

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: P895478

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895478
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-CC83-LOW-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

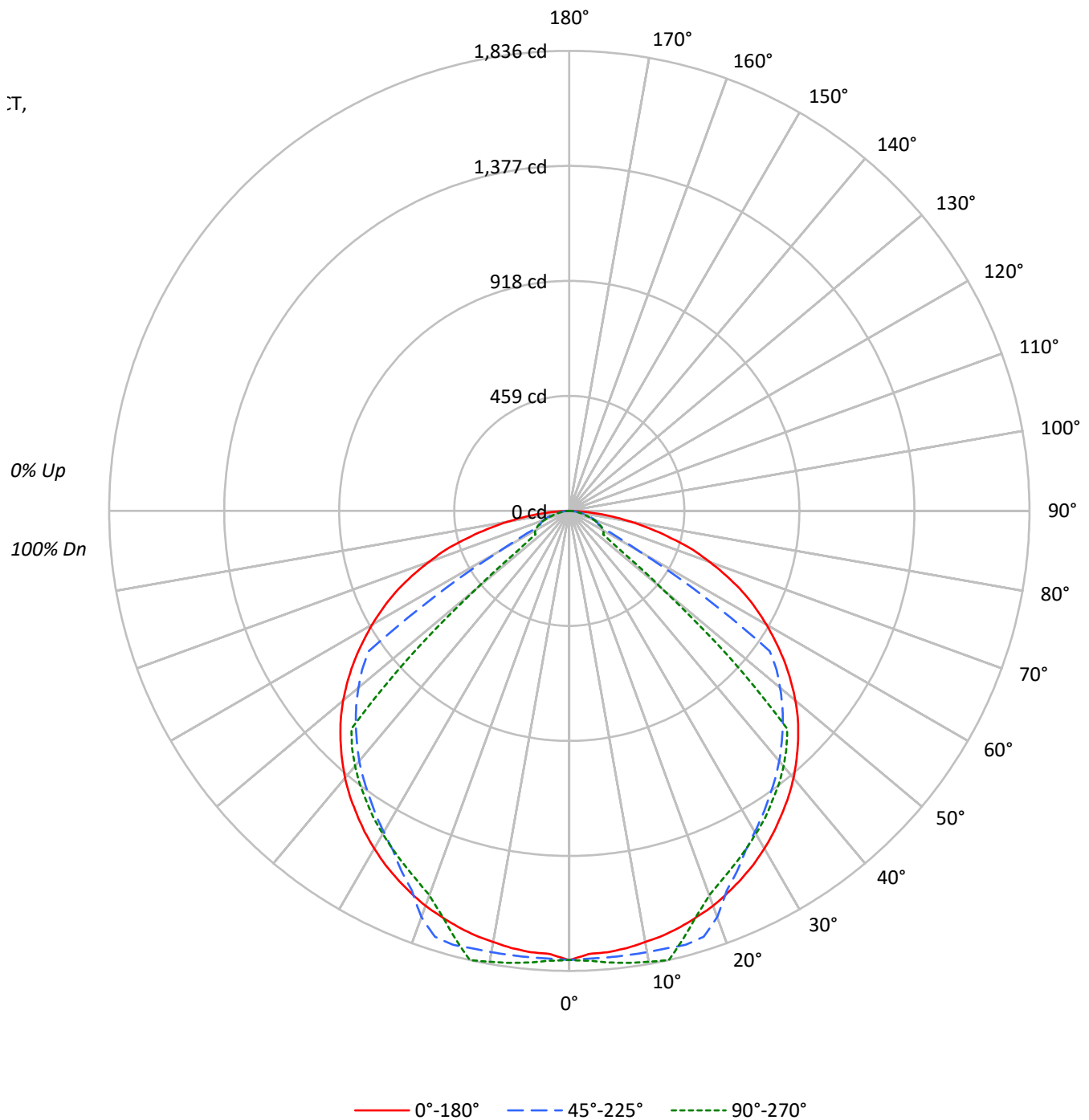
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4372.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

TEST NUMBER: P895478
CATALOG NUMBER: 8TMB-SC3-RFLW-UNV-CC83-LOW-3500K

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°	11608	11608	11608
5°	11492	11625	11759
10°	11489	11759	12016
15°	11521	12017	11824
20°	11559	11885	11248
25°	11588	11324	11133
30°	11636	11067	11128
35°	11684	11001	11164
40°	11764	11017	11243
45°	11823	11031	11258
50°	11866	11058	4867
55°	11836	11023	1857
60°	11767	4206	2023
65°	11686	1954	2079
70°	11286	2102	1946
75°	10543	2007	1696
80°	9274	1764	1458
85°	7333	1531	1218

