

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: P894295

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894295
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-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

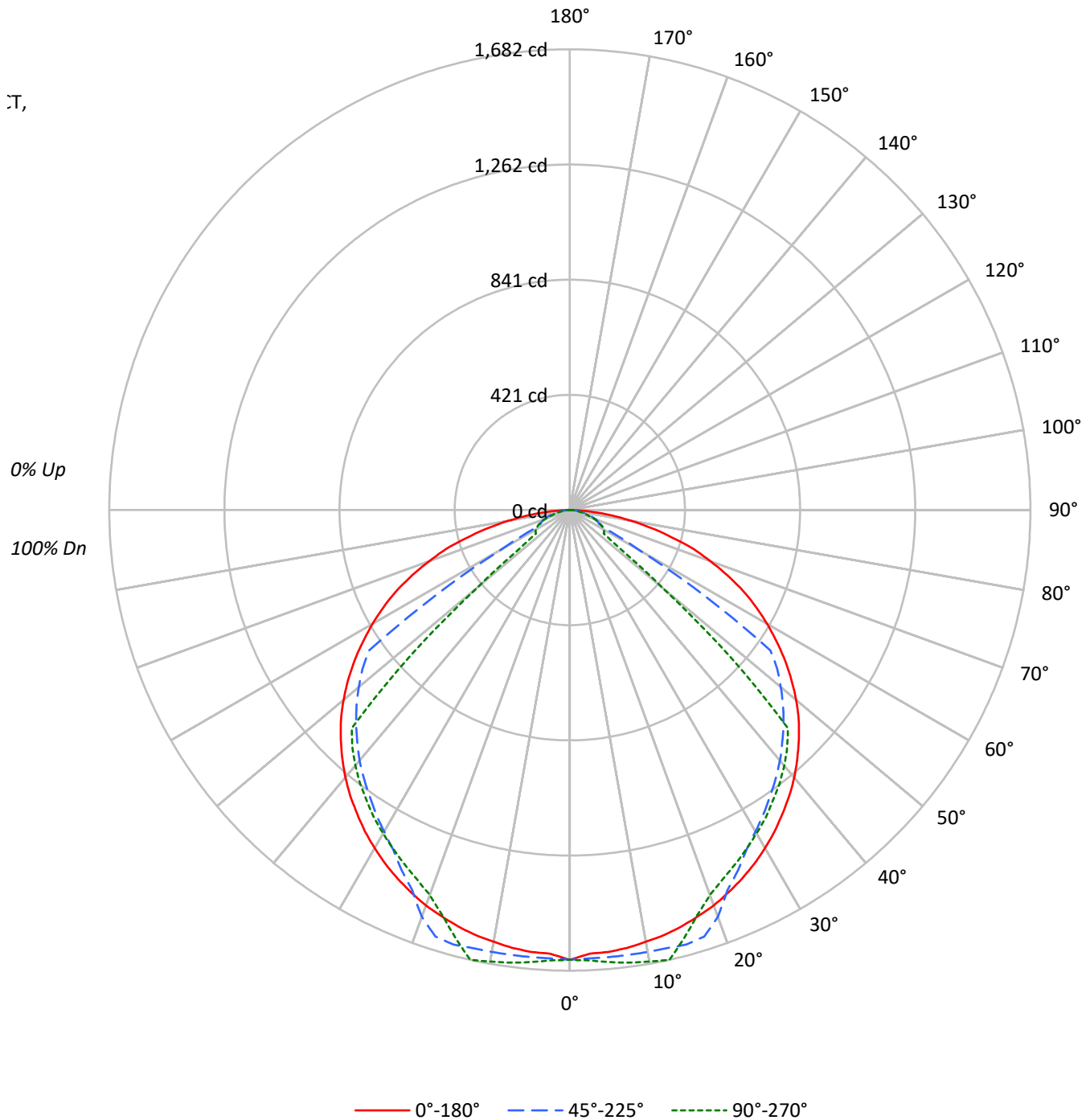
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4005.0 lumens
Efficiency: N/A
Efficacy: 119.6 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				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°	21323	21323	21323
5°	21110	21355	21600
10°	21106	21602	22074
15°	21164	22075	21720
20°	21233	21832	20661
25°	21288	20802	20451
30°	21374	20329	20443
35°	21463	20210	20508
40°	21611	20238	20653
45°	21717	20264	20679
50°	21797	20314	8939
55°	21742	20250	3409
60°	21615	7726	3716
65°	21465	3589	3819
70°	20733	3861	3576
75°	19366	3683	3116
80°	17042	3238	2677
85°	13468	2801	2250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 21797 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	3.9
10°-20°	455.3	11.4
20°-30°	679.4	17.0
30°-40°	823.5	20.6
40°-50°	843.2	21.1
50°-60°	560.8	14.0
60°-70°	319.6	8.0
70°-80°	134.3	3.4
80°-90°	32.0	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°	1291.6	32.2
0°-40°	2115.1	52.8
0°-60°	3519.1	87.9
0°-90°	4005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1620	1652	1638	1642	1657	154
15°	1574	1618	1642	1636	1616	445
25°	1486	1557	1452	1420	1427	685
35°	1354	1378	1275	1280	1294	848
45°	1183	1111	1104	1117	1126	912
55°	960	879	894	196	151	858
65°	699	625	117	124	124	687
75°	386	81	73	64	62	410
85°	90	23	19	15	15	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.1	1642.1	1642.1	1642.1	1642.1
2.5°	1621.4	1655.3	1638.3	1640.2	1645.8
5°	1619.5	1651.5	1638.3	1642.1	1657.1
7.5°	1612.0	1645.8	1638.3	1649.6	1666.6
10°	1600.7	1640.2	1638.3	1657.1	1674.1
12.5°	1589.4	1628.9	1638.3	1666.6	1681.6
15°	1574.3	1617.6	1642.1	1636.4	1615.7
17.5°	1555.5	1606.3	1632.7	1551.7	1549.8
20°	1536.6	1591.2	1579.9	1502.7	1495.2
22.5°	1512.1	1576.2	1502.7	1450.0	1459.4
25°	1485.8	1557.3	1451.9	1419.9	1427.4
27.5°	1457.5	1538.5	1397.3	1386.0	1395.4
30°	1425.5	1512.1	1355.8	1352.1	1363.4
