

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: P856456

Luminaire Tested: **22MMS-L3C3-UNV-MEDIUM-4000K**

Issue Date: 7/30/2024

Test Information

Test Method: LM-79-08
Report Number: P856456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-156-28)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22MMS-L3C3-UNV-MEDIUM-4000K
Description: 2x2 Multi-mount Selectable Direct Mound LED Backlit Panel at MEDIUM
and 4000K settings
Light Source: -
Ballast/Driver: -

Summary

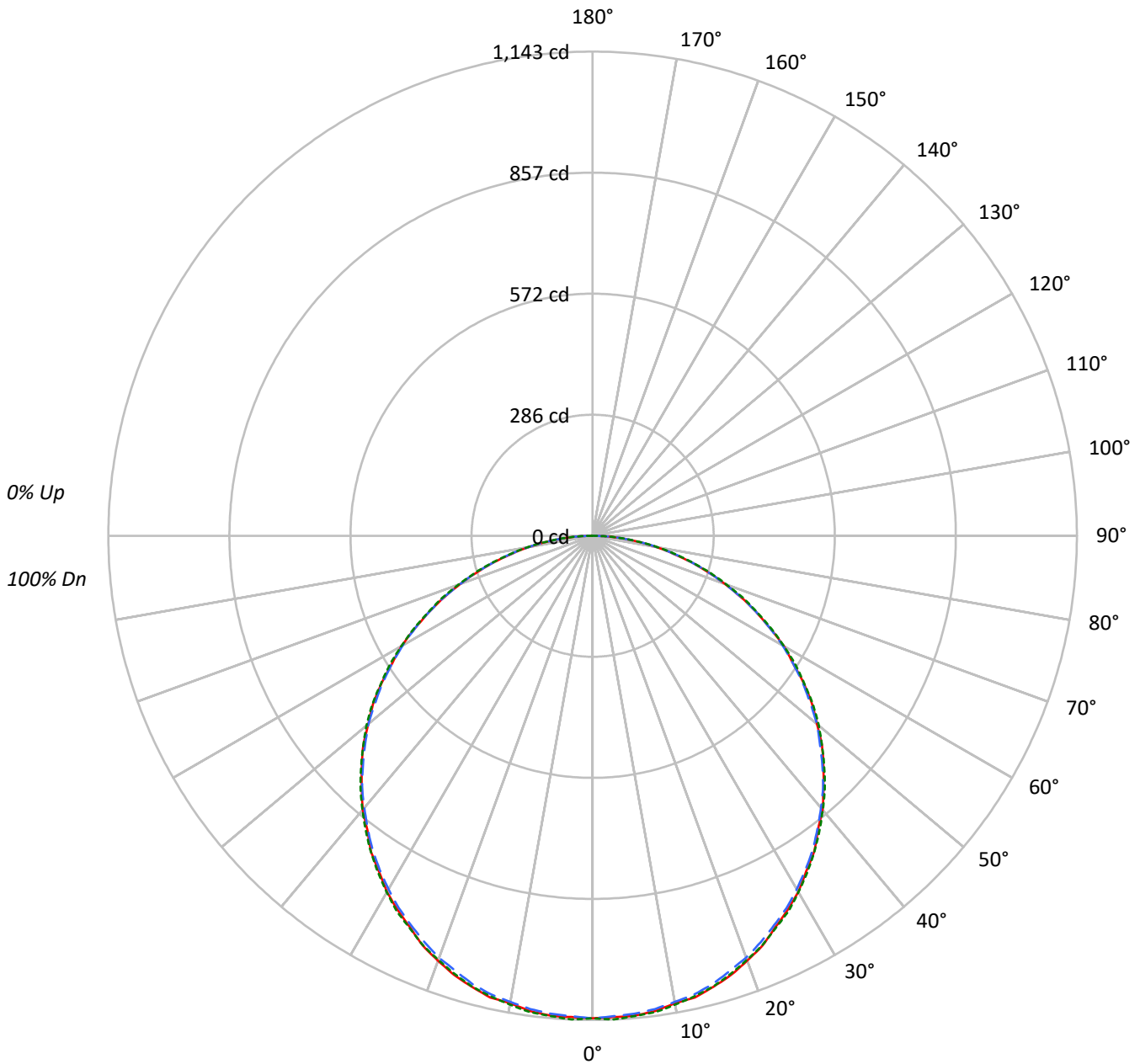
Lumens per Lamp: N/A
Luminaire Lumens: 3350.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3648	3648	3648
5°	3656	3641	3659
10°	3643	3633	3655
15°	3654	3632	3651
20°	3637	3611	3631
25°	3604	3584	3611
30°	3590	3562	3594
35°	3563	3540	3566
40°	3529	3505	3533
45°	3489	3472	3502
50°	3443	3443	3471
55°	3399	3378	3410
60°	3336	3312	3342
65°	3224	3224	3245
70°	3107	3107	3142
75°	2971	2983	3029
80°	2807	2824	2894
85°	2502	2572	2605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.2
10°-20°	309.7	9.2
20°-30°	469.9	14.0
30°-40°	568.0	17.0
40°-50°	593.9	17.7
50°-60°	543.4	16.2
60°-70°	422.7	12.6
70°-80°	255.9	7.6
80°-90°	78.5	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°	887.5	26.5
0°-40°	1455.6	43.4
0°-60°	2592.9	77.4
0°-90°	3350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1137	1137	1132	1134	1138	108
15°	1102	1098	1096	1096	1101	311
25°	1020	1020	1014	1019	1022	471
35°	911	908	906	908	912	569
45°	770	768	767	770	773	595
55°	609	608	605	610	611	543
65°	425	426	425	427	428	421
75°	240	239	241	245	245	254
85°	68	68	70	71	71	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.1	1139.1	1139.1	1139.1	<i>1139.1</i>
