

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: P893410

Luminaire Tested: 4MB-3SL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-3SL-LVR-UNV-L835
Description: 3000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

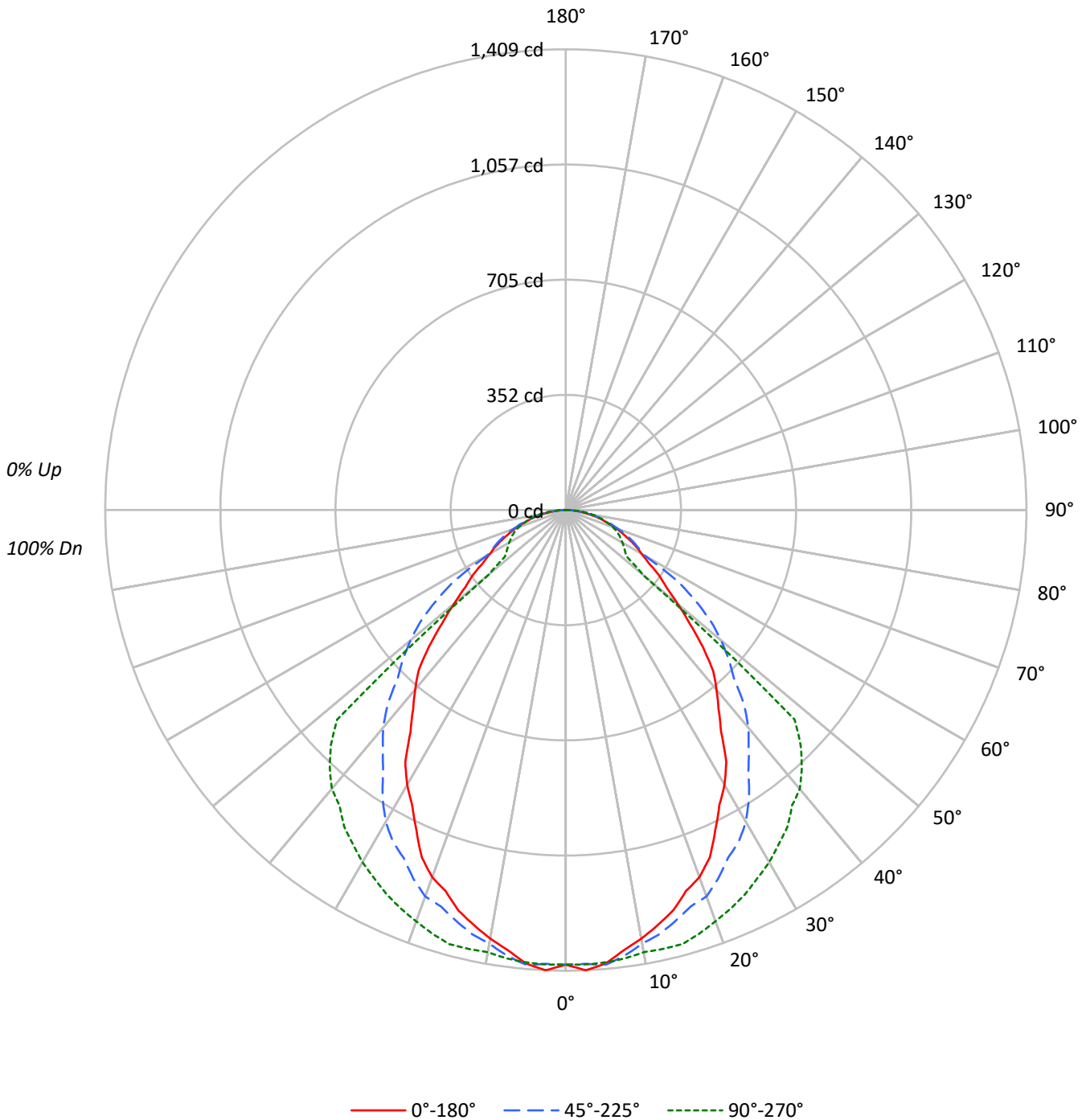
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2967.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.33 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 5.2
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	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	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	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9892	9892	9892
5°	9945	9970	9920
10°	9619	9732	9922
15°	9342	9577	10126
20°	9049	9522	10135
25°	8490	9215	10179
30°	7975	9048	10221
35°	7192	8462	10269
40°	6661	8072	10341
45°	5959	7316	10224
50°	4943	6854	3435
55°	4307	6016	2748
60°	3809	3920	2849
65°	3623	3813	3025
70°	3397	3605	3191
75°	3161	3398	3280
80°	2880	3200	3434
85°	2547	2727	3706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10224 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	4.4
10°-20°	371.0	12.5
20°-30°	545.7	18.4
30°-40°	624.1	21.0
40°-50°	591.0	19.9
50°-60°	325.6	11.0
60°-70°	209.1	7.0
70°-80°	129.0	4.3
80°-90°	39.7	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°	1048.6	35.3
0°-40°	1672.7	56.4
0°-60°	2589.2	87.3
0°-90°	2967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1392	1404	1396	1396	1389	131
15°	1268	1284	1300	1368	1375	356
25°	1082	1130	1174	1250	1297	498
35°	828	899	974	1116	1182	523
45°	592	648	727	933	1016	453
55°	347	364	485	250	222	310
65°	215	222	226	202	180	213
75°	115	117	124	130	119	122
85°	31	31	33	38	45	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.3	1390.3	1390.3	1390.3	1390.3
2.5°	1408.8	1412.4	1389.6	1388.9	1391.1
5°	1392.5	1403.8	1396.0	1396.0	1388.9
7.5°	1357.7	1376.8	1374.7	1391.1	1383.2
10°	1331.4	1347.0	1347.0	1389.6	1373.3
12.5°	1300.2	1317.9	1327.9	1372.6	1374.7
15°	1268.2	1283.8	1300.2	1368.3	1374.7
17.5°	1222.1	1250.5	1271.0	1337.8	1358.4
20°	1195.1	1212.1	1257.6	1311.5	1338.5
22.5°	1150.3	1175.2	1219.2	1279.6	1319.3
25°	1081.5	1129.7	1173.8	1250.5	1296.6
