

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: P893764

Luminaire Tested: 4MB-6SL-LVRF-UNV-L850

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893764
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-6SL-LVRF-UNV-L850
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 5000K C
Light Source: -
Ballast/Driver: -

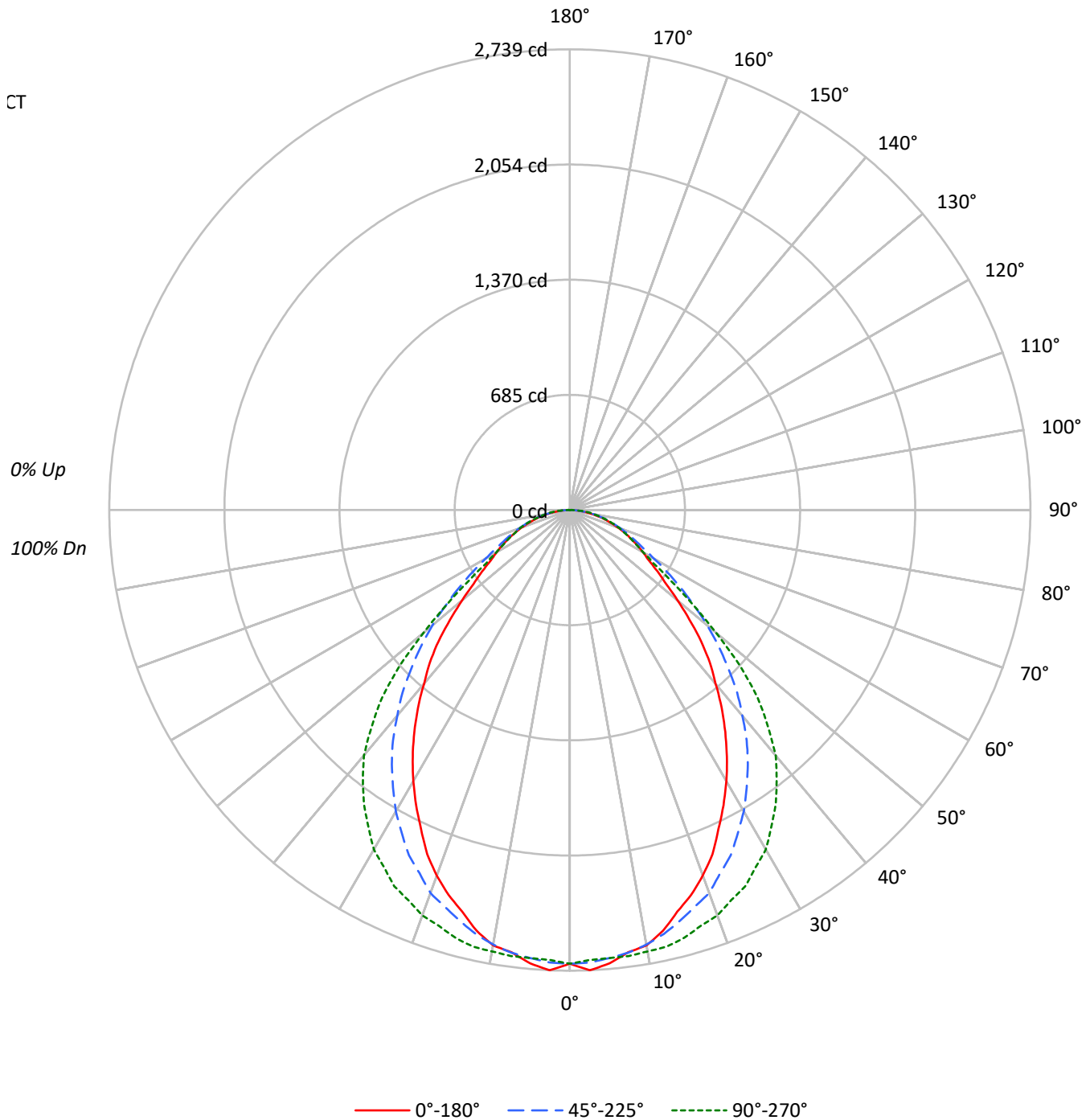
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5605.0 lumens
Efficiency: N/A
Efficacy: 126.2 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): 44.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4
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°	19188	19188	19188
5°	19322	19101	19101
10°	18988	18957	19251
15°	18202	18626	19390
20°	17510	18349	19421
25°	16426	17781	19377
30°	15289	16995	19149
35°	13996	16031	18540
40°	12530	14824	17689
45°	11120	13420	15903
50°	9251	11813	12543
55°	7881	9951	9116
60°	7145	8222	7205
65°	6729	7201	6706
70°	6330	6682	6534
75°	5899	6361	6246
80°	5400	5859	6035
85°	4694	5151	6751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15903 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	4.6
10°-20°	718.5	12.8
20°-30°	1043.4	18.6
30°-40°	1161.9	20.7
40°-50°	1026.5	18.3
50°-60°	673.5	12.0
60°-70°	412.4	7.4
70°-80°	240.0	4.3
80°-90°	73.5	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°	2017.2	36.0
0°-40°	3179.0	56.7
0°-60°	4879.0	87.0
0°-90°	5605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2697	2697	2697	2697	2697	
5°	2705	2707	2674	2701	2674	255
15°	2471	2499	2529	2628	2632	697
25°	2092	2143	2265	2409	2468	963
35°	1611	1698	1846	2040	2134	1005
45°	1105	1172	1334	1513	1580	845
55°	635	680	802	795	735	576
65°	400	407	428	415	398	397
75°	215	217	231	236	227	228
85°	58	60	63	72	83	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2696.9	2696.9	2696.9	2696.9	2696.9
2.5°	2738.9	2705.3	2692.7	2705.3	2677.2
5°	2705.3	2706.7	2674.4	2701.1	2674.4
7.5°	2652.0	2670.2	2654.8	2695.5	2674.4
10°	2628.2	2629.6	2623.9	2666.0	2664.6
12.5°	2562.2	2566.4	2581.9	2645.0	2659.0
15°	2471.1	2499.1	2528.6	2628.2	2632.4
17.5°	2399.6	2433.2	2472.5	2579.1	2591.7
20°	2312.6	2326.6	2423.4	2517.4	2565.0
22.5°	2215.8	2242.5	2336.4	2462.7	2510.3
