

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: P895011

Luminaire Tested: 8TMB-4SL-LVR-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-4SL-LVR-UNV-L940
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

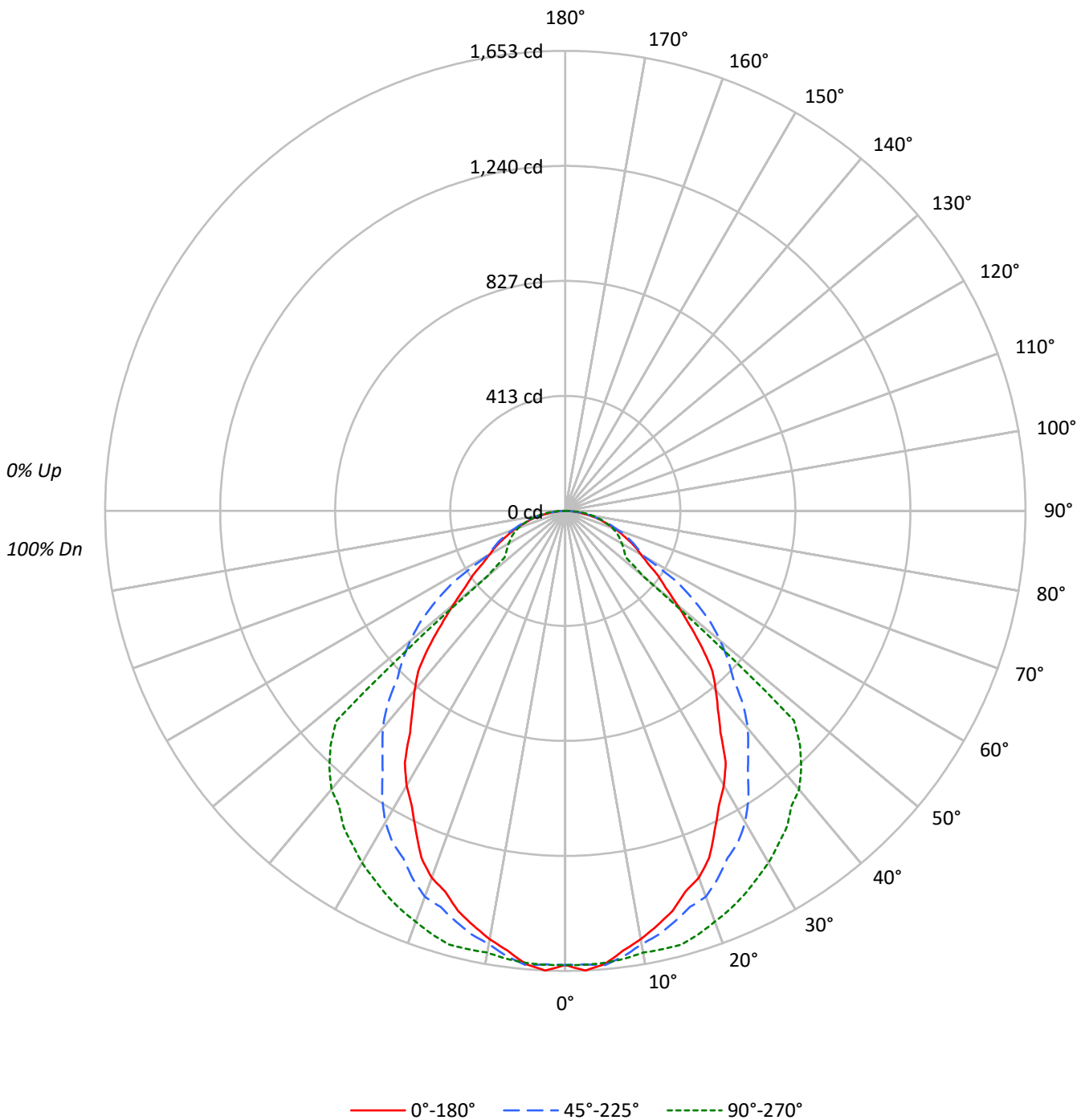
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3482.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27.6
Input Voltage (V): 120
Input Current (A_{in}): 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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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	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5789	5789	5789
5°	5821	5835	5806
10°	5629	5695	5807
15°	5467	5605	5926
20°	5296	5572	5931
25°	4969	5393	5957
30°	4667	5295	5982
35°	4209	4952	6010
40°	3899	4724	6052
45°	3487	4282	5984
50°	2894	4011	2010
55°	2521	3521	1608
60°	2230	2294	1668
65°	2120	2232	1770
70°	1989	2109	1867
75°	1851	1988	1919
80°	1686	1874	2009
85°	1494	1596	2170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5984 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	4.4
10°-20°	435.4	12.5
20°-30°	640.5	18.4
30°-40°	732.4	21.0
40°-50°	693.5	19.9
50°-60°	382.1	11.0
60°-70°	245.3	7.0
70°-80°	151.4	4.3
80°-90°	46.6	1.3
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°	1230.6	35.3
0°-40°	1963.0	56.4
0°-60°	3038.7	87.3
0°-90°	3482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1634	1648	1638	1638	1630	153
15°	1488	1507	1526	1606	1613	418
25°	1269	1326	1378	1468	1522	585
35°	972	1055	1143	1309	1388	614
45°	695	761	853	1095	1192	532
55°	408	428	569	293	260	364
65°	252	261	266	237	211	250
75°	135	138	145	152	140	144
85°	37	37	39	45	53	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.7	1631.7	1631.7	1631.7	1631.7
2.5°	1653.3	1657.5	1630.8	1630.0	1632.5
5°	1634.2	1647.5	1638.3	1638.3	1630.0
7.5°	1593.3	1615.8	1613.3	1632.5	1623.3
10°	1562.5	1580.8	1580.8	1630.8	1611.7
12.5°	1525.8	1546.7	1558.3	1610.8	1613.3
15°	1488.3	1506.7	1525.8	1605.8	1613.3
17.5°	1434.2	1467.5	1491.7	1570.0	1594.2
20°	1402.5	1422.5	1475.8	1539.2	1570.8
22.5°	1350.0	1379.2	1430.8	1501.7	1548.3
25°	1269.2	1325.8	1377.5	1467.5	1521.7
