

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: P893772

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-6SL-RFLW-UNV-L850
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 5000K
Light Source: -
Ballast/Driver: -

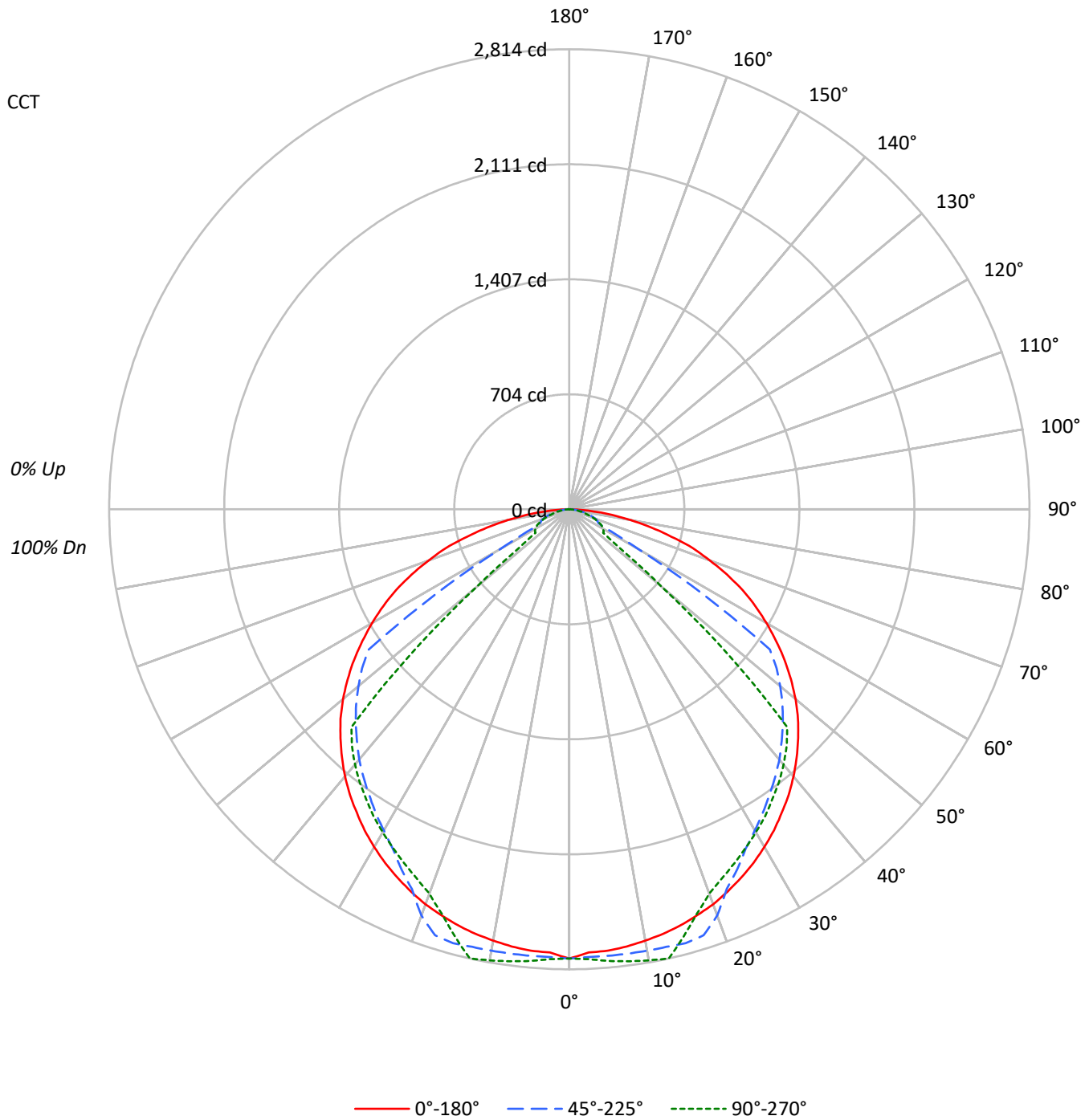
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6702.0 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' 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

TEST NUMBER: P893772
CATALOG NUMBER: 4MB-6SL-RFLW-UNV-L850

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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35682	35682	35682
5°	35325	35736	36146
10°	35317	36149	36938
15°	35415	36940	36348
20°	35533	36535	34575
25°	35622	34810	34223
30°	35768	34020	34209
35°	35916	33818	34318
40°	36163	33866	34559
45°	36342	33910	34605
50°	36477	33995	14959
55°	36383	33886	5707
60°	36171	12931	6220
65°	35921	6004	6391
70°	34697	6462	5983
75°	32410	6166	5218
80°	28513	5421	4479
85°	22542	4693	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 36477 cd/sqm



