

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-N-TWBWG-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 (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-14-N-TWBWG-UNV-L850-CD2-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION  
  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

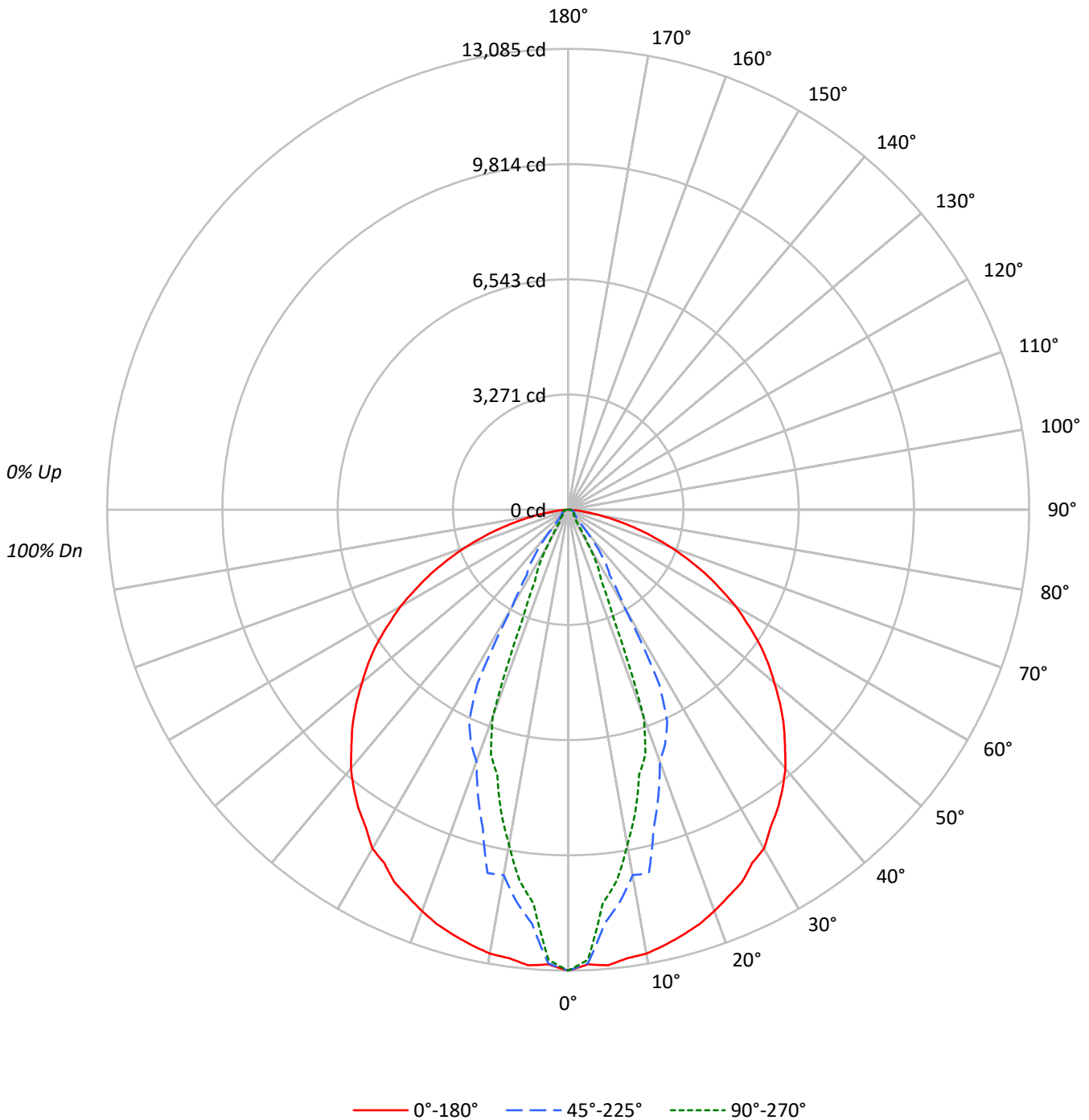
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12991.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
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	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					100			
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89					89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49					49			
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

