

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: P895033

Luminaire Tested: 8TMB-4SL-RFLW-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895033
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-4SL-RFLW-UNV-L930
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K
Light Source: -
Ballast/Driver: -

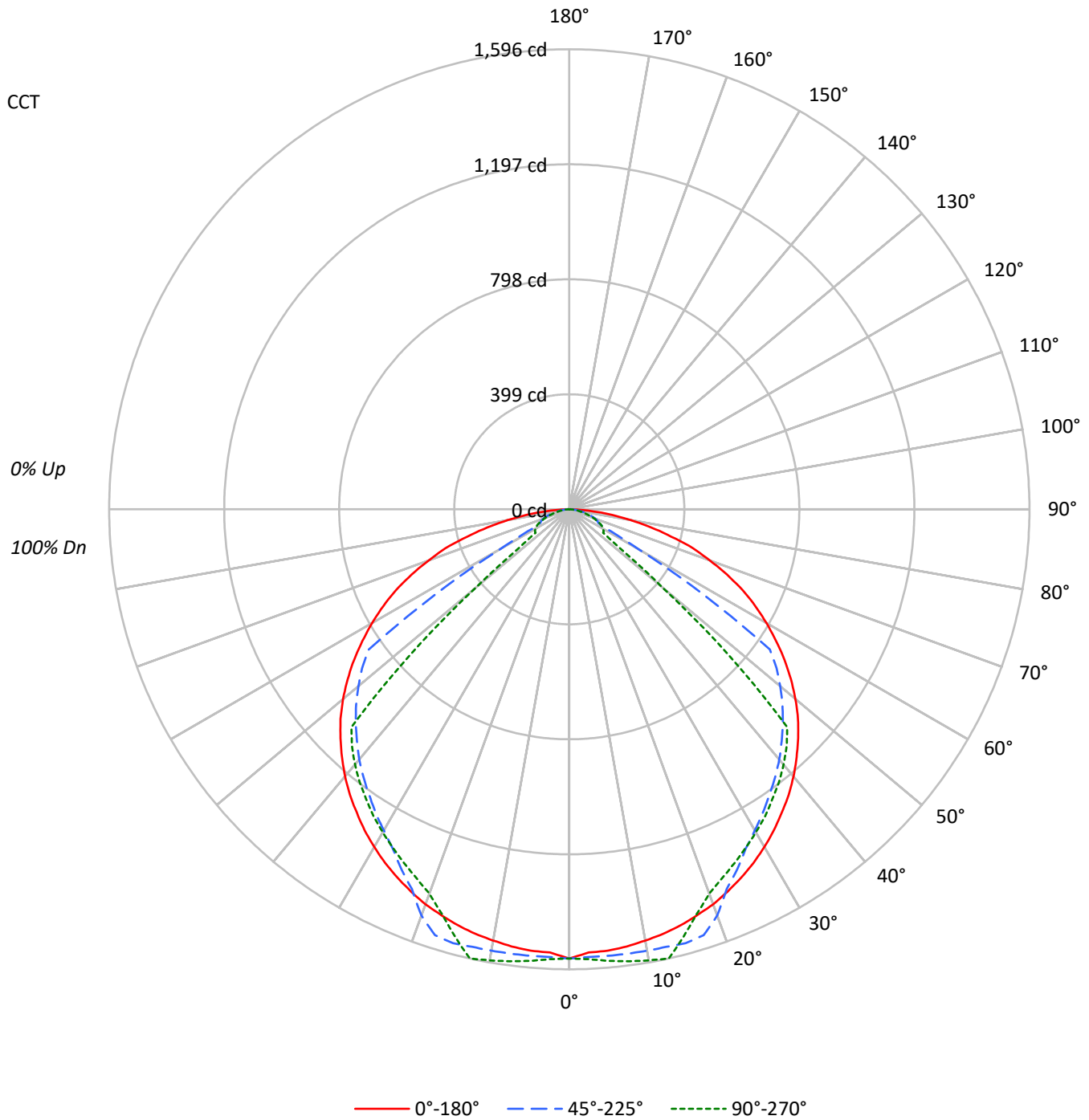
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.0 lumens
Efficiency: N/A
Efficacy: 137.7 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): 27.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 4.5
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: 8TMB-4SL-RFLW-UNV-L930

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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°	10091	10091	10091
5°	9991	10107	10223
10°	9989	10224	10447
15°	10016	10447	10280
20°	10050	10333	9778
25°	10075	9845	9679
30°	10116	9622	9675
35°	10158	9564	9706
40°	10227	9578	9774
45°	10279	9591	9787
50°	10317	9615	4231
55°	10290	9584	1614
60°	10230	3657	1759
65°	10160	1698	1808
70°	9813	1827	1693
75°	9167	1744	1476
80°	8066	1533	1268
85°	6375	1330	1062