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 11866 cd/sqm



TEST NUMBER: P895478

CATALOG NUMBER: 8TMB-SC3-RFLW-UNV-CC83-LOW-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	3.9
10°-20°	497.1	11.4
20°-30°	741.7	17.0
30°-40°	899.0	20.6
40°-50°	920.5	21.1
50°-60°	612.1	14.0
60°-70°	348.9	8.0
70°-80°	146.6	3.4
80°-90°	35.0	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°	1409.9	32.2
0°-40°	2308.9	52.8
0°-60°	3841.6	87.9
0°-90°	4372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1793	1793	1793	1793	1793	
5°	1768	1803	1788	1793	1809	168
15°	1718	1766	1793	1786	1764	485
25°	1622	1700	1585	1550	1558	748
35°	1478	1505	1392	1398	1412	926
45°	1291	1213	1205	1219	1229	996
55°	1048	960	976	214	164	936
65°	763	682	128	136	136	750
75°	421	88	80	70	68	447
85°	99	25	21	16	16	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792.6	1792.6	1792.6	1792.6	1792.6
2.5°	1769.9	1806.9	1788.4	1790.5	1796.7
5°	1767.9	1802.8	1788.4	1792.6	1809.0
7.5°	1759.7	1796.7	1788.4	1800.8	1819.3
10°	1747.3	1790.5	1788.4	1809.0	1827.5
12.5°	1735.0	1778.2	1788.4	1819.3	1835.7
15°	1718.5	1765.8	1792.6	1786.4	1763.8
17.5°	1698.0	1753.5	1782.3	1693.9	1691.8
20°	1677.4	1737.1	1724.7	1640.4	1632.2
22.5°	1650.7	1720.6	1640.4	1582.9	1593.2
25°	1621.9	1700.0	1584.9	1550.0	1558.2
27.5°	1591.1	1679.5	1525.3	1513.0	1523.3
30°	1556.2	1650.7	1480.1	1476.0	1488.3
32.5°	1519.1	1595.2	1436.9	1439.0	1453.4
35°	1478.0	1504.8	1391.7	1397.9	1412.3
37.5°	1436.9	1420.5	1348.5	1358.8	1373.2
40°	1391.7	1354.7	1303.3	1313.6	1330.0
42.5°	1342.4	1284.8	1254.0	1268.4	1282.7
45°	1291.0	1212.9	1204.6	1219.0	1229.3
47.5°	1237.5	1151.2	1153.2	1163.5	871.6
50°	1177.9	1089.5	1097.7	760.6	483.1
52.5°	1114.2	1025.8	1042.2	423.5	244.6
55°	1048.4	960.0	976.4	213.8	164.5
57.5°	978.5	894.2	637.3	154.2	162.4
60°	908.6	824.3	324.8	152.1	156.2
62.5°	836.7	754.4	154.2	146.0	148.0
65°	762.7	682.5	127.5	135.7	135.7
67.5°	680.4	606.4	121.3	121.3	119.2
70°	596.1	503.6	111.0	104.8	102.8
72.5°	518.0	193.2	96.6	86.3	84.3
75°	421.4	88.4	80.2	69.9	67.8
77.5°	335.1	74.0	63.7	55.5	53.4
80°	248.7	57.6	47.3	41.1	39.1
82.5°	172.7	39.1	32.9	26.7	26.7
85°	98.7	24.7	20.6	16.4	16.4
87.5°	39.1	12.3	10.3	6.2	6.2
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	21.44	22.96	21.81	23.28	23.59	9.21	10.73	9.57	11.04	11.36
	3H	23.46	24.82	23.84	25.15	25.51	11.52	12.88	11.90	13.21	13.57
	4H	23.93	25.20	24.33	25.55	25.93	12.24	13.51	12.64	13.86	14.24
	6H	24.33	25.51	24.75	25.87	26.26	12.72	13.89	13.13	14.26	14.65
	8H	24.48	25.60	24.91	25.99	26.39	12.86	13.97	13.28	14.36	14.76
	12H	24.58	25.65	25.01	26.03	26.46	12.94	14.01	13.37	14.39	14.82
4H	2H	21.29	22.56	21.68	22.91	23.28	10.01	11.28	10.41	11.63	12.01
	3H	23.49	24.54	23.90	24.94	25.34	12.52	13.57	12.93	13.97	14.37
	4H	23.94	24.87	24.37	25.29	25.73	13.34	14.28	13.77	14.69	15.13
	6H	24.40	25.22	24.86	25.66	26.12	13.93	14.74	14.39	15.19	15.65
	8H	24.59	25.35	25.06	25.80	26.27	14.10	14.86	14.56	15.31	15.77
	12H	24.74	25.42	25.23	25.90	26.37	14.22	14.90	14.70	15.38	15.85
8H	4H	23.85	24.62	24.32	25.06	25.53	14.18	14.94	14.64	15.38	15.85
	6H	24.31	24.94	24.81	25.43	25.91	14.80	15.43	15.30	15.92	16.40
	8H	24.51	25.08	25.03	25.59	26.08	15.00	15.57	15.51	16.08	16.56
	12H	24.70	25.20	25.21	25.69	26.26	15.16	15.66	15.67	16.15	16.71
12H	4H	23.82	24.50	24.31	24.98	25.45	14.25	14.93	14.73	15.41	15.88
	6H	24.27	24.83	24.78	25.34	25.83	14.89	15.46	15.41	15.97	16.46
	8H	24.49	24.99	25.00	25.48	26.05	15.15	15.65	15.66	16.14	16.70