

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: P894279

Luminaire Tested: 4MB-SC3-RFLW-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

**Test Information**

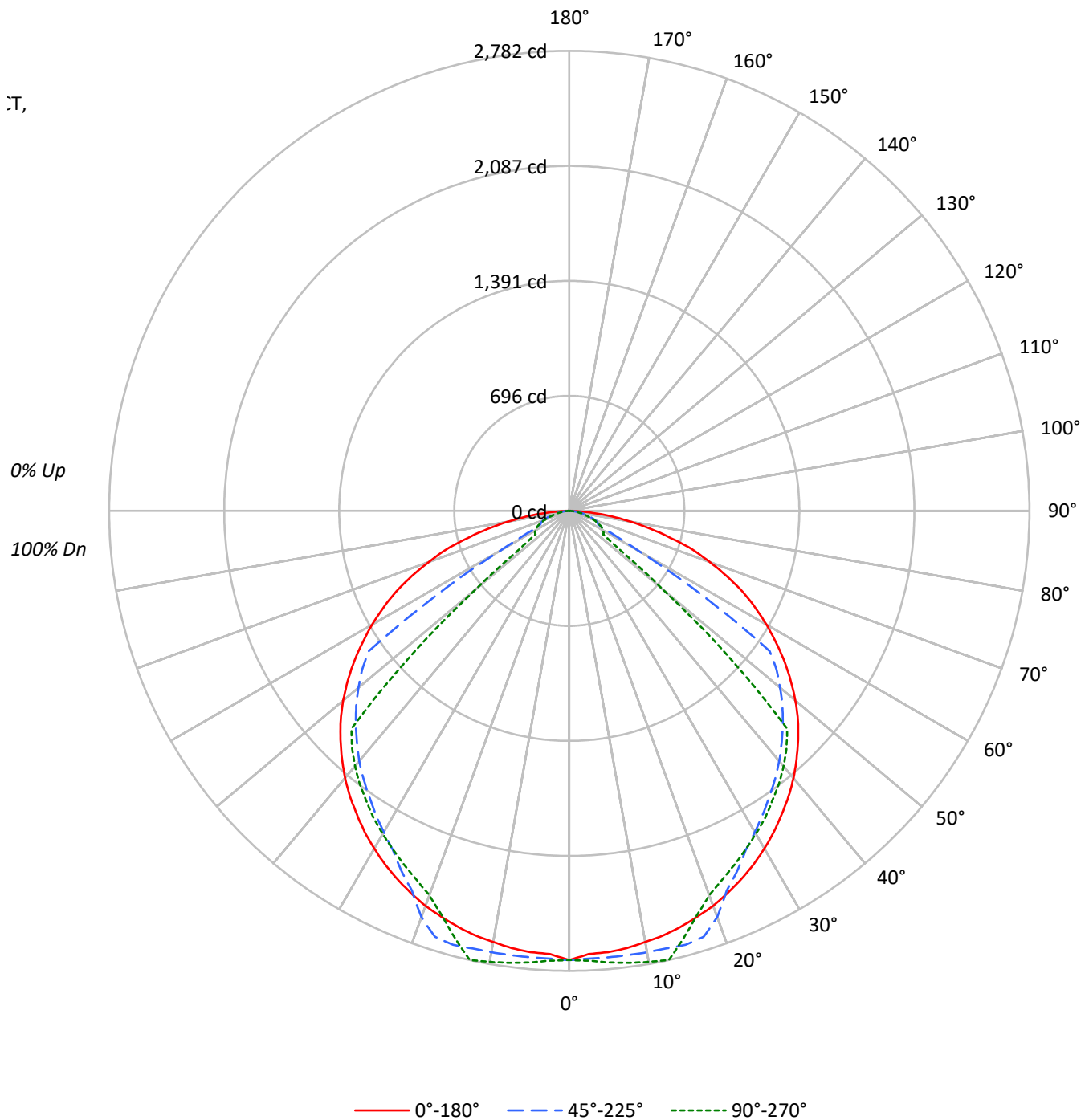
Test Method: LM-79-2019  
Report Number: P894279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4MB-SC3-RFLW-UNV-CC83-HI-3500K  
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K CC  
HI lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6625.0 lumens  
Efficiency: N/A  
Efficacy: 130.7 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): 50.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.39961257980444  
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°	35271	35271	35271
5°	34919	35325	35731
10°	34912	35734	36514
15°	35009	36516	35929
20°	35125	36114	34177
25°	35214	34410	33830
30°	35357	33628	33816
35°	35503	33430	33923
40°	35748	33476	34163
45°	35923	33521	34208
50°	36057	33603	14787
55°	35966	33496	5642
60°	35756	12783	6147
65°	35509	5933	6317
70°	34298	6386	5915
75°	32039	6096	5158
80°	28184	5354	4427
85°	22274	4648	3710

