

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: P894177

Luminaire Tested: 4MB-SC3-ASYMR-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-ASYMR-UNV-CC83-MID-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3500K CCT, MID setting
Light Source: -
Ballast/Driver: -

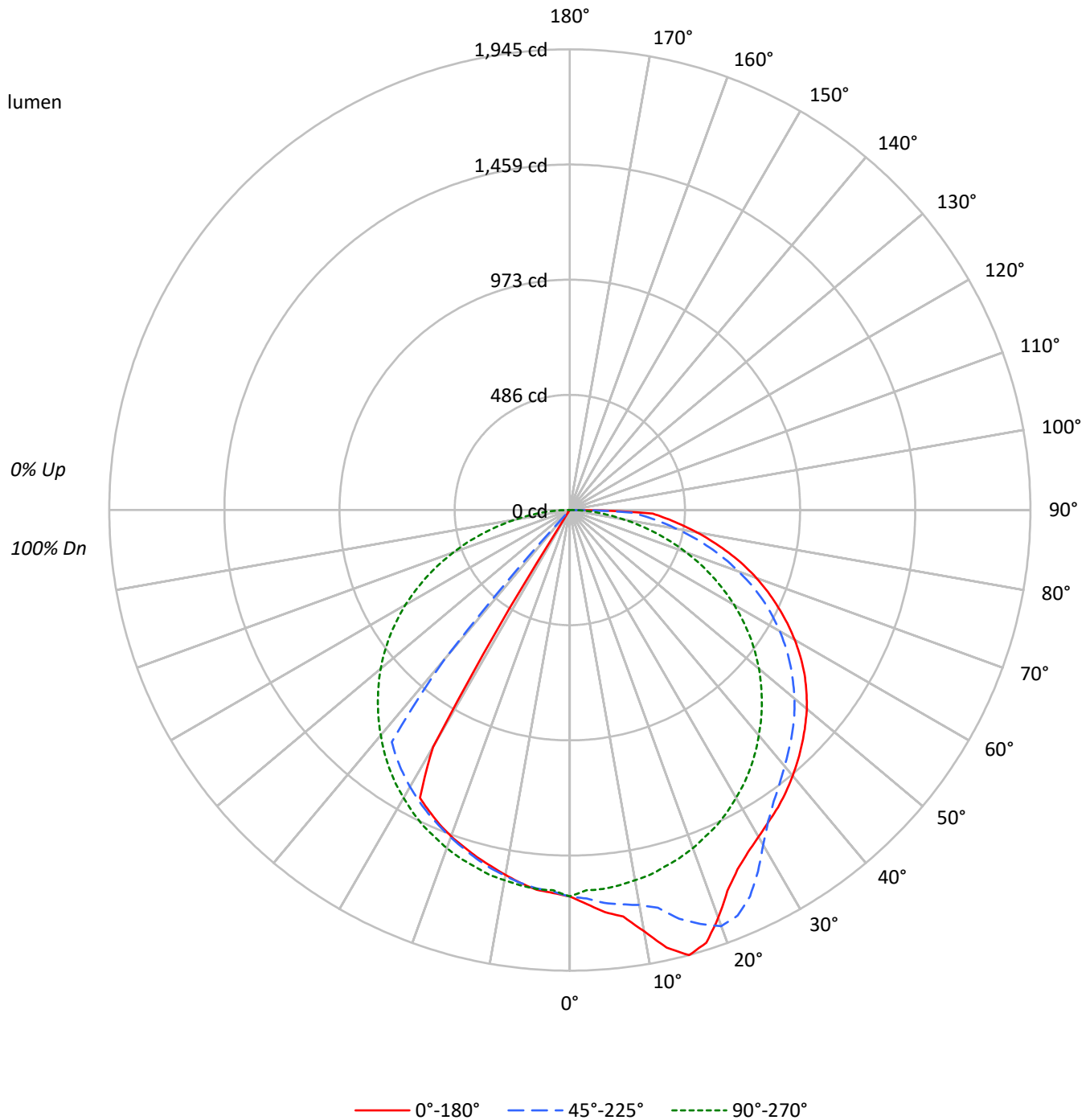
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4414.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V):
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21184	21184	21184	21184	21184
5°	22215	21704	20936	20900	20973
10°	23802	22324	20932	20685	20623
15°	26152	24016	20939	20487	20387
20°	25320	25836	20994	20323	20258
25°	23990	25784	21044	20255	20107
30°	23887	24476	21042	20230	17316
35°	24291	23802	21077	20233	238
40°	24819	23916	21050	13954	158
45°	25498	24400	21054	257	103
50°	26389	25011	21066	188	38
55°	27393	25722	21004	127	20
60°	28489	26596	20820	49	23
65°	29828	27647	20442	58	58
70°	31819	28805	19795	72	72
75°	34828	30659	18939	186	95
80°	40874	34308	17535	277	142
85°	60831	48168	16433	417	283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 104311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	3.5
10°-20°	466.8	10.6
20°-30°	717.5	16.3
30°-40°	769.0	17.4
40°-50°	698.4	15.8
50°-60°	637.0	14.4
60°-70°	473.9	10.7
70°-80°	333.6	7.6
80°-90°	161.6	3.7
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°	1340.6	30.4
0°-40°	2109.6	47.8
0°-60°	3445.0	78.0
0°-90°	4414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4414.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1631	1631	1631	1631	1631	
5°	1704	1665	1606	1603	1609	165
15°	1945	1786	1558	1524	1516	537
25°	1674	1800	1469	1414	1403	779
35°	1532	1502	1330	1276	15	960
45°	1388	1329	1146	14	6	1073
55°	1210	1136	928	6	1	1081
