

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-W-CL-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 (P34177)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-14-W-CL-UNV-L840-CD2-U  
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

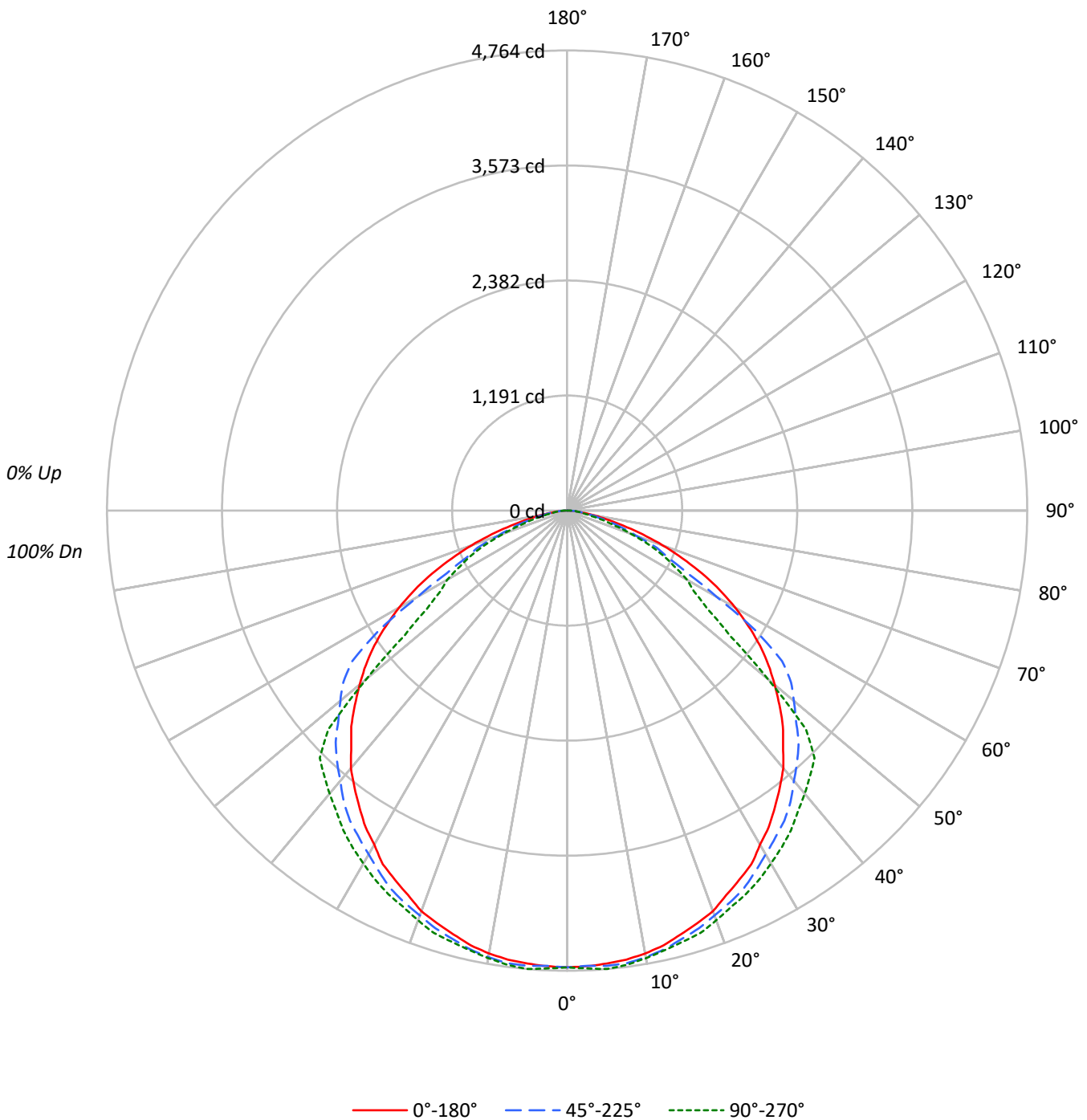
Lumens per Lamp: N/A  
Luminaire Lumens: 12807.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: 4ILED-LD5-14-W-CL-UNV-L840-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-14-W-CL-UNV-L840-CD2-U

