

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-LD5-14-N-TWBWG-UNV-L840-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-LD5-14-N-TWBWG-UNV-L840-CD2-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE AND WIREGUARD DISTRIBUTION  
  
Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

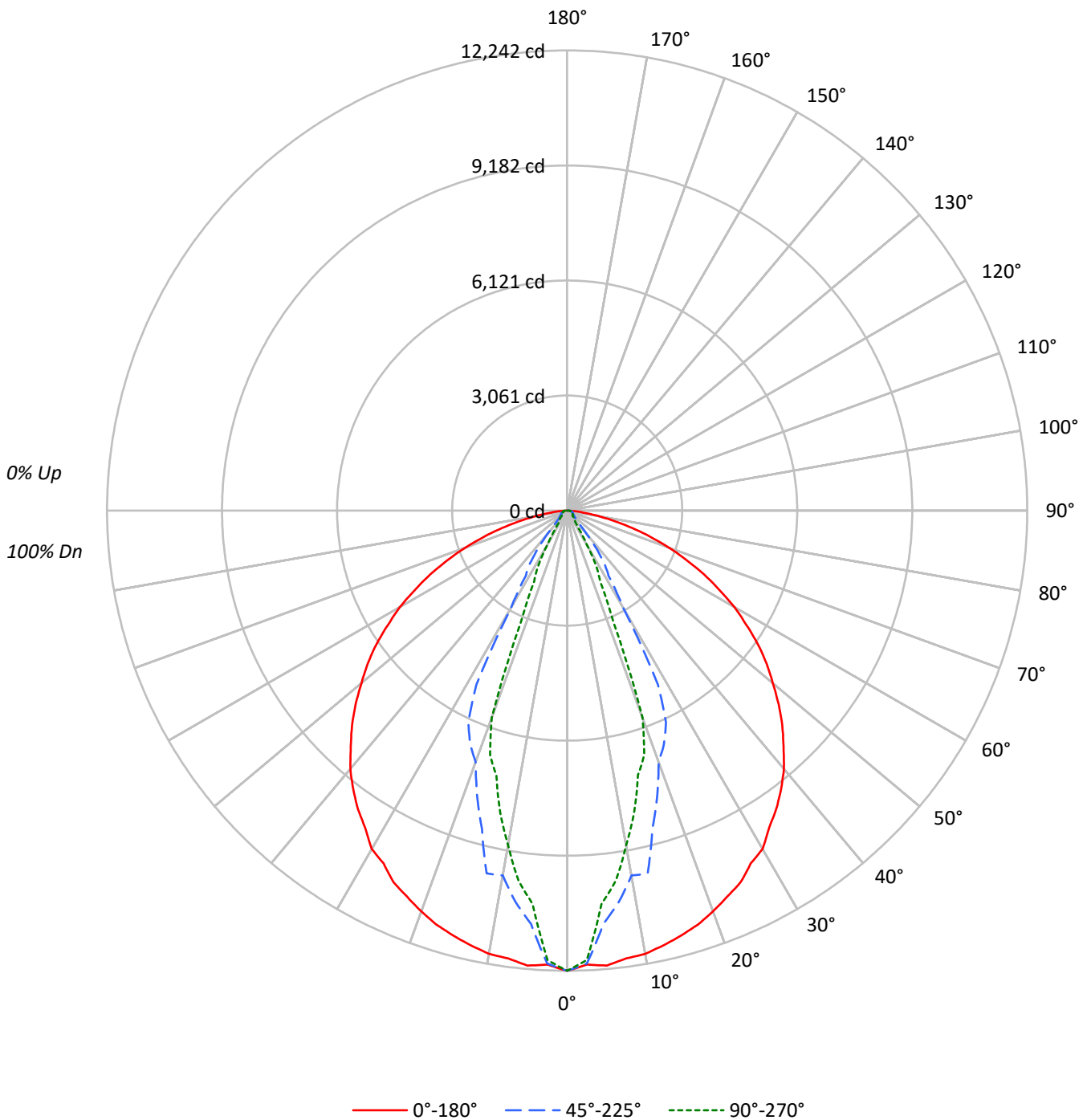
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12154.0 lumens  
Efficiency: N/A  
Efficacy: 120.6 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): 100.8  
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	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°	17969	17969	17969
5°	17882	16147	15337
10°	17805	14474	13234
15°	17727	13019	10755
20°	17641	10777	8811
25°	17577	9689	3205
30°	17493	4829	1671
35°	17230	2923	636
40°	17016	1463	554
45°	16600	634	410
50°	16073	537	374
55°	15563	449	392
60°	14776	468	382
65°	13578	507	391
70°	11933	530	405
75°	9644	587	446
80°	6636	697	493
85°	3734	837	618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1045.7	8.6
10°-20°	2535.0	20.9
20°-30°	2761.6	22.7
30°-40°	2124.4	17.5
40°-50°	1569.7	12.9
50°-60°	987.6	8.1
60°-70°	646.7	5.3
70°-80°	362.1	3.0
80°-90°	121.2	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°	6342.3	52.2
0°-40°	8466.7	69.7
0°-60°	11024.0	90.7
0°-90°	12154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12154.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12242	12242	12242	12242	12242	
5°	12149	12055	11041	10390	10508	###
15°	11705	10176	8765	7608	7284	3305
25°	10917	8157	6222	2771	2080	5019
35°	9700	6011	1730	551	382	6066
45°	8097	3202	332	280	219	6236
