

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-WG-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 (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-WG-UNV-L835-CD2-U  
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

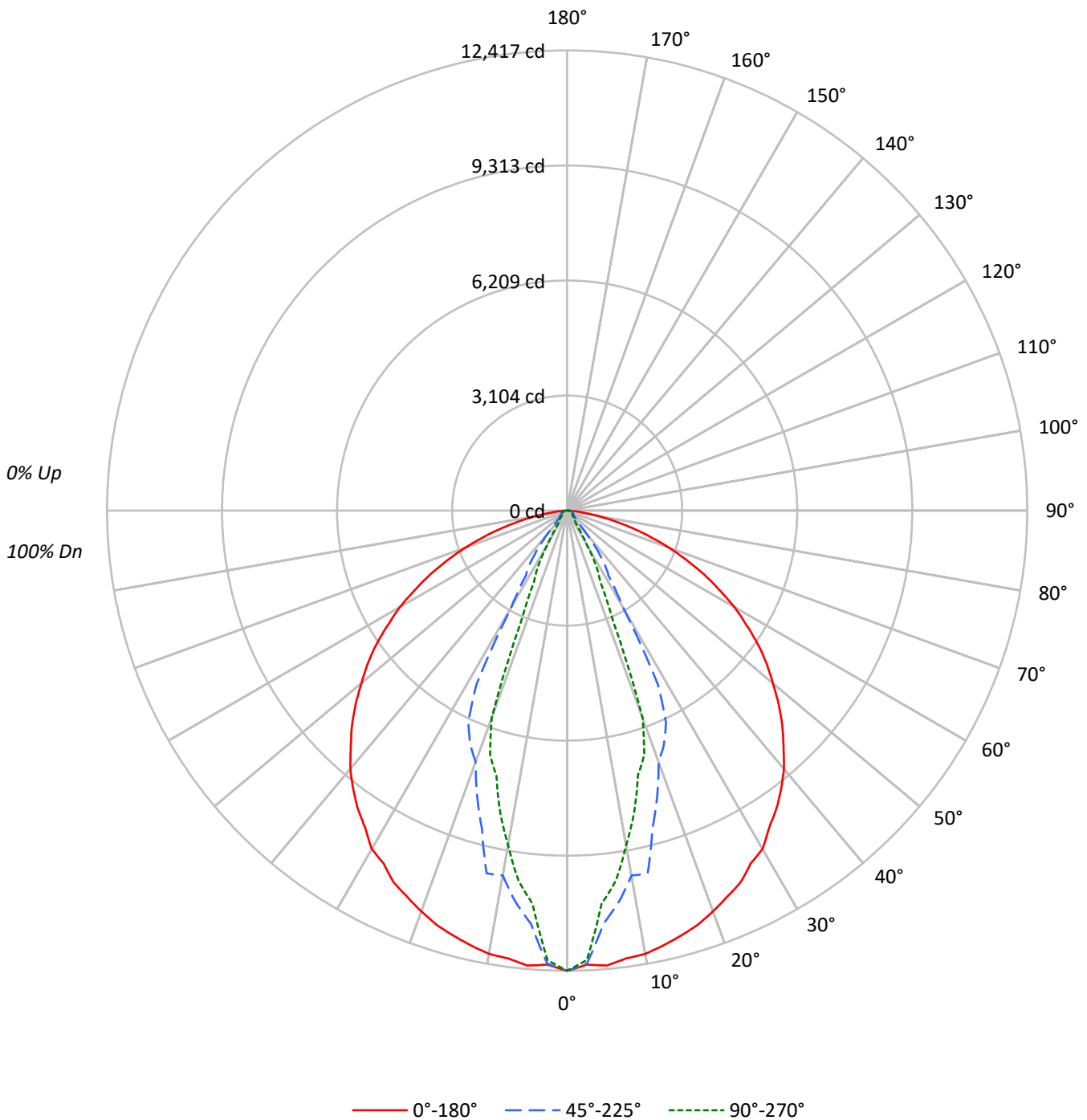
Lumens per Lamp: N/A  
Luminaire Lumens: 12328.0 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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°	36452	36452	36452
5°	36235	32731	31112
10°	36041	29318	26848
15°	35842	26349	21818
20°	35625	21795	17874
25°	35453	19578	6501
30°	35235	9749	3389
35°	34653	5896	1290
40°	34165	2947	1125
45°	33265	1276	832
50°	32135	1080	759
55°	31029	901	795
60°	29354	936	776
65°	26844	1012	793
70°	23429	1055	822
75°	18730	1162	904
80°	12625	1368	1002
85°	6733	1616	1253