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 CATALOG NUMBER: 4MB-6SL-RFLW-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	3.9
10°-20°	762.0	11.4
20°-30°	1136.9	17.0
30°-40°	1378.1	20.6
40°-50°	1411.1	21.1
50°-60°	938.4	14.0
60°-70°	534.8	8.0
70°-80°	224.7	3.4
80°-90°	53.6	0.8
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°	2161.3	32.2
0°-40°	3539.4	52.8
0°-60°	5888.9	87.9
0°-90°	6702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2748	2748	2748	2748	2748	
5°	2710	2764	2742	2748	2773	258
15°	2634	2707	2748	2738	2704	744
25°	2486	2606	2430	2376	2389	1147
35°	2266	2307	2133	2143	2165	1419
45°	1979	1859	1847	1869	1884	1527
55°	1607	1472	1497	328	252	1435
65°	1169	1046	195	208	208	1150
75°	646	136	123	107	104	686
85°	151	38	32	25	25	181
90°	0	0	0	0	0	



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CATALOG NUMBER: 4MB-6SL-RFLW-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2747.9	2747.9	2747.9	2747.9	2747.9
2.5°	2713.2	2769.9	2741.6	2744.7	2754.2
5°	2710.1	2763.6	2741.6	2747.9	2773.1
7.5°	2697.5	2754.2	2741.6	2760.5	2788.8
10°	2678.5	2744.7	2741.6	2773.1	2801.4
12.5°	2659.6	2725.8	2741.6	2788.8	2814.0
15°	2634.4	2706.9	2747.9	2738.4	2703.8
17.5°	2602.9	2688.0	2732.1	2596.6	2593.5
20°	2571.4	2662.8	2643.9	2514.7	2502.1
22.5°	2530.4	2637.6	2514.7	2426.4	2442.2
25°	2486.3	2606.1	2429.6	2376.0	2388.6
27.5°	2439.1	2574.6	2338.2	2319.3	2335.1
30°	2385.5	2530.4	2268.9	2262.6	2281.5
32.5°	2328.8	2445.4	2202.7	2205.9	2227.9
35°	2265.7	2306.7	2133.4	2142.8	2164.9
37.5°	2202.7	2177.5	2067.2	2083.0	2105.0
40°	2133.4	2076.7	1997.9	2013.6	2038.8
42.5°	2057.8	1969.5	1922.2	1944.3	1966.4
45°	1979.0	1859.2	1846.6	1868.7	1884.4
47.5°	1897.0	1764.7	1767.8	1783.6	1336.1
50°	1805.7	1670.2	1682.8	1166.0	740.5
52.5°	1708.0	1572.5	1597.7	649.2	375.0
55°	1607.1	1471.6	1496.8	327.7	252.1
57.5°	1500.0	1370.8	976.9	236.3	248.9
60°	1392.8	1263.6	497.9	233.2	239.5
62.5°	1282.5	1156.5	236.3	223.7	226.9
65°	1169.1	1046.2	195.4	208.0	208.0
67.5°	1043.1	929.6	185.9	185.9	182.8
70°	913.9	772.1	170.2	160.7	157.6
72.5°	794.1	296.2	148.1	132.4	129.2
75°	646.0	135.5	122.9	107.1	104.0
77.5°	513.7	113.4	97.7	85.1	81.9
80°	381.3	88.2	72.5	63.0	59.9
82.5°	264.7	59.9	50.4	41.0	41.0
85°	151.3	37.8	31.5	25.2	25.2
87.5°	59.9	18.9	15.8	9.5	9.5
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	25.35	26.87	25.71	27.18	27.49	13.11	14.63	13.47	14.94	15.26
	3H	27.37	28.72	27.74	29.05	29.41	15.43	16.78	15.80	17.11	17.47
	4H	27.83	29.10	28.23	29.45	29.83	16.14	17.41	16.54	17.76	18.14
	6H	28.23	29.41	28.65	29.77	30.17	16.62	17.79	17.03	18.16	18.55
	8H	28.38	29.50	28.81	29.89	30.29	16.76	17.88	17.19	18.27	18.67
	12H	28.48	29.55	28.91	29.93	30.36	16.85	17.91	17.28	18.30	18.73
4H	2H	25.19	26.46	25.59	26.81	27.19	13.91	15.18	14.31	15.53	15.91
	3H	27.39	28.44	27.80	28.84	29.24	16.42	17.47	16.83	17.87	18.27
	4H	27.84	28.78	28.27	29.19	29.63	17.24	18.18	17.67	18.59	19.03
	6H	28.30	29.12	28.76	29.56	30.02	17.83	18.65	18.29	19.09	19.55
	8H	28.49	29.26	28.96	29.70	30.17	18.00	18.76	18.47	19.21	19.68
	12H	28.65	29.33	29.13	29.80	30.28	18.12	18.80	18.60	19.28	19.75
8H	4H	27.76	28.52	28.22	28.96	29.43	18.08	18.84	18.54	19.28	19.75
	6H	28.22	28.84	28.71	29.34	29.81	18.70	19.33	19.20	19.82	20.30
	8H	28.42	28.98	28.93	29.49	29.98	18.90	19.47	19.42	19.98	20.47
	12H	28.60	29.10	29.11	29.59	30.16	19.06	19.56	19.57	20.05	20.62
12H	4H	27.73	28.40	28.21	28.88	29.35	18.15	18.83	18.63	19.31	19.78
	6H	28.17	28.74	28.68	29.25	29.73	18.79	19.36	19.31	19.87	20.36
	8H	28.39	28.89	28.90	29.39	29.95	19.05	19.55	19.56	20.04	20.61