

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: P893089

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

**Test Information**

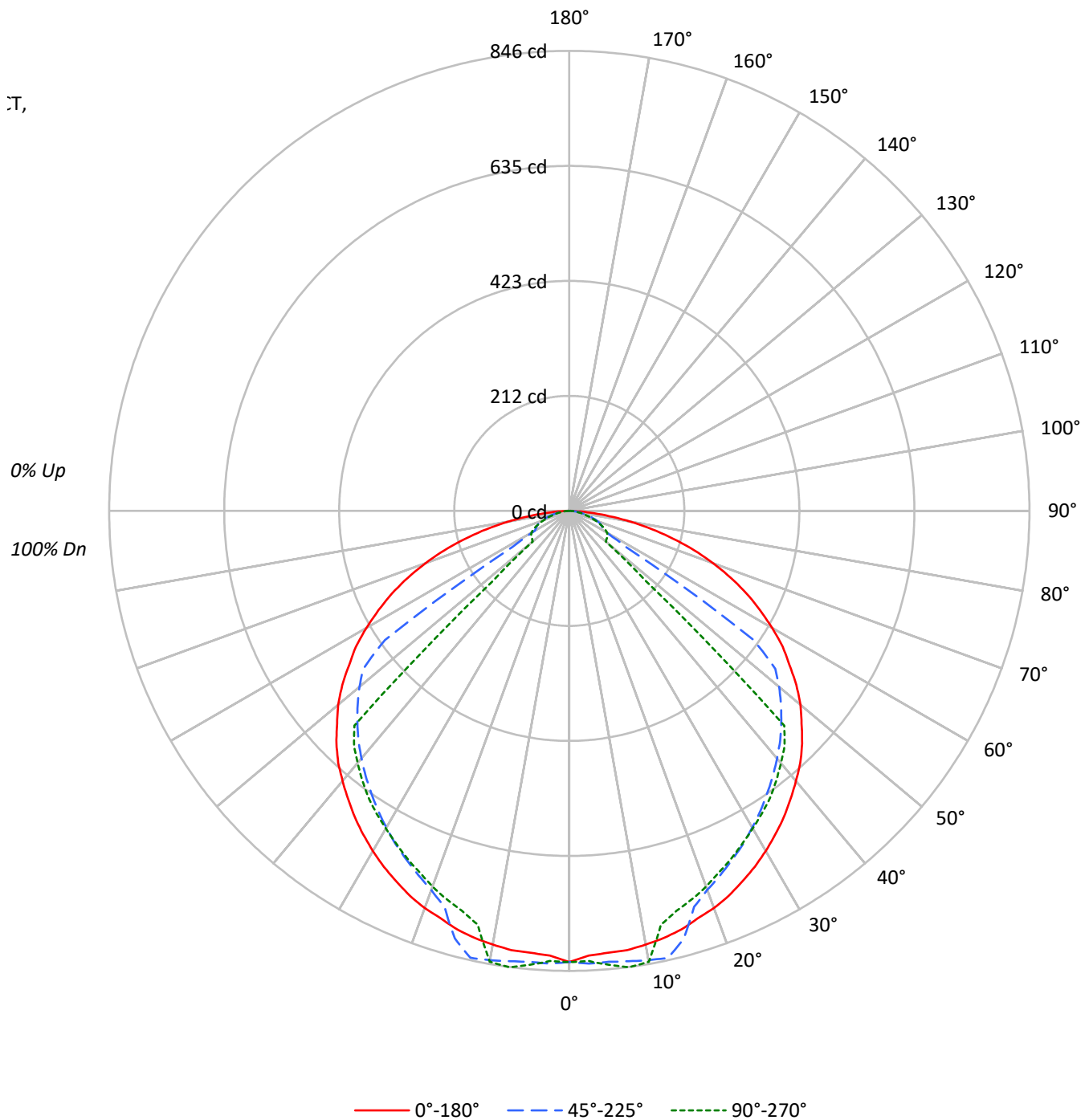
Test Method: LM-79-2019  
Report Number: P893089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-SC3-RFLW-UNV-CC83-MID-3500K  
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K CC  
MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1948.0 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37  
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 13.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9948  
Total Harmonic Distortion (THDi): 5.65231997856897  
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	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21659	21659	21659
5°	21375	21815	21962
10°	21474	22240	22314
15°	21539	21993	20580
20°	21596	20610	20426
25°	21666	20398	20318
30°	21772	20277	20334
35°	21915	20216	20516
40°	22098	20251	20633
45°	22353	20352	20628
50°	22538	20451	3566
55°	22495	18840	3869
60°	22489	3807	4193
65°	22221	4040	4158
70°	21465	4206	3847
75°	19983	3954	3389
80°	17140	3518	2947
85°	11473	3355	2516

