

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: P895463

Luminaire Tested: 8TMB-SC3-LVRF-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

**Test Information**

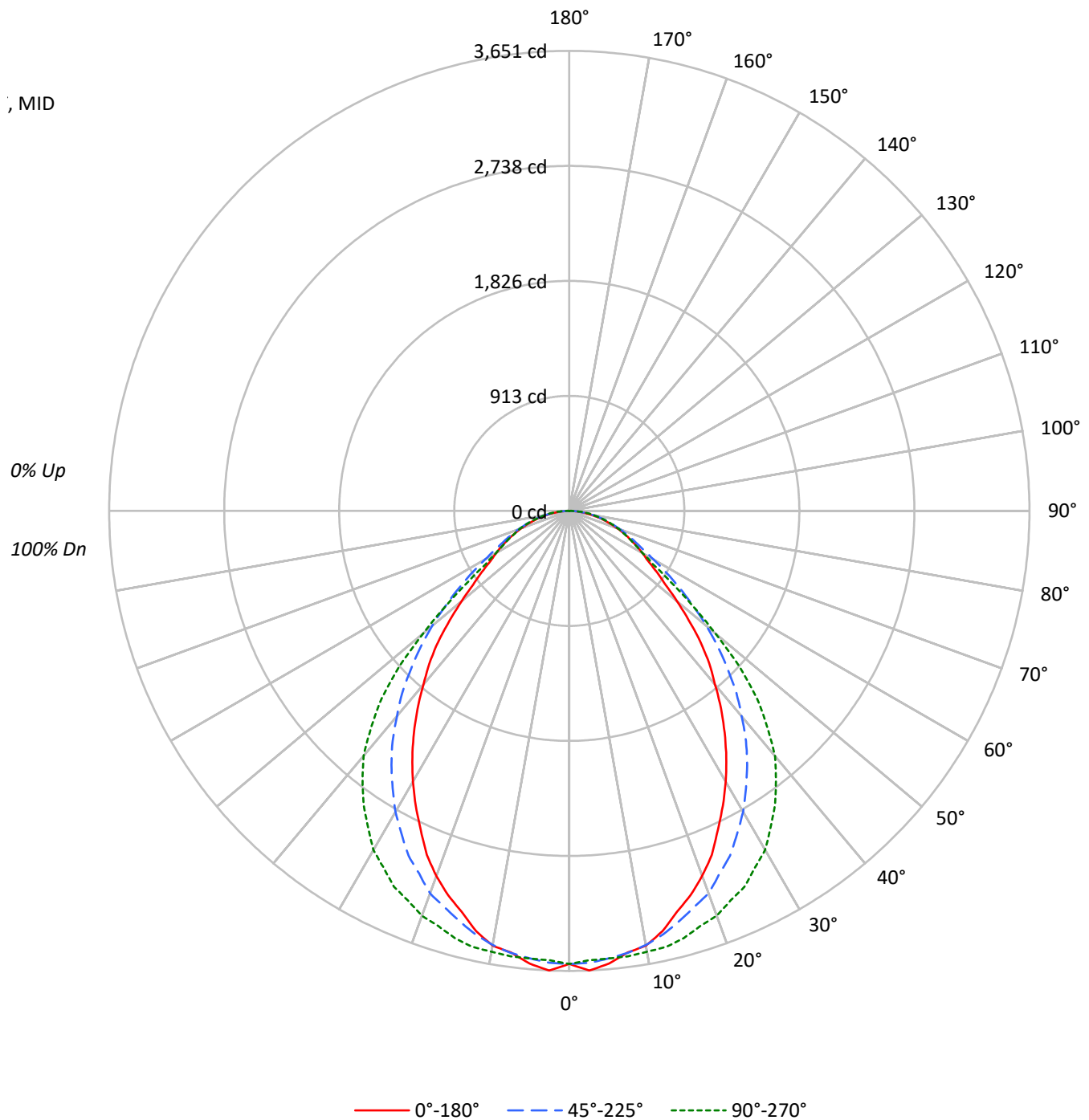
Test Method: LM-79-2019  
Report Number: P895463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-LVRF-UNV-CC83-MID-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K CCT  
lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7472.0 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23  
Luminous Opening: Rectangular (W 0.38' 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				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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

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

	0°	45°	90°
0°	12756	12756	12756
5°	12845	12698	12698
10°	12623	12603	12798
15°	12101	12382	12890
20°	11641	12198	12911
25°	10920	11821	12882
30°	10164	11298	12730
35°	9304	10657	12325
40°	8330	9855	11760
45°	7392	8922	10573
50°	6151	7853	8338
55°	5239	6615	6060
60°	4750	5466	4789
65°	4473	4787	4458
70°	4209	4441	4345
75°	3921	4229	4152
80°	3590	3897	4011
85°	3122	3424	4490

