

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P893065

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRF-UNV-CC83-HI-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

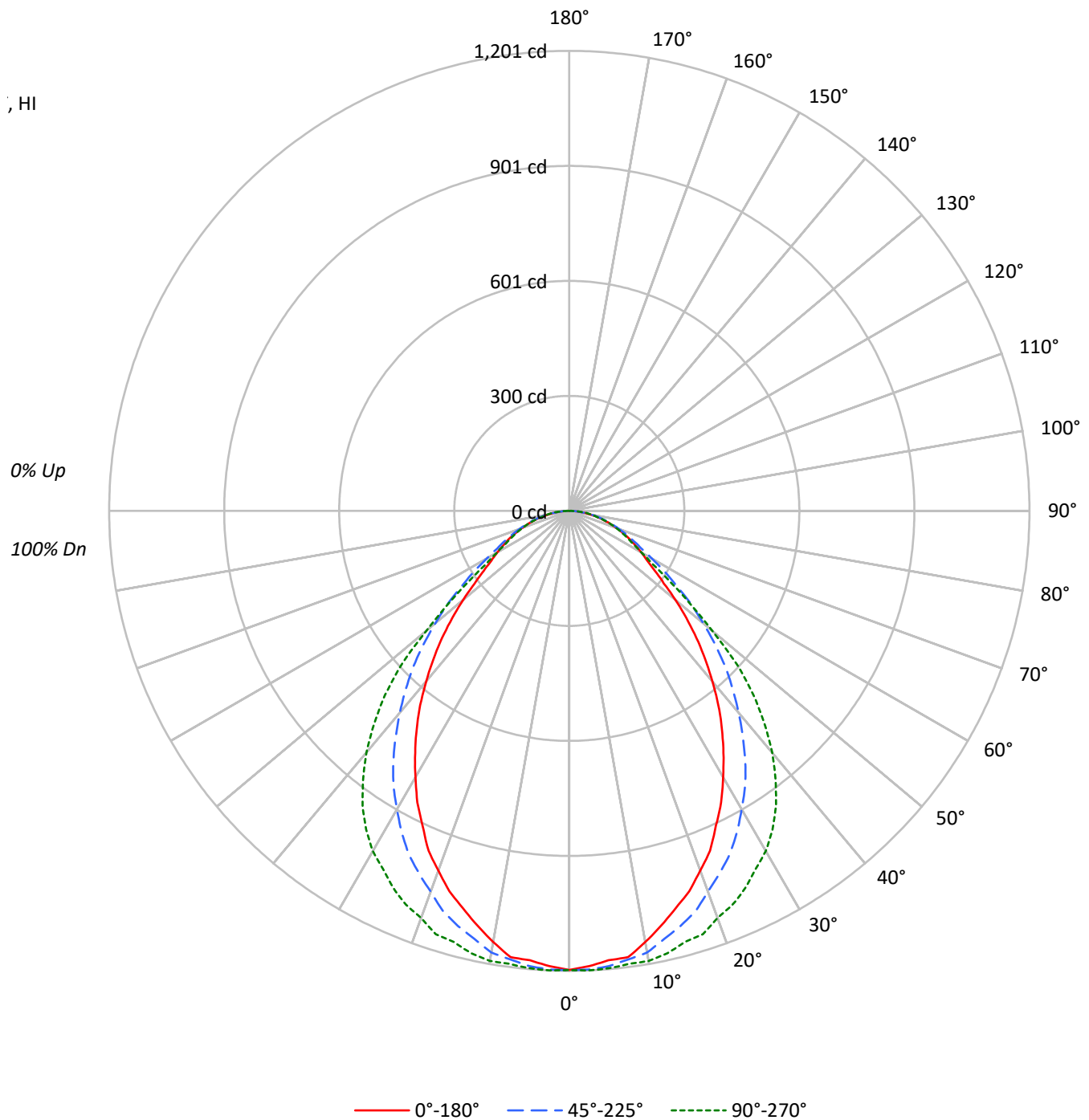
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2429.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	42	42	42	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	38	38	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	32	32	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17145	17145	17145
5°	16908	17130	17211
10°	16605	17007	17328
15°	15896	16617	17257
20°	15210	16104	17216
25°	14302	15630	17151
30°	13264	14857	16943
35°	12129	13985	16423
40°	10839	12844	15390
45°	9500	11653	13759
50°	8036	10157	10823
55°	6796	8537	7929
60°	6211	7130	6243
65°	5886	6262	5663
70°	5513	5793	5421
75°	5140	5450	5201
80°	4745	5108	5017
85°	4185	4547	5449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13759 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.1	4.7
10°-20°	316.4	13.0
20°-30°	456.0	18.8
30°-40°	503.0	20.7
40°-50°	440.3	18.1
50°-60°	289.3	11.9
60°-70°	176.8	7.3
70°-80°	102.3	4.2
80°-90°	31.7	1.3
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°	885.5	36.5
0°-40°	1388.5	57.2
0°-60°	2118.2	87.2
0°-90°	2429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1177	1190	1193	1200	1198	112
15°	1073	1091	1122	1159	1165	302
25°	906	937	990	1050	1087	417
35°	694	724	801	889	940	433
45°	470	498	576	647	680	362
55°	272	287	342	343	318	248
65°	174	174	185	177	167	172
75°	93	93	99	101	94	99
85°	26	26	28	30	33	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.5	1198.5	1198.5	1198.5	1198.5
2.5°	1189.6	1196.3	1198.5	1202.9	1200.7
5°	1177.4	1189.6	1192.9	1199.6	1198.5
7.5°	1175.2	1170.8	1180.8	1194.0	1192.9
10°	1143.1	1152.0	1170.8	1190.7	1192.9
12.5°	1108.8	1123.2	1144.2	1178.5	1183.0
15°	1073.3	1091.0	1122.0	1158.6	1165.2
17.5°	1041.2	1058.9	1095.5	1136.4	1158.6
20°	999.1	1023.5	1057.8	1108.8	1130.9
22.5°	960.3	980.3	1024.6	1080.0	1113.2
25°	906.1	937.1	990.2	1050.0	1086.6
27.5°	858.4	887.2	947.0	1013.5	1053.4
