

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: P894246

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRA-UNV-CC83-LOW-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT, LO lumen setting
Light Source: -
Ballast/Driver: -

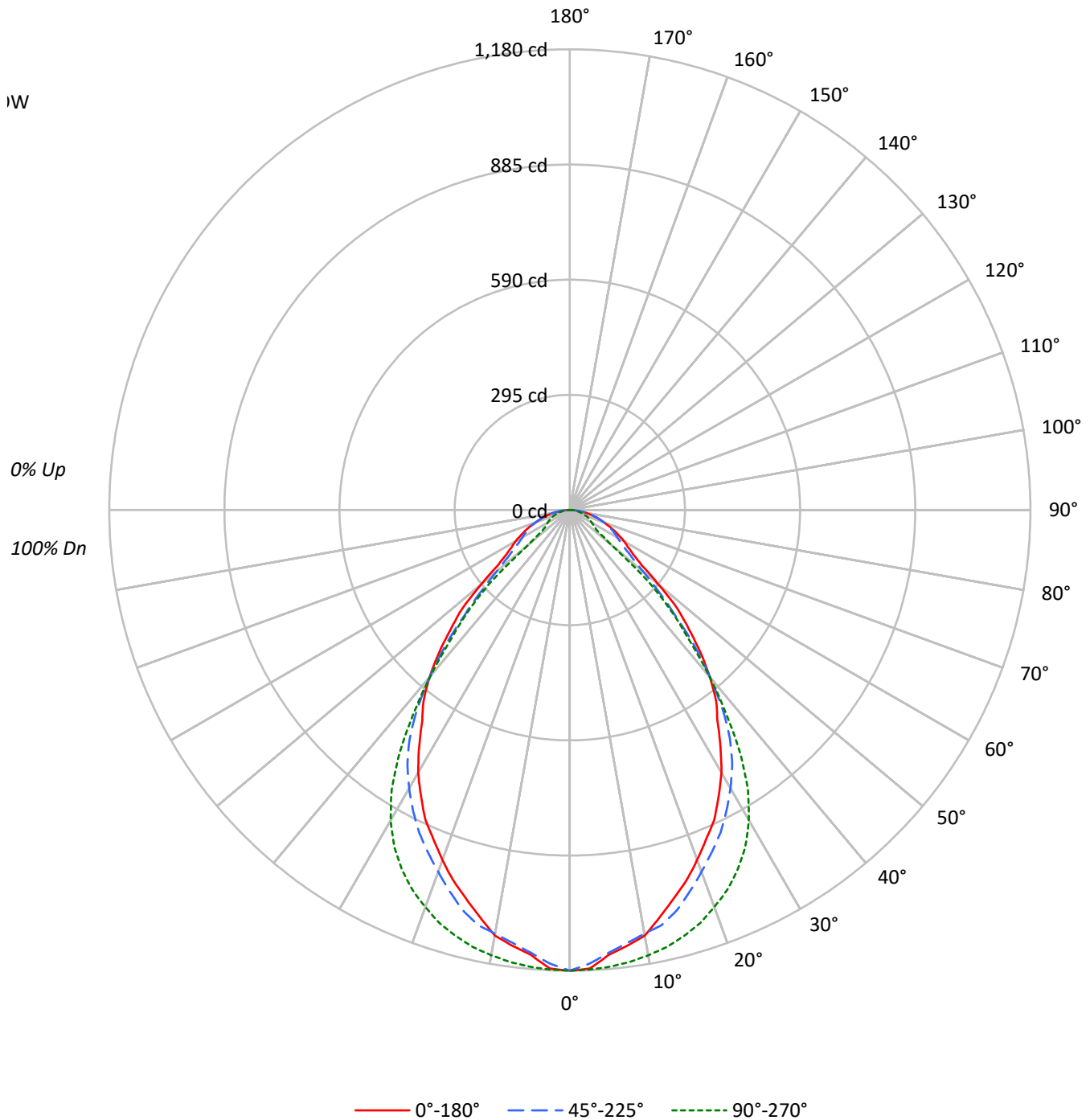
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1915.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55			55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50			50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45			45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41			41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8395	8395	8395
5°	8169	8132	8386
10°	7996	7960	8366
15°	7583	7815	8320
20°	7223	7467	8192
25°	6871	7164	7983
30°	6384	6763	7538
35°	5724	6216	6612
40°	5185	5198	5169
45°	4336	3841	3745
50°	3275	2703	1532
55°	2464	2162	966
60°	2290	1991	931
65°	2130	1987	931
70°	1949	1949	917
75°	1847	1897	885
80°	1709	1795	910
85°	1486	1567	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4437 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	5.7
10°-20°	300.3	15.7
20°-30°	425.9	22.2
30°-40°	438.7	22.9
40°-50°	306.4	16.0
50°-60°	147.0	7.7
60°-70°	103.2	5.4
70°-80°	64.5	3.4
80°-90°	19.9	1.0
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°	835.2	43.6
0°-40°	1273.9	66.5
0°-60°	1727.4	90.2
0°-90°	1915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1144	1142	1139	1168	1174	108
15°	1029	1037	1061	1091	1130	290
25°	875	884	913	974	1017	400
35°	659	677	716	730	761	415
45°	431	441	382	362	372	332
55°	199	189	174	112	78	186
65°	126	118	118	90	55	125
75°	67	66	69	60	32	71
85°	18	18	19	19	12	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.9	1179.9	1179.9	1179.9	1179.9
2.5°	1175.4	1171.7	1162.9	1179.0	1177.8
5°	1143.8	1142.2	1138.6	1168.4	1174.2
7.5°	1125.8	1122.8	1118.5	1151.4	1167.5
10°	1106.7	1110.3	1101.8	1131.9	1158.0
12.5°	1067.1	1076.8	1088.4	1111.8	1146.5
15°	1029.4	1037.0	1061.0	1091.4	1129.5
17.5°	994.1	1003.0	1023.6	1069.2	1109.7
20°	954.0	966.2	986.2	1044.6	1082.0
22.5°	912.6	923.9	949.1	1011.8	1053.4
25°	875.2	884.0	912.6	974.4	1016.9
