

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: P894294

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-RFLW-UNV-CC93-MID-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

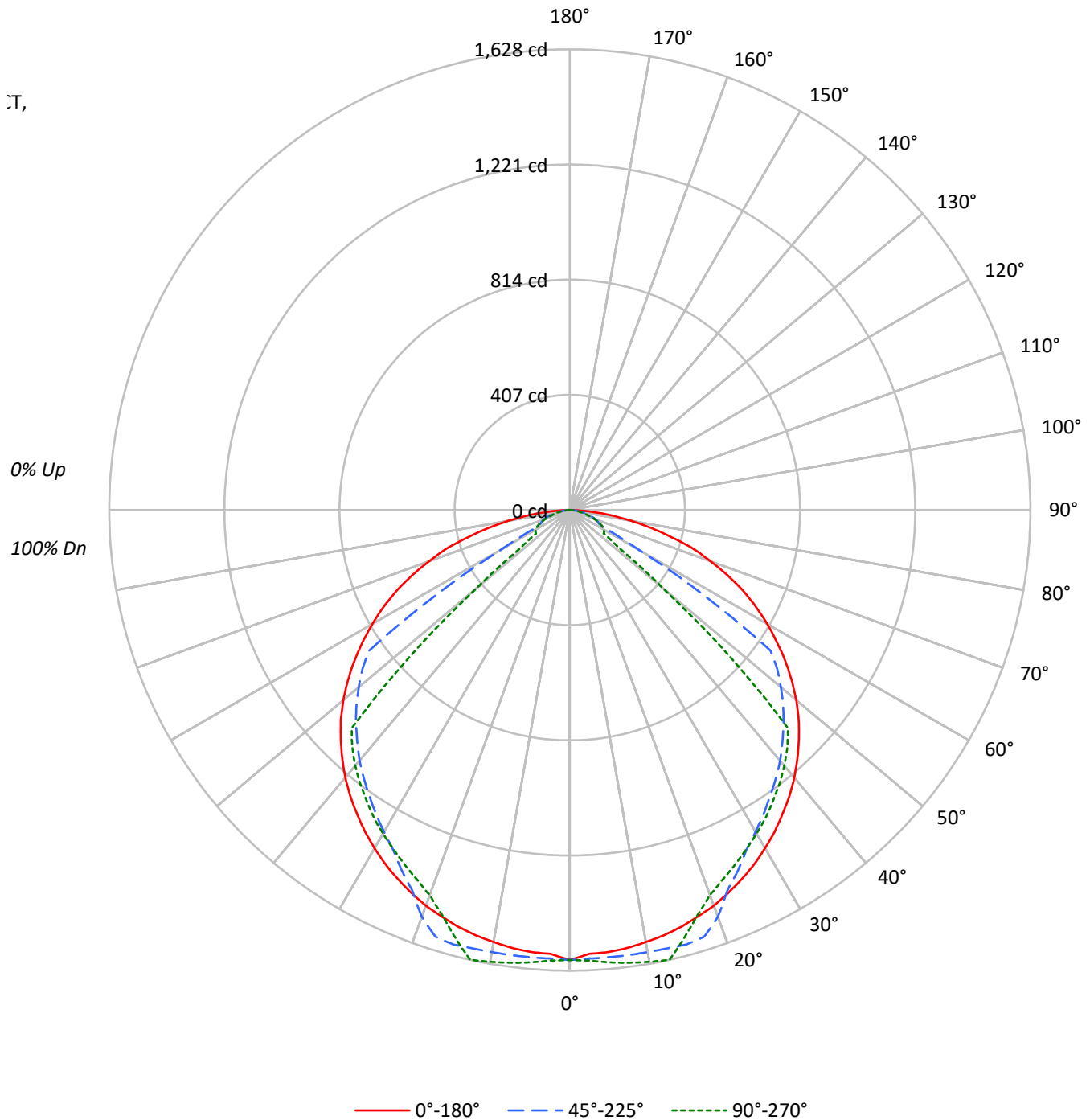
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20646	20646	20646
5°	20440	20678	20915
10°	20436	20917	21374
15°	20493	21375	21032
20°	20560	21139	20006
25°	20613	20142	19802
30°	20696	19685	19793
35°	20782	19568	19858
40°	20924	19595	19997
45°	21028	19622	20024
50°	21106	19670	8656
55°	21052	19607	3303
60°	20929	7482	3599
65°	20786	3475	3696
70°	20076	3740	3462
75°	18754	3567	3020
80°	16496	3133	2587
85°	13036	2712	2175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 21106 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	3.9
10°-20°	440.9	11.4
20°-30°	657.9	17.0
30°-40°	797.4	20.6
40°-50°	816.5	21.1
50°-60°	543.0	14.0
60°-70°	309.5	8.0
70°-80°	130.0	3.4
80°-90°	31.0	0.8
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°	1250.6	32.2
0°-40°	2048.0	52.8
0°-60°	3407.5	87.9
0°-90°	3878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1568	1599	1586	1590	1605	149
15°	1524	1566	1590	1584	1564	431
25°	1439	1508	1406	1375	1382	664
35°	1311	1335	1234	1240	1253	821
45°	1145	1076	1068	1081	1090	883
55°	930	852	866	190	146	830
65°	676	605	113	120	120	666
75°	374	78	71	62	60	397
85°	88	22	18	15	15	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.0	1590.0	1590.0	1590.0	1590.0
2.5°	1570.0	1602.8	1586.4	1588.2	1593.7
5°	1568.1	1599.1	1586.4	1590.0	1604.6
7.5°	1560.8	1593.7	1586.4	1597.3	1613.7
10°	1549.9	1588.2	1586.4	1604.6	1621.0
12.5°	1539.0	1577.2	1586.4	1613.7	1628.3
15°	1524.4	1566.3	1590.0	1584.5	1564.5
17.5°	1506.1	1555.4	1580.9	1502.5	1500.7
20°	1487.9	1540.8	1529.8	1455.1	1447.8
22.5°	1464.2	1526.2	1455.1	1404.0	1413.1
25°	1438.7	1508.0	1405.8	1374.8	1382.1
27.5°	1411.3	1489.7	1353.0	1342.0	1351.1
30°	1380.3	1464.2	1312.9	1309.2	1320.1
32.5°	1347.5	1415.0	1274.6	1276.4	1289.1
35°	1311.0	1334.7	1234.4	1239.9	1252.7