32.5°	1391.6	1461.3	1316.3	1318.2	1331.4
35°	1354.0	1378.4	1274.9	1280.5	1293.7
37.5°	1316.3	1301.2	1235.3	1244.7	1257.9
40°	1274.9	1241.0	1193.9	1203.3	1218.4
42.5°	1229.7	1176.9	1148.7	1161.9	1175.1
45°	1182.6	1111.0	1103.5	1116.7	1126.1
47.5°	1133.6	1054.5	1056.4	1065.8	798.4
50°	1079.0	998.1	1005.6	696.8	442.5
52.5°	1020.7	939.7	954.7	387.9	224.1
55°	960.4	879.4	894.5	195.8	150.6
57.5°	896.4	819.2	583.8	141.2	148.8
60°	832.3	755.1	297.5	139.4	143.1
62.5°	766.4	691.1	141.2	133.7	135.6
65°	698.6	625.2	116.8	124.3	124.3
67.5°	623.3	555.5	111.1	111.1	109.2
70°	546.1	461.4	101.7	96.0	94.2
72.5°	474.5	177.0	88.5	79.1	77.2
75°	386.0	81.0	73.4	64.0	62.1
77.5°	306.9	67.8	58.4	50.8	49.0
80°	227.9	52.7	43.3	37.7	35.8
82.5°	158.2	35.8	30.1	24.5	24.5
85°	90.4	22.6	18.8	15.1	15.1
87.5°	35.8	11.3	9.4	5.6	5.6
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	23.56	25.08	23.92	25.39	25.71	11.32	12.84	11.69	13.16	13.47
	3H	25.58	26.94	25.95	27.26	27.63	13.64	14.99	14.01	15.32	15.68
	4H	26.04	27.31	26.44	27.66	28.04	14.35	15.62	14.75	15.97	16.35
	6H	26.45	27.62	26.86	27.99	28.38	14.83	16.01	15.25	16.37	16.76
	8H	26.59	27.71	27.02	28.10	28.50	14.97	16.09	15.40	16.48	16.88
	12H	26.69	27.76	27.12	28.14	28.57	15.06	16.13	15.49	16.51	16.94
4H	2H	23.40	24.67	23.80	25.02	25.40	12.12	13.39	12.52	13.74	14.12
	3H	25.60	26.65	26.01	27.05	27.45	14.63	15.68	15.04	16.08	16.48
	4H	26.05	26.99	26.48	27.40	27.84	15.45	16.39	15.88	16.81	17.24
	6H	26.51	27.33	26.97	27.77	28.23	16.04	16.86	16.50	17.30	17.76
	8H	26.71	27.47	27.17	27.91	28.38	16.21	16.97	16.68	17.42	17.89
	12H	26.86	27.54	27.34	28.02	28.49	16.33	17.01	16.81	17.49	17.96
8H	4H	25.97	26.73	26.43	27.17	27.64	16.29	17.05	16.75	17.49	17.96
	6H	26.43	27.06	26.92	27.55	28.02	16.91	17.54	17.41	18.03	18.51
	8H	26.63	27.19	27.14	27.70	28.19	17.11	17.68	17.63	18.19	18.68
	12H	26.81	27.31	27.32	27.80	28.37	17.27	17.77	17.78	18.26	18.83
12H	4H	25.94	26.62	26.42	27.09	27.57	16.36	17.04	16.84	17.52	17.99
	6H	26.38	26.95	26.89	27.46	27.95	17.00	17.57	17.52	18.08	18.57
	8H	26.60	27.10	27.11	27.60	28.16	17.26	17.76	17.77	18.25	18.82