

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: P856441

Luminaire Tested: **12MMS-L3C5-UNV-LOW-3500K**

Issue Date: 7/30/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-156-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12MMS-L3C5-UNV-LOW-3500K  
Description: 1x2 Multi-mount Selectable Direct Mound LED Backlit Panel atLOW and 3500K settings  
Light Source: -  
Ballast/Driver: -

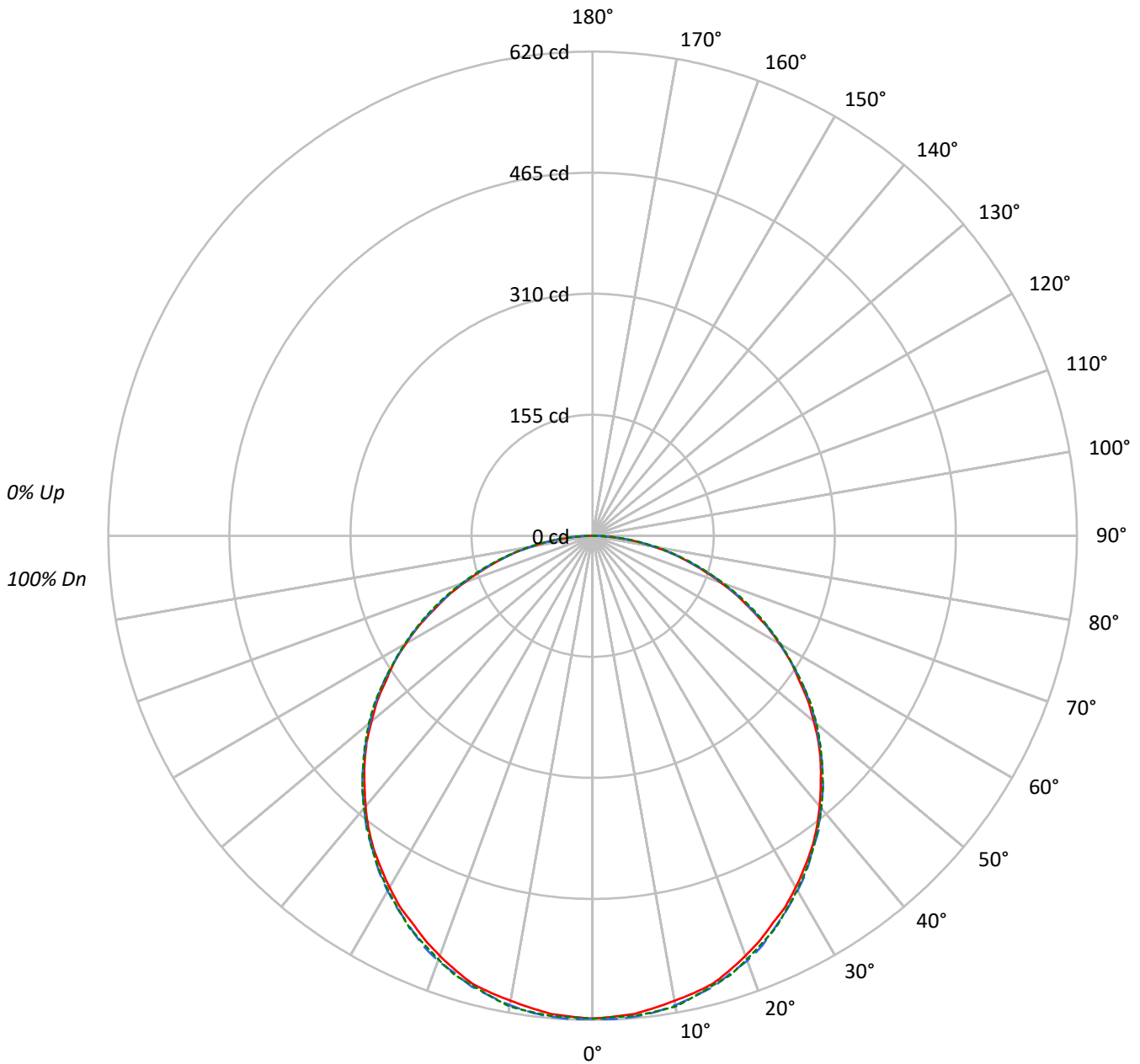
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1800.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 19  
Input Voltage (V): NR  
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									
RC	80									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																			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24																			

