

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-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 (P34173)  
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-UNV-L840-CD2-U  
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

**Summary**

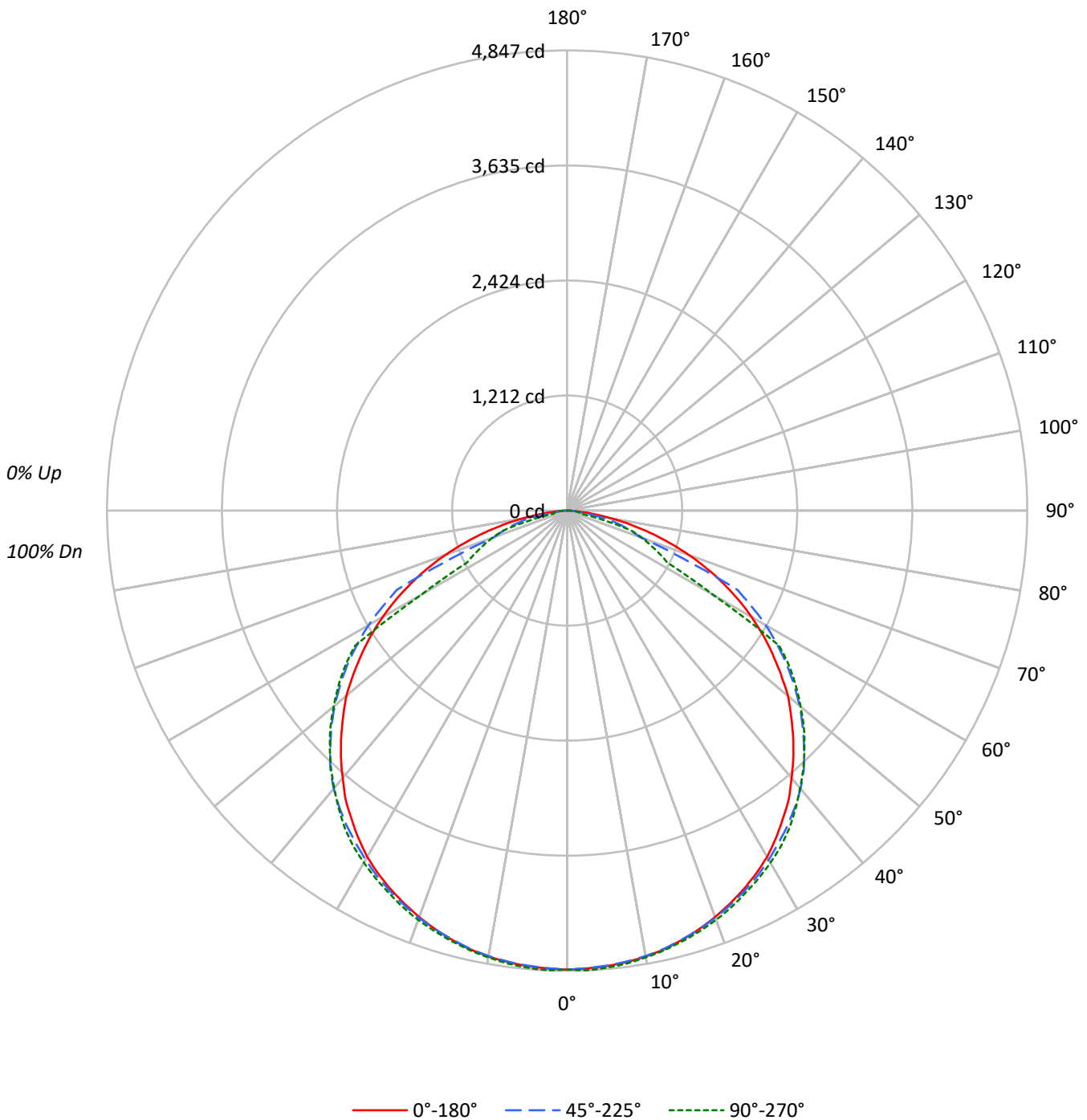
Lumens per Lamp: N/A  
Luminaire Lumens: 13953.0 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	14194	14194	14194
5°	14160	14063	14108
10°	14155	13967	13978
15°	14132	13857	13868
20°	14104	13787	13787
25°	14087	13708	13698
30°	14072	13646	13656
35°	13957	13609	13591
40°	13804	13582	13406
45°	13633	13377	13233
50°	13467	13116	12973
55°	13065	12733	12654
60°	12635	12197	8786
65°	11959	11438	6027
70°	10934	5573	5519
75°	9349	4840	3446
80°	6928	2858	1408
85°	3429	1432	1300