27.5°	1194.2	1236.7	1343.3	1438.3	1490.0
30°	1139.2	1172.5	1292.5	1395.8	1460.0
32.5°	1072.5	1126.7	1224.2	1354.2	1422.5
35°	971.7	1055.0	1143.3	1309.2	1387.5
37.5°	900.8	958.3	1078.3	1262.5	1335.0
40°	841.7	894.2	1020.0	1204.2	1306.7
42.5°	782.5	825.0	946.7	1160.8	1254.2
45°	695.0	760.8	853.3	1095.0	1192.5
47.5°	603.3	673.3	792.5	1039.2	1114.2
50°	524.2	580.0	726.7	928.3	364.2
52.5°	455.0	506.7	656.7	335.8	275.0
55°	407.5	427.5	569.2	293.3	260.0
57.5°	350.8	383.3	477.5	279.2	246.7
60°	314.2	328.3	323.3	265.0	235.0
62.5°	285.0	295.0	293.3	250.8	221.7
65°	252.5	260.8	265.8	236.7	210.8
67.5°	220.0	227.5	235.0	219.2	195.8
70°	191.7	196.7	203.3	198.3	180.0
72.5°	162.5	168.3	172.5	176.7	159.2
75°	135.0	137.5	145.0	152.5	140.0
77.5°	110.0	112.5	117.5	125.8	119.2
80°	82.5	85.0	91.7	98.3	98.3
82.5°	58.3	60.0	64.2	73.3	77.5
85°	36.7	36.7	39.2	45.0	53.3
87.5°	14.2	14.2	16.7	20.0	26.7
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	14.05	15.53	14.42	15.85	16.16	11.85	13.34	12.22	13.65	13.96
	3H	15.58	16.90	15.96	17.23	17.59	14.18	15.51	14.56	15.84	16.20
	4H	16.17	17.41	16.57	17.76	18.14	15.13	16.38	15.53	16.73	17.11
	6H	16.63	17.77	17.04	18.14	18.53	15.92	17.07	16.33	17.43	17.83
	8H	16.77	17.86	17.20	18.25	18.65	16.23	17.32	16.66	17.71	18.11
	12H	16.87	17.91	17.30	18.29	18.72	16.48	17.52	16.91	17.91	18.33
4H	2H	14.60	15.84	15.00	16.19	16.57	12.96	14.20	13.36	14.55	14.93
	3H	16.37	17.40	16.78	17.80	18.20	15.40	16.43	15.81	16.83	17.23
	4H	17.09	18.02	17.53	18.44	18.87	16.47	17.40	16.90	17.81	18.25
	6H	17.68	18.48	18.14	18.93	19.39	17.36	18.16	17.82	18.61	19.07
	8H	17.87	18.62	18.33	19.07	19.53	17.71	18.46	18.17	18.91	19.37
	12H	18.01	18.68	18.49	19.16	19.63	18.00	18.67	18.48	19.15	19.62
8H	4H	17.40	18.15	17.86	18.60	19.07	16.86	17.61	17.32	18.05	18.52
	6H	18.11	18.74	18.61	19.23	19.71	17.89	18.52	18.39	19.01	19.49
	8H	18.37	18.94	18.89	19.45	19.93	18.34	18.90	18.85	19.41	19.90
	12H	18.58	19.08	19.09	19.57	20.14	18.72	19.22	19.23	19.71	20.28
12H	4H	17.44	18.11	17.92	18.59	19.06	16.89	17.56	17.37	18.04	18.51
	6H	18.18	18.74	18.69	19.25	19.74	17.96	18.52	18.47	19.03	19.52
	8H	18.50	19.00	19.01	19.49	20.05	18.46	18.96	18.97	19.45	20.02