55°	6190	821	197	207	177	5515
65°	4014	203	173	155	139	3959
75°	1780	153	137	123	111	1910
85°	253	96	98	94	82	323
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12241.9	12241.9	12241.9	12241.9	12241.9
2.5°	12091.1	12095.1	12064.9	12004.6	11966.4
5°	12149.4	12054.9	11041.3	10389.6	10508.3
7.5°	12016.7	11528.0	10508.3	10021.6	9927.1
10°	11972.4	10719.5	9858.7	9693.8	9050.2
12.5°	11845.7	10228.8	9888.9	8849.1	8231.7
15°	11704.9	10176.5	8764.6	7608.2	7284.4
17.5°	11552.1	9717.9	7964.2	6972.7	6817.8
20°	11344.9	9424.3	7115.5	6409.6	5864.5
22.5°	11121.7	9283.5	6731.3	4177.2	3238.0
25°	10916.6	8157.3	6222.5	2771.4	2079.5
27.5°	10578.7	8066.8	5227.0	2029.3	1715.5
30°	10395.7	7230.1	2990.6	1526.5	1047.8
32.5°	9999.5	6574.5	2047.4	927.1	625.5
35°	9699.8	6011.4	1729.6	551.1	382.1
37.5°	9347.9	5639.3	1293.2	378.1	331.8
40°	8973.8	5200.9	818.5	337.9	315.8
42.5°	8519.3	4684.0	484.7	317.8	271.5
45°	8096.9	3201.8	331.8	279.6	219.2
47.5°	7630.3	2184.1	283.6	237.3	189.0
50°	7143.6	1427.9	259.4	211.2	185.0
52.5°	6687.1	1170.5	225.2	211.2	185.0
55°	6190.3	820.6	197.1	207.1	177.0
57.5°	5645.3	510.8	185.0	201.1	170.9
60°	5142.5	301.7	183.0	195.1	154.9
62.5°	4555.3	229.3	179.0	173.0	146.8
65°	4014.3	203.1	173.0	154.9	138.8
67.5°	3433.0	183.0	160.9	148.8	134.7
70°	2876.0	164.9	152.8	138.8	122.7
72.5°	2316.9	158.9	144.8	130.7	116.6
75°	1779.9	152.8	136.8	122.7	110.6
77.5°	1295.2	142.8	128.7	118.7	104.6
80°	840.7	130.7	122.7	110.6	94.5
82.5°	468.6	118.7	112.6	102.6	90.5
85°	253.4	96.5	98.5	94.5	82.5
87.5°	46.3	68.4	84.5	82.5	72.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)