

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: P895489

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

**Test Information**

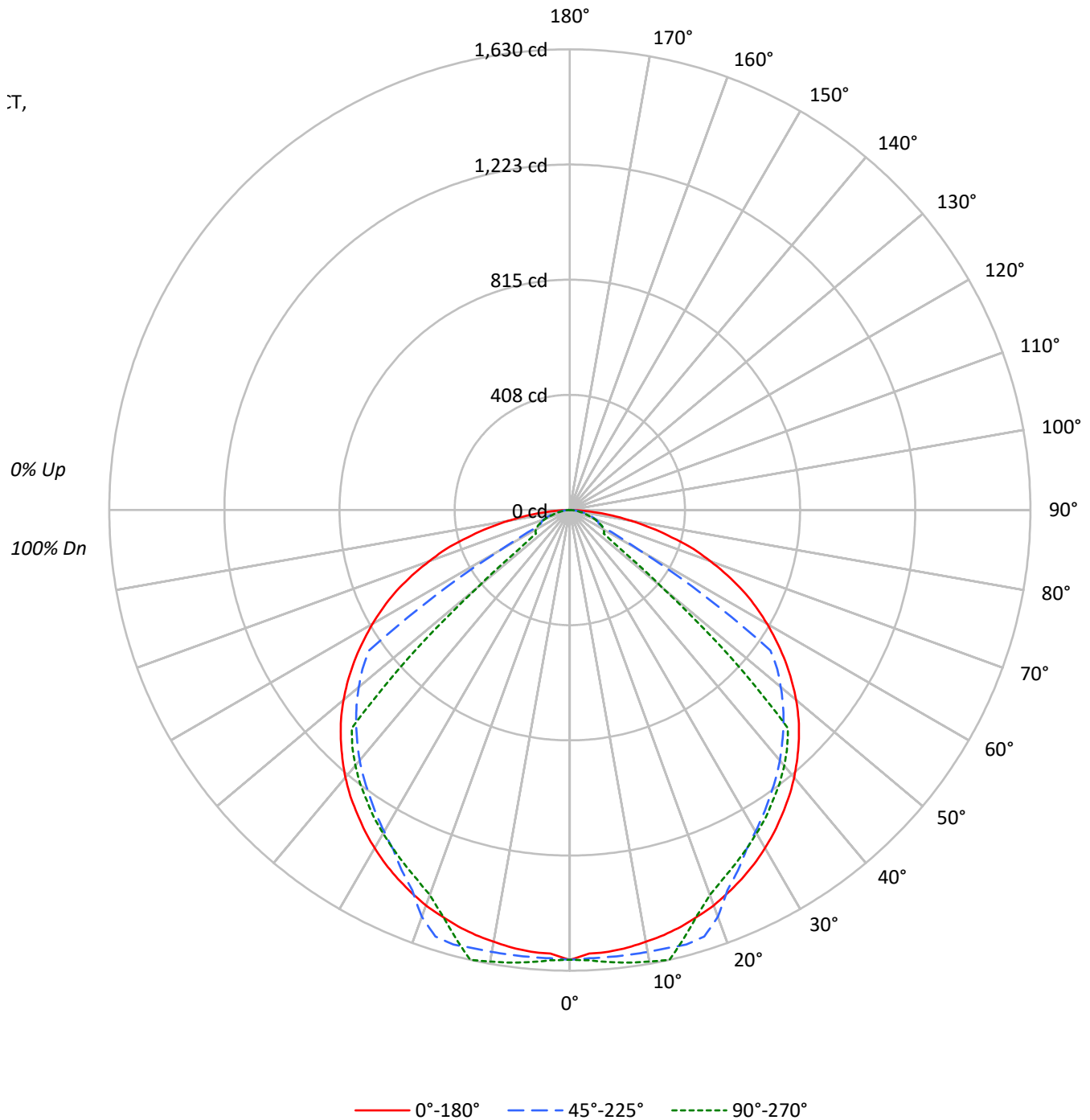
Test Method: LM-79-2019  
Report Number: P895489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-SC3-RFLW-UNV-CC93-LOW-5000K  
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K CC  
LOW lumen setting  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3881.0 lumens  
Efficiency: N/A  
Efficacy: 115.9 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	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°	10304	10304	10304
5°	10201	10320	10438
10°	10199	10439	10667
15°	10227	10667	10496
20°	10261	10550	9984
25°	10287	10052	9883
30°	10329	9824	9879
35°	10371	9766	9910
40°	10443	9779	9981
45°	10495	9792	9993
50°	10533	9817	4320
55°	10507	9786	1648
60°	10446	3734	1796
65°	10373	1733	1845
70°	10019	1865	1727
75°	9360	1781	1506
80°	8234	1566	1294
85°	6508	1352	1085

