

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: P895488

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895488
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

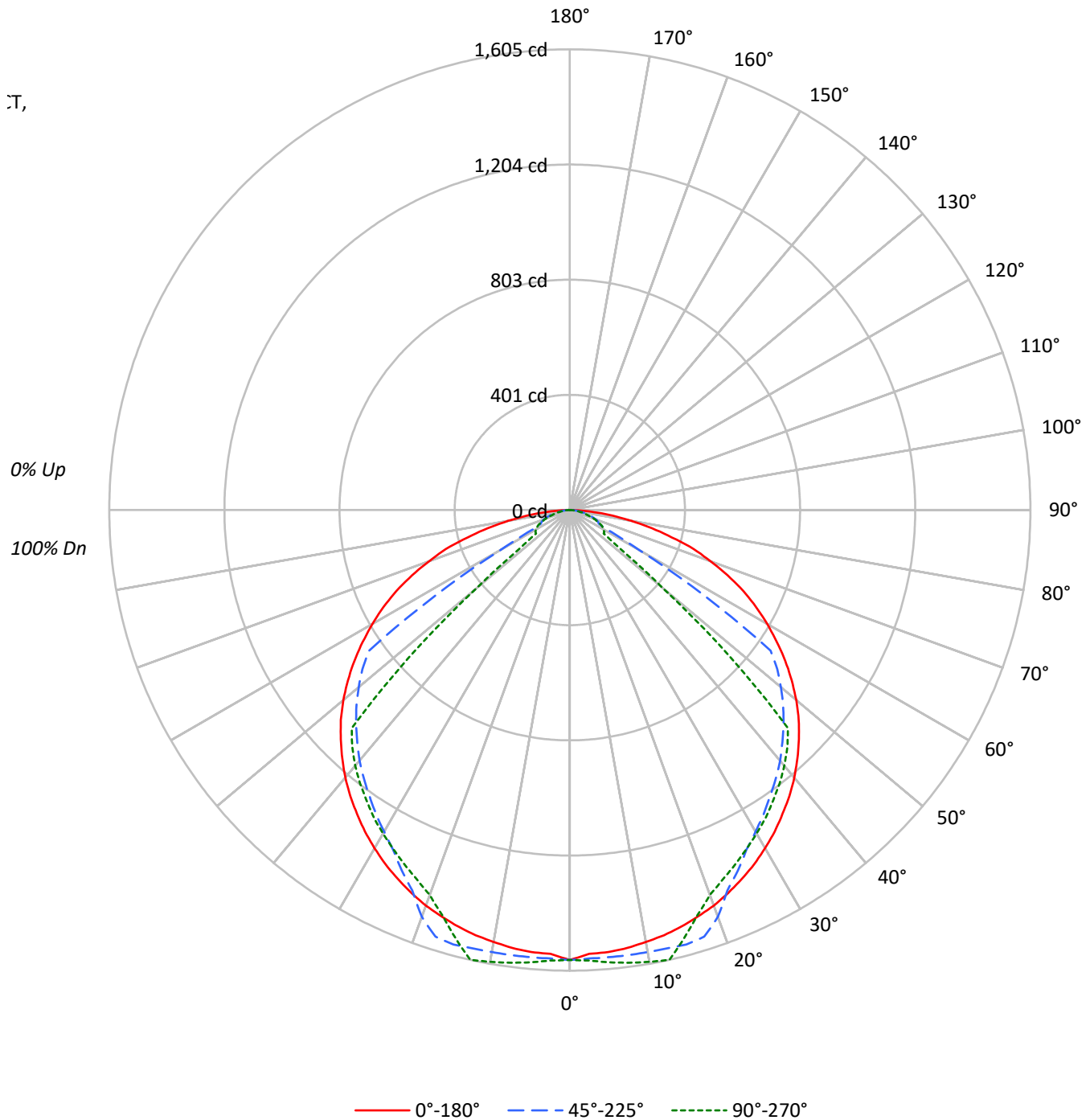
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3823.0 lumens
Efficiency: N/A
Efficacy: 114.1 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): 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°	10150	10150	10150
5°	10049	10166	10282
10°	10046	10283	10507
15°	10074	10508	10339
20°	10108	10392	9836
25°	10134	9902	9735
30°	10174	9677	9731
35°	10217	9620	9762
40°	10287	9633	9831
45°	10338	9647	9844
50°	10376	9670	4255
55°	10349	9639	1623
60°	10289	3678	1769
65°	10218	1707	1817
70°	9870	1838	1702
75°	9220	1754	1484
80°	8111	1540	1275
85°	6412	1337	1070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 10376 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	3.9
10°-20°	434.7	11.4
20°-30°	648.5	17.0
30°-40°	786.1	20.6
40°-50°	804.9	21.1
50°-60°	535.3	14.0
60°-70°	305.1	8.0
70°-80°	128.2	3.4
80°-90°	30.6	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°	1232.9	32.2
0°-40°	2019.0	52.8
0°-60°	3359.2	87.9
0°-90°	3823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1546	1576	1564	1568	1582	147
15°	1503	1544	1568	1562	1542	424
25°	1418	1487	1386	1355	1362	654
35°	1292	1316	1217	1222	1235	810
45°	1129	1061	1053	1066	1075	871
55°	917	840	854	187	144	819
65°	667	597	111	119	119	656
75°	368	77	70	61	59	391
85°	86	22	18	14	14	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.5	1567.5	1567.5	1567.5	1567.5
2.5°	1547.7	1580.0	1563.9	1565.7	1571.1
5°	1545.9	1576.4	1563.9	1567.5	1581.8
7.5°	1538.7	1571.1	1563.9	1574.6	1590.8
10°	1527.9	1565.7	1563.9	1581.8	1598.0
12.5°	1517.1	1554.9	1563.9	1590.8	1605.2
15°	1502.7	1544.1	1567.5	1562.1	1542.3
17.5°	1484.8	1533.3	1558.5	1481.2	1479.4
20°	1466.8	1518.9	1508.1	1434.4	1427.3
22.5°	1443.4	1504.5	1434.4	1384.1	1393.1
25°	1418.3	1486.6	1385.9	1355.3	1362.5
27.5°	1391.3	1468.6	1333.8	1323.0	1332.0
30°	1360.7	1443.4	1294.2	1290.6	1301.4