37.5°	1274.6	1260.0	1196.2	1205.3	1218.0
40°	1234.4	1201.6	1156.0	1165.2	1179.7
42.5°	1190.7	1139.6	1112.3	1125.0	1137.8
45°	1145.1	1075.8	1068.5	1081.3	1090.4
47.5°	1097.7	1021.1	1022.9	1032.0	773.1
50°	1044.8	966.4	973.7	674.7	428.5
52.5°	988.3	909.9	924.5	375.6	217.0
55°	929.9	851.5	866.1	189.6	145.9
57.5°	867.9	793.2	565.3	136.8	144.0
60°	805.9	731.2	288.1	134.9	138.6
62.5°	742.1	669.2	136.8	129.5	131.3
65°	676.5	605.4	113.1	120.3	120.3
67.5°	603.5	537.9	107.6	107.6	105.8
70°	528.8	446.7	98.5	93.0	91.2
72.5°	459.5	171.4	85.7	76.6	74.8
75°	373.8	78.4	71.1	62.0	60.2
77.5°	297.2	65.6	56.5	49.2	47.4
80°	220.6	51.1	41.9	36.5	34.6
82.5°	153.2	34.6	29.2	23.7	23.7
85°	87.5	21.9	18.2	14.6	14.6
87.5°	34.6	10.9	9.1	5.5	5.5
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	23.44	24.97	23.81	25.28	25.59	11.21	12.73	11.58	13.05	13.36
	3H	25.46	26.82	25.84	27.15	27.51	13.53	14.88	13.90	15.21	15.57
	4H	25.93	27.20	26.33	27.55	27.93	14.24	15.51	14.64	15.86	16.24
	6H	26.33	27.51	26.75	27.87	28.27	14.72	15.90	15.13	16.26	16.65
	8H	26.48	27.60	26.91	27.99	28.39	14.86	15.98	15.29	16.37	16.77
	12H	26.58	27.65	27.01	28.03	28.46	14.95	16.01	15.38	16.40	16.83
4H	2H	23.29	24.56	23.69	24.91	25.29	12.01	13.28	12.41	13.63	14.01
	3H	25.49	26.54	25.90	26.94	27.34	14.52	15.57	14.93	15.97	16.37
	4H	25.94	26.88	26.37	27.29	27.73	15.34	16.28	15.77	16.70	17.14
	6H	26.40	27.22	26.86	27.66	28.12	15.93	16.75	16.39	17.19	17.65
	8H	26.59	27.35	27.06	27.80	28.27	16.10	16.86	16.57	17.31	17.78
	12H	26.75	27.42	27.23	27.90	28.38	16.22	16.90	16.70	17.38	17.85
8H	4H	25.86	26.62	26.32	27.06	27.53	16.18	16.94	16.64	17.38	17.85
	6H	26.31	26.94	26.81	27.43	27.91	16.80	17.43	17.30	17.92	18.40
	8H	26.51	27.08	27.03	27.59	28.08	17.00	17.57	17.52	18.08	18.57
	12H	26.70	27.20	27.21	27.69	28.26	17.16	17.66	17.67	18.15	18.72
12H	4H	25.82	26.50	26.31	26.98	27.45	16.25	16.93	16.73	17.41	17.88
	6H	26.27	26.83	26.78	27.34	27.83	16.89	17.46	17.41	17.97	18.46
	8H	26.49	26.99	27.00	27.48	28.05	17.15	17.65	17.66	18.14	18.71