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

	0°	45°	90°
0°	4356	4356	4356
5°	4347	4373	4364
10°	4325	4365	4379
15°	4333	4360	4346
20°	4291	4342	4328
25°	4251	4299	4308
30°	4230	4271	4261
35°	4205	4221	4226
40°	4159	4182	4187
45°	4115	4140	4140
50°	4050	4084	4097
55°	3965	4012	4012
60°	3883	3900	3919
65°	3733	3764	3816
70°	3576	3640	3665
75°	3422	3438	3522
80°	3181	3205	3355
85°	2813	2870	2967



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.6	3.3
10°-20°	168.1	9.3
20°-30°	254.4	14.1
30°-40°	307.1	17.1
40°-50°	320.1	17.8
50°-60°	291.3	16.2
60°-70°	224.8	12.5
70°-80°	134.9	7.5
80°-90°	40.6	2.3
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°	481.1	26.7
0°-40°	788.3	43.8
0°-60°	1399.7	77.8
0°-90°	1800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	615	615	618	618	617	58
15°	594	595	598	596	596	167
25°	547	552	553	552	554	253
35°	489	491	491	493	491	306
45°	413	414	416	416	416	318
55°	323	326	327	327	327	289
65°	224	226	226	228	229	223
75°	126	128	126	129	129	133
85°	35	35	36	36	37	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	618.3	618.3	618.3	618.3	618.3
2.5°	616.4	617.7	619.6	619.6	617.1
5°	614.6	615.2	618.3	617.7	617.1
7.5°	609.6	612.1	615.2	615.2	614.6
10°	604.6	607.7	610.2	610.8	612.1
12.5°	599.6	601.5	604.0	605.2	604.0
15°	594.1	595.3	597.8	596.5	595.9
17.5°	583.5	585.3	587.2	587.2	589.1
20°	572.3	573.5	579.1	579.1	577.3
22.5°	560.5	562.3	567.9	565.4	565.4
25°	546.8	551.8	553.0	552.4	554.2
27.5°	535.0	536.8	539.3	539.9	538.7
30°	520.0	521.9	525.0	523.8	523.8
32.5°	504.5	506.3	509.5	508.8	508.2
35°	488.9	491.4	490.8	492.7	491.4
37.5°	471.5	471.5	475.2	474.0	473.4
40°	452.2	454.1	454.7	455.3	455.3
42.5°	432.3	434.8	436.7	435.4	436.1
45°	413.0	413.7	415.5	415.5	415.5
47.5°	392.5	393.8	393.8	395.0	395.0
50°	369.5	372.0	372.6	374.5	373.8
52.5°	347.7	347.7	350.2	351.5	351.5
55°	322.8	326.0	326.6	326.6	326.6
57.5°	301.1	302.3	301.1	302.9	301.7
60°	275.6	276.8	276.8	278.1	278.1
62.5°	251.3	251.9	252.5	253.8	253.8
65°	223.9	226.4	225.8	228.3	228.9
67.5°	200.3	201.5	201.5	203.4	204.0
70°	173.6	176.0	176.7	179.1	177.9
72.5°	149.3	151.2	152.4	153.0	153.0
75°	125.7	127.5	126.3	128.8	129.4
77.5°	103.9	102.6	103.3	104.5	104.5
80°	78.4	79.6	79.0	80.2	82.7
82.5°	56.6	57.2	57.9	58.5	58.5
85°	34.8	34.8	35.5	36.1	36.7
87.5°	15.6	16.2	16.2	15.6	16.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)