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10573 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.4	4.6
10°-20°	957.8	12.8
20°-30°	1390.9	18.6
30°-40°	1548.9	20.7
40°-50°	1368.4	18.3
50°-60°	897.9	12.0
60°-70°	549.8	7.4
70°-80°	319.9	4.3
80°-90°	98.0	1.3
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°	2689.1	36.0
0°-40°	4238.0	56.7
0°-60°	6504.2	87.0
0°-90°	7472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7472.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3595	3595	3595	3595	3595	
5°	3606	3608	3565	3601	3565	340
15°	3294	3332	3371	3504	3509	929
25°	2789	2857	3019	3212	3290	1283
35°	2148	2264	2460	2720	2846	1340
45°	1473	1563	1778	2017	2107	1127
55°	847	907	1069	1060	980	768
65°	533	542	570	553	531	530
75°	286	290	308	314	303	303
85°	77	80	84	95	110	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3595.2	3595.2	3595.2	3595.2	3595.2
2.5°	3651.3	3606.4	3589.6	3606.4	3569.0
5°	3606.4	3608.3	3565.3	3600.8	3565.3
7.5°	3535.4	3559.7	3539.1	3593.3	3565.3
10°	3503.6	3505.4	3498.0	3554.1	3552.2
12.5°	3415.7	3421.3	3441.9	3526.0	3544.7
15°	3294.2	3331.6	3370.8	3503.6	3509.2
17.5°	3198.8	3243.7	3296.1	3438.1	3455.0
20°	3082.9	3101.6	3230.6	3355.9	3419.4
22.5°	2953.9	2989.4	3114.7	3283.0	3346.5
25°	2789.4	2856.7	3019.4	3211.9	3290.4
27.5°	2638.0	2716.5	2884.7	3099.7	3191.4
30°	2480.9	2570.7	2757.6	2968.9	3107.2
32.5°	2318.3	2430.4	2608.1	2851.1	2972.6
35°	2148.1	2264.0	2460.4	2720.2	2845.5
37.5°	1978.0	2090.2	2303.3	2581.9	2694.1
40°	1798.5	1908.8	2127.6	2409.9	2538.9
42.5°	1643.4	1738.7	1963.0	2204.2	2323.9
45°	1473.2	1563.0	1778.0	2017.3	2107.0
47.5°	1286.3	1391.0	1600.4	1796.7	1832.2
50°	1114.3	1222.7	1422.7	1536.8	1510.6
52.5°	962.8	1054.4	1237.7	1286.3	1224.6
55°	846.9	906.7	1069.4	1060.0	979.7
57.5°	740.3	777.7	916.1	863.7	787.1
60°	669.3	686.1	770.3	721.7	674.9
62.5°	602.0	609.5	654.3	628.2	592.7
65°	532.8	542.2	570.2	553.4	531.0
67.5°	469.3	473.0	499.2	495.4	467.4
70°	405.7	411.3	428.1	435.6	418.8
72.5°	344.0	349.6	366.4	373.9	359.0
75°	286.0	289.8	308.5	314.1	302.9
77.5°	230.0	237.4	248.7	258.0	244.9
80°	175.7	179.5	190.7	201.9	196.3
82.5°	123.4	129.0	136.5	151.4	155.2
85°	76.7	80.4	84.1	95.3	110.3
87.5°	29.9	31.8	37.4	41.1	54.2
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	16.37	17.86	16.74	18.17	18.48	17.03	18.51	17.39	18.82	19.14
	3H	17.98	19.30	18.35	19.63	19.99	18.46	19.79	18.84	20.12	20.48
	4H	18.59	19.84	18.99	20.18	20.56	19.07	20.31	19.47	20.66	21.04
	6H	19.06	20.21	19.48	20.58	20.97	19.55	20.70	19.97	21.07	21.46
	8H	19.22	20.31	19.64	20.70	21.10	19.75	20.84	20.18	21.23	21.63
	12H	19.32	20.36	19.75	20.74	21.17	19.92	20.96	20.35	21.35	21.78
4H	2H	17.00	18.24	17.40	18.59	18.97	17.52	18.76	17.92	19.11	19.49
	3H	18.82	19.85	19.23	20.25	20.65	19.22	20.25	19.63	20.65	21.05
	4H	19.56	20.48	19.99	20.90	21.34	19.97	20.90	20.40	21.31	21.75
	6H	20.15	20.96	20.61	21.40	21.86	20.61	21.41	21.07	21.86	22.32
	8H	20.35	21.10	20.82	21.55	22.02	20.86	21.61	21.33	22.06	22.53
	12H	20.49	21.16	20.98	21.64	22.12	21.09	21.76	21.57	22.24	22.71
8H	4H	19.87	20.63	20.34	21.07	21.54	20.24	20.99	20.71	21.44	21.91
	6H	20.60	21.22	21.10	21.71	22.19	21.02	21.64	21.51	22.13	22.61
	8H	20.87	21.43	21.39	21.94	22.43	21.36	21.92	21.88	22.43	22.92
	12H	21.09	21.59	21.60	22.08	22.64	21.68	22.18	22.19	22.67	23.23
12H	4H	19.91	20.58	20.39	21.06	21.53	20.26	20.93	20.74	21.41	21.88
	6H	20.66	21.22	21.18	21.73	22.22	21.06	21.62	21.58	22.13	22.62
	8H	21.00	21.49	21.51	21.99	22.55	21.47	21.96	21.98	22.46	23.02