32.5°	1328.4	1394.9	1256.5	1258.3	1270.9
35°	1292.4	1315.8	1216.9	1222.3	1234.9
37.5°	1256.5	1242.1	1179.2	1188.2	1200.8
40°	1216.9	1184.6	1139.6	1148.6	1163.0
42.5°	1173.8	1123.5	1096.5	1109.1	1121.7
45°	1128.9	1060.6	1053.4	1065.9	1074.9
47.5°	1082.1	1006.6	1008.4	1017.4	762.2
50°	1030.0	952.7	959.9	665.1	422.4
52.5°	974.3	897.0	911.4	370.3	213.9
55°	916.7	839.5	853.8	186.9	143.8
57.5°	855.6	781.9	557.2	134.8	142.0
60°	794.5	720.8	284.0	133.0	136.6
62.5°	731.6	659.7	134.8	127.6	129.4
65°	666.9	596.8	111.4	118.6	118.6
67.5°	595.0	530.3	106.1	106.1	104.3
70°	521.3	440.4	97.1	91.7	89.9
72.5°	453.0	169.0	84.5	75.5	73.7
75°	368.5	77.3	70.1	61.1	59.3
77.5°	293.0	64.7	55.7	48.5	46.7
80°	217.5	50.3	41.3	36.0	34.2
82.5°	151.0	34.2	28.8	23.4	23.4
85°	86.3	21.6	18.0	14.4	14.4
87.5°	34.2	10.8	9.0	5.4	5.4
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	20.98	22.50	21.34	22.81	23.13	8.74	10.26	9.11	10.58	10.89
	3H	23.00	24.36	23.38	24.68	25.05	11.06	12.42	11.44	12.75	13.11
	4H	23.46	24.73	23.86	25.08	25.46	11.77	13.04	12.17	13.39	13.77
	6H	23.87	25.04	24.28	25.41	25.80	12.25	13.43	12.67	13.79	14.19
	8H	24.02	25.13	24.44	25.52	25.92	12.39	13.51	12.82	13.90	14.30
	12H	24.11	25.18	24.54	25.56	25.99	12.48	13.55	12.91	13.93	14.36
4H	2H	20.82	22.09	21.22	22.44	22.82	9.54	10.81	9.94	11.16	11.54
	3H	23.02	24.07	23.43	24.47	24.87	12.05	13.10	12.46	13.50	13.90
	4H	23.47	24.41	23.90	24.82	25.26	12.87	13.81	13.31	14.23	14.67
	6H	23.94	24.75	24.39	25.19	25.65	13.46	14.28	13.92	14.72	15.18
	8H	24.13	24.89	24.59	25.33	25.80	13.63	14.40	14.10	14.84	15.31
	12H	24.28	24.96	24.76	25.44	25.91	13.75	14.43	14.24	14.91	15.38
8H	4H	23.39	24.15	23.85	24.59	25.06	13.71	14.47	14.18	14.92	15.38
	6H	23.85	24.48	24.35	24.97	25.45	14.33	14.96	14.83	15.45	15.93
	8H	24.05	24.61	24.56	25.12	25.61	14.54	15.10	15.05	15.61	16.10
	12H	24.23	24.73	24.74	25.23	25.79	14.69	15.19	15.20	15.69	16.25
12H	4H	23.36	24.04	23.84	24.52	24.99	13.78	14.46	14.26	14.94	15.41
	6H	23.80	24.37	24.32	24.88	25.37	14.43	14.99	14.94	15.50	15.99
	8H	24.02	24.52	24.53	25.02	25.58	14.68	15.18	15.19	15.67	16.24