

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: P893075

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893075
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-CC93-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 4000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

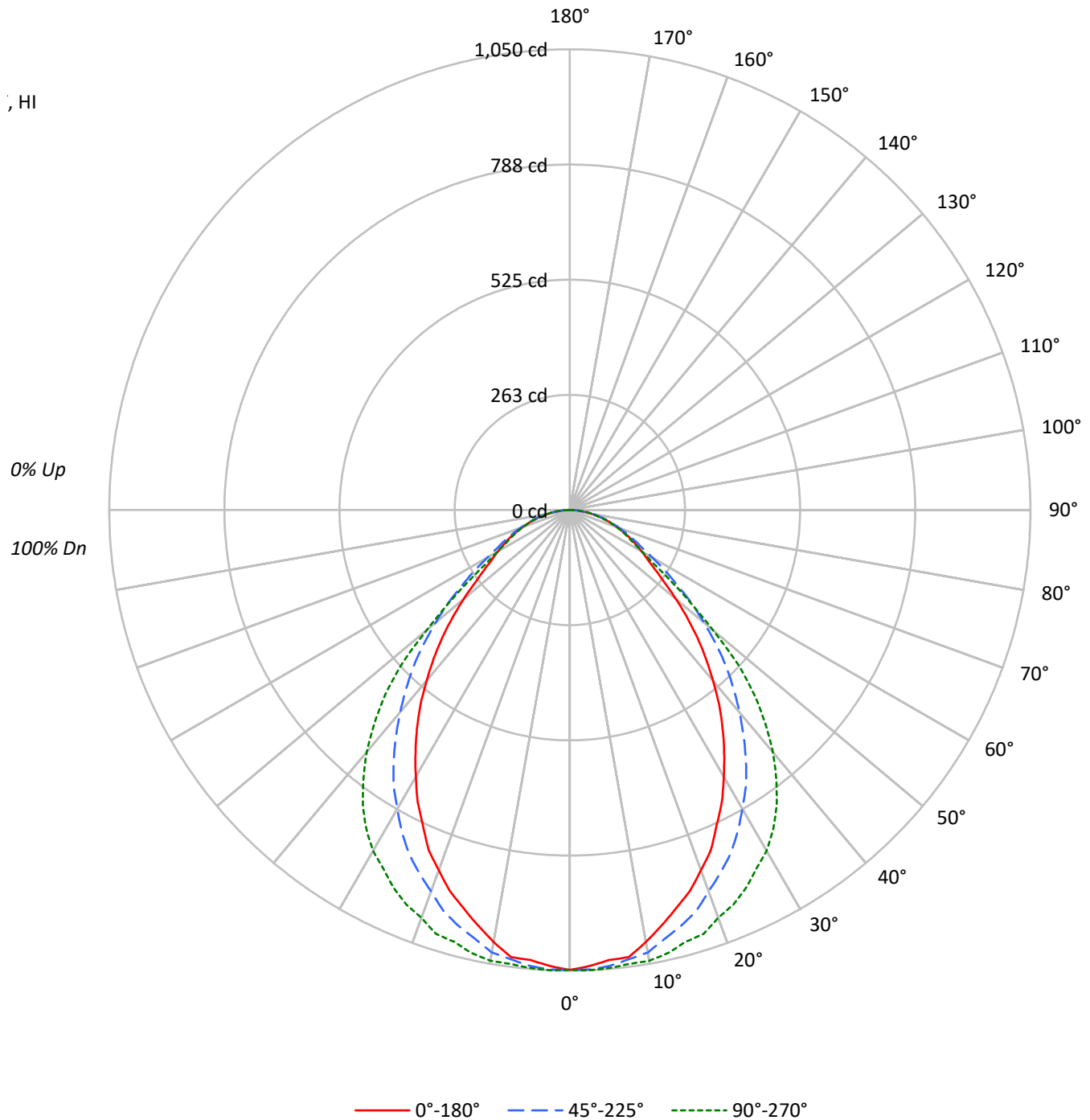
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2124.0 lumens
Efficiency: N/A
Efficacy: 101.1 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°	14992	14992	14992
5°	14785	14979	15049
10°	14520	14872	15152
15°	13899	14532	15090
20°	13299	14082	15055
25°	12506	13668	14998
30°	11599	12992	14815
35°	10606	12230	14360
40°	9477	11233	13457
45°	8309	10190	12031
50°	7028	8880	9463
55°	5943	7465	6934
60°	5430	6234	5459
65°	5149	5477	4952
70°	4823	5065	4739
75°	4499	4764	4549
80°	4152	4465	4391
85°	3660	3972	4776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12031 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	4.7
10°-20°	276.6	13.0
20°-30°	398.8	18.8
30°-40°	439.9	20.7
40°-50°	385.0	18.1
50°-60°	253.0	11.9
60°-70°	154.6	7.3
70°-80°	89.5	4.2
80°-90°	27.7	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°	774.3	36.5
0°-40°	1214.2	57.2
0°-60°	1852.2	87.2
0°-90°	2124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1030	1040	1043	1049	1048	98
15°	938	954	981	1013	1019	264
25°	792	819	866	918	950	365
35°	607	633	700	778	822	379
45°	411	436	504	566	595	316
55°	238	251	299	300	278	217
65°	152	152	162	155	146	150
75°	81	81	86	88	82	86
85°	22	22	24	26	29	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.0	1048.0	1048.0	1048.0	1048.0
2.5°	1040.2	1046.0	1048.0	1051.9	1049.9
5°	1029.6	1040.2	1043.1	1049.0	1048.0
7.5°	1027.6	1023.8	1032.5	1044.1	1043.1
10°	999.6	1007.3	1023.8	1041.2	1043.1
12.5°	969.5	982.1	1000.5	1030.6	1034.4
15°	938.5	954.0	981.2	1013.1	1018.9
17.5°	910.4	925.9	957.9	993.7	1013.1
20°	873.6	895.0	925.0	969.5	988.9
22.5°	839.7	857.2	895.9	944.3	973.4
25°	792.3	819.4	865.9	918.2	950.2
27.5°	750.6	775.8	828.1	886.2	921.1
30°	702.2	730.3	786.5	851.4	896.9