2.5°	<i>1137.2</i>	<i>1140.0</i>	<i>1135.3</i>	<i>1138.1</i>	<i>1142.9</i>
5°	1137.2	1137.2	1132.5	1134.4	<i>1138.1</i>
7.5°	1131.5	1133.4	1126.8	1129.6	<i>1134.4</i>
10°	1120.2	1121.1	1117.3	1121.1	<i>1124.0</i>
12.5°	1116.4	1110.7	1108.8	1109.8	<i>1113.6</i>
15°	1102.2	1098.4	1095.6	1096.5	<i>1101.3</i>
17.5°	1087.1	1080.5	1076.7	1080.5	<i>1084.3</i>
20°	1067.2	1062.5	1059.7	1063.5	<i>1065.3</i>
22.5°	1047.4	1045.5	1037.9	1043.6	<i>1046.4</i>
25°	1020.0	1020.0	1014.3	1019.0	<i>1021.9</i>
27.5°	996.3	996.3	990.7	994.5	<i>1000.1</i>
30°	970.8	968.0	963.3	968.0	<i>971.8</i>
32.5°	938.7	939.6	934.9	939.6	<i>942.5</i>
35°	911.3	908.4	905.6	907.5	<i>912.2</i>
37.5°	873.5	874.4	871.6	877.2	<i>879.1</i>
40°	844.1	841.3	838.5	843.2	<i>845.1</i>
42.5°	806.3	806.3	805.4	808.2	<i>811.1</i>
45°	770.4	768.5	766.6	770.4	<i>773.3</i>
47.5°	734.5	731.7	727.9	732.6	<i>734.5</i>
50°	691.0	691.0	691.0	694.8	<i>696.7</i>
52.5°	653.2	649.4	646.6	654.1	<i>656.0</i>
55°	608.8	607.8	605.0	609.7	<i>610.7</i>
57.5°	560.6	565.3	560.6	566.2	<i>568.1</i>
60°	520.9	519.0	517.1	521.8	<i>521.8</i>
62.5°	471.7	471.7	471.7	476.4	<i>476.4</i>
65°	425.4	426.3	425.4	427.3	<i>428.2</i>
67.5°	379.1	379.1	380.0	382.8	<i>385.7</i>
70°	331.8	334.6	331.8	336.5	<i>335.6</i>
72.5°	285.5	286.4	287.4	290.2	<i>291.2</i>
75°	240.1	239.2	241.1	244.8	<i>244.8</i>
77.5°	193.8	194.7	196.6	198.5	<i>199.5</i>
80°	152.2	151.2	153.1	155.0	<i>156.9</i>
82.5°	108.7	108.7	111.5	111.5	<i>112.5</i>
85°	68.1	68.1	70.0	70.9	<i>70.9</i>
87.5°	32.1	31.2	32.1	31.2	<i>32.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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







(END OF REPORT)