

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: P893070

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893070
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-LOW-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

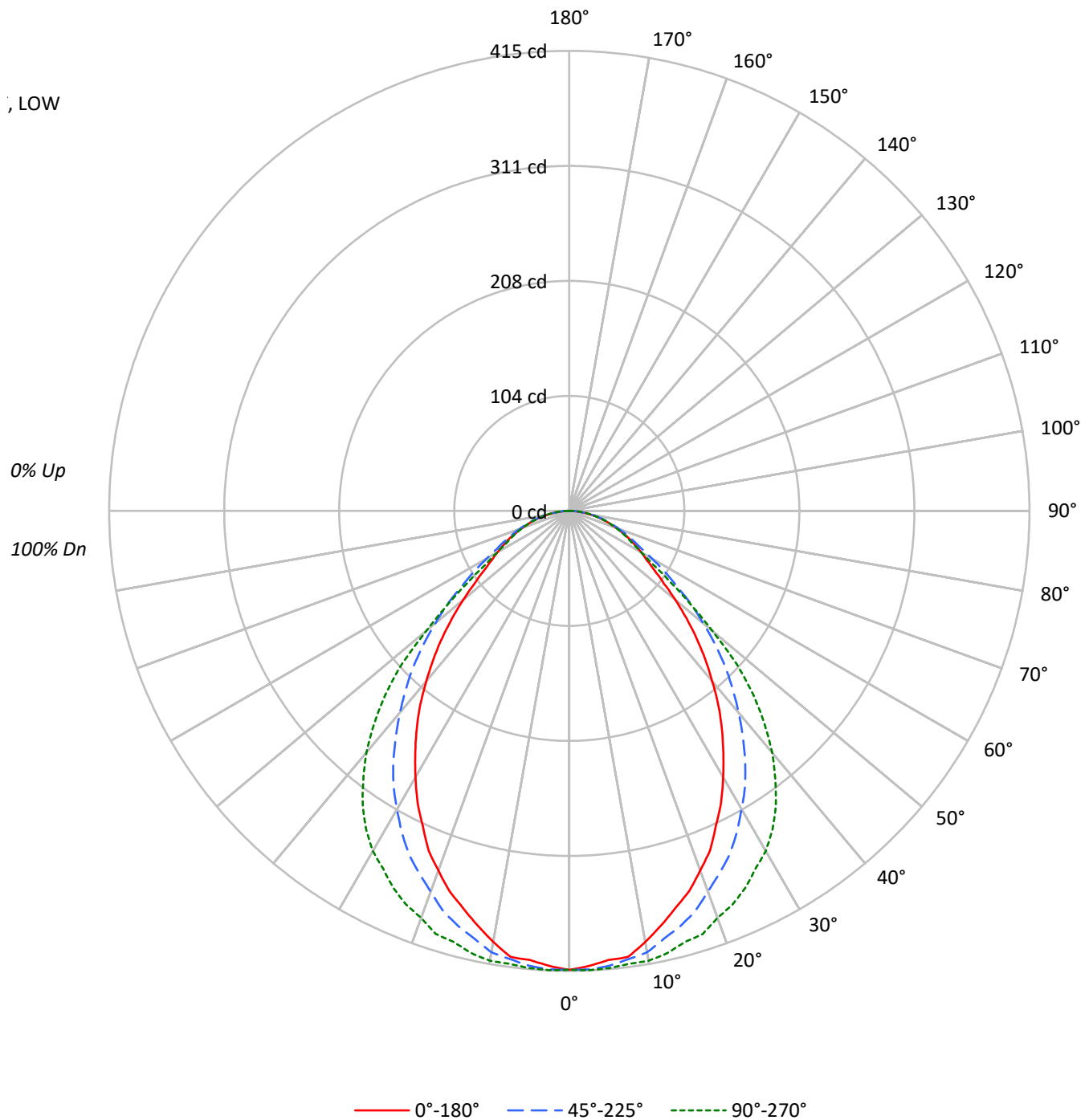
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 839.0 lumens
Efficiency: N/A
Efficacy: 121.6 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): 6.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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°	5922	5922	5922
5°	5840	5918	5945
10°	5735	5874	5986
15°	5490	5740	5961
20°	5254	5563	5946
25°	4941	5398	5924
30°	4582	5132	5853
35°	4190	4830	5672
40°	3744	4437	5315
45°	3281	4024	4752
50°	2775	3507	3739
55°	2347	2948	2739
60°	2146	2463	2157
65°	2034	2163	1957
70°	1903	1999	1874
75°	1774	1885	1796
80°	1639	1763	1730
85°	1444	1576	1888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	4.7
10°-20°	109.3	13.0
20°-30°	157.5	18.8
30°-40°	173.8	20.7
40°-50°	152.1	18.1
50°-60°	99.9	11.9
60°-70°	61.1	7.3
70°-80°	35.3	4.2
80°-90°	11.0	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°	305.9	36.5
0°-40°	479.6	57.2
0°-60°	731.6	87.2
0°-90°	839.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	407	411	412	414	414	39
15°	371	377	388	400	402	104
25°	313	324	342	363	375	144
35°	240	250	277	307	325	150
45°	162	172	199	223	235	125
55°	94	99	118	119	110	86
65°	60	60	64	61	58	59
75°	32	32	34	35	32	34
85°	9	9	10	10	12	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	414.0	414.0	414.0	414.0	414.0
2.5°	410.9	413.2	414.0	415.5	414.7
5°	406.7	410.9	412.1	414.3	414.0
7.5°	405.9	404.4	407.8	412.4	412.1
10°	394.8	397.9	404.4	411.3	412.1
12.5°	383.0	387.9	395.2	407.1	408.6
15°	370.7	376.9	387.6	400.2	402.5
17.5°	359.6	365.8	378.4	392.5	400.2
20°	345.1	353.5	365.4	383.0	390.6
22.5°	331.7	338.6	353.9	373.0	384.5
25°	313.0	323.7	342.0	362.7	375.3
27.5°	296.5	306.5	327.1	350.1	363.8
30°	277.4	288.5	310.7	336.3	354.3
32.5°	258.6	269.0	295.0	321.4	340.9
