

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: P895022

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

Issue Date: 11/11/2024

**Test Information**

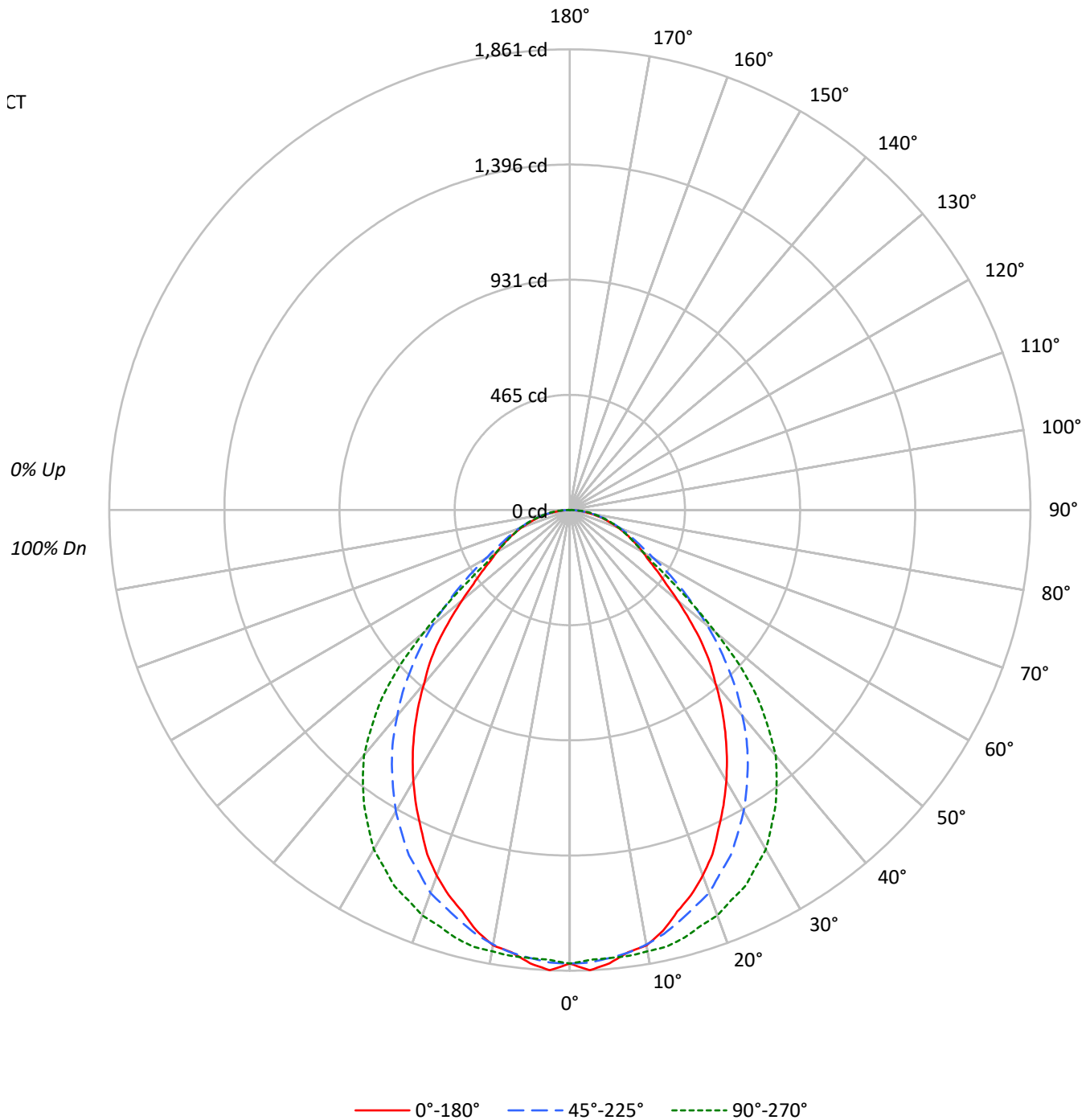
Test Method: LM-79-2019  
Report Number: P895022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 8TMB-4SL-LVRF-UNV-L835  
Description: 4000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K C  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3808.0 lumens  
Efficiency: N/A  
Efficacy: 138.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23  
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<sub>in</sub>): 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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6501	6501	6501
5°	6546	6472	6472
10°	6433	6423	6522
15°	6167	6310	6569
20°	5933	6217	6580
25°	5565	6024	6565
30°	5180	5758	6488
35°	4742	5431	6282
40°	4245	5022	5993
45°	3767	4547	5388
50°	3135	4002	4250
55°	2670	3371	3089
60°	2421	2786	2441
65°	2279	2440	2272
70°	2145	2264	2214
75°	1999	2155	2117
80°	1831	1986	2043
85°	1592	1746	2288