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 10317 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	3.9
10°-20°	432.2	11.4
20°-30°	644.8	17.0
30°-40°	781.6	20.6
40°-50°	800.3	21.1
50°-60°	532.2	14.0
60°-70°	303.3	8.0
70°-80°	127.4	3.4
80°-90°	30.4	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°	1225.8	32.2
0°-40°	2007.4	52.8
0°-60°	3339.8	87.9
0°-90°	3801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1537	1567	1555	1558	1573	146
15°	1494	1535	1558	1553	1533	422
25°	1410	1478	1378	1348	1355	651
35°	1285	1308	1210	1215	1228	805
45°	1122	1054	1047	1060	1069	866
55°	912	835	849	186	143	814
65°	663	593	111	118	118	652
75°	366	77	70	61	59	389
85°	86	21	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°	1558.4	1558.4	1558.4	1558.4	1558.4
2.5°	1538.8	1570.9	1554.9	1556.7	1562.0
5°	1537.0	1567.4	1554.9	1558.4	1572.7
7.5°	1529.8	1562.0	1554.9	1565.6	1581.7
10°	1519.1	1556.7	1554.9	1572.7	1588.8
12.5°	1508.4	1545.9	1554.9	1581.7	1596.0
15°	1494.1	1535.2	1558.4	1553.1	1533.4
17.5°	1476.2	1524.5	1549.5	1472.7	1470.9
20°	1458.4	1510.2	1499.5	1426.2	1419.0
22.5°	1435.1	1495.9	1426.2	1376.1	1385.1
25°	1410.1	1478.0	1377.9	1347.5	1354.7
27.5°	1383.3	1460.1	1326.1	1315.4	1324.3
30°	1352.9	1435.1	1286.8	1283.2	1293.9
32.5°	1320.7	1386.9	1249.3	1251.0	1263.6
35°	1285.0	1308.2	1209.9	1215.3	1227.8
37.5°	1249.3	1235.0	1172.4	1181.3	1193.9
40°	1209.9	1177.8	1133.1	1142.0	1156.3
42.5°	1167.0	1117.0	1090.2	1102.7	1115.2
45°	1122.4	1054.4	1047.3	1059.8	1068.7
47.5°	1075.9	1000.8	1002.6	1011.6	757.8
50°	1024.1	947.2	954.4	661.3	420.0
52.5°	968.7	891.8	906.1	368.2	212.7
55°	911.5	834.6	848.9	185.9	143.0
57.5°	850.7	777.4	554.0	134.0	141.2
60°	789.9	716.7	282.4	132.3	135.8
62.5°	727.4	655.9	134.0	126.9	128.7
65°	663.1	593.4	110.8	118.0	118.0
67.5°	591.6	527.2	105.4	105.4	103.7
70°	518.3	437.9	96.5	91.1	89.4
72.5°	450.4	168.0	84.0	75.1	73.3
75°	366.4	76.8	69.7	60.8	59.0
77.5°	291.3	64.3	55.4	48.3	46.5
80°	216.3	50.0	41.1	35.7	34.0
82.5°	150.1	34.0	28.6	23.2	23.2
85°	85.8	21.4	17.9	14.3	14.3
87.5°	34.0	10.7	8.9	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	20.96	22.48	21.32	22.79	23.11	8.72	10.24	9.09	10.56	10.87
	3H	22.98	24.34	23.36	24.66	25.03	11.04	12.40	11.41	12.72	13.09
	4H	23.44	24.71	23.84	25.06	25.44	11.75	13.02	12.15	13.37	13.75
	6H	23.85	25.02	24.26	25.39	25.78	12.24	13.41	12.65	13.77	14.17
	8H	24.00	25.11	24.42	25.50	25.90	12.37	13.49	12.80	13.88	14.28
	12H	24.09	25.16	24.52	25.54	25.97	12.46	13.53	12.89	13.91	14.34
4H	2H	20.80	22.07	21.20	22.42	22.80	9.52	10.79	9.92	11.14	11.52
	3H	23.00	24.05	23.41	24.45	24.85	12.03	13.08	12.44	13.48	13.88
	4H	23.45	24.39	23.88	24.80	25.24	12.85	13.79	13.29	14.21	14.65
	6H	23.92	24.73	24.37	25.17	25.63	13.45	14.26	13.90	14.70	15.16
	8H	24.11	24.87	24.57	25.31	25.78	13.61	14.38	14.08	14.82	15.29
	12H	24.26	24.94	24.74	25.42	25.89	13.73	14.41	14.21	14.89	15.36
8H	4H	23.37	24.13	23.83	24.57	25.04	13.69	14.45	14.16	14.90	15.36
	6H	23.83	24.46	24.32	24.95	25.43	14.31	14.94	14.81	15.43	15.91
	8H	24.03	24.59	24.54	25.10	25.59	14.51	15.08	15.03	15.59	16.08
	12H	24.21	24.71	24.72	25.21	25.77	14.67	15.17	15.18	15.66	16.23
12H	4H	23.34	24.02	23.82	24.50	24.97	13.76	14.44	14.24	14.92	15.39
	6H	23.78	24.35	24.30	24.86	25.35	14.41	14.97	14.92	15.48	15.97
	8H	24.00	24.50	24.51	25.00	25.56	14.66	15.16	15.17	15.65	16.22