

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-FL-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 (P34181)  
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-FL-UNV-L835-CD2-U  
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

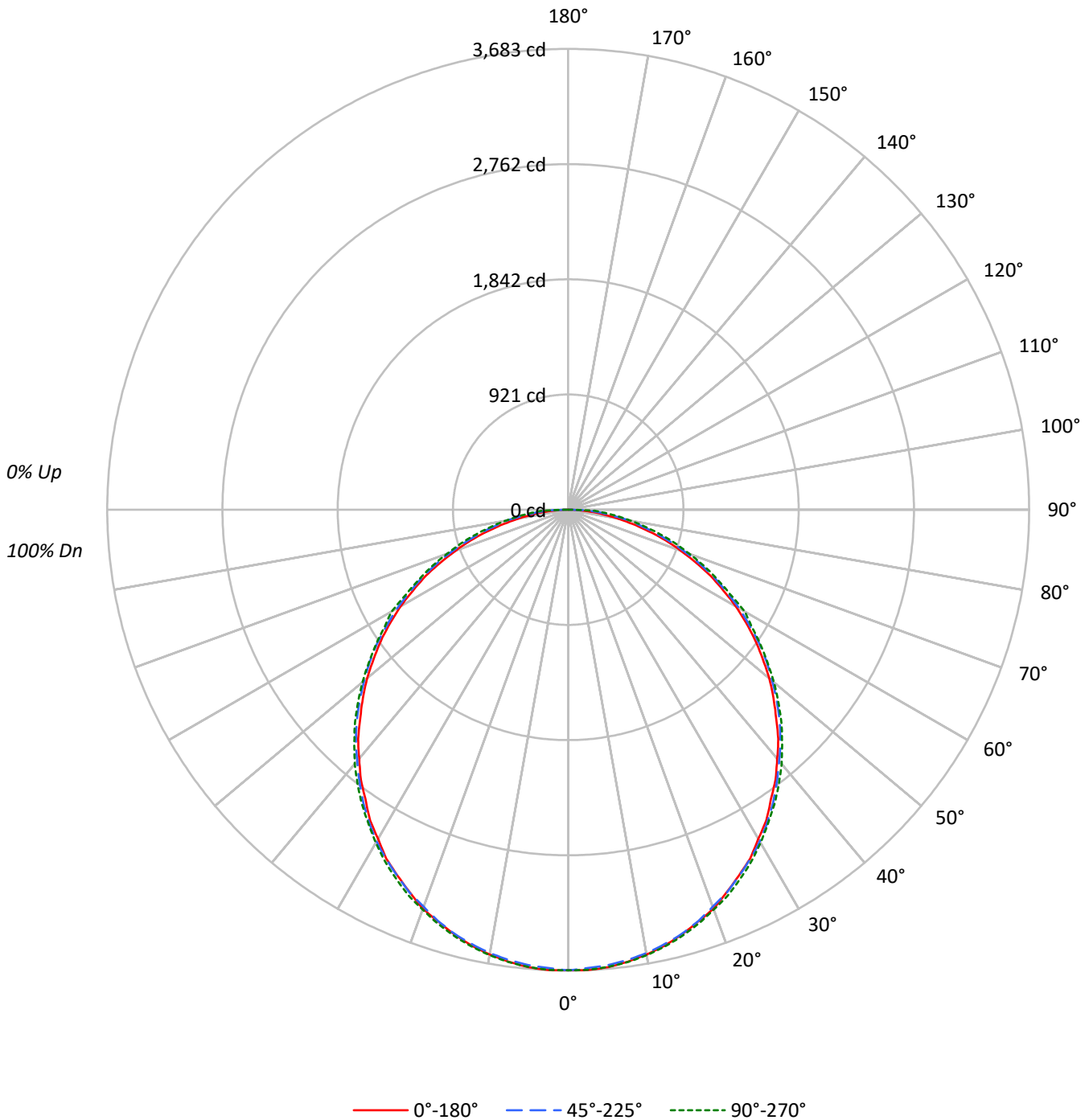
Lumens per Lamp: N/A  
Luminaire Lumens: 10423.0 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	10806	10806	10806
5°	10791	10676	10706
10°	10712	10549	10573
15°	10606	10401	10413
20°	10508	10198	10221
25°	10330	10019	10031
30°	10150	9840	9806
35°	9947	9592	9566
40°	9750	9308	9312
45°	9512	9055	9017
50°	9301	8730	8675
55°	9030	8399	8301
60°	8701	7959	8045
65°	8288	7453	7386
70°	7672	6800	6794
75°	6913	6073	6133
80°	5925	5396	5303
85°	4697	3997	4415



