

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: P893040

Luminaire Tested: 2MB-SC3-LVR-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893040
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-CC93-HI-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

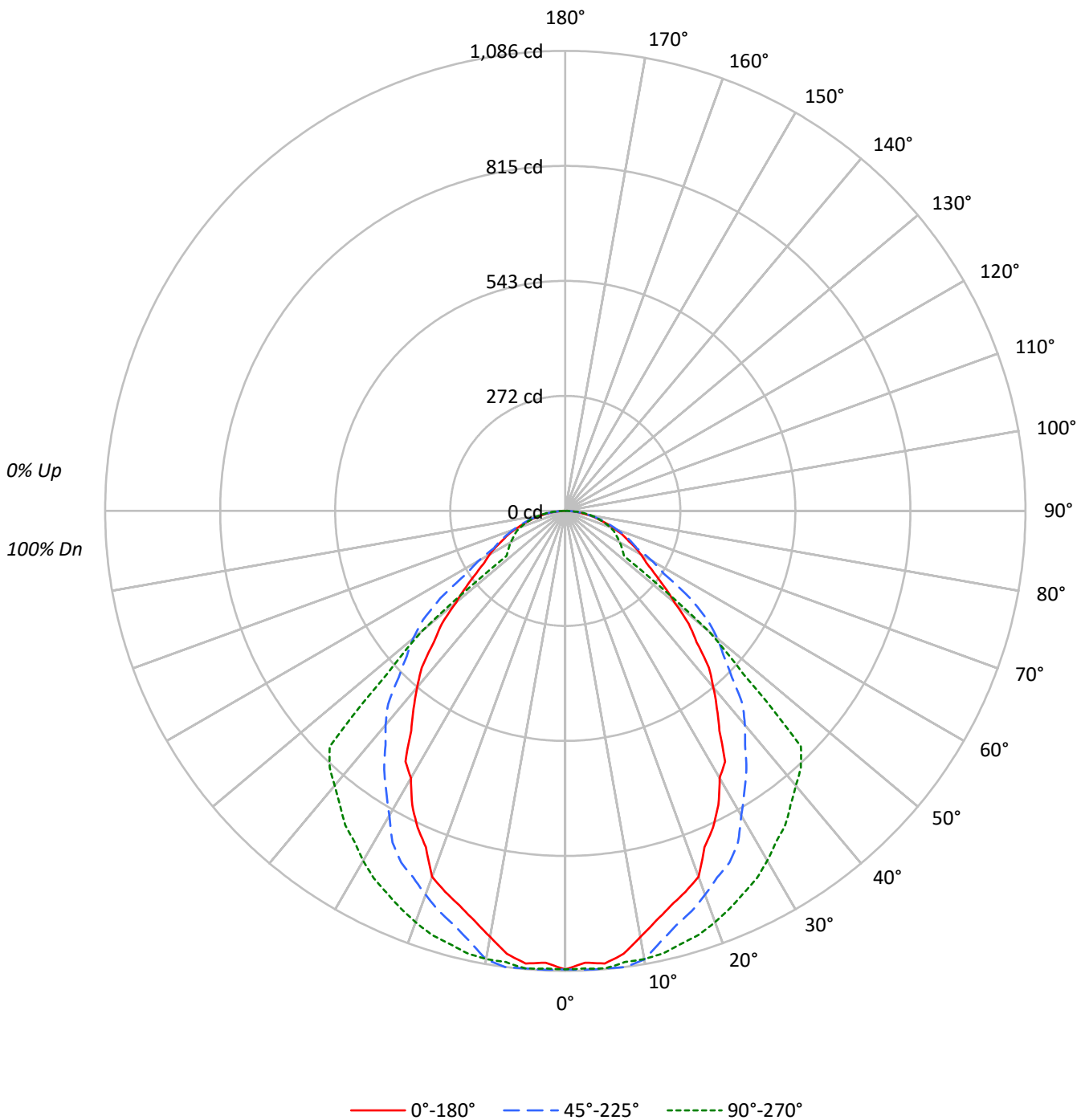
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2258.0 lumens
Efficiency: N/A
Efficacy: 107.5 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): 21
Input Voltage (V): 120
Input Current (A_{in}): 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	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°	15483	15483	15483
5°	15401	15571	15571
10°	14836	15621	15607
15°	14281	14995	15665
20°	13992	14680	15727
25°	13017	14462	15718
30°	12032	13720	15750
35°	11072	13012	15810
40°	10151	12318	15806
45°	8869	11257	15910
50°	7505	10436	9846
55°	6375	8974	4118
60°	5905	6807	4246
65°	5490	5788	4458
70°	5182	5467	4689
75°	4781	5162	4836
80°	4374	4778	5099
85°	3874	4350	5482

