

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: P894296

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894296
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-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

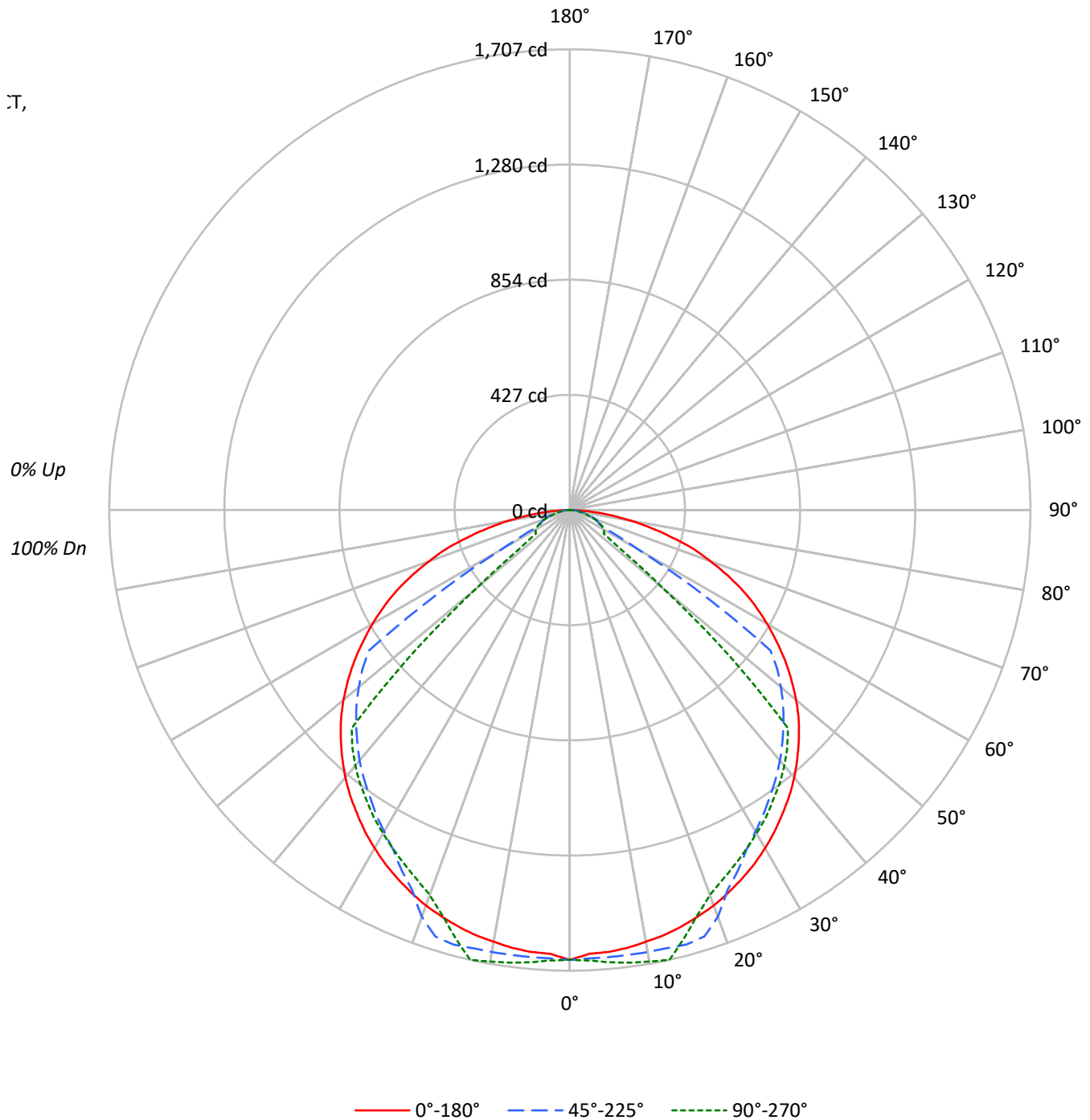
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4065.0 lumens
Efficiency: N/A
Efficacy: 121.3 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	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	100																												
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87																												
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75																												
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																												
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56																												
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49																												
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																												
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38																												
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35																												
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31																												
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21642	21642	21642
5°	21425	21675	21924
10°	21421	21926	22405
15°	21481	22406	22045
20°	21551	22159	20971
25°	21606	21113	20758
30°	21695	20635	20749
35°	21784	20512	20815
40°	21934	20541	20961
45°	22042	20567	20990
50°	22124	20619	9074
55°	22068	20554	3461
60°	21940	7843	3773
65°	21787	3641	3874
70°	21044	3918	3630
75°	19657	3738	3166
80°	17296	3290	2714
85°	13662	2846	2280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 22124 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.9
10°-20°	462.2	11.4
20°-30°	689.6	17.0
30°-40°	835.9	20.6
40°-50°	855.9	21.1
50°-60°	569.2	14.0
60°-70°	324.4	8.0
70°-80°	136.3	3.4
80°-90°	32.5	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°	1310.9	32.2
0°-40°	2146.8	52.8
0°-60°	3571.8	87.9
0°-90°	4065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1667	1667	1667	1667	1667	
5°	1644	1676	1663	1667	1682	156
15°	1598	1642	1667	1661	1640	451
25°	1508	1581	1474	1441	1449	696
35°	1374	1399	1294	1300	1313	861
45°	1200	1128	1120	1133	1143	926
55°	975	893	908	199	153	870
65°	709	635	118	126	126	698
75°	392	82	74	65	63	416
85°	92	23	19	15	15	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.7	1666.7	1666.7	1666.7	1666.7
2.5°	1645.7	1680.1	1662.9	1664.8	1670.5
