

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: P893033

Luminaire Tested: 2MB-SC3-LVR-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVR-UNV-CC83-LOW-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

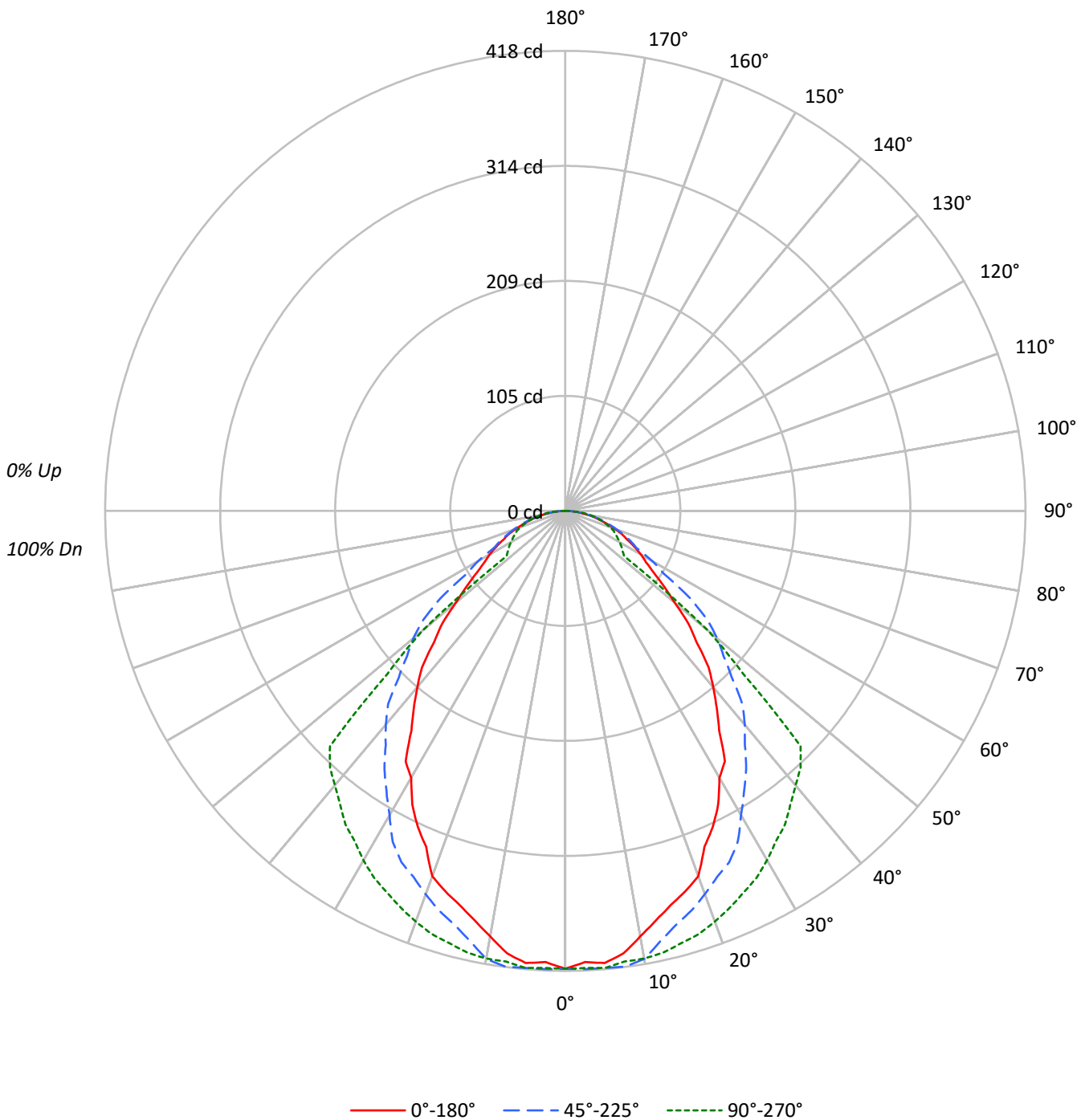
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 868.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.3 / 1.26
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 (A_{in}): 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	60	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	53	47	43	52	47	42	42	42	42	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5951	5951	5951
5°	5921	5985	5985
10°	5703	6005	5999
15°	5490	5764	6022
20°	5378	5643	6045
25°	5004	5559	6042
30°	4625	5274	6054
35°	4256	5002	6077
40°	3903	4736	6077
45°	3409	4327	6116
50°	2884	4010	3783
55°	2449	3449	1584
60°	2272	2615	1634
65°	2109	2227	1713
70°	1991	2104	1803
75°	1841	1984	1857
80°	1681	1837	1961
85°	1494	1674	2101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6116 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	4.5
10°-20°	110.5	12.7
20°-30°	160.5	18.5
30°-40°	181.8	20.9
40°-50°	169.8	19.6
50°-60°	96.5	11.1
60°-70°	60.6	7.0
70°-80°	37.2	4.3
80°-90°	11.7	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°	310.4	35.8
0°-40°	492.2	56.7
0°-60°	758.5	87.4
0°-90°	868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	412	416	417	415	417	39
15°	371	377	389	410	407	105
25°	317	323	352	368	383	145
35°	244	260	286	324	348	154
45°	168	186	214	272	302	131
55°	98	107	138	73	64	90
65°	62	65	66	57	51	63
75°	33	34	36	37	34	36
85°	9	9	10	11	13	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.0	416.0	416.0	416.0	416.0
2.5°	410.4	414.9	416.8	416.4	415.7
5°	412.3	416.4	416.8	415.3	416.8
7.5°	405.5	415.3	417.6	413.8	413.0
10°	392.6	398.3	413.4	414.9	413.0
12.5°	380.9	387.7	400.2	414.9	411.1
15°	370.7	377.1	389.2	410.4	406.6
17.5°	362.4	364.7	380.9	405.5	403.2
20°	353.3	357.8	370.7	393.4	397.1
22.5°	330.3	342.7	360.1	382.8	390.3
25°	317.0	323.1	352.2	368.1	382.8
