

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: P894269

Luminaire Tested: 4MB-SC3-LVRF-UNV-CC83-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRF-UNV-CC83-MID-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

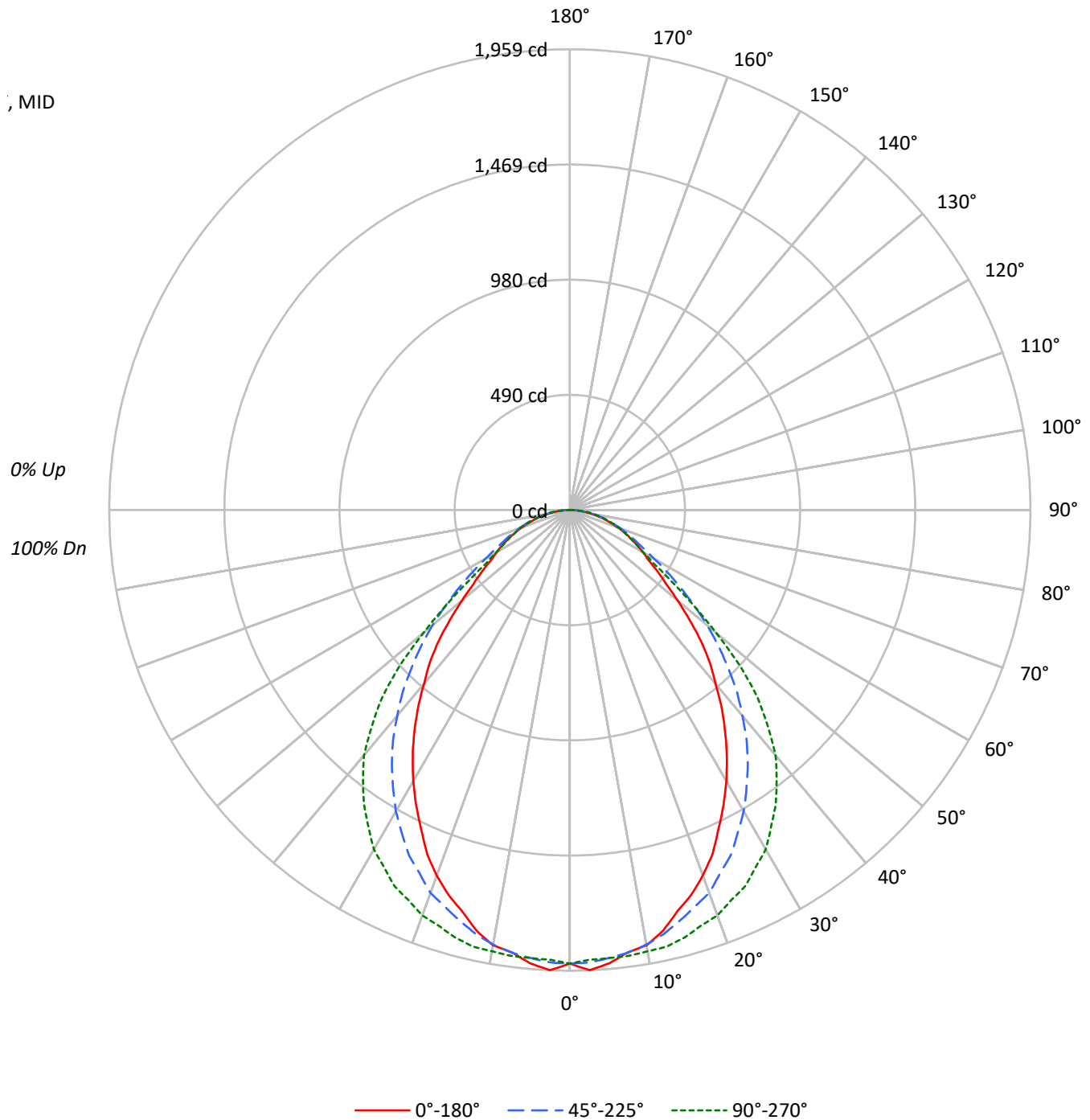
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4008.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' 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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13721	13721	13721
5°	13817	13659	13659
10°	13577	13556	13766
15°	13016	13318	13865
20°	12521	13121	13888
25°	11746	12715	13856
30°	10933	12153	13693
35°	10009	11463	13257
40°	8960	10599	12649
45°	7951	9596	11372
50°	6616	8448	8969
55°	5635	7115	6519
60°	5109	5880	5151
65°	4812	5150	4795
70°	4527	4778	4672
75°	4217	4550	4467
80°	3864	4192	4315
85°	3355	3682	4833

