

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: P893192

Luminaire Tested: 4MB-10HL-LVR-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-6)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-10HL-LVR-UNV-L950
Description: 10000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

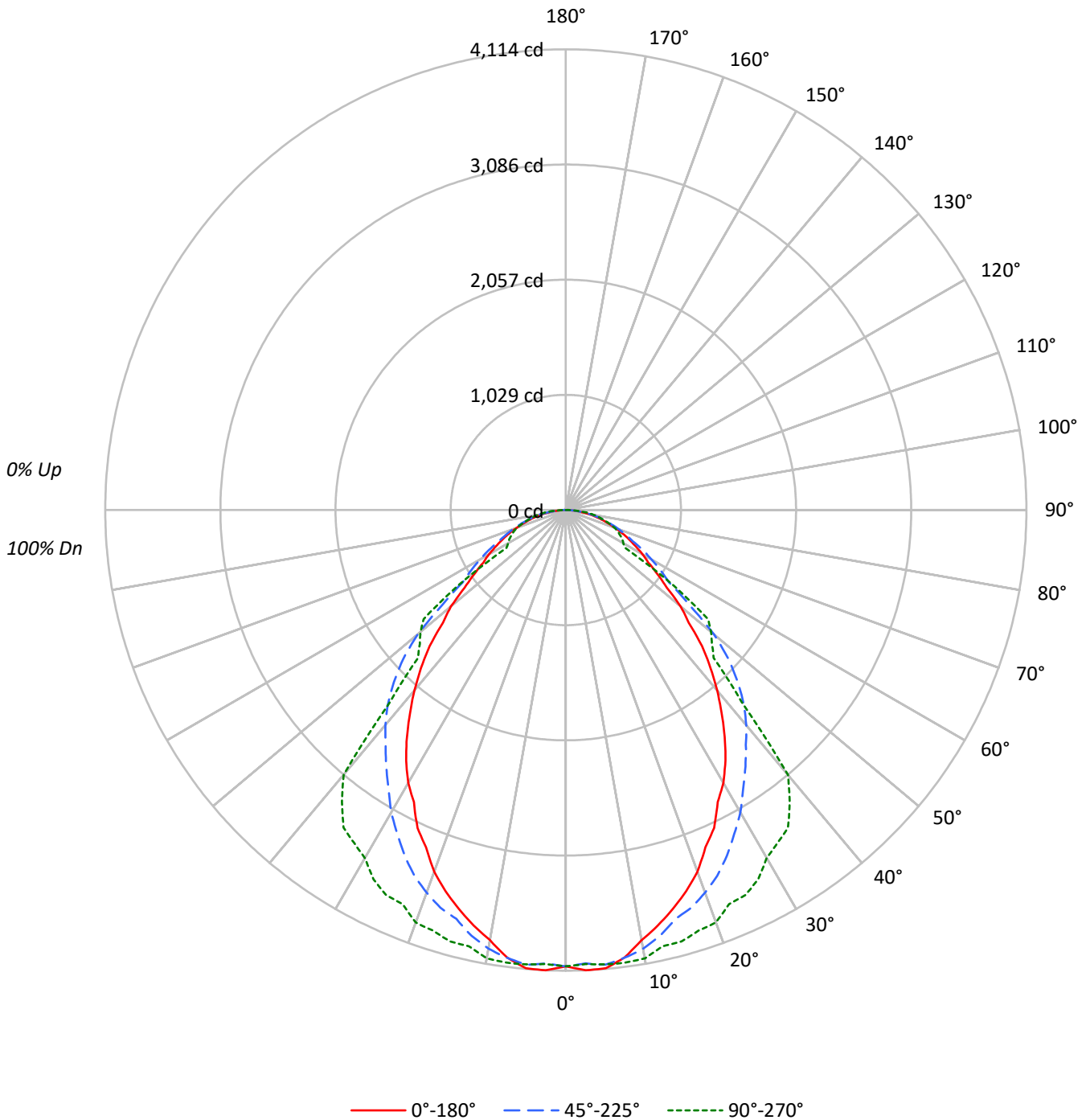
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8529.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.32 / 1.26
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 75.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 7.45
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P893192
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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		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	100	97	100	97	94	96	93	91	92	90	89		87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77		75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67		65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59		57
5	80	68	60	54	78	67	60	54	65	59	53	63	57	53	62	56	52		50
6	74	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47		45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42		40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38		36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35		33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28991	28991	28991
5°	29341	29110	29093
10°	28184	28738	29369
15°	27175	27845	29387
20°	26031	27535	29682
25°	24594	26727	29790
30°	23113	25611	29484
35°	21495	24291	30059
40°	19528	23285	28664
45°	17303	21854	18796
50°	14808	19101	18756
55°	12410	13939	14592
60°	11290	12584	8446
65°	10576	11140	9026
70°	9734	10555	9659
75°	9146	9902	9836
80°	8531	9367	10543
85°	7323	7813	11233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 21854 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.2	4.5
10°-20°	1083.3	12.7
20°-30°	1578.9	18.5
30°-40°	1806.2	21.2
40°-50°	1545.2	18.1
50°-60°	1019.0	11.9
60°-70°	616.0	7.2
70°-80°	376.9	4.4
80°-90°	116.4	1.4
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°	3049.4	35.8
0°-40°	4855.6	56.9
0°-60°	7419.7	87.0
0°-90°	8529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4075	4075	4075	4075	4075	
5°	4108	4104	4076	4067	4073	385
15°	3689	3732	3780	4022	3990	1037
25°	3133	3181	3404	3695	3795	1433
35°	2475	2599	2797	3236	3461	1542
45°	1720	1852	2172	2030	1868	1316
55°	1000	1057	1124	1332	1176	910
65°	628	644	662	591	536	621
75°	333	341	360	377	358	351
85°	90	89	96	114	138	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4074.6	4074.6	4074.6	4074.6	4074.6
