

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: **8ILED-LD5-18-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: 8ILED-LD5-18-N-WG-UNV-L835-CD2-U  
Description: Metalux 8' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

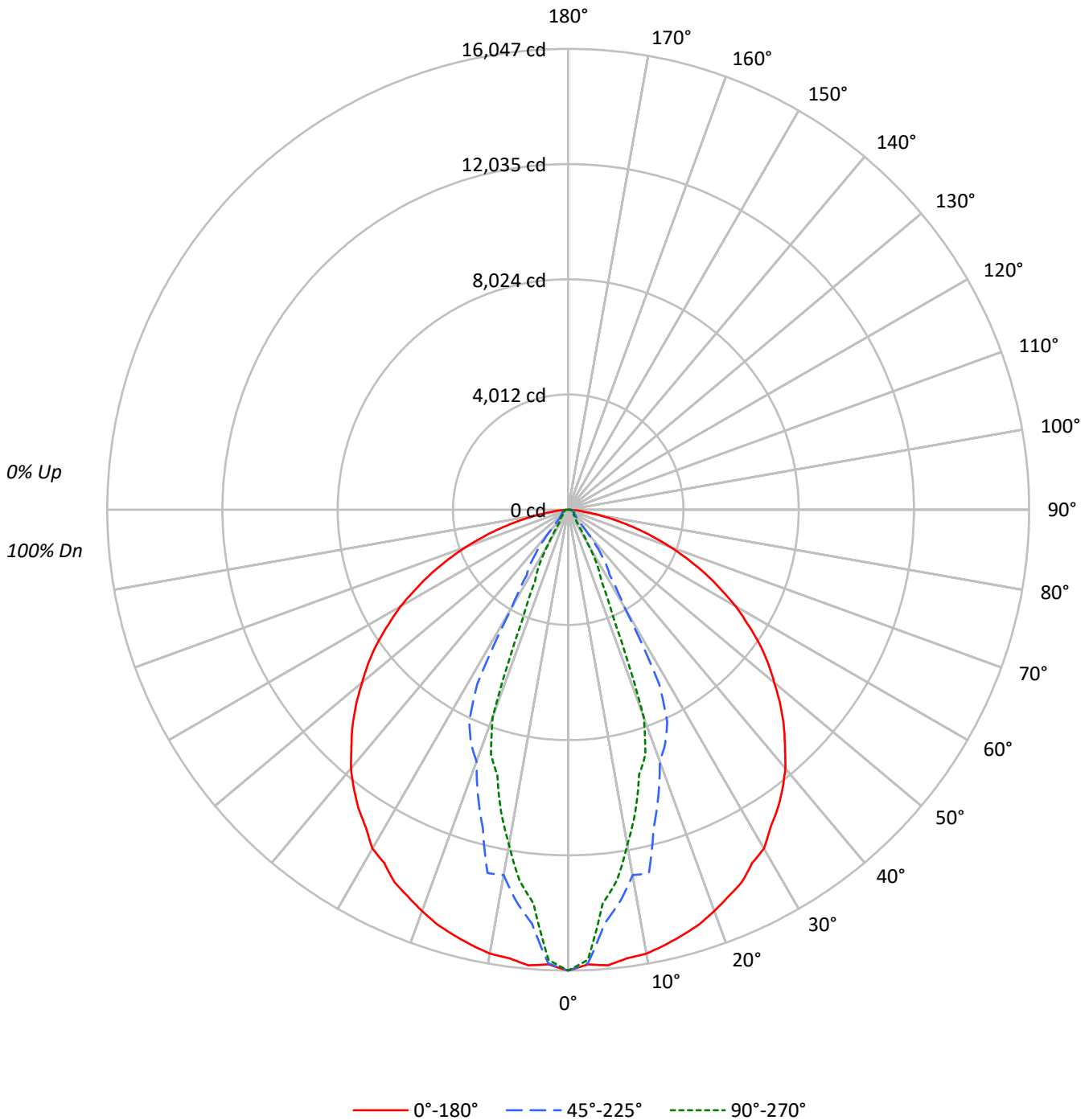
Lumens per Lamp: N/A  
Luminaire Lumens: 15932.0 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 131.3  
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°	23554	23554	23554
5°	23440	21166	20104
10°	23340	18974	17348
15°	23238	17066	14098
20°	23124	14127	11549
25°	23041	12701	4201
30°	22931	6330	2190
35°	22586	3832	834
40°	22305	1918	727
45°	21760	831	538
50°	21069	704	490
55°	20401	589	514
60°	19370	613	501
65°	17799	665	512
70°	15642	696	531
75°	12642	770	584
80°	8698	914	647
85°	4895	1097	810