25°	2092.4	2142.9	2264.9	2409.4	2468.3
27.5°	1978.8	2037.7	2163.9	2325.2	2393.9
30°	1861.0	1928.3	2068.6	2227.1	2330.8
32.5°	1739.0	1823.2	1956.4	2138.7	2229.9
35°	1611.4	1698.3	1845.6	2040.5	2134.5
37.5°	1483.8	1567.9	1727.8	1936.8	2020.9
40°	1349.1	1431.9	1596.0	1807.7	1904.5
42.5°	1232.7	1304.3	1472.5	1653.5	1743.2
45°	1105.1	1172.4	1333.7	1513.2	1580.5
47.5°	964.9	1043.4	1200.5	1347.7	1374.4
50°	835.8	917.2	1067.2	1152.8	1133.2
52.5°	722.3	791.0	928.4	964.9	918.6
55°	635.3	680.2	802.2	795.2	734.9
57.5°	555.4	583.4	687.2	647.9	590.4
60°	502.1	514.7	577.8	541.3	506.3
62.5°	451.6	457.2	490.8	471.2	444.6
65°	399.7	406.7	427.7	415.1	398.3
67.5°	352.0	354.8	374.4	371.6	350.6
70°	304.3	308.5	321.2	326.8	314.1
72.5°	258.0	262.3	274.9	280.5	269.3
75°	214.6	217.4	231.4	235.6	227.2
77.5°	172.5	178.1	186.5	193.5	183.7
80°	131.8	134.6	143.0	151.5	147.3
82.5°	92.6	96.8	102.4	113.6	116.4
85°	57.5	60.3	63.1	71.5	82.7
87.5°	22.4	23.8	28.0	30.9	40.7
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	17.79	19.27	18.16	19.59	19.90	18.45	19.93	18.81	20.24	20.55
	3H	19.39	20.72	19.77	21.05	21.41	19.88	21.21	20.26	21.54	21.90
	4H	20.01	21.25	20.41	21.60	21.98	20.49	21.73	20.89	22.08	22.46
	6H	20.48	21.63	20.90	22.00	22.39	20.97	22.12	21.39	22.49	22.88
	8H	20.63	21.73	21.06	22.12	22.52	21.17	22.26	21.60	22.65	23.05
	12H	20.73	21.78	21.17	22.16	22.59	21.34	22.38	21.77	22.76	23.19
4H	2H	18.42	19.66	18.82	20.01	20.39	18.94	20.18	19.34	20.53	20.91
	3H	20.24	21.26	20.65	21.67	22.07	20.64	21.67	21.05	22.07	22.47
	4H	20.97	21.90	21.41	22.32	22.76	21.39	22.32	21.82	22.73	23.17
	6H	21.57	22.38	22.03	22.82	23.28	22.03	22.83	22.48	23.27	23.73
	8H	21.77	22.52	22.23	22.97	23.43	22.28	23.03	22.74	23.48	23.95
	12H	21.91	22.58	22.39	23.06	23.53	22.50	23.18	22.99	23.66	24.13
8H	4H	21.29	22.05	21.76	22.49	22.96	21.66	22.41	22.12	22.86	23.33
	6H	22.02	22.64	22.51	23.13	23.61	22.43	23.06	22.93	23.55	24.03
	8H	22.29	22.85	22.80	23.36	23.85	22.78	23.34	23.29	23.85	24.34
	12H	22.51	23.00	23.02	23.50	24.06	23.10	23.59	23.61	24.09	24.65
12H	4H	21.33	22.00	21.81	22.48	22.95	21.68	22.35	22.16	22.83	23.30
	6H	22.08	22.64	22.60	23.15	23.64	22.48	23.04	23.00	23.55	24.04
	8H	22.41	22.91	22.92	23.40	23.97	22.89	23.38	23.40	23.88	24.44