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

	0°	45°	90°
0°	38412	38412	38412
5°	38184	34491	32786
10°	37979	30895	28292
15°	37770	27766	22991
20°	37541	22967	18835
25°	37359	20631	6851
30°	37130	10273	3572
35°	36516	6213	1360
40°	36002	3106	1185
45°	35054	1345	877
50°	33863	1138	799
55°	32697	950	838
60°	30933	986	817
65°	28288	1067	835
70°	24689	1113	866
75°	19736	1225	953
80°	13305	1441	1055
85°	7097	1702	1321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1117.7	8.6
10°-20°	2709.6	20.9
20°-30°	2951.8	22.7
30°-40°	2270.7	17.5
40°-50°	1677.8	12.9
50°-60°	1055.6	8.1
60°-70°	691.2	5.3
70°-80°	387.0	3.0
80°-90°	129.6	1.0
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°	6779.1	52.2
0°-40°	9049.8	69.7
0°-60°	11783.2	90.7
0°-90°	12991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12991.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13085	13085	13085	13085	13085	
5°	12986	12885	11802	11105	11232	###
15°	12511	10877	9368	8132	7786	3533
25°	11668	8719	6651	2962	2223	5364
35°	10368	6425	1849	589	408	6484
45°	8654	3422	355	299	234	6665
55°	6617	877	211	221	189	5895
65°	4291	217	185	166	148	4232
75°	1902	163	146	131	118	2041
85°	271	103	105	101	88	345
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13085.0	13085.0	13085.0	13085.0	13085.0
2.5°	12923.8	12928.1	12895.8	12831.3	12790.5
5°	12986.1	12885.1	11801.6	11105.1	11232.0
7.5°	12844.2	12321.8	11232.0	10711.8	10610.7
10°	12796.9	11457.7	10537.6	10361.4	9673.5
12.5°	12661.5	10933.2	10569.9	9458.5	8798.6
15°	12511.0	10877.3	9368.2	8132.2	7786.1
17.5°	12347.6	10387.2	8512.7	7452.9	7287.3
20°	12126.2	10073.3	7605.5	6851.0	6268.4
22.5°	11887.6	9922.8	7194.9	4464.8	3461.0
25°	11668.4	8719.0	6651.0	2962.2	2222.7
27.5°	11307.2	8622.3	5587.0	2169.0	1833.7
30°	11111.6	7728.0	3196.5	1631.6	1120.0
32.5°	10688.1	7027.2	2188.4	991.0	668.5
35°	10367.8	6425.3	1848.7	589.0	408.4
37.5°	9991.6	6027.6	1382.2	404.1	354.7
40°	9591.8	5559.0	874.9	361.1	337.5
42.5°	9106.0	5006.6	518.1	339.6	290.2
45°	8654.5	3422.3	354.7	298.8	234.3
47.5°	8155.8	2334.5	303.1	253.7	202.1
50°	7635.6	1526.3	277.3	225.7	197.8
52.5°	7147.6	1251.1	240.8	225.7	197.8
55°	6616.7	877.1	210.7	221.4	189.2
57.5°	6034.1	546.0	197.8	215.0	182.7
60°	5496.7	322.4	195.6	208.5	165.5
62.5°	4869.0	245.1	191.3	184.9	156.9
65°	4290.7	217.1	184.9	165.5	148.3
67.5°	3669.5	195.6	172.0	159.1	144.0
70°	3074.0	176.3	163.4	148.3	131.1
72.5°	2476.4	169.8	154.8	139.7	124.7
75°	1902.4	163.4	146.2	131.1	118.2
77.5°	1384.4	152.6	137.6	126.8	111.8
80°	898.6	139.7	131.1	118.2	101.0
82.5°	500.9	126.8	120.4	109.6	96.7
85°	270.9	103.2	105.3	101.0	88.1
87.5°	49.4	73.1	90.3	88.1	77.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)