65°	971	900	665	2	2	961
75°	694	611	378	4	2	732
85°	408	323	110	3	2	410
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4	1631.4
2.5°	1665.1	1646.4	1641.7	1654.8	1607.1	1638.9	1612.7	1618.3	1618.3
5°	1704.3	1678.1	1665.1	1661.3	1606.2	1627.7	1603.4	1603.4	1609.0
7.5°	1731.4	1702.4	1679.1	1669.7	1597.8	1616.5	1588.4	1588.4	1588.4
10°	1805.2	1751.0	1693.1	1676.3	1587.5	1601.5	1568.8	1570.7	1564.1
12.5°	1892.1	1843.5	1720.2	1673.5	1576.3	1582.8	1548.3	1547.3	1539.9
15°	1945.4	1908.9	1786.5	1669.7	1557.6	1563.2	1524.0	1521.2	1516.5
17.5°	1915.5	1909.9	1832.3	1666.9	1540.8	1536.1	1496.9	1494.1	1490.3
20°	1832.3	1846.3	1869.7	1661.3	1519.3	1510.0	1470.7	1468.8	1466.0
22.5°	1739.8	1753.8	1852.9	1670.7	1493.1	1481.9	1442.7	1440.8	1437.1
25°	1674.4	1674.4	1799.6	1693.1	1468.8	1448.3	1413.7	1410.9	1403.4
27.5°	1628.6	1620.2	1720.2	1718.3	1438.0	1414.6	1382.9	1380.1	1370.7
30°	1593.1	1579.1	1632.4	1730.5	1403.4	1378.2	1349.2	1346.4	1154.9
32.5°	1561.3	1546.4	1558.5	1740.7	1368.9	1339.0	1313.7	937.2	41.1
35°	1532.4	1515.6	1501.5	1733.3	1329.6	1299.7	1276.4	27.1	15.0
37.5°	1499.7	1486.6	1454.8	1694.0	1287.6	1257.7	1235.2	15.0	13.1
40°	1464.2	1452.0	1410.9	1636.1	1241.8	1216.6	823.2	13.1	9.3
42.5°	1427.7	1418.4	1369.8	1552.0	1196.0	1170.8	26.2	10.3	7.5
45°	1388.5	1380.1	1328.7	1450.2	1146.5	1123.1	14.0	7.5	5.6
47.5°	1348.3	1336.2	1285.7	1340.8	1096.0	1072.7	12.1	5.6	3.7
50°	1306.3	1293.2	1238.1	1244.6	1042.8	1019.4	9.3	3.7	1.9
52.5°	1259.5	1243.7	1187.6	1157.7	986.7	965.2	7.5	1.9	0.9
55°	1210.0	1192.3	1136.2	1082.0	927.8	903.5	5.6	1.9	0.9
57.5°	1154.9	1135.3	1082.0	1010.1	865.2	611.1	3.7	1.9	0.9
60°	1097.0	1077.3	1024.1	942.8	801.7	42.0	1.9	1.9	0.9
62.5°	1035.3	1014.7	963.3	874.6	733.5	34.6	1.9	1.9	1.9
65°	970.8	946.5	899.8	804.5	665.3	29.0	1.9	1.9	1.9