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11372 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	4.6
10°-20°	513.8	12.8
20°-30°	746.1	18.6
30°-40°	830.8	20.7
40°-50°	734.0	18.3
50°-60°	481.6	12.0
60°-70°	294.9	7.4
70°-80°	171.6	4.3
80°-90°	52.6	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°	1442.4	36.0
0°-40°	2273.2	56.7
0°-60°	3488.9	87.0
0°-90°	4008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1934	1936	1912	1932	1912	182
15°	1767	1787	1808	1879	1882	499
25°	1496	1532	1620	1723	1765	688
35°	1152	1214	1320	1459	1526	719
45°	790	838	954	1082	1130	605
55°	454	486	574	569	526	412
65°	286	291	306	297	285	284
75°	153	155	166	168	162	163
85°	41	43	45	51	59	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.5	1928.5	1928.5	1928.5	1928.5
2.5°	1958.6	1934.5	1925.5	1934.5	1914.4
5°	1934.5	1935.5	1912.4	1931.5	1912.4
7.5°	1896.4	1909.4	1898.4	1927.5	1912.4
10°	1879.3	1880.3	1876.3	1906.4	1905.4
12.5°	1832.2	1835.2	1846.2	1891.4	1901.4
15°	1767.0	1787.1	1808.1	1879.3	1882.3
17.5°	1715.9	1739.9	1768.0	1844.2	1853.3
20°	1653.7	1663.7	1732.9	1800.1	1834.2
22.5°	1584.5	1603.5	1670.7	1761.0	1795.1
25°	1496.2	1532.3	1619.6	1722.9	1765.0
27.5°	1415.0	1457.1	1547.4	1662.7	1711.9
30°	1330.8	1378.9	1479.2	1592.5	1666.7
32.5°	1243.5	1303.7	1399.0	1529.3	1594.5
35°	1152.3	1214.4	1319.7	1459.1	1526.3
37.5°	1061.0	1121.2	1235.5	1384.9	1445.1
40°	964.7	1023.9	1141.2	1292.7	1361.9
42.5°	881.5	932.6	1053.0	1182.4	1246.5
45°	790.2	838.4	953.7	1082.1	1130.2
47.5°	690.0	746.1	858.4	963.7	982.8
50°	597.7	655.9	763.2	824.3	810.3
52.5°	516.5	565.6	663.9	690.0	656.9
55°	454.3	486.4	573.6	568.6	525.5
57.5°	397.1	417.2	491.4	463.3	422.2
60°	359.0	368.0	413.2	387.1	362.0
62.5°	322.9	326.9	351.0	337.0	317.9
65°	285.8	290.8	305.9	296.8	284.8
67.5°	251.7	253.7	267.8	265.8	250.7
70°	217.6	220.6	229.7	233.7	224.6
72.5°	184.5	187.5	196.6	200.6	192.5
75°	153.4	155.4	165.5	168.5	162.5
77.5°	123.3	127.4	133.4	138.4	131.4
80°	94.3	96.3	102.3	108.3	105.3
82.5°	66.2	69.2	73.2	81.2	83.2
85°	41.1	43.1	45.1	51.1	59.2
87.5°	16.0	17.0	20.1	22.1	29.1
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	16.63	18.11	16.99	18.42	18.74	17.28	18.76	17.65	19.07	19.39
	3H	18.23	19.56	18.61	19.88	20.25	18.72	20.04	19.09	20.37	20.73
	4H	18.85	20.09	19.25	20.44	20.82	19.32	20.56	19.72	20.91	21.29
	6H	19.32	20.46	19.73	20.83	21.22	19.81	20.96	20.22	21.32	21.71
	8H	19.47	20.56	19.90	20.95	21.35	20.01	21.10	20.43	21.49	21.89
	12H	19.57	20.61	20.00	21.00	21.42	20.17	21.22	20.60	21.60	22.03
4H	2H	17.25	18.49	17.65	18.84	19.22	17.77	19.02	18.17	19.37	19.74
	3H	19.07	20.10	19.48	20.50	20.90	19.47	20.50	19.88	20.90	21.30
	4H	19.81	20.73	20.24	21.15	21.59	20.23	21.15	20.66	21.57	22.01
	6H	20.41	21.21	20.87	21.66	22.12	20.86	21.67	21.32	22.11	22.57
	8H	20.60	21.36	21.07	21.80	22.27	21.12	21.87	21.58	22.31	22.78
	12H	20.75	21.42	21.23	21.90	22.37	21.34	22.01	21.82	22.49	22.96
8H	4H	20.13	20.88	20.59	21.32	21.79	20.50	21.25	20.96	21.69	22.16
	6H	20.85	21.47	21.35	21.97	22.44	21.27	21.89	21.77	22.39	22.86
	8H	21.12	21.69	21.64	22.20	22.68	21.61	22.18	22.13	22.69	23.17
	12H	21.34	21.84	21.85	22.33	22.90	21.93	22.43	22.44	22.92	23.49
12H	4H	20.16	20.83	20.65	21.31	21.79	20.52	21.19	21.00	21.67	22.14
	6H	20.92	21.48	21.43	21.99	22.48	21.32	21.88	21.83	22.39	22.88
	8H	21.25	21.75	21.76	22.24	22.80	21.72	22.22	22.23	22.71	23.28