

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-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: 8ILED-LD5-18-N-TWBWG-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION

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

**Summary**

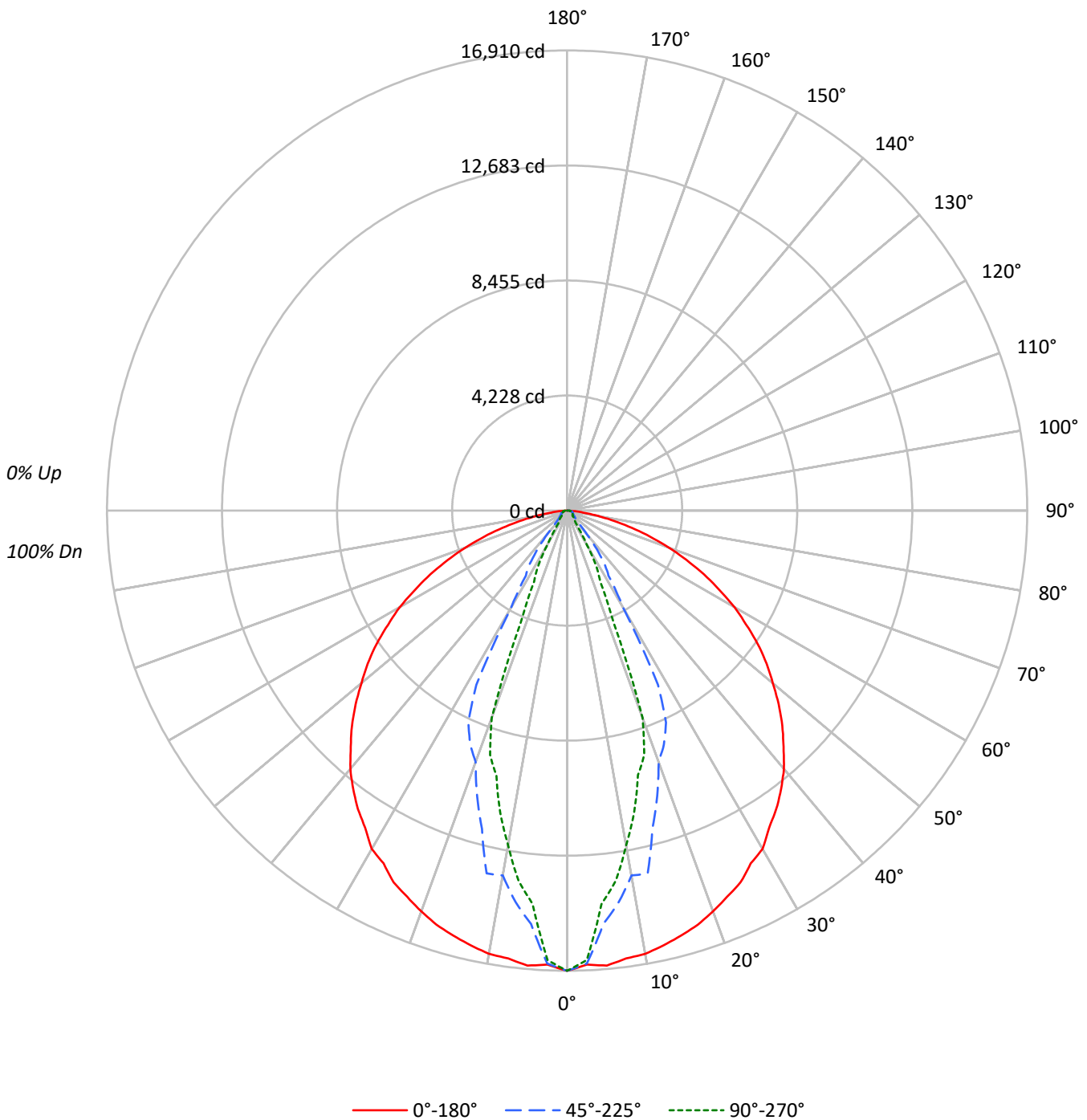
Lumens per Lamp: N/A  
Luminaire Lumens: 16789.0 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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°	24821	24821	24821
5°	24701	22305	21185
10°	24595	19994	18281
15°	24488	17983	14856
20°	24368	14887	12171
25°	24281	13384	4427
30°	24164	6671	2308
35°	23801	4038	879
40°	23505	2021	766
45°	22930	876	567
50°	22203	742	517
55°	21499	621	541
60°	20412	646	528
65°	18756	701	540
70°	16483	733	560
75°	13322	811	616
80°	9166	963	682
85°	5158	1156	854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1444.5	8.6
10°-20°	3501.8	20.9
20°-30°	3814.7	22.7
30°-40°	2934.6	17.5
40°-50°	2168.3	12.9
50°-60°	1364.3	8.1
60°-70°	893.3	5.3
70°-80°	500.1	3.0
80°-90°	167.5	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°	8761.0	52.2
0°-40°	11695.5	69.7
0°-60°	15228.1	90.7
0°-90°	16789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16789.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16910	16910	16910	16910	16910	
5°	16783	16652	15252	14352	14516	###
15°	16169	14057	12107	10510	10062	4565
25°	15080	11268	8596	3828	2873	6932
35°	13399	8304	2389	761	528	8379
45°	11185	4423	458	386	303	8614
55°	8551	1134	272	286	244	7618
65°	5545	281	239	214	192	5469
75°	2459	211	189	170	153	2638