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.9	3.3
10°-20°	991.8	9.5
20°-30°	1492.3	14.3
30°-40°	1785.4	17.1
40°-50°	1839.9	17.7
50°-60°	1658.8	15.9
60°-70°	1274.0	12.2
70°-80°	767.1	7.4
80°-90°	265.9	2.6
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°	2832.0	27.2
0°-40°	4617.4	44.3
0°-60°	8116.0	77.9
0°-90°	10423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10423.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3681	3681	3681	3681	3681	
5°	3670	3666	3653	3666	3668	348
15°	3513	3517	3509	3524	3526	991
25°	3226	3228	3230	3249	3254	1488
35°	2824	2852	2854	2871	2873	1770
45°	2348	2369	2388	2407	2409	1815
55°	1827	1842	1863	1874	1874	1631
65°	1257	1261	1291	1306	1312	1239
75°	666	685	725	751	761	708
85°	179	208	247	281	294	202
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3681.1	3681.1	3681.1	3681.1	3681.1
2.5°	3683.0	3681.1	3666.0	3677.3	3681.1
5°	3669.8	3666.0	3652.8	3666.0	3667.9
7.5°	3643.3	3641.5	3630.1	3643.3	3647.1
10°	3609.4	3609.4	3598.0	3611.3	3615.0
12.5°	3567.8	3565.9	3556.5	3571.6	3575.4
15°	3513.1	3516.9	3509.3	3524.4	3526.3
17.5°	3452.7	3454.6	3448.9	3462.1	3467.8
20°	3394.2	3384.7	3377.2	3399.8	3401.7
22.5°	3309.2	3313.0	3311.1	3331.9	3335.6
25°	3226.2	3228.0	3229.9	3248.8	3254.5
27.5°	3145.0	3143.1	3148.8	3163.9	3169.5
30°	3037.4	3052.5	3061.9	3073.2	3075.1
32.5°	2944.9	2950.5	2961.9	2969.4	2971.3
35°	2824.1	2852.4	2854.3	2871.3	2873.1
37.5°	2720.2	2729.7	2739.1	2759.9	2763.7
40°	2597.5	2610.8	2622.1	2641.0	2652.3
42.5°	2484.3	2499.4	2510.7	2527.7	2529.6
45°	2348.4	2369.1	2388.0	2406.9	2408.8
47.5°	2223.8	2244.5	2259.6	2274.7	2276.6
50°	2097.3	2114.3	2127.5	2146.4	2146.4
52.5°	1957.6	1978.4	1999.1	2006.7	2006.7
55°	1827.3	1842.4	1863.2	1874.5	1874.5
57.5°	1685.8	1693.3	1716.0	1736.7	1736.7
60°	1546.1	1555.5	1578.2	1593.3	1629.1
62.5°	1396.9	1412.0	1427.1	1476.2	1455.5
65°	1257.2	1261.0	1291.2	1306.3	1312.0
67.5°	1102.4	1115.7	1145.9	1162.9	1174.2
70°	955.2	972.2	998.6	1019.4	1028.8
72.5°	815.5	823.1	857.0	885.4	898.6
75°	666.4	685.3	724.9	751.3	760.8
77.5°	524.8	555.0	592.8	685.3	632.4
80°	400.2	422.9	490.8	494.6	507.8
82.5°	279.4	305.8	351.1	381.3	396.4
85°	179.3	207.7	247.3	281.3	294.5
87.5°	83.1	113.3	164.2	202.0	213.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)