5°	1643.7	1676.2	1662.9	1666.7	1682.0
7.5°	1636.1	1670.5	1662.9	1674.3	1691.5
10°	1624.6	1664.8	1662.9	1682.0	1699.2
12.5°	1613.2	1653.3	1662.9	1691.5	1706.8
15°	1597.9	1641.8	1666.7	1660.9	1639.9
17.5°	1578.8	1630.4	1657.1	1574.9	1573.0
20°	1559.6	1615.1	1603.6	1525.2	1517.6
22.5°	1534.8	1599.8	1525.2	1471.7	1481.3
25°	1508.0	1580.7	1473.6	1441.1	1448.8
27.5°	1479.4	1561.6	1418.2	1406.7	1416.3
30°	1446.9	1534.8	1376.2	1372.3	1383.8
32.5°	1412.5	1483.2	1336.0	1337.9	1351.3
35°	1374.2	1399.1	1294.0	1299.7	1313.1
37.5°	1336.0	1320.7	1253.8	1263.4	1276.8
40°	1294.0	1259.6	1211.8	1221.3	1236.6
42.5°	1248.1	1194.6	1165.9	1179.3	1192.7
45°	1200.3	1127.7	1120.0	1133.4	1143.0
47.5°	1150.6	1070.3	1072.3	1081.8	810.4
50°	1095.2	1013.0	1020.7	707.2	449.2
52.5°	1035.9	953.8	969.0	393.7	227.4
55°	974.8	892.6	907.9	198.8	152.9
57.5°	909.8	831.4	592.5	143.3	151.0
60°	844.8	766.4	302.0	141.4	145.3
62.5°	777.9	701.5	143.3	135.7	137.6
65°	709.1	634.6	118.5	126.1	126.1
67.5°	632.7	563.8	112.8	112.8	110.9
70°	554.3	468.3	103.2	97.5	95.6
72.5°	481.7	179.7	89.8	80.3	78.4
75°	391.8	82.2	74.5	65.0	63.1
77.5°	311.5	68.8	59.3	51.6	49.7
80°	231.3	53.5	44.0	38.2	36.3
82.5°	160.6	36.3	30.6	24.8	24.8
85°	91.7	22.9	19.1	15.3	15.3
87.5°	36.3	11.5	9.6	5.7	5.7
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	23.61	25.13	23.97	25.44	25.76	11.37	12.89	11.74	13.21	13.52
	3H	25.63	26.99	26.01	27.31	27.68	13.69	15.05	14.07	15.38	15.74
	4H	26.09	27.36	26.49	27.71	28.09	14.40	15.67	14.80	16.02	16.40
	6H	26.50	27.67	26.91	28.04	28.43	14.89	16.06	15.30	16.43	16.82
	8H	26.65	27.76	27.07	28.15	28.55	15.02	16.14	15.45	16.53	16.93
	12H	26.74	27.81	27.18	28.19	28.62	15.11	16.18	15.54	16.56	16.99
4H	2H	23.45	24.72	23.85	25.07	25.45	12.17	13.44	12.57	13.79	14.17
	3H	25.65	26.70	26.06	27.10	27.50	14.68	15.73	15.09	16.13	16.53
	4H	26.10	27.04	26.53	27.46	27.89	15.50	16.44	15.94	16.86	17.30
	6H	26.57	27.38	27.02	27.82	28.28	16.10	16.91	16.55	17.35	17.81
	8H	26.76	27.52	27.22	27.96	28.43	16.26	17.03	16.73	17.47	17.94
	12H	26.91	27.59	27.39	28.07	28.54	16.38	17.06	16.86	17.54	18.01
8H	4H	26.02	26.78	26.48	27.22	27.69	16.34	17.10	16.81	17.55	18.02
	6H	26.48	27.11	26.98	27.60	28.08	16.96	17.59	17.46	18.08	18.56
	8H	26.68	27.24	27.19	27.75	28.24	17.16	17.73	17.68	18.24	18.73
	12H	26.86	27.36	27.37	27.86	28.42	17.32	17.82	17.83	18.31	18.88
12H	4H	25.99	26.67	26.47	27.15	27.62	16.41	17.09	16.90	17.57	18.04
	6H	26.43	27.00	26.95	27.51	28.00	17.06	17.62	17.57	18.13	18.62
	8H	26.65	27.16	27.16	27.65	28.21	17.31	17.81	17.82	18.30	18.87