32.5°	654.7	680.9	746.8	813.6	863.0
35°	607.3	633.4	700.3	777.8	822.3
37.5°	558.9	586.0	650.9	730.3	772.9
40°	507.5	538.5	601.5	679.9	720.6
42.5°	459.1	488.2	552.1	628.6	659.6
45°	410.7	435.9	503.7	565.6	594.7
47.5°	362.2	386.5	451.4	502.7	519.1
50°	315.8	338.0	399.0	431.0	425.2
52.5°	272.2	292.5	350.6	363.2	346.7
55°	238.3	250.9	299.3	300.3	278.0
57.5°	210.2	219.9	257.6	248.0	223.7
60°	189.8	192.7	217.9	207.3	190.8
62.5°	169.5	171.4	185.0	177.2	164.7
65°	152.1	152.1	161.8	155.0	146.3
67.5°	132.7	133.7	140.4	136.6	129.8
70°	115.3	115.3	121.1	121.1	113.3
72.5°	97.8	97.8	102.7	103.6	98.8
75°	81.4	81.4	86.2	88.1	82.3
77.5°	65.9	65.9	69.7	72.6	65.9
80°	50.4	50.4	54.2	57.1	53.3
82.5°	35.8	36.8	38.7	41.6	41.6
85°	22.3	22.3	24.2	26.2	29.1
87.5°	9.7	10.7	11.6	12.6	14.5
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	16.82	18.30	17.19	18.61	18.92	17.57	19.04	17.93	19.35	19.67
	3H	18.42	19.74	18.80	20.07	20.43	18.91	20.23	19.28	20.55	20.92
	4H	19.04	20.27	19.44	20.62	21.00	19.48	20.72	19.88	21.06	21.44
	6H	19.51	20.65	19.93	21.02	21.41	19.93	21.08	20.35	21.44	21.84
	8H	19.67	20.76	20.10	21.15	21.55	20.12	21.20	20.54	21.59	21.99
	12H	19.78	20.82	20.21	21.20	21.63	20.27	21.31	20.70	21.69	22.12
4H	2H	17.45	18.68	17.85	19.03	19.41	18.05	19.28	18.45	19.63	20.01
	3H	19.25	20.28	19.67	20.68	21.08	19.65	20.67	20.06	21.08	21.48
	4H	19.99	20.91	20.42	21.33	21.77	20.38	21.30	20.81	21.72	22.15
	6H	20.59	21.39	21.05	21.83	22.30	20.99	21.79	21.45	22.23	22.69
	8H	20.79	21.54	21.26	21.99	22.46	21.23	21.97	21.69	22.42	22.89
	12H	20.94	21.61	21.42	22.09	22.56	21.43	22.10	21.91	22.58	23.05
8H	4H	20.30	21.05	20.77	21.49	21.96	20.64	21.39	21.11	21.84	22.31
	6H	21.03	21.65	21.52	22.14	22.62	21.40	22.02	21.90	22.51	22.99
	8H	21.31	21.87	21.82	22.38	22.86	21.73	22.28	22.24	22.79	23.28
	12H	21.53	22.03	22.04	22.52	23.08	22.02	22.51	22.53	23.01	23.57
12H	4H	20.34	21.00	20.82	21.48	21.95	20.66	21.33	21.15	21.81	22.28
	6H	21.09	21.65	21.61	22.16	22.65	21.45	22.01	21.96	22.52	23.00
	8H	21.43	21.93	21.94	22.42	22.99	21.83	22.33	22.34	22.82	23.39