27.5°	825.7	842.1	869.1	928.7	973.5
30°	777.0	791.0	823.2	873.4	917.5
32.5°	718.3	738.7	774.3	812.6	849.4
35°	659.0	676.9	715.6	730.5	761.2
37.5°	615.8	620.7	642.6	640.8	658.1
40°	558.3	568.1	559.6	536.8	556.5
42.5°	496.3	507.9	473.5	447.0	454.0
45°	430.9	441.0	381.7	362.2	372.2
47.5°	374.4	373.4	307.8	294.7	280.7
50°	295.9	305.6	244.2	219.9	138.4
52.5°	231.1	234.8	201.3	140.5	90.9
55°	198.6	188.9	174.3	111.6	77.9
57.5°	176.4	164.2	154.5	103.7	71.2
60°	160.9	147.2	139.9	98.5	65.4
62.5°	143.2	132.6	129.9	94.0	60.2
65°	126.5	118.3	118.0	89.7	55.3
67.5°	109.8	105.2	106.4	84.5	49.9
70°	93.7	92.8	93.7	77.9	44.1
72.5°	80.0	79.1	81.5	69.3	37.7
75°	67.2	66.3	69.0	59.6	32.2
77.5°	53.5	54.1	56.0	49.6	27.1
80°	41.7	41.7	43.8	38.9	22.2
82.5°	29.8	30.1	31.3	28.6	17.3
85°	18.2	18.2	19.2	18.9	12.2
87.5°	6.1	7.0	8.2	8.8	6.1
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	13.04	14.39	13.40	14.70	15.02	9.37	10.72	9.74	11.04	11.35
	3H	14.78	15.98	15.16	16.31	16.68	11.35	12.55	11.73	12.88	13.25
	4H	15.45	16.58	15.85	16.93	17.31	12.05	13.18	12.45	13.53	13.91
	6H	15.96	16.99	16.37	17.36	17.76	12.57	13.61	12.99	13.98	14.38
	8H	16.13	17.11	16.56	17.50	17.91	12.76	13.75	13.19	14.14	14.54
	12H	16.24	17.18	16.67	17.56	17.99	12.90	13.84	13.33	14.22	14.65
4H	2H	13.57	14.70	13.97	15.05	15.43	10.99	12.12	11.40	12.47	12.85
	3H	15.55	16.48	15.96	16.88	17.28	13.17	14.10	13.58	14.51	14.91
	4H	16.35	17.18	16.78	17.60	18.05	14.05	14.89	14.49	15.31	15.75
	6H	16.99	17.72	17.45	18.16	18.63	14.69	15.42	15.16	15.86	16.33
	8H	17.21	17.89	17.68	18.34	18.81	14.90	15.58	15.37	16.03	16.50
	12H	17.37	17.97	17.85	18.45	18.92	15.06	15.66	15.55	16.14	16.62
8H	4H	16.63	17.31	17.10	17.76	18.23	14.70	15.38	15.17	15.82	16.29
	6H	17.42	17.97	17.92	18.47	18.95	15.56	16.12	16.06	16.61	17.09
	8H	17.72	18.22	18.24	18.73	19.22	15.89	16.39	16.41	16.90	17.39
	12H	17.95	18.39	18.47	18.89	19.46	16.15	16.59	16.67	17.09	17.66
12H	4H	16.65	17.25	17.14	17.73	18.21	14.77	15.37	15.26	15.85	16.33
	6H	17.47	17.97	17.99	18.48	18.97	15.70	16.20	16.22	16.71	17.20
	8H	17.83	18.27	18.35	18.77	19.34	16.11	16.55	16.63	17.05	17.62