27.5°	300.8	311.7	339.3	356.7	376.0
30°	280.0	292.5	319.3	345.0	366.5
32.5°	269.8	274.3	302.3	335.6	356.0
35°	243.7	260.0	286.4	323.8	348.0
37.5°	226.0	235.8	267.9	312.5	335.9
40°	209.0	220.3	253.6	300.0	325.4
42.5°	192.7	202.9	238.1	287.6	316.3
45°	168.5	185.9	213.9	271.7	302.3
47.5°	151.9	162.9	195.0	252.4	219.2
50°	129.6	142.8	180.2	173.1	170.0
52.5°	113.4	120.5	162.5	146.2	67.3
55°	98.2	107.3	138.3	72.6	63.5
57.5°	86.9	93.0	106.2	67.3	60.5
60°	79.4	80.9	91.4	64.2	57.1
62.5°	71.0	72.6	72.9	60.8	53.7
65°	62.3	64.6	65.8	57.1	50.6
67.5°	55.9	56.3	57.8	52.9	47.6
70°	47.6	48.4	50.3	48.4	43.1
72.5°	40.4	41.6	42.7	43.1	38.5
75°	33.3	34.4	35.9	36.7	33.6
77.5°	27.2	27.6	29.1	31.0	28.7
80°	20.4	21.5	22.3	24.2	23.8
82.5°	14.7	15.1	16.2	17.8	18.5
85°	9.1	9.4	10.2	11.3	12.8
87.5°	3.8	4.2	4.5	5.3	6.0
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	13.92	15.40	14.28	15.71	16.02	11.66	13.14	12.03	13.46	13.77
	3H	15.50	16.83	15.88	17.15	17.52	14.00	15.32	14.38	15.65	16.01
	4H	16.11	17.35	16.51	17.69	18.07	14.94	16.18	15.34	16.53	16.91
	6H	16.57	17.71	16.98	18.08	18.47	15.73	16.88	16.14	17.24	17.63
	8H	16.72	17.81	17.14	18.20	18.60	16.04	17.13	16.47	17.52	17.92
	12H	16.82	17.86	17.25	18.24	18.67	16.28	17.33	16.71	17.71	18.14
4H	2H	14.49	15.73	14.89	16.08	16.46	12.82	14.06	13.22	14.41	14.79
	3H	16.31	17.33	16.72	17.73	18.14	15.26	16.28	15.67	16.69	17.09
	4H	17.04	17.97	17.48	18.38	18.82	16.31	17.23	16.74	17.65	18.09
	6H	17.63	18.44	18.09	18.88	19.34	17.20	18.00	17.66	18.45	18.91
	8H	17.83	18.58	18.29	19.03	19.49	17.55	18.30	18.01	18.74	19.21
	12H	17.97	18.64	18.45	19.12	19.59	17.83	18.50	18.31	18.98	19.45
8H	4H	17.35	18.10	17.81	18.54	19.01	16.71	17.46	17.17	17.90	18.37
	6H	18.07	18.69	18.57	19.18	19.66	17.75	18.37	18.25	18.87	19.34
	8H	18.34	18.90	18.86	19.41	19.90	18.19	18.75	18.71	19.26	19.75
	12H	18.56	19.06	19.07	19.55	20.11	18.57	19.07	19.08	19.56	20.13
12H	4H	17.38	18.05	17.87	18.53	19.00	16.75	17.42	17.23	17.90	18.37
	6H	18.13	18.69	18.65	19.20	19.69	17.82	18.38	18.33	18.89	19.38
	8H	18.47	18.96	18.98	19.46	20.02	18.32	18.82	18.84	19.31	19.88