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5388 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.5	4.6
10°-20°	488.1	12.8
20°-30°	708.9	18.6
30°-40°	789.4	20.7
40°-50°	697.4	18.3
50°-60°	457.6	12.0
60°-70°	280.2	7.4
70°-80°	163.1	4.3
80°-90°	50.0	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°	1370.5	36.0
0°-40°	2159.8	56.7
0°-60°	3314.8	87.0
0°-90°	3808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3808.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1838	1839	1817	1835	1817	173
15°	1679	1698	1718	1786	1788	474
25°	1422	1456	1539	1637	1677	654
35°	1095	1154	1254	1386	1450	683
45°	751	796	906	1028	1074	574
55°	432	462	545	540	499	391
65°	272	276	291	282	271	270
75°	146	148	157	160	154	155
85°	39	41	43	49	56	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1832.2	1832.2	1832.2	1832.2	1832.2
2.5°	1860.8	1838.0	1829.4	1838.0	1818.9
5°	1838.0	1838.9	1817.0	1835.1	1817.0
7.5°	1801.7	1814.1	1803.7	1831.3	1817.0
10°	1785.5	1786.5	1782.7	1811.3	1810.3
12.5°	1740.8	1743.6	1754.1	1797.0	1806.5
15°	1678.8	1697.9	1717.9	1785.5	1788.4
17.5°	1630.2	1653.1	1679.8	1752.2	1760.8
20°	1571.2	1580.7	1646.4	1710.3	1742.7
22.5°	1505.4	1523.5	1587.4	1673.1	1705.5
25°	1421.6	1455.9	1538.8	1636.9	1676.9
27.5°	1344.4	1384.4	1470.2	1579.7	1626.4
30°	1264.4	1310.1	1405.4	1513.0	1583.6
32.5°	1181.5	1238.6	1329.2	1453.0	1515.0
35°	1094.8	1153.8	1253.9	1386.3	1450.2
37.5°	1008.1	1065.2	1173.9	1315.8	1373.0
40°	916.6	972.8	1084.3	1228.2	1293.9
42.5°	837.5	886.1	1000.4	1123.4	1184.3
45°	750.8	796.5	906.1	1028.1	1073.8
47.5°	655.5	708.9	815.6	915.6	933.7
50°	567.9	623.1	725.1	783.2	769.9
52.5°	490.7	537.4	630.8	655.5	624.1
55°	431.6	462.1	545.0	540.2	499.3
57.5°	377.3	396.4	466.9	440.2	401.1
60°	341.1	349.7	392.6	367.8	344.0
62.5°	306.8	310.6	333.5	320.1	302.0
65°	271.5	276.3	290.6	282.0	270.6
67.5°	239.2	241.1	254.4	252.5	238.2
70°	206.8	209.6	218.2	222.0	213.4
72.5°	175.3	178.2	186.7	190.6	182.9
75°	145.8	147.7	157.2	160.1	154.4
77.5°	117.2	121.0	126.7	131.5	124.8
80°	89.6	91.5	97.2	102.9	100.0
82.5°	62.9	65.7	69.6	77.2	79.1
85°	39.1	41.0	42.9	48.6	56.2
87.5°	15.2	16.2	19.1	21.0	27.6
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	14.03	15.51	14.40	15.83	16.14	14.69	16.17	15.05	16.48	16.79
	3H	15.64	16.96	16.01	17.29	17.65	16.12	17.45	16.50	17.78	18.14
	4H	16.25	17.49	16.65	17.84	18.22	16.73	17.97	17.13	18.32	18.70
	6H	16.72	17.87	17.14	18.24	18.63	17.21	18.36	17.63	18.73	19.12
	8H	16.87	17.97	17.30	18.36	18.76	17.41	18.50	17.84	18.89	19.29
	12H	16.97	18.02	17.41	18.40	18.83	17.58	18.62	18.01	19.00	19.43
4H	2H	14.66	15.90	15.06	16.25	16.63	15.18	16.42	15.58	16.77	17.15
	3H	16.48	17.50	16.89	17.91	18.31	16.88	17.90	17.29	18.31	18.71
	4H	17.21	18.14	17.65	18.56	19.00	17.63	18.56	18.06	18.97	19.41
	6H	17.81	18.62	18.27	19.06	19.52	18.27	19.07	18.72	19.51	19.97
	8H	18.01	18.76	18.47	19.21	19.67	18.52	19.27	18.98	19.72	20.19
	12H	18.15	18.82	18.63	19.30	19.77	18.74	19.42	19.23	19.90	20.37
8H	4H	17.53	18.29	18.00	18.73	19.20	17.90	18.65	18.36	19.10	19.57
	6H	18.26	18.88	18.75	19.37	19.85	18.67	19.30	19.17	19.79	20.27
	8H	18.53	19.09	19.04	19.60	20.09	19.02	19.58	19.53	20.09	20.58
	12H	18.75	19.24	19.26	19.74	20.30	19.34	19.83	19.85	20.33	20.89
12H	4H	17.57	18.24	18.05	18.72	19.19	17.92	18.59	18.40	19.07	19.54
	6H	18.32	18.88	18.84	19.39	19.88	18.72	19.28	19.24	19.79	20.28
	8H	18.65	19.15	19.16	19.64	20.21	19.13	19.62	19.64	20.12	20.68