35°	239.9	250.2	276.6	307.2	324.8
37.5°	220.8	231.5	257.1	288.5	305.3
40°	200.5	212.7	237.6	268.6	284.6
42.5°	181.3	192.8	218.1	248.3	260.5
45°	162.2	172.2	198.9	223.4	234.9
47.5°	143.1	152.7	178.3	198.6	205.1
50°	124.7	133.5	157.6	170.3	168.0
52.5°	107.5	115.5	138.5	143.5	137.0
55°	94.1	99.1	118.2	118.6	109.8
57.5°	83.0	86.8	101.8	97.9	88.4
60°	75.0	76.1	86.1	81.9	75.4
62.5°	67.0	67.7	73.1	70.0	65.0
65°	60.1	60.1	63.9	61.2	57.8
67.5°	52.4	52.8	55.5	53.9	51.3
70°	45.5	45.5	47.8	47.8	44.8
72.5°	38.6	38.6	40.6	40.9	39.0
75°	32.1	32.1	34.1	34.8	32.5
77.5°	26.0	26.0	27.5	28.7	26.0
80°	19.9	19.9	21.4	22.6	21.0
82.5°	14.2	14.5	15.3	16.5	16.5
85°	8.8	8.8	9.6	10.3	11.5
87.5°	3.8	4.2	4.6	5.0	5.7
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	13.59	15.07	13.95	15.38	15.69	14.34	15.81	14.70	16.12	16.44
	3H	15.19	16.51	15.57	16.84	17.20	15.68	17.00	16.05	17.32	17.69
	4H	15.80	17.04	16.20	17.39	17.77	16.25	17.49	16.65	17.84	18.21
	6H	16.28	17.42	16.69	17.79	18.18	16.70	17.85	17.12	18.21	18.61
	8H	16.44	17.53	16.87	17.92	18.32	16.89	17.97	17.31	18.36	18.77
	12H	16.55	17.59	16.98	17.97	18.40	17.04	18.08	17.47	18.46	18.89
4H	2H	14.22	15.45	14.62	15.80	16.18	14.82	16.05	15.22	16.40	16.78
	3H	16.02	17.05	16.43	17.45	17.85	16.42	17.45	16.83	17.85	18.25
	4H	16.76	17.68	17.19	18.10	18.54	17.15	18.07	17.58	18.49	18.93
	6H	17.36	18.16	17.82	18.60	19.06	17.76	18.56	18.22	19.00	19.46
	8H	17.56	18.31	18.03	18.76	19.22	18.00	18.75	18.46	19.19	19.66
	12H	17.71	18.38	18.19	18.86	19.33	18.20	18.87	18.68	19.35	19.82
8H	4H	17.07	17.82	17.53	18.26	18.73	17.42	18.16	17.88	18.61	19.08
	6H	17.79	18.41	18.29	18.91	19.38	18.17	18.79	18.67	19.28	19.76
	8H	18.08	18.63	18.59	19.14	19.63	18.50	19.06	19.01	19.57	20.06
	12H	18.30	18.79	18.81	19.29	19.85	18.79	19.29	19.30	19.78	20.35
12H	4H	17.10	17.77	17.59	18.25	18.72	17.44	18.10	17.92	18.58	19.05
	6H	17.86	18.42	18.37	18.93	19.42	18.22	18.78	18.73	19.29	19.78
	8H	18.20	18.70	18.71	19.19	19.75	18.61	19.10	19.12	19.59	20.16