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 36057 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.4	3.9
10°-20°	753.2	11.4
20°-30°	1123.9	17.0
30°-40°	1362.2	20.6
40°-50°	1394.9	21.1
50°-60°	927.6	14.0
60°-70°	528.7	8.0
70°-80°	222.1	3.4
80°-90°	53.0	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°	2136.5	32.2
0°-40°	3498.8	52.8
0°-60°	5821.2	87.9
0°-90°	6625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6625.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2716	2716	2716	2716	2716	
5°	2679	2732	2710	2716	2741	255
15°	2604	2676	2716	2707	2673	736
25°	2458	2576	2402	2349	2361	1134
35°	2240	2280	2109	2118	2140	1403
45°	1956	1838	1825	1847	1863	1509
55°	1589	1455	1480	324	249	1419
65°	1156	1034	193	206	206	1137
75°	639	134	122	106	103	678
85°	150	37	31	25	25	179
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2716.3	2716.3	2716.3	2716.3	2716.3
2.5°	2682.0	2738.1	2710.1	2713.2	2722.5
5°	2678.9	2731.9	2710.1	2716.3	2741.2
7.5°	2666.5	2722.5	2710.1	2728.8	2756.8
10°	2647.8	2713.2	2710.1	2741.2	2769.3
12.5°	2629.1	2694.5	2710.1	2756.8	2781.7
15°	2604.2	2675.8	2716.3	2707.0	2672.7
17.5°	2573.0	2657.1	2700.7	2566.8	2563.7
20°	2541.9	2632.2	2613.5	2485.8	2473.3
22.5°	2501.4	2607.3	2485.8	2398.6	2414.1
25°	2457.8	2576.1	2401.7	2348.7	2361.2
27.5°	2411.0	2545.0	2311.3	2292.7	2308.2
30°	2358.1	2501.4	2242.8	2236.6	2255.3
32.5°	2302.0	2417.3	2177.4	2180.5	2202.3
35°	2239.7	2280.2	2108.9	2118.2	2140.0
37.5°	2177.4	2152.5	2043.5	2059.0	2080.8
40°	2108.9	2052.8	1974.9	1990.5	2015.4
42.5°	2034.1	1946.9	1900.2	1922.0	1943.8
45°	1956.2	1837.9	1825.4	1847.2	1862.8
47.5°	1875.2	1744.4	1747.5	1763.1	1320.8
50°	1784.9	1651.0	1663.4	1152.6	732.0
52.5°	1688.3	1554.4	1579.3	641.7	370.7
55°	1588.7	1454.7	1479.6	324.0	249.2
57.5°	1482.8	1355.0	965.7	233.6	246.1
60°	1376.8	1249.1	492.2	230.5	236.7
62.5°	1267.8	1143.2	233.6	221.2	224.3
65°	1155.7	1034.2	193.1	205.6	205.6
67.5°	1031.1	918.9	183.8	183.8	180.7
70°	903.4	763.2	168.2	158.9	155.8
72.5°	785.0	292.8	146.4	130.8	127.7
75°	638.6	133.9	121.5	105.9	102.8
77.5°	507.7	112.1	96.6	84.1	81.0
80°	376.9	87.2	71.6	62.3	59.2
82.5°	261.7	59.2	49.8	40.5	40.5
85°	149.5	37.4	31.2	24.9	24.9
87.5°	59.2	18.7	15.6	9.3	9.3
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	25.30	26.83	25.67	27.14	27.45	13.07	14.59	13.43	14.90	15.22
	3H	27.33	28.68	27.70	29.01	29.37	15.39	16.74	15.76	17.07	17.43
	4H	27.79	29.06	28.19	29.41	29.79	16.10	17.37	16.50	17.72	18.10
	6H	28.19	29.37	28.61	29.73	30.13	16.58	17.76	16.99	18.12	18.51
	8H	28.34	29.46	28.77	29.85	30.25	16.72	17.84	17.15	18.23	18.63
	12H	28.44	29.51	28.87	29.89	30.32	16.81	17.87	17.24	18.26	18.69
4H	2H	25.15	26.42	25.55	26.77	27.15	13.87	15.14	14.27	15.49	15.87
	3H	27.35	28.40	27.76	28.80	29.20	16.38	17.43	16.79	17.83	18.23
	4H	27.80	28.74	28.23	29.15	29.59	17.20	18.14	17.63	18.56	18.99
	6H	28.26	29.08	28.72	29.52	29.98	17.79	18.61	18.25	19.05	19.51
	8H	28.45	29.22	28.92	29.66	30.13	17.96	18.72	18.43	19.17	19.64
	12H	28.61	29.29	29.09	29.76	30.24	18.08	18.76	18.56	19.24	19.71
8H	4H	27.72	28.48	28.18	28.92	29.39	18.04	18.80	18.50	19.24	19.71
	6H	28.18	28.80	28.67	29.30	29.77	18.66	19.29	19.16	19.78	20.26
	8H	28.37	28.94	28.89	29.45	29.94	18.86	19.43	19.38	19.94	20.43
	12H	28.56	29.06	29.07	29.55	30.12	19.02	19.52	19.53	20.01	20.58
12H	4H	27.69	28.36	28.17	28.84	29.31	18.11	18.79	18.59	19.27	19.74
	6H	28.13	28.69	28.64	29.20	29.69	18.75	19.32	19.27	19.83	20.32
	8H	28.35	28.85	28.86	29.34	29.91	19.01	19.51	19.52	20.00	20.57