67.5°	906.3	875.5	831.6	732.6	595.2	24.3	1.9	1.9	1.9
70°	838.1	804.5	758.7	659.7	521.4	19.6	1.9	1.9	1.9
72.5°	768.1	735.4	685.8	585.9	452.2	15.0	1.9	1.9	1.9
75°	694.2	664.3	611.1	512.0	377.5	11.2	3.7	1.9	1.9
77.5°	617.6	594.3	534.5	436.4	304.6	7.5	3.7	1.9	1.9
80°	546.6	520.4	458.8	359.7	234.5	5.6	3.7	2.8	1.9
82.5°	473.7	450.4	388.7	289.7	168.2	4.7	3.7	2.8	1.9
85°	408.3	385.9	323.3	226.1	110.3	3.7	2.8	2.8	1.9
87.5°	350.4	329.8	268.2	165.4	62.6	2.8	2.8	2.8	1.9
90°	0.0	0.0	0.0	0.0	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	25.14	26.75	25.50	27.07	27.38	20.57	22.19	20.94	22.50	22.82
	3H	27.59	29.05	27.96	29.38	29.74	21.21	22.68	21.59	23.01	23.37
	4H	28.71	30.09	29.11	30.44	30.82	21.36	22.74	21.76	23.09	23.46
	6H	29.80	31.09	30.21	31.45	31.84	21.40	22.68	21.81	23.05	23.44
	8H	30.33	31.56	30.76	31.95	32.35	21.39	22.62	21.81	23.00	23.40
	12H	30.90	32.08	31.33	32.46	32.89	21.37	22.55	21.80	22.93	23.36
4H	2H	25.80	27.18	26.20	27.53	27.90	21.70	23.08	22.10	23.43	23.81
	3H	28.49	29.65	28.89	30.05	30.45	23.04	24.21	23.45	24.61	25.01
	4H	29.78	30.84	30.21	31.26	31.69	23.58	24.64	24.01	25.05	25.49
	6H	31.06	32.00	31.52	32.44	32.89	23.85	24.79	24.31	25.23	25.68
	8H	31.69	32.57	32.15	33.01	33.47	23.89	24.77	24.35	25.21	25.67
	12H	32.38	33.17	32.86	33.64	34.11	23.90	24.69	24.38	25.17	25.64
8H	4H	30.14	31.02	30.60	31.46	31.93	24.52	25.40	24.98	25.84	26.31
	6H	31.63	32.36	32.12	32.85	33.33	25.11	25.85	25.61	26.34	26.81
	8H	32.41	33.08	32.92	33.58	34.06	25.29	25.96	25.80	26.46	26.95
	12H	33.30	33.89	33.81	34.38	34.94	25.39	25.99	25.90	26.48	27.03
12H	4H	30.19	30.98	30.66	31.45	31.92	24.74	25.53	25.22	26.01	26.48
	6H	31.72	32.38	32.22	32.89	33.37	25.46	26.13	25.97	26.64	27.12
	8H	32.60	33.19	33.10	33.68	34.24	25.78	26.37	26.28	26.86	27.42