

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: P895487

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

Issue Date: 11/11/2024

**Test Information**

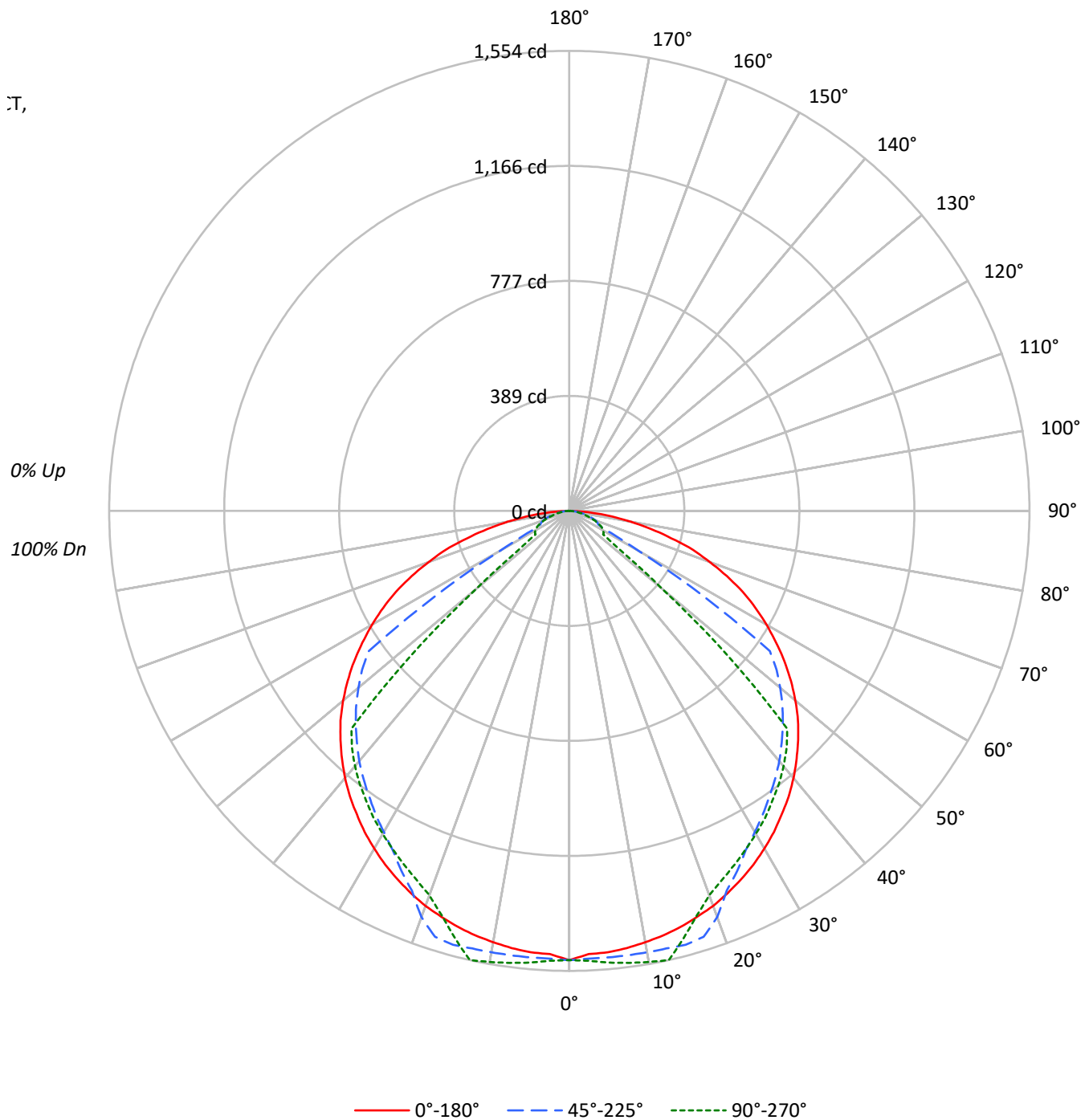
Test Method: LM-79-2019  
Report Number: P895487  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-RFLW-UNV-CC93-LOW-3500K  
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K CC  
LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3701.0 lumens  
Efficiency: N/A  
Efficacy: 110.5 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): 33.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.9915  
Total Harmonic Distortion (THDi): 6.67573310469889  
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	100	100	100	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56	56	56	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49	49	49	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43	43	43	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38	38	38	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35	35	35	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31	31	31	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28	28	28	28

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

	0°	45°	90°
0°	9826	9826	9826
5°	9728	9841	9954
10°	9726	9955	10172
15°	9753	10172	10010
20°	9785	10061	9521
25°	9810	9586	9425
30°	9850	9368	9421
35°	9891	9313	9451
40°	9959	9326	9517
45°	10008	9338	9529
50°	10045	9362	4119
55°	10020	9332	1572
60°	9962	3560	1713
65°	9892	1653	1761
70°	9555	1780	1647
75°	8924	1699	1436
80°	7853	1492	1234
85°	6204	1293	1033