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15910 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	4.5
10°-20°	287.3	12.7
20°-30°	417.6	18.5
30°-40°	472.9	20.9
40°-50°	441.7	19.6
50°-60°	251.0	11.1
60°-70°	157.7	7.0
70°-80°	96.8	4.3
80°-90°	30.4	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°	807.6	35.8
0°-40°	1280.4	56.7
0°-60°	1973.2	87.4
0°-90°	2258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1072	1083	1084	1080	1084	101
15°	964	981	1012	1068	1058	273
25°	825	840	916	957	996	378
35°	634	676	745	842	905	400
45°	438	484	556	707	786	342
55°	256	279	360	189	165	234
65°	162	168	171	148	132	163
75°	86	90	93	95	88	93
85°	24	25	26	30	33	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.3	1082.3	1082.3	1082.3	1082.3
2.5°	1067.5	1079.3	1084.3	1083.3	1081.3
5°	1072.5	1083.3	1084.3	1080.3	1084.3
7.5°	1054.8	1080.3	1086.2	1076.4	1074.4
10°	1021.3	1036.1	1075.4	1079.3	1074.4
12.5°	990.9	1008.6	1041.0	1079.3	1069.5
15°	964.3	981.0	1012.5	1067.5	1057.7
17.5°	942.7	948.6	990.9	1054.8	1048.9
20°	919.1	930.9	964.3	1023.3	1033.1
22.5°	859.1	891.6	936.8	995.8	1015.4
25°	824.7	840.5	916.2	957.4	995.8
27.5°	782.5	811.0	882.7	928.0	978.1
30°	728.4	760.8	830.6	897.5	953.5
32.5°	701.9	713.7	786.4	872.9	926.0
35°	634.0	676.3	745.1	842.4	905.3
37.5°	587.8	613.4	696.9	812.9	873.9
40°	543.6	573.1	659.6	780.5	846.4
42.5°	501.3	527.9	619.3	748.1	822.8
45°	438.4	483.6	556.4	706.8	786.4
47.5°	395.2	423.7	507.2	656.6	570.1
50°	337.2	371.6	468.9	450.2	442.4
52.5°	294.9	313.6	422.7	380.4	175.0
55°	255.6	279.2	359.8	188.7	165.1
57.5°	226.1	241.8	276.2	175.0	157.3
60°	206.4	210.4	237.9	167.1	148.4
62.5°	184.8	188.7	189.7	158.3	139.6
65°	162.2	168.1	171.0	148.4	131.7
67.5°	145.5	146.5	150.4	137.6	123.9
70°	123.9	125.8	130.7	125.8	112.1
72.5°	105.2	108.1	111.1	112.1	100.3
75°	86.5	89.5	93.4	95.4	87.5
77.5°	70.8	71.8	75.7	80.6	74.7
80°	53.1	56.0	58.0	62.9	61.9
82.5°	38.3	39.3	42.3	46.2	48.2
85°	23.6	24.6	26.5	29.5	33.4
87.5°	9.8	10.8	11.8	13.8	15.7
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	17.24	18.71	17.60	19.03	19.34	14.98	16.46	15.35	16.78	17.09
	3H	18.82	20.15	19.20	20.48	20.84	17.32	18.64	17.70	18.97	19.33
	4H	19.43	20.67	19.83	21.01	21.39	18.26	19.50	18.66	19.85	20.23
	6H	19.89	21.03	20.30	21.40	21.79	19.05	20.20	19.47	20.56	20.96
	8H	20.04	21.13	20.47	21.52	21.92	19.36	20.45	19.79	20.84	21.24
	12H	20.14	21.18	20.57	21.56	21.99	19.61	20.65	20.04	21.03	21.46
4H	2H	17.81	19.05	18.21	19.40	19.78	16.14	17.38	16.54	17.73	18.11
	3H	19.63	20.65	20.04	21.05	21.46	18.58	19.60	18.99	20.00	20.41
	4H	20.36	21.28	20.79	21.70	22.14	19.63	20.55	20.06	20.97	21.41
	6H	20.95	21.76	21.41	22.20	22.66	20.52	21.32	20.98	21.77	22.23
	8H	21.15	21.90	21.62	22.35	22.81	20.87	21.62	21.33	22.06	22.53
	12H	21.29	21.96	21.78	22.44	22.91	21.15	21.82	21.64	22.30	22.77
8H	4H	20.67	21.42	21.13	21.86	22.33	20.03	20.78	20.49	21.22	21.69
	6H	21.39	22.01	21.89	22.50	22.98	21.07	21.69	21.57	22.19	22.66
	8H	21.66	22.22	22.18	22.73	23.22	21.51	22.07	22.03	22.58	23.07
	12H	21.88	22.38	22.39	22.87	23.44	21.89	22.39	22.40	22.88	23.45
12H	4H	20.70	21.37	21.19	21.85	22.32	20.07	20.74	20.55	21.22	21.69
	6H	21.45	22.01	21.97	22.53	23.01	21.14	21.70	21.65	22.21	22.70
	8H	21.79	22.28	22.30	22.78	23.34	21.64	22.14	22.16	22.63	23.20