

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: P893770

Luminaire Tested: 4MB-6SL-RFLW-UNV-L835

Issue Date: 11/11/2024

**Test Information**

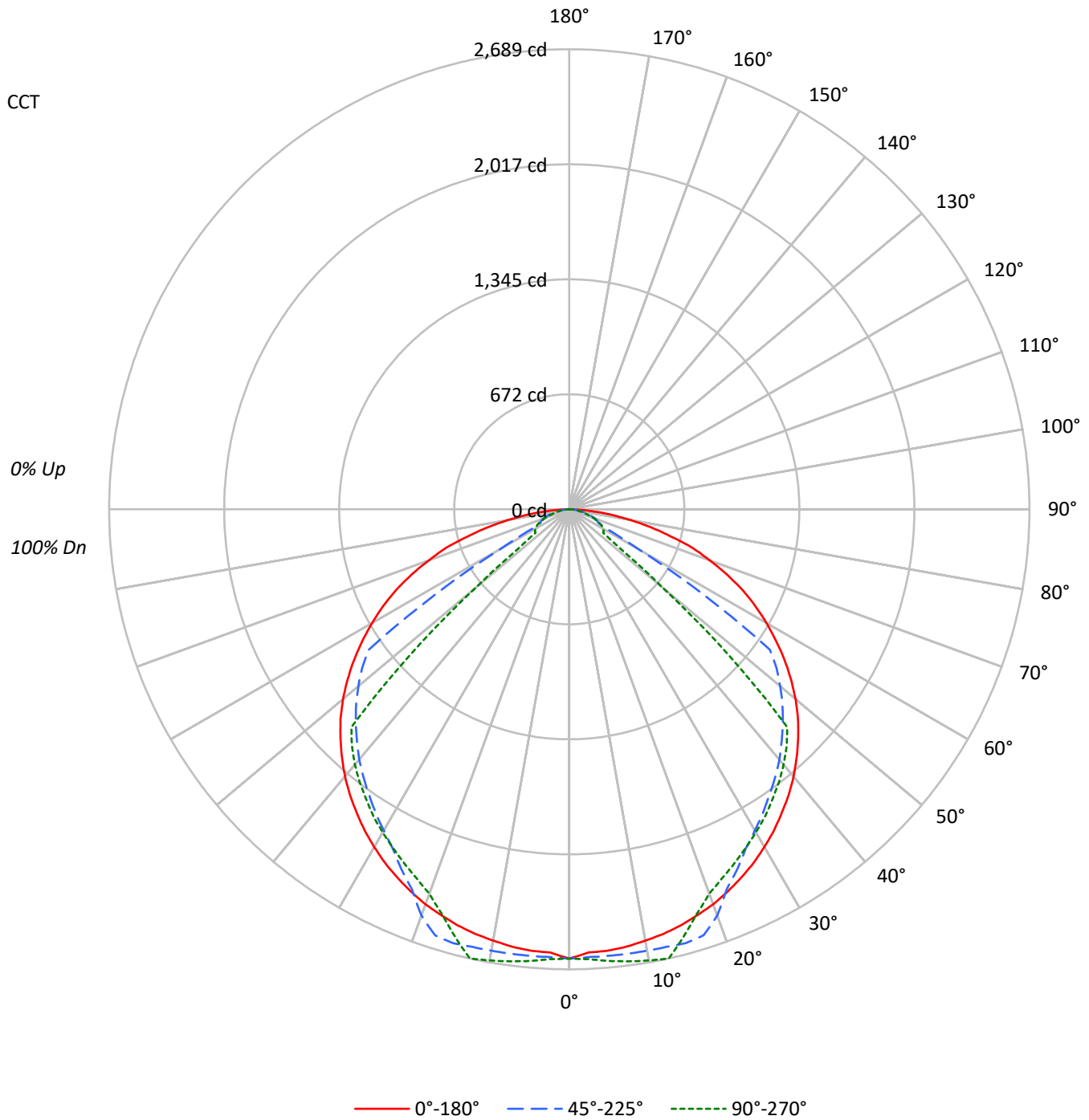
Test Method: LM-79-2019  
Report Number: P893770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-6SL-RFLW-UNV-L835  
Description: 6000 Lumen 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6405.0 lumens  
Efficiency: N/A  
Efficacy: 144.3 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<sub>in</sub>): 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	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°	34100	34100	34100
5°	33760	34152	34545
10°	33752	34547	35301
15°	33846	35303	34736
20°	33959	34915	33043
25°	34043	33267	32707
30°	34183	32511	32693
35°	34324	32319	32797
40°	34559	32364	33029
45°	34731	32408	33071
50°	34859	32488	14296
55°	34771	32385	5454
60°	34569	12357	5945
65°	34329	5736	6108
70°	33159	6173	5718
75°	30975	5895	4987
80°	27249	5182	4277
85°	21544	4485	3591