85°	350	133	136	131	114	446
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	16910.5	16910.5	16910.5	16910.5	16910.5
2.5°	16702.1	16707.6	16666.0	16582.6	16529.8
5°	16782.7	16652.1	15251.9	14351.8	14515.7
7.5°	16599.3	15924.2	14515.7	13843.4	13712.8
10°	16538.2	14807.4	13618.4	13390.6	12501.6
12.5°	16363.2	14129.5	13660.0	12223.8	11370.9
15°	16168.7	14057.3	12107.1	10509.7	10062.4
17.5°	15957.6	13423.9	11001.4	9631.8	9417.8
20°	15671.4	13018.3	9829.0	8853.9	8101.0
22.5°	15363.0	12823.8	9298.4	5770.2	4472.8
25°	15079.7	11268.1	8595.5	3828.3	2872.6
27.5°	14612.9	11143.1	7220.3	2803.1	2369.7
30°	14360.1	9987.4	4131.1	2108.6	1447.4
32.5°	13812.8	9081.7	2828.1	1280.7	864.0
35°	13398.9	8303.8	2389.2	761.2	527.8
37.5°	12912.7	7789.9	1786.3	522.3	458.4
40°	12396.0	7184.2	1130.7	466.7	436.2
42.5°	11768.1	6470.3	669.5	438.9	375.0
45°	11184.7	4422.8	458.4	386.2	302.8
47.5°	10540.2	3017.0	391.7	327.8	261.1
50°	9867.9	1972.5	358.4	291.7	255.6
52.5°	9237.3	1616.9	311.2	291.7	255.6
55°	8551.1	1133.5	272.3	286.1	244.5
57.5°	7798.2	705.6	255.6	277.8	236.1
60°	7103.7	416.7	252.8	269.5	213.9
62.5°	6292.5	316.7	247.3	238.9	202.8
65°	5545.1	280.6	238.9	213.9	191.7
67.5°	4742.3	252.8	222.3	205.6	186.1
70°	3972.7	227.8	211.1	191.7	169.5
72.5°	3200.4	219.5	200.0	180.6	161.1
75°	2458.6	211.1	188.9	169.5	152.8
77.5°	1789.1	197.2	177.8	163.9	144.5
80°	1161.3	180.6	169.5	152.8	130.6
82.5°	647.3	163.9	155.6	141.7	125.0
85°	350.0	133.4	136.1	130.6	113.9
87.5°	63.9	94.5	116.7	113.9	100.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)