

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: P895490

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC93-MID-3500K

Issue Date: 11/11/2024

**Test Information**

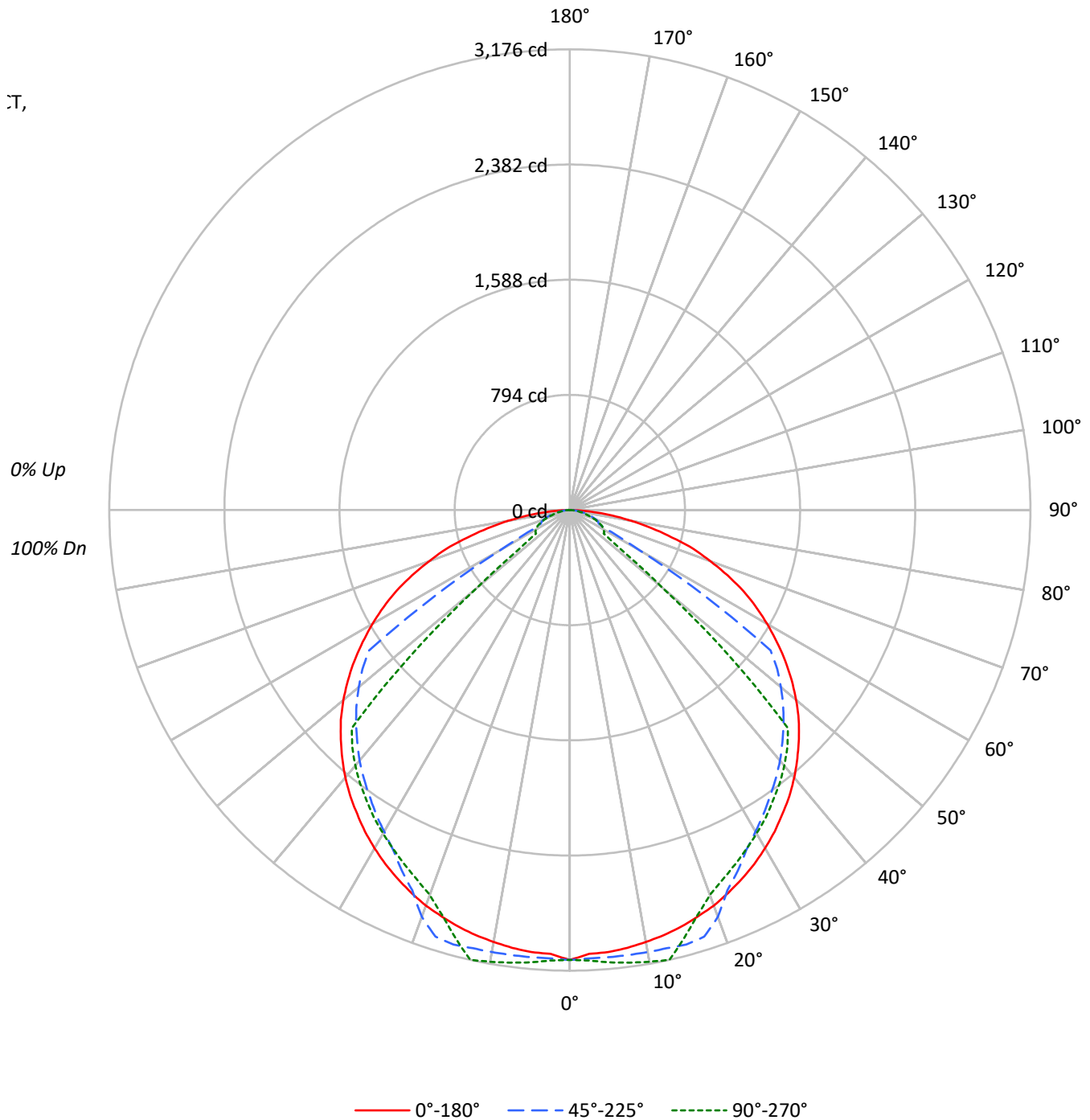
Test Method: LM-79-2019  
Report Number: P895490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-RFLW-UNV-CC93-MID-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K CC  
MID lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7564.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38  
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 66.9  
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	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°	20082	20082	20082
5°	19881	20113	20344
10°	19878	20345	20790
15°	19933	20791	20457
20°	19998	20562	19460
25°	20049	19592	19262
30°	20131	19147	19253
35°	20214	19034	19314
40°	20353	19060	19451
45°	20454	19085	19477
50°	20530	19133	8420
55°	20477	19073	3212
60°	20359	7277	3501
65°	20218	3379	3596
70°	19527	3637	3366
75°	18242	3470	2937
80°	16046	3050	2521
85°	12683	2645	2117