2.5°	4114.1	4102.1	4053.0	4099.7	4057.8
5°	4108.1	4104.5	4075.8	4067.4	4073.4
7.5°	4029.1	4037.5	4032.7	4122.4	4077.0
10°	3901.1	3917.8	3977.7	4103.3	4065.0
12.5°	3800.5	3813.7	3893.9	4080.6	3990.8
15°	3689.3	3732.3	3780.2	4021.9	3989.6
17.5°	3569.6	3610.3	3724.0	3942.9	3939.4
20°	3438.0	3513.4	3636.6	3840.0	3920.2
22.5°	3259.7	3361.4	3534.9	3793.4	3808.9
25°	3132.8	3180.7	3404.5	3695.2	3794.6
27.5°	2940.2	3031.1	3259.7	3554.0	3718.0
30°	2813.3	2888.7	3117.3	3471.5	3588.7
32.5°	2654.2	2743.9	2948.5	3381.7	3522.9
35°	2474.7	2599.1	2796.6	3235.7	3460.7
37.5°	2285.6	2408.8	2642.2	3114.9	3284.8
40°	2102.5	2207.8	2507.0	2970.1	3086.1
42.5°	1914.6	2028.3	2352.6	2684.1	2321.5
45°	1719.6	1852.4	2171.9	2029.5	1868.0
47.5°	1488.6	1651.4	1972.1	1631.0	1769.8
50°	1337.8	1426.4	1725.6	1537.7	1694.5
52.5°	1138.0	1257.7	1385.7	1436.0	1601.1
55°	1000.4	1056.6	1123.7	1331.9	1176.3
57.5°	873.6	923.8	1001.6	939.4	627.0
60°	793.4	816.1	884.3	671.3	593.5
62.5°	702.4	725.2	775.4	627.0	569.6
65°	628.2	643.8	661.7	591.1	536.1
67.5°	549.3	557.6	576.8	545.7	503.8
70°	467.9	479.9	507.4	499.0	464.3
72.5°	396.1	406.9	430.8	442.8	410.4
75°	332.7	341.0	360.2	376.9	357.8
77.5°	264.5	272.8	298.0	315.9	307.5
80°	208.2	209.4	228.6	246.5	257.3
82.5°	146.0	148.4	162.7	181.9	203.4
85°	89.7	88.6	95.7	113.7	137.6
87.5°	34.7	33.5	39.5	47.9	70.6
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	19.52	21.00	19.89	21.32	21.63	19.20	20.68	19.57	20.99	21.31
	3H	21.08	22.41	21.46	22.74	23.10	20.82	22.14	21.20	22.47	22.83
	4H	21.68	22.92	22.08	23.27	23.65	21.57	22.81	21.97	23.16	23.54
	6H	22.14	23.29	22.55	23.65	24.05	22.24	23.38	22.65	23.75	24.14
	8H	22.29	23.38	22.72	23.77	24.18	22.51	23.60	22.94	23.99	24.40
	12H	22.39	23.44	22.82	23.82	24.25	22.73	23.78	23.16	24.16	24.59
4H	2H	20.12	21.36	20.52	21.71	22.09	19.86	21.10	20.26	21.45	21.83
	3H	21.91	22.93	22.32	23.33	23.74	21.75	22.78	22.16	23.18	23.58
	4H	22.63	23.56	23.07	23.97	24.41	22.64	23.57	23.08	23.98	24.42
	6H	23.22	24.02	23.67	24.46	24.92	23.45	24.25	23.91	24.70	25.16
	8H	23.41	24.17	23.88	24.61	25.08	23.78	24.53	24.24	24.98	25.44
	12H	23.55	24.22	24.03	24.70	25.17	24.05	24.72	24.53	25.20	25.67
8H	4H	22.95	23.71	23.42	24.15	24.62	22.96	23.72	23.43	24.16	24.63
	6H	23.66	24.29	24.16	24.78	25.26	23.91	24.54	24.41	25.03	25.51
	8H	23.93	24.50	24.45	25.01	25.49	24.33	24.89	24.85	25.40	25.89
	12H	24.14	24.64	24.65	25.13	25.70	24.70	25.20	25.21	25.69	26.25
12H	4H	22.99	23.67	23.48	24.15	24.62	22.99	23.66	23.47	24.14	24.61
	6H	23.73	24.30	24.25	24.81	25.30	23.97	24.53	24.48	25.04	25.53
	8H	24.06	24.56	24.57	25.05	25.62	24.44	24.94	24.95	25.43	26.00