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 34859 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.8	3.9
10°-20°	728.2	11.4
20°-30°	1086.5	17.0
30°-40°	1317.0	20.6
40°-50°	1348.5	21.1
50°-60°	896.8	14.0
60°-70°	511.1	8.0
70°-80°	214.7	3.4
80°-90°	51.2	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°	2065.6	32.2
0°-40°	3382.6	52.8
0°-60°	5627.9	87.9
0°-90°	6405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6405.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2626	2626	2626	2626	2626	
5°	2590	2641	2620	2626	2650	246
15°	2518	2587	2626	2617	2584	711
25°	2376	2491	2322	2271	2283	1096
35°	2165	2204	2039	2048	2069	1356
45°	1891	1777	1765	1786	1801	1459
55°	1536	1406	1430	313	241	1372
65°	1117	1000	187	199	199	1099
75°	617	130	118	102	99	656
85°	145	36	30	24	24	173
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2626.1	2626.1	2626.1	2626.1	2626.1
2.5°	2593.0	2647.2	2620.1	2623.1	2632.1
5°	2590.0	2641.2	2620.1	2626.1	2650.2
7.5°	2577.9	2632.1	2620.1	2638.1	2665.2
10°	2559.8	2623.1	2620.1	2650.2	2677.3
12.5°	2541.8	2605.0	2620.1	2665.2	2689.3
15°	2517.7	2586.9	2626.1	2617.1	2583.9
17.5°	2487.6	2568.9	2611.0	2481.5	2478.5
20°	2457.5	2544.8	2526.7	2403.2	2391.2
22.5°	2418.3	2520.7	2403.2	2318.9	2334.0
25°	2376.1	2490.6	2321.9	2270.7	2282.8
27.5°	2331.0	2460.5	2234.6	2216.5	2231.6
30°	2279.8	2418.3	2168.3	2162.3	2180.4
32.5°	2225.6	2337.0	2105.1	2108.1	2129.2
35°	2165.3	2204.5	2038.8	2047.9	2069.0
37.5°	2105.1	2081.0	1975.6	1990.7	2011.7
40°	2038.8	1984.6	1909.3	1924.4	1948.5
42.5°	1966.6	1882.2	1837.1	1858.1	1879.2
45°	1891.3	1776.8	1764.8	1785.9	1800.9
47.5°	1813.0	1686.5	1689.5	1704.6	1276.9
50°	1725.6	1596.1	1608.2	1114.3	707.7
52.5°	1632.3	1502.8	1526.9	620.4	358.4
55°	1535.9	1406.4	1430.5	313.2	240.9
57.5°	1433.5	1310.0	933.6	225.9	237.9
60°	1331.1	1207.6	475.8	222.9	228.9
62.5°	1225.7	1105.3	225.9	213.8	216.8
65°	1117.3	999.8	186.7	198.8	198.8
67.5°	996.8	888.4	177.7	177.7	174.7
70°	873.4	737.8	162.6	153.6	150.6
72.5°	758.9	283.1	141.5	126.5	123.5
75°	617.4	129.5	117.5	102.4	99.4
77.5°	490.9	108.4	93.4	81.3	78.3
80°	364.4	84.3	69.3	60.2	57.2
82.5°	253.0	57.2	48.2	39.2	39.2
85°	144.6	36.1	30.1	24.1	24.1
87.5°	57.2	18.1	15.1	9.0	9.0
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	25.19	26.71	25.55	27.02	27.34	12.95	14.48	13.32	14.79	15.10
	3H	27.21	28.57	27.59	28.89	29.26	15.27	16.63	15.65	16.96	17.32
	4H	27.67	28.94	28.07	29.29	29.67	15.98	17.25	16.38	17.60	17.98
	6H	28.08	29.25	28.49	29.62	30.01	16.47	17.64	16.88	18.00	18.40
	8H	28.23	29.34	28.65	29.73	30.13	16.60	17.72	17.03	18.11	18.51
	12H	28.32	29.39	28.76	29.77	30.20	16.69	17.76	17.12	18.14	18.57
4H	2H	25.03	26.30	25.43	26.65	27.03	13.75	15.02	14.15	15.37	15.75
	3H	27.23	28.28	27.64	28.68	29.08	16.26	17.31	16.67	17.71	18.11
	4H	27.68	28.62	28.11	29.03	29.47	17.08	18.02	17.52	18.44	18.88
	6H	28.15	28.96	28.60	29.40	29.86	17.67	18.49	18.13	18.93	19.39
	8H	28.34	29.10	28.80	29.54	30.01	17.84	18.61	18.31	19.05	19.52
	12H	28.49	29.17	28.97	29.65	30.12	17.96	18.64	18.45	19.12	19.59
8H	4H	27.60	28.36	28.06	28.80	29.27	17.92	18.68	18.39	19.13	19.60
	6H	28.06	28.69	28.56	29.18	29.66	18.54	19.17	19.04	19.66	20.14
	8H	28.26	28.82	28.77	29.33	29.82	18.75	19.31	19.26	19.82	20.31
	12H	28.44	28.94	28.95	29.44	30.00	18.90	19.40	19.41	19.90	20.46
12H	4H	27.57	28.25	28.05	28.73	29.20	17.99	18.67	18.48	19.15	19.62
	6H	28.01	28.58	28.53	29.09	29.58	18.64	19.20	19.15	19.71	20.20
	8H	28.23	28.74	28.74	29.23	29.79	18.89	19.39	19.40	19.88	20.45