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 20530 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.2	3.9
10°-20°	860.0	11.4
20°-30°	1283.2	17.0
30°-40°	1555.3	20.6
40°-50°	1592.6	21.1
50°-60°	1059.1	14.0
60°-70°	603.6	8.0
70°-80°	253.6	3.4
80°-90°	60.5	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°	2439.3	32.2
0°-40°	3994.7	52.8
0°-60°	6646.3	87.9
0°-90°	7564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7564.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3101	3101	3101	3101	3101	
5°	3059	3119	3094	3101	3130	291
15°	2973	3055	3101	3091	3052	840
25°	2806	2941	2742	2682	2696	1295
35°	2557	2603	2408	2418	2443	1602
45°	2234	2098	2084	2109	2127	1723
55°	1814	1661	1689	370	284	1620
65°	1320	1181	220	235	235	1298
75°	729	153	139	121	117	774
85°	171	43	36	28	28	205
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3101.3	3101.3	3101.3	3101.3	3101.3
2.5°	3062.2	3126.2	3094.2	3097.7	3108.4
5°	3058.6	3119.1	3094.2	3101.3	3129.8
7.5°	3044.4	3108.4	3094.2	3115.5	3147.5
10°	3023.1	3097.7	3094.2	3129.8	3161.8
12.5°	3001.7	3076.4	3094.2	3147.5	3176.0
15°	2973.3	3055.1	3101.3	3090.6	3051.5
17.5°	2937.7	3033.7	3083.5	2930.6	2927.0
20°	2902.1	3005.3	2983.9	2838.1	2823.9
22.5°	2855.9	2976.8	2838.1	2738.5	2756.3
25°	2806.1	2941.3	2742.1	2681.6	2695.9
27.5°	2752.8	2905.7	2638.9	2617.6	2635.4
30°	2692.3	2855.9	2560.7	2553.6	2574.9
32.5°	2628.3	2759.9	2486.0	2489.6	2514.5
35°	2557.1	2603.4	2407.8	2418.4	2443.3
37.5°	2486.0	2457.6	2333.1	2350.9	2375.8
40°	2407.8	2343.8	2254.8	2272.6	2301.1
42.5°	2322.4	2222.8	2169.5	2194.4	2219.3
45°	2233.5	2098.4	2084.1	2109.0	2126.8
47.5°	2141.0	1991.7	1995.2	2013.0	1508.0
50°	2037.9	1885.0	1899.2	1315.9	835.8
52.5°	1927.6	1774.7	1803.2	732.6	423.2
55°	1813.8	1660.9	1689.4	369.9	284.5
57.5°	1692.9	1547.1	1102.5	266.7	281.0
60°	1572.0	1426.2	561.9	263.2	270.3
62.5°	1447.5	1305.2	266.7	252.5	256.1
65°	1319.5	1180.8	220.5	234.7	234.7
67.5°	1177.2	1049.2	209.8	209.8	206.3
70°	1031.4	871.4	192.1	181.4	177.8
72.5°	896.2	334.3	167.2	149.4	145.8
75°	729.1	152.9	138.7	120.9	117.4
77.5°	579.7	128.0	110.3	96.0	92.5
80°	430.3	99.6	81.8	71.1	67.6
82.5°	298.7	67.6	56.9	46.2	46.2
85°	170.7	42.7	35.6	28.5	28.5
87.5°	67.6	21.3	17.8	10.7	10.7
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	23.35	24.87	23.71	25.18	25.50	11.11	12.63	11.48	12.95	13.26
	3H	25.37	26.73	25.75	27.05	27.42	13.43	14.79	13.81	15.11	15.48
	4H	25.83	27.10	26.23	27.45	27.83	14.14	15.41	14.54	15.76	16.14
	6H	26.24	27.41	26.65	27.78	28.17	14.63	15.80	15.04	16.16	16.56
	8H	26.39	27.50	26.81	27.89	28.29	14.76	15.88	15.19	16.27	16.67
	12H	26.48	27.55	26.92	27.93	28.36	14.85	15.92	15.28	16.30	16.73
4H	2H	23.19	24.46	23.59	24.81	25.19	11.91	13.18	12.31	13.53	13.91
	3H	25.39	26.44	25.80	26.84	27.24	14.42	15.47	14.83	15.87	16.27
	4H	25.84	26.78	26.27	27.20	27.63	15.24	16.18	15.68	16.60	17.04
	6H	26.31	27.12	26.76	27.56	28.02	15.84	16.65	16.29	17.09	17.55
	8H	26.50	27.26	26.96	27.70	28.17	16.00	16.77	16.47	17.21	17.68
	12H	26.65	27.33	27.13	27.81	28.28	16.12	16.80	16.61	17.28	17.75
8H	4H	25.76	26.52	26.22	26.96	27.43	16.08	16.84	16.55	17.29	17.76
	6H	26.22	26.85	26.72	27.34	27.82	16.70	17.33	17.20	17.82	18.30
	8H	26.42	26.98	26.93	27.49	27.98	16.90	17.47	17.42	17.98	18.47
	12H	26.60	27.10	27.11	27.60	28.16	17.06	17.56	17.57	18.06	18.62
12H	4H	25.73	26.41	26.21	26.89	27.36	16.15	16.83	16.64	17.31	17.78
	6H	26.17	26.74	26.69	27.25	27.74	16.80	17.36	17.31	17.87	18.36
	8H	26.39	26.90	26.90	27.39	27.95	17.05	17.55	17.56	18.04	18.61