**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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	70	65		72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57		67	61	56		65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

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

	0°	45°	90°
0°	13883	13883	13883
5°	13843	13827	13905
10°	13818	13764	13758
15°	13713	13606	13646
20°	13663	13473	13562
25°	13502	13403	13502
30°	13345	13212	13454
35°	13204	13175	13450
40°	13067	12967	13433
45°	12798	12851	13558
50°	12434	12579	10965
55°	12037	12247	7845
60°	11302	9031	7084
65°	10169	6614	6157
70°	8475	5179	4629
75°	6212	3824	3089
80°	3964	2667	1931
85°	1967	1587	1444



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-14-W-CL-UNV-L840-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.7	3.5
10°-20°	1299.3	10.1
20°-30°	1989.2	15.5
30°-40°	2448.5	19.1
40°-50°	2595.1	20.3
50°-60°	2084.2	16.3
60°-70°	1295.3	10.1
70°-80°	533.1	4.2
80°-90°	111.7	0.9
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
<hr/>		
0°-30°	3739.1	29.2
0°-40°	6187.6	48.3
0°-60°	10866.9	84.9
0°-90°	12807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12807.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4729	4729	4729	4729	4729	
5°	4708	4720	4731	4756	4764	448
15°	4542	4606	4590	4621	4621	1284
25°	4217	4261	4321	4369	4381	1945
35°	3749	3842	3920	4019	4040	2348
45°	3160	3229	3389	3551	3622	2431
55°	2436	2544	2717	1939	1772	2168
65°	1542	1652	1146	1088	1094	1520
75°	599	551	456	408	383	657
85°	75	92	98	98	96	107
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-14-W-CL-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4729.1	4729.1	4729.1	4729.1	4729.1
2.5°	4721.4	4727.2	4717.6	4738.8	4744.5
5°	4708.0	4719.5	4731.1	4756.1	4763.8
7.5°	4688.7	4713.7	4727.2	4742.6	4742.6
10°	4656.0	4694.5	4694.5	4700.3	4704.1
12.5°	4609.8	4661.7	4652.1	4656.0	4661.7
15°	4542.4	4605.9	4590.5	4621.3	4621.3
17.5°	4478.8	4532.7	4534.7	4573.2	4586.6
20°	4413.3	4457.6	4461.5	4517.3	4513.5
22.5°	4307.4	4374.8	4394.1	4424.9	4440.3
25°	4216.9	4261.2	4320.9	4369.1	4380.6
27.5°	4130.3	4166.9	4215.0	4297.8	4307.4
30°	3993.6	4070.6	4111.0	4220.8	4218.9
32.5°	3885.7	3955.1	4012.8	4118.7	4134.1
35°	3749.0	3841.5	3920.4	4018.6	4039.8
37.5°	3616.2	3700.9	3799.1	3895.4	3924.3
40°	3481.4	3558.4	3652.8	3768.3	3826.1
42.5°	3308.1	3402.4	3525.7	3658.5	3724.0
45°	3159.8	3229.1	3389.0	3550.7	3621.9
47.5°	2980.7	3071.2	3211.8	3417.8	3352.4
50°	2803.6	2907.6	3065.5	3096.3	2713.1
52.5°	2628.4	2732.3	2923.0	2449.3	2122.0
55°	2435.8	2543.6	2716.9	1939.0	1771.5
57.5°	2225.9	2328.0	2312.6	1609.8	1552.0
60°	2008.3	2108.5	1790.8	1409.5	1434.5
62.5°	1783.1	1890.9	1405.6	1288.2	1249.7
65°	1542.4	1652.1	1145.7	1087.9	1093.7
67.5°	1292.0	1384.5	1005.1	928.1	908.9
70°	1055.2	1082.2	760.6	739.4	700.9
72.5°	818.4	783.7	604.6	558.4	518.0
75°	598.8	550.7	456.4	408.2	383.2
77.5°	415.9	381.3	329.3	346.6	256.1
80°	267.7	248.4	242.6	192.6	184.9
82.5°	157.9	156.0	150.2	138.6	134.8
85°	75.1	92.4	98.2	98.2	96.3
87.5°	27.0	46.2	61.6	65.5	69.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)