27.5°	1017.5	1053.8	1144.7	1225.6	1269.6
30°	970.7	999.1	1101.3	1189.4	1244.1
32.5°	913.9	960.0	1043.1	1153.9	1212.1
35°	828.0	899.0	974.2	1115.5	1182.3
37.5°	767.6	816.6	918.8	1075.8	1137.6
40°	717.2	761.9	869.1	1026.1	1113.4
42.5°	666.8	703.0	806.7	989.1	1068.7
45°	592.2	648.3	727.1	933.0	1016.1
47.5°	514.1	573.7	675.3	885.5	949.4
50°	446.6	494.2	619.2	791.0	310.3
52.5°	387.7	431.7	559.5	286.2	234.3
55°	347.2	364.3	485.0	249.9	221.5
57.5°	298.9	326.6	406.9	237.9	210.2
60°	267.7	279.8	275.5	225.8	200.2
62.5°	242.8	251.4	249.9	213.7	188.9
65°	215.2	222.3	226.5	201.7	179.7
67.5°	187.5	193.9	200.2	186.8	166.9
70°	163.3	167.6	173.3	169.0	153.4
72.5°	138.5	143.4	147.0	150.5	135.6
75°	115.0	117.2	123.6	129.9	119.3
77.5°	93.7	95.9	100.1	107.2	101.5
80°	70.3	72.4	78.1	83.8	83.8
82.5°	49.7	51.1	54.7	62.5	66.0
85°	31.2	31.2	33.4	38.3	45.4
87.5°	12.1	12.1	14.2	17.0	22.7
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	15.91	17.39	16.28	17.71	18.02	13.72	15.20	14.08	15.51	15.83
	3H	17.44	18.77	17.82	19.09	19.46	16.05	17.37	16.42	17.70	18.06
	4H	18.03	19.27	18.43	19.62	20.00	17.00	18.24	17.40	18.59	18.97
	6H	18.49	19.63	18.90	20.00	20.39	17.78	18.93	18.19	19.29	19.69
	8H	18.63	19.72	19.06	20.11	20.52	18.09	19.18	18.52	19.57	19.97
	12H	18.73	19.77	19.16	20.16	20.58	18.34	19.38	18.77	19.77	20.20
4H	2H	16.46	17.71	16.86	18.05	18.43	14.82	16.06	15.22	16.41	16.79
	3H	18.23	19.26	18.65	19.66	20.07	17.27	18.29	17.68	18.69	19.10
	4H	18.96	19.88	19.39	20.30	20.74	18.33	19.26	18.76	19.67	20.11
	6H	19.54	20.35	20.00	20.79	21.25	19.22	20.02	19.68	20.47	20.93
	8H	19.73	20.48	20.19	20.93	21.40	19.57	20.32	20.03	20.77	21.24
	12H	19.87	20.54	20.35	21.02	21.49	19.86	20.53	20.34	21.01	21.48
8H	4H	19.26	20.02	19.73	20.46	20.93	18.72	19.47	19.18	19.91	20.38
	6H	19.97	20.60	20.47	21.09	21.57	19.75	20.38	20.25	20.87	21.35
	8H	20.23	20.80	20.75	21.31	21.80	20.20	20.76	20.71	21.27	21.76
	12H	20.44	20.94	20.95	21.43	22.00	20.58	21.08	21.09	21.57	22.14
12H	4H	19.30	19.97	19.78	20.45	20.92	18.75	19.43	19.24	19.90	20.38
	6H	20.04	20.60	20.55	21.11	21.60	19.82	20.38	20.33	20.89	21.38
	8H	20.36	20.86	20.87	21.35	21.91	20.33	20.82	20.84	21.32	21.88