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.7	3.3
10°-20°	1324.3	9.5
20°-30°	2041.9	14.6
30°-40°	2528.4	18.1
40°-50°	2691.5	19.3
50°-60°	2483.6	17.8
60°-70°	1590.2	11.4
70°-80°	716.3	5.1
80°-90°	118.3	0.8
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°	3824.8	27.4
0°-40°	6353.2	45.5
0°-60°	11528.3	82.6
0°-90°	13953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13953.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4835	4835	4835	4835	4835	
5°	4816	4824	4812	4826	4833	458
15°	4681	4689	4675	4698	4696	1322
25°	4400	4412	4419	4448	4444	2029
35°	3963	4003	4050	4092	4082	2480
45°	3366	3435	3528	3551	3535	2597
55°	2644	2740	2825	2871	2858	2365
65°	1814	1900	1981	1094	1071	1791
75°	901	980	578	593	428	958
85°	131	98	89	94	87	191
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4835.1	4835.1	4835.1	4835.1	4835.1
2.5°	4827.4	4837.0	4823.5	4837.0	4846.7
5°	4815.8	4823.5	4812.0	4825.5	4833.2
7.5°	4796.6	4804.3	4790.8	4804.3	4812.0
10°	4769.6	4773.5	4763.9	4777.3	4779.3
12.5°	4731.1	4735.0	4727.3	4740.7	4742.7
15°	4681.1	4688.8	4675.3	4698.4	4696.5
17.5°	4623.3	4631.0	4625.2	4642.5	4644.5
20°	4555.9	4563.6	4565.5	4586.7	4588.6
22.5°	4480.8	4492.4	4494.3	4523.2	4521.2
25°	4399.9	4411.5	4419.2	4448.1	4444.2
27.5°	4311.3	4326.8	4338.3	4367.2	4367.2
30°	4211.2	4232.4	4245.9	4284.4	4282.5
32.5°	4091.8	4132.3	4147.7	4195.8	4192.0
35°	3962.8	4003.3	4049.5	4091.8	4082.2
37.5°	3835.7	3876.2	3939.7	3964.7	3953.2
40°	3677.8	3745.2	3826.1	3835.7	3818.4
42.5°	3527.6	3581.6	3691.3	3697.1	3681.7
45°	3365.9	3435.2	3527.6	3550.7	3535.3
47.5°	3198.4	3258.1	3365.9	3394.8	3383.2
50°	3036.6	3090.5	3196.4	3225.3	3209.9
52.5°	2838.3	2919.2	3009.7	3055.9	3038.5
55°	2643.8	2740.1	2824.8	2871.0	2857.5
57.5°	2449.3	2555.2	2618.8	2682.3	2649.6
60°	2245.2	2349.2	2418.5	2389.6	1779.2
62.5°	2033.4	2133.5	2191.3	1469.2	1191.9
65°	1813.9	1900.5	1981.4	1093.7	1070.6
67.5°	1590.5	1677.2	1319.0	972.4	951.2
70°	1361.4	1442.3	818.4	847.3	835.7
72.5°	1130.3	1207.3	702.8	735.6	720.2
75°	901.2	980.1	577.7	593.1	427.5
77.5°	687.4	675.9	466.0	327.3	146.3
80°	467.9	311.9	260.0	136.7	134.8
82.5°	290.8	209.9	109.8	121.3	119.4
85°	130.9	98.2	88.6	94.4	86.7
87.5°	46.2	48.1	53.9	50.1	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)