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 10045 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.9	3.9
10°-20°	420.8	11.4
20°-30°	627.8	17.0
30°-40°	761.0	20.6
40°-50°	779.2	21.1
50°-60°	518.2	14.0
60°-70°	295.4	8.0
70°-80°	124.1	3.4
80°-90°	29.6	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°	1193.5	32.2
0°-40°	1954.6	52.8
0°-60°	3252.0	87.9
0°-90°	3701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1497	1526	1514	1517	1531	142
15°	1455	1495	1517	1512	1493	411
25°	1373	1439	1342	1312	1319	633
35°	1251	1274	1178	1183	1196	784
45°	1093	1027	1020	1032	1041	843
55°	888	813	827	181	139	793
65°	646	578	108	115	115	635
75°	357	75	68	59	57	379
85°	84	21	17	14	14	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1517.4	1517.4	1517.4	1517.4	1517.4
2.5°	1498.3	1529.6	1514.0	1515.7	1520.9
5°	1496.6	1526.1	1514.0	1517.4	1531.4
7.5°	1489.6	1520.9	1514.0	1524.4	1540.1
10°	1479.2	1515.7	1514.0	1531.4	1547.0
12.5°	1468.7	1505.3	1514.0	1540.1	1554.0
15°	1454.8	1494.8	1517.4	1512.2	1493.1
17.5°	1437.4	1484.4	1508.7	1433.9	1432.2
20°	1420.0	1470.5	1460.0	1388.7	1381.7
22.5°	1397.4	1456.5	1388.7	1339.9	1348.6
25°	1373.0	1439.1	1341.7	1312.1	1319.1
27.5°	1346.9	1421.7	1291.2	1280.8	1289.5
30°	1317.3	1397.4	1252.9	1249.5	1259.9
32.5°	1286.0	1350.4	1216.4	1218.1	1230.3
35°	1251.2	1273.8	1178.1	1183.3	1195.5
37.5°	1216.4	1202.5	1141.6	1150.3	1162.4
40°	1178.1	1146.8	1103.3	1112.0	1125.9
42.5°	1136.3	1087.6	1061.5	1073.7	1085.9
45°	1092.8	1026.7	1019.7	1031.9	1040.6
47.5°	1047.6	974.5	976.2	984.9	737.8
50°	997.1	922.3	929.3	643.9	408.9
52.5°	943.2	868.4	882.3	358.5	207.1
55°	887.5	812.7	826.6	181.0	139.2
57.5°	828.3	757.0	539.5	130.5	137.5
60°	769.2	697.8	274.9	128.8	132.3
62.5°	708.3	638.6	130.5	123.6	125.3
65°	645.6	577.7	107.9	114.9	114.9
67.5°	576.0	513.4	102.7	102.7	100.9
70°	504.7	426.3	94.0	88.7	87.0
72.5°	438.5	163.6	81.8	73.1	71.3
75°	356.7	74.8	67.9	59.2	57.4
77.5°	283.6	62.6	53.9	47.0	45.2
80°	210.6	48.7	40.0	34.8	33.1
82.5°	146.2	33.1	27.8	22.6	22.6
85°	83.5	20.9	17.4	13.9	13.9
87.5°	33.1	10.4	8.7	5.2	5.2
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	20.86	22.39	21.23	22.70	23.01	8.63	10.15	8.99	10.46	10.78
	3H	22.88	24.24	23.26	24.57	24.93	10.94	12.30	11.32	12.63	12.99
	4H	23.35	24.62	23.75	24.97	25.35	11.66	12.93	12.06	13.28	13.66
	6H	23.75	24.93	24.17	25.29	25.69	12.14	13.31	12.55	13.68	14.07
	8H	23.90	25.02	24.33	25.41	25.81	12.28	13.39	12.71	13.78	14.19
	12H	24.00	25.07	24.43	25.45	25.88	12.37	13.43	12.80	13.81	14.24
4H	2H	20.71	21.98	21.11	22.33	22.71	9.43	10.70	9.83	11.05	11.43
	3H	22.91	23.96	23.32	24.36	24.76	11.94	12.99	12.35	13.39	13.79
	4H	23.36	24.30	23.79	24.71	25.15	12.76	13.70	13.19	14.11	14.55
	6H	23.82	24.64	24.28	25.08	25.54	13.35	14.17	13.81	14.61	15.07
	8H	24.01	24.78	24.48	25.22	25.69	13.52	14.28	13.99	14.73	15.19
	12H	24.17	24.85	24.65	25.32	25.80	13.64	14.32	14.12	14.80	15.27
8H	4H	23.28	24.04	23.74	24.48	24.95	13.60	14.36	14.06	14.80	15.27
	6H	23.74	24.36	24.23	24.86	25.33	14.22	14.85	14.72	15.34	15.82
	8H	23.93	24.50	24.45	25.01	25.50	14.42	14.99	14.94	15.50	15.99
	12H	24.12	24.62	24.63	25.11	25.68	14.58	15.08	15.09	15.57	16.14
12H	4H	23.24	23.92	23.73	24.40	24.87	13.67	14.35	14.15	14.83	15.30
	6H	23.69	24.25	24.20	24.76	25.25	14.31	14.88	14.83	15.39	15.88
	8H	23.91	24.41	24.42	24.90	25.47	14.57	15.07	15.08	15.56	16.13