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 50°  
 Luminance: 10533 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.0	3.9
10°-20°	441.2	11.4
20°-30°	658.4	17.0
30°-40°	798.0	20.6
40°-50°	817.1	21.1
50°-60°	543.4	14.0
60°-70°	309.7	8.0
70°-80°	130.1	3.4
80°-90°	31.0	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°	1251.6	32.2
0°-40°	2049.6	52.8
0°-60°	3410.1	87.9
0°-90°	3881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3881.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1569	1600	1588	1591	1606	149
15°	1526	1568	1591	1586	1566	431
25°	1440	1509	1407	1376	1383	664
35°	1312	1336	1235	1241	1254	822
45°	1146	1077	1069	1082	1091	884
55°	931	852	867	190	146	831
65°	677	606	113	120	120	666
75°	374	78	71	62	60	397
85°	88	22	18	15	15	105
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1591.2	1591.2	1591.2	1591.2	1591.2
2.5°	1571.2	1604.0	1587.6	1589.4	1594.9
5°	1569.3	1600.4	1587.6	1591.2	1605.8
7.5°	1562.0	1594.9	1587.6	1598.5	1615.0
10°	1551.1	1589.4	1587.6	1605.8	1622.3
12.5°	1540.1	1578.5	1587.6	1615.0	1629.6
15°	1525.5	1567.5	1591.2	1585.8	1565.7
17.5°	1507.3	1556.6	1582.1	1503.6	1501.8
20°	1489.0	1542.0	1531.0	1456.2	1448.9
22.5°	1465.3	1527.4	1456.2	1405.1	1414.2
25°	1439.8	1509.1	1406.9	1375.9	1383.2
27.5°	1412.4	1490.9	1354.0	1343.1	1352.2
30°	1381.4	1465.3	1313.9	1310.2	1321.2
32.5°	1348.5	1416.1	1275.5	1277.4	1290.1
35°	1312.0	1335.8	1235.4	1240.9	1253.6
37.5°	1275.5	1260.9	1197.1	1206.2	1219.0
40°	1235.4	1202.6	1156.9	1166.1	1180.7
42.5°	1191.6	1140.5	1113.1	1125.9	1138.7
45°	1146.0	1076.6	1069.3	1082.1	1091.2
47.5°	1098.5	1021.9	1023.7	1032.8	773.7
50°	1045.6	967.2	974.5	675.2	428.8
52.5°	989.1	910.6	925.2	375.9	217.2
55°	930.7	852.2	866.8	189.8	146.0
57.5°	868.6	793.8	565.7	136.9	144.2
60°	806.6	731.8	288.3	135.0	138.7
62.5°	742.7	669.7	136.9	129.6	131.4
65°	677.0	605.8	113.1	120.4	120.4
67.5°	604.0	538.3	107.7	107.7	105.8
70°	529.2	447.1	98.5	93.1	91.2
72.5°	459.9	171.5	85.8	76.6	74.8
75°	374.1	78.5	71.2	62.0	60.2
77.5°	297.4	65.7	56.6	49.3	47.4
80°	220.8	51.1	42.0	36.5	34.7
82.5°	153.3	34.7	29.2	23.7	23.7
85°	87.6	21.9	18.2	14.6	14.6
87.5°	34.7	10.9	9.1	5.5	5.5
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	21.03	22.55	21.39	22.86	23.18	8.80	10.32	9.16	10.63	10.95
	3H	23.05	24.41	23.43	24.74	25.10	11.11	12.47	11.49	12.80	13.16
	4H	23.51	24.78	23.91	25.13	25.51	11.82	13.09	12.22	13.44	13.82
	6H	23.92	25.09	24.33	25.46	25.85	12.31	13.48	12.72	13.85	14.24
	8H	24.07	25.18	24.49	25.57	25.97	12.44	13.56	12.87	13.95	14.35
	12H	24.17	25.23	24.60	25.62	26.05	12.53	13.60	12.96	13.98	14.41
4H	2H	20.87	22.14	21.27	22.49	22.87	9.59	10.87	9.99	11.21	11.59
	3H	23.07	24.12	23.49	24.52	24.92	12.10	13.15	12.52	13.55	13.95
	4H	23.52	24.46	23.95	24.88	25.32	12.92	13.86	13.36	14.28	14.72
	6H	23.99	24.80	24.45	25.25	25.71	13.52	14.33	13.97	14.77	15.23
	8H	24.18	24.94	24.64	25.38	25.85	13.69	14.45	14.15	14.89	15.36
	12H	24.33	25.01	24.81	25.49	25.96	13.80	14.48	14.29	14.96	15.43
8H	4H	23.44	24.20	23.90	24.65	25.11	13.76	14.52	14.23	14.97	15.44
	6H	23.90	24.53	24.40	25.02	25.50	14.39	15.01	14.88	15.51	15.98
	8H	24.10	24.66	24.61	25.18	25.66	14.59	15.15	15.10	15.66	16.15
	12H	24.28	24.79	24.79	25.28	25.84	14.74	15.24	15.25	15.74	16.30
12H	4H	23.41	24.09	23.89	24.57	25.04	13.83	14.51	14.32	14.99	15.46
	6H	23.85	24.42	24.37	24.93	25.42	14.48	15.04	14.99	15.55	16.04
	8H	24.08	24.58	24.59	25.07	25.63	14.73	15.23	15.24	15.73	16.29