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1060.6	8.6
10°-20°	2571.3	20.9
20°-30°	2801.1	22.7
30°-40°	2154.8	17.5
40°-50°	1592.1	12.9
50°-60°	1001.8	8.1
60°-70°	656.0	5.3
70°-80°	367.3	3.0
80°-90°	123.0	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
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0°-30°	6433.1	52.2
0°-40°	8587.9	69.7
0°-60°	11181.8	90.7
0°-90°	12328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12328.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12417	12417	12417	12417	12417	
5°	12323	12228	11199	10538	10659	###
15°	11872	10322	8890	7717	7389	3352
25°	11073	8274	6312	2811	2109	5090
35°	9839	6097	1754	559	388	6153
45°	8213	3248	337	284	222	6325
55°	6279	832	200	210	180	5594
65°	4072	206	175	157	141	4016
75°	1805	155	139	124	112	1937
85°	257	98	100	96	84	328
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12417.2	12417.2	12417.2	12417.2	12417.2
2.5°	12264.2	12268.3	12237.7	12176.5	12137.7
5°	12323.3	12227.5	11199.3	10538.4	10658.7
7.5°	12188.7	11693.0	10658.7	10165.1	10069.2
10°	12143.8	10872.9	9999.8	9832.6	9179.8
12.5°	12015.3	10375.2	10030.4	8975.8	8349.5
15°	11872.5	10322.2	8890.1	7717.1	7388.7
17.5°	11717.5	9857.0	8078.2	7072.5	6915.4
20°	11507.4	9559.2	7217.3	6501.3	5948.5
22.5°	11280.9	9416.4	6827.7	4237.0	3284.3
25°	11072.9	8274.0	6311.6	2811.1	2109.3
27.5°	10730.1	8182.2	5301.8	2058.3	1740.1
30°	10544.5	7333.6	3033.4	1548.3	1062.8
32.5°	10142.6	6668.6	2076.7	940.4	634.4
35°	9838.7	6097.4	1754.4	558.9	387.6
37.5°	9481.7	5720.0	1311.7	383.5	336.6
40°	9102.3	5275.3	830.3	342.7	320.3
42.5°	8641.2	4751.0	491.6	322.3	275.4
45°	8212.8	3247.6	336.6	283.6	222.4
47.5°	7739.6	2215.4	287.6	240.7	191.8
50°	7245.9	1448.4	263.2	214.2	187.7
52.5°	6782.8	1187.3	228.5	214.2	187.7
55°	6279.0	832.3	199.9	210.1	179.5
57.5°	5726.1	518.1	187.7	204.0	173.4
60°	5216.2	306.0	185.6	197.9	157.1
62.5°	4620.5	232.6	181.6	175.4	148.9
65°	4071.7	206.0	175.4	157.1	140.8
67.5°	3482.2	185.6	163.2	151.0	136.7
70°	2917.1	167.3	155.0	140.8	124.4
72.5°	2350.0	161.2	146.9	132.6	118.3
75°	1805.4	155.0	138.7	124.4	112.2
77.5°	1313.7	144.8	130.6	120.4	106.1
80°	852.7	132.6	124.4	112.2	95.9
82.5°	475.3	120.4	114.2	104.0	91.8
85°	257.0	97.9	100.0	95.9	83.6
87.5°	46.9	69.4	85.7	83.6	73.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)