

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: P895006

Luminaire Tested: 8TMB-4SL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895006
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-L835
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

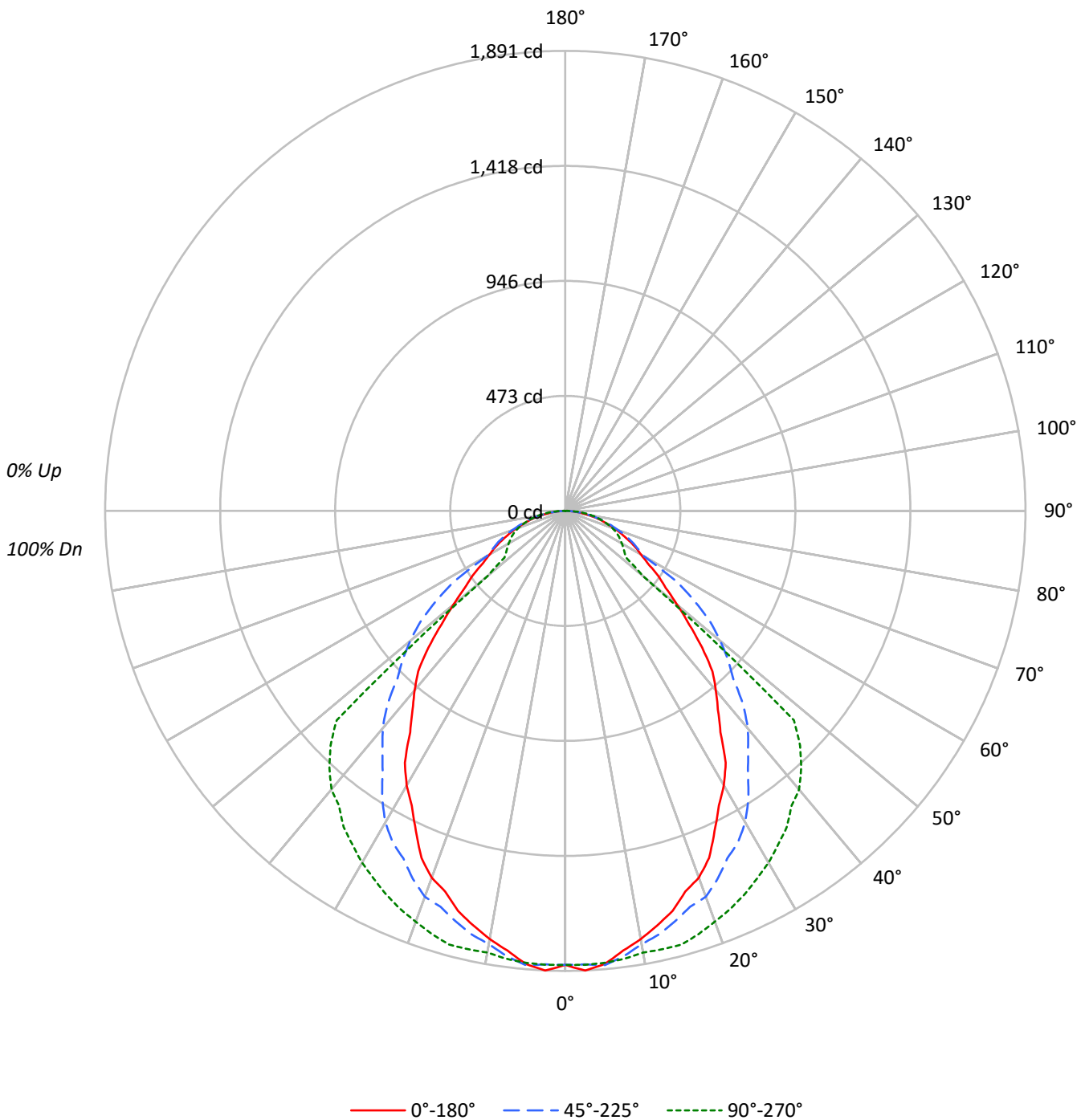
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3983.0 lumens
Efficiency: N/A
Efficacy: 144.3 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 (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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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°	6622	6622	6622
5°	6658	6675	6641
10°	6439	6515	6642
15°	6254	6411	6779
20°	6058	6374	6785
25°	5684	6169	6814
30°	5339	6057	6842
35°	4814	5665	6874
40°	4459	5404	6923
45°	3989	4898	6845
50°	3310	4588	2300
55°	2883	4028	1840
60°	2550	2625	1907
65°	2425	2553	2025
70°	2274	2413	2136
75°	2117	2274	2195
80°	1929	2143	2299
85°	1706	1824	2483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	4.4
10°-20°	498.0	12.5
20°-30°	732.6	18.4
30°-40°	837.8	21.0
40°-50°	793.3	19.9
50°-60°	437.1	11.0
60°-70°	280.6	7.0
70°-80°	173.2	4.3
80°-90°	53.3	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°	1407.7	35.3
0°-40°	2245.5	56.4
0°-60°	3475.9	87.3
0°-90°	3983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1866	1866	1866	1866	1866	
5°	1869	1885	1874	1874	1864	175
15°	1702	1724	1745	1837	1846	478
25°	1452	1517	1576	1679	1741	669
35°	1112	1207	1308	1498	1587	703
45°	795	870	976	1253	1364	608
55°	466	489	651	336	297	417
65°	289	298	304	271	241	286
75°	154	157	166	174	160	164
85°	42	42	45	52	61	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1866.4	1866.4	1866.4	1866.4	1866.4
2.5°	1891.2	1896.0	1865.5	1864.5	1867.4
5°	1869.3	1884.6	1874.1	1874.1	1864.5
7.5°	1822.6	1848.3	1845.5	1867.4	1856.9
10°	1787.3	1808.3	1808.3	1865.5	1843.6
12.5°	1745.4	1769.2	1782.6	1842.6	1845.5
15°	1702.5	1723.5	1745.4	1836.9	1845.5
17.5°	1640.5	1678.7	1706.3	1795.9	1823.5
20°	1604.3	1627.2	1688.2	1760.6	1796.9
22.5°	1544.2	1577.6	1636.7	1717.7	1771.1
25°	1451.8	1516.6	1575.7	1678.7	1740.6
27.5°	1366.0	1414.6	1536.6	1645.3	1704.4