30°	803.0	835.2	899.4	973.6	1025.7
32.5°	748.8	778.7	854.0	930.4	986.9
35°	694.5	724.4	800.8	889.4	940.4
37.5°	639.1	670.1	744.3	835.2	883.9
40°	580.4	615.9	687.8	777.6	824.1
42.5°	525.0	558.3	631.4	718.9	754.3
45°	469.6	498.4	576.0	646.9	680.1
47.5°	414.3	442.0	516.2	574.9	593.7
50°	361.1	386.6	456.4	492.9	486.3
52.5°	311.2	334.5	401.0	415.4	396.5
55°	272.5	286.9	342.3	343.4	317.9
57.5°	240.4	251.4	294.6	283.6	255.9
60°	217.1	220.4	249.2	237.0	218.2
62.5°	193.8	196.1	211.6	202.7	188.3
65°	173.9	173.9	185.0	177.2	167.3
67.5°	151.7	152.9	160.6	156.2	148.4
70°	131.8	131.8	138.5	138.5	129.6
72.5°	111.9	111.9	117.4	118.5	113.0
75°	93.0	93.0	98.6	100.8	94.1
77.5°	75.3	75.3	79.8	83.1	75.3
80°	57.6	57.6	62.0	65.4	60.9
82.5°	41.0	42.1	44.3	47.6	47.6
85°	25.5	25.5	27.7	29.9	33.2
87.5°	11.1	12.2	13.3	14.4	16.6
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.29	18.76	17.65	19.07	19.39	18.03	19.51	18.40	19.82	20.14
	3H	18.88	20.20	19.26	20.53	20.89	19.37	20.69	19.75	21.02	21.38
	4H	19.50	20.74	19.90	21.09	21.47	19.94	21.18	20.34	21.53	21.91
	6H	19.98	21.12	20.39	21.49	21.88	20.40	21.54	20.81	21.91	22.30
	8H	20.14	21.22	20.56	21.61	22.01	20.58	21.67	21.01	22.06	22.46
	12H	20.24	21.28	20.67	21.66	22.09	20.73	21.77	21.16	22.15	22.58
4H	2H	17.91	19.15	18.31	19.50	19.88	18.51	19.75	18.91	20.10	20.48
	3H	19.72	20.74	20.13	21.14	21.55	20.12	21.14	20.53	21.54	21.94
	4H	20.45	21.38	20.89	21.79	22.23	20.84	21.77	21.28	22.18	22.62
	6H	21.05	21.85	21.51	22.30	22.76	21.45	22.26	21.91	22.70	23.16
	8H	21.26	22.01	21.72	22.45	22.92	21.69	22.44	22.16	22.89	23.35
	12H	21.41	22.07	21.89	22.55	23.03	21.89	22.56	22.38	23.04	23.51
8H	4H	20.77	21.51	21.23	21.96	22.43	21.11	21.86	21.58	22.30	22.77
	6H	21.49	22.11	21.99	22.60	23.08	21.87	22.49	22.36	22.98	23.46
	8H	21.77	22.33	22.29	22.84	23.33	22.19	22.75	22.71	23.26	23.75
	12H	22.00	22.49	22.51	22.98	23.55	22.49	22.98	23.00	23.47	24.04
12H	4H	20.80	21.47	21.28	21.95	22.42	21.13	21.80	21.61	22.28	22.75
	6H	21.56	22.11	22.07	22.62	23.11	21.91	22.47	22.43	22.98	23.47
	8H	21.90	22.39	22.41	22.88	23.45	22.30	22.80	22.81	23.29	23.85