3	2238.8	2421.9	2848.6	2720.2
52.5°	1936.8	2085.9	2235.1	2476.7	3029.8
55°	1715.9	1878.3	2223.7	2654.1	2340.8
57.5°	1498.8	1636.6	1887.7	2033.1	2087.8
60°	1315.7	1449.8	1715.9	1827.3	1774.5
62.5°	1079.8	1249.7	1715.9	1440.3	1262.9
65°	896.7	1006.2	1291.2	1093.0	1262.9
67.5°	736.2	849.5	1147.7	1055.2	1125.1
70°	628.6	709.8	758.9	943.9	855.1
72.5°	538.0	596.5	694.7	713.6	709.8
75°	456.8	530.4	589.0	632.4	622.9
77.5°	379.4	483.3	485.1	581.4	505.9
80°	288.8	330.4	419.1	379.4	285.0
82.5°	211.4	258.6	319.0	328.5	251.1
85°	143.5	190.7	253.0	290.7	188.8
87.5°	66.1	130.3	205.8	260.5	171.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)