30°	1303.1	1341.2	1478.5	1596.7	1670.1
32.5°	1226.8	1288.8	1400.3	1549.0	1627.2
35°	1111.5	1206.8	1307.8	1497.5	1587.1
37.5°	1030.5	1096.2	1233.5	1444.2	1527.1
40°	962.8	1022.8	1166.8	1377.4	1494.7
42.5°	895.1	943.7	1082.9	1327.9	1434.6
45°	795.0	870.3	976.1	1252.6	1364.1
47.5°	690.1	770.2	906.5	1188.7	1274.5
50°	599.6	663.5	831.2	1061.9	416.6
52.5°	520.5	579.6	751.2	384.2	314.6
55°	466.1	489.0	651.1	335.5	297.4
57.5°	401.3	438.5	546.2	319.3	282.2
60°	359.4	375.6	369.9	303.1	268.8
62.5°	326.0	337.4	335.5	286.9	253.6
65°	288.8	298.4	304.1	270.7	241.2
67.5°	251.7	260.2	268.8	250.7	224.0
70°	219.2	225.0	232.6	226.9	205.9
72.5°	185.9	192.6	197.3	202.1	182.1
75°	154.4	157.3	165.9	174.4	160.1
77.5°	125.8	128.7	134.4	143.9	136.3
80°	94.4	97.2	104.9	112.5	112.5
82.5°	66.7	68.6	73.4	83.9	88.7
85°	41.9	41.9	44.8	51.5	61.0
87.5°	16.2	16.2	19.1	22.9	30.5
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	14.52	16.00	14.88	16.31	16.63	12.32	13.80	12.69	14.12	14.43
	3H	16.04	17.37	16.42	17.70	18.06	14.65	15.98	15.03	16.31	16.67
	4H	16.64	17.88	17.04	18.23	18.61	15.60	16.84	16.00	17.19	17.57
	6H	17.09	18.24	17.51	18.61	19.00	16.39	17.53	16.80	17.90	18.29
	8H	17.24	18.33	17.67	18.72	19.12	16.70	17.79	17.12	18.18	18.58
	12H	17.33	18.38	17.76	18.76	19.19	16.95	17.99	17.38	18.37	18.80
4H	2H	15.07	16.31	15.47	16.66	17.04	13.42	14.67	13.83	15.02	15.40
	3H	16.84	17.87	17.25	18.27	18.67	15.87	16.90	16.28	17.30	17.70
	4H	17.56	18.49	17.99	18.90	19.34	16.94	17.86	17.37	18.28	18.72
	6H	18.15	18.95	18.60	19.39	19.86	17.82	18.63	18.28	19.07	19.53
	8H	18.34	19.09	18.80	19.53	20.00	18.18	18.93	18.64	19.37	19.84
	12H	18.47	19.15	18.96	19.62	20.10	18.46	19.14	18.95	19.62	20.09
8H	4H	17.87	18.62	18.33	19.07	19.53	17.32	18.08	17.79	18.52	18.99
	6H	18.58	19.20	19.08	19.70	20.17	18.36	18.98	18.86	19.47	19.95
	8H	18.84	19.40	19.36	19.91	20.40	18.80	19.37	19.32	19.88	20.37
	12H	19.05	19.55	19.56	20.04	20.61	19.19	19.69	19.70	20.18	20.75
12H	4H	17.90	18.58	18.39	19.06	19.53	17.36	18.03	17.84	18.51	18.98
	6H	18.64	19.21	19.16	19.72	20.21	18.42	18.99	18.94	19.50	19.98
	8H	18.96	19.46	19.47	19.95	20.52	18.93	19.43	19.44	19.92	20.49