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1370.7	8.6
10°-20°	3323.1	20.9
20°-30°	3620.0	22.7
30°-40°	2784.8	17.5
40°-50°	2057.6	12.9
50°-60°	1294.6	8.1
60°-70°	847.7	5.3
70°-80°	474.6	3.0
80°-90°	158.9	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°	8313.8	52.2
0°-40°	11098.5	69.7
0°-60°	14450.7	90.7
0°-90°	15932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15932.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16047	16047	16047	16047	16047	
5°	15926	15802	14473	13619	13775	###
15°	15343	13340	11489	9973	9549	4332
25°	14310	10693	8157	3633	2726	6579
35°	12715	7880	2267	722	501	7952
45°	10614	4197	435	366	287	8174
55°	8115	1076	258	272	232	7229
65°	5262	266	227	203	182	5190
75°	2333	200	179	161	145	2503
85°	332	126	129	124	108	424
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16047.3	16047.3	16047.3	16047.3	16047.3
2.5°	15849.5	15854.8	15815.3	15736.2	15686.1
5°	15926.0	15802.1	14473.4	13619.2	13774.7
7.5°	15752.0	15111.4	13774.7	13136.8	13012.9
10°	15694.0	14051.6	12923.2	12707.0	11863.4
12.5°	15527.9	13408.3	12962.8	11599.8	10790.4
15°	15343.4	13339.8	11489.1	9973.2	9548.7
17.5°	15143.0	12738.7	10439.8	9140.1	8937.1
20°	14871.5	12353.8	9327.3	8401.9	7687.5
22.5°	14578.8	12169.2	8823.7	5475.6	4244.5
25°	14309.9	10692.9	8156.8	3632.8	2726.0
27.5°	13867.0	10574.3	6851.8	2660.0	2248.8
30°	13627.1	9477.6	3920.2	2001.0	1373.5
32.5°	13107.8	8618.1	2683.8	1215.3	819.9
35°	12715.0	7879.9	2267.2	722.4	500.9
37.5°	12253.6	7392.2	1695.2	495.6	435.0
40°	11763.2	6817.5	1073.0	442.9	413.9
42.5°	11167.4	6140.0	635.4	416.5	355.9
45°	10613.8	4197.0	435.0	366.4	287.4
47.5°	10002.2	2863.0	371.7	311.1	247.8
50°	9364.2	1871.8	340.1	276.8	242.5
52.5°	8765.7	1534.3	295.3	276.8	242.5
55°	8114.6	1075.6	258.4	271.5	232.0
57.5°	7400.1	669.6	242.5	263.6	224.1
60°	6741.1	395.4	239.9	255.7	203.0
62.5°	5971.3	300.5	234.6	226.7	192.5
65°	5262.1	266.3	226.7	203.0	181.9
67.5°	4500.2	239.9	210.9	195.1	176.6
70°	3769.9	216.2	200.4	181.9	160.8
72.5°	3037.0	208.3	189.8	171.4	152.9
75°	2333.1	200.4	179.3	160.8	145.0
77.5°	1697.8	187.2	168.7	155.5	137.1
80°	1102.0	171.4	160.8	145.0	123.9
82.5°	614.3	155.5	147.6	134.5	118.6
85°	332.2	126.5	129.2	123.9	108.1
87.5°	60.6	89.6	110.7	108.1	94.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)