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 57.5°  
 Luminance: 22605 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	4.1
10°-20°	224.1	11.5
20°-30°	335.4	17.2
30°-40°	404.4	20.8
40°-50°	407.2	20.9
50°-60°	254.0	13.0
60°-70°	159.7	8.2
70°-80°	66.4	3.4
80°-90°	17.0	0.9
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°	639.1	32.8
0°-40°	1043.5	53.6
0°-60°	1704.8	87.5
0°-90°	1948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	816	832	832	833	838	78
15°	797	821	814	761	761	225
25°	752	781	708	702	705	347
35°	688	644	634	638	644	430
45°	605	548	551	559	559	467
55°	494	435	414	81	85	443
65°	360	311	65	68	67	354
75°	198	48	39	35	34	209
85°	38	14	11	8	8	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	829.6	829.6	829.6	829.6	829.6
2.5°	818.4	833.3	833.3	829.6	828.7
5°	815.6	832.4	832.4	833.3	838.0
7.5°	814.6	830.5	835.2	840.8	846.4
10°	810.0	828.7	838.9	846.4	841.7
12.5°	804.4	824.9	841.7	794.1	779.1
15°	796.9	821.2	813.7	761.4	761.4
17.5°	785.7	815.6	763.3	748.3	749.2
20°	777.3	810.9	741.8	733.4	735.2
22.5°	766.1	801.6	725.0	717.5	719.4
25°	752.1	781.0	708.1	702.5	705.3
27.5°	738.0	739.0	691.3	687.6	689.5
30°	722.2	698.8	672.6	671.7	674.5
32.5°	705.3	668.9	654.0	655.8	659.6
35°	687.6	643.7	634.3	638.1	643.7
37.5°	668.0	620.3	614.7	621.3	625.0
40°	648.4	596.0	594.2	600.7	605.4
42.5°	628.7	572.7	573.6	580.2	585.8
45°	605.4	547.5	551.2	558.7	558.7
47.5°	579.2	520.4	527.8	512.0	189.6
50°	554.9	493.3	503.5	151.3	87.8
52.5°	526.0	464.3	477.4	83.1	85.9
55°	494.2	435.3	413.9	81.3	85.0
57.5°	465.2	405.5	123.3	80.3	83.1
60°	430.7	375.6	72.9	78.5	80.3
62.5°	395.2	343.8	69.1	74.7	74.7
65°	359.7	311.1	65.4	68.2	67.3
67.5°	321.4	277.5	61.7	59.8	58.9
70°	281.2	171.0	55.1	51.4	50.4
72.5°	241.0	58.9	47.6	43.0	42.0
75°	198.1	47.6	39.2	34.6	33.6
77.5°	156.0	39.2	30.8	27.1	26.2
80°	114.0	29.9	23.4	20.6	19.6
82.5°	73.8	21.5	17.8	14.0	13.1
85°	38.3	14.0	11.2	8.4	8.4
87.5°	14.9	8.4	5.6	3.7	2.8
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	23.68	25.19	24.04	25.50	25.82	12.31	13.83	12.68	14.14	14.45
	3H	25.60	26.95	25.98	27.28	27.64	14.45	15.80	14.82	16.13	16.49
	4H	26.08	27.35	26.48	27.70	28.08	15.13	16.40	15.53	16.75	17.13
	6H	26.52	27.69	26.93	28.05	28.44	15.59	16.76	16.01	17.13	17.52
	8H	26.66	27.77	27.08	28.16	28.56	15.73	16.84	16.16	17.23	17.63
	12H	26.73	27.80	27.16	28.18	28.61	15.82	16.88	16.25	17.26	17.69
4H	2H	23.52	24.79	23.92	25.14	25.52	13.06	14.33	13.46	14.68	15.06
	3H	25.55	26.60	25.96	27.00	27.40	15.41	16.45	15.82	16.85	17.25
	4H	26.04	26.98	26.47	27.39	27.83	16.20	17.14	16.64	17.56	17.99
	6H	26.55	27.36	27.01	27.81	28.27	16.78	17.59	17.23	18.03	18.49
	8H	26.74	27.50	27.20	27.94	28.41	16.95	17.71	17.41	18.15	18.62
	12H	26.86	27.54	27.35	28.02	28.49	17.07	17.74	17.55	18.22	18.70
8H	4H	25.96	26.72	26.43	27.17	27.64	16.79	17.55	17.25	17.99	18.46
	6H	26.48	27.10	26.97	27.59	28.07	17.45	18.07	17.94	18.56	19.04
	8H	26.67	27.24	27.19	27.75	28.24	17.67	18.23	18.18	18.74	19.23
	12H	26.83	27.33	27.34	27.83	28.39	17.84	18.34	18.35	18.83	19.40
12H	4H	25.93	26.61	26.42	27.09	27.56	16.87	17.55	17.35	18.03	18.50
	6H	26.43	26.99	26.95	27.50	27.99	17.56	18.12	18.07	18.63	19.12
	8H	26.65	27.15	27.16	27.65	28.21	17.84	18.34	18.35	18.83	19.40