

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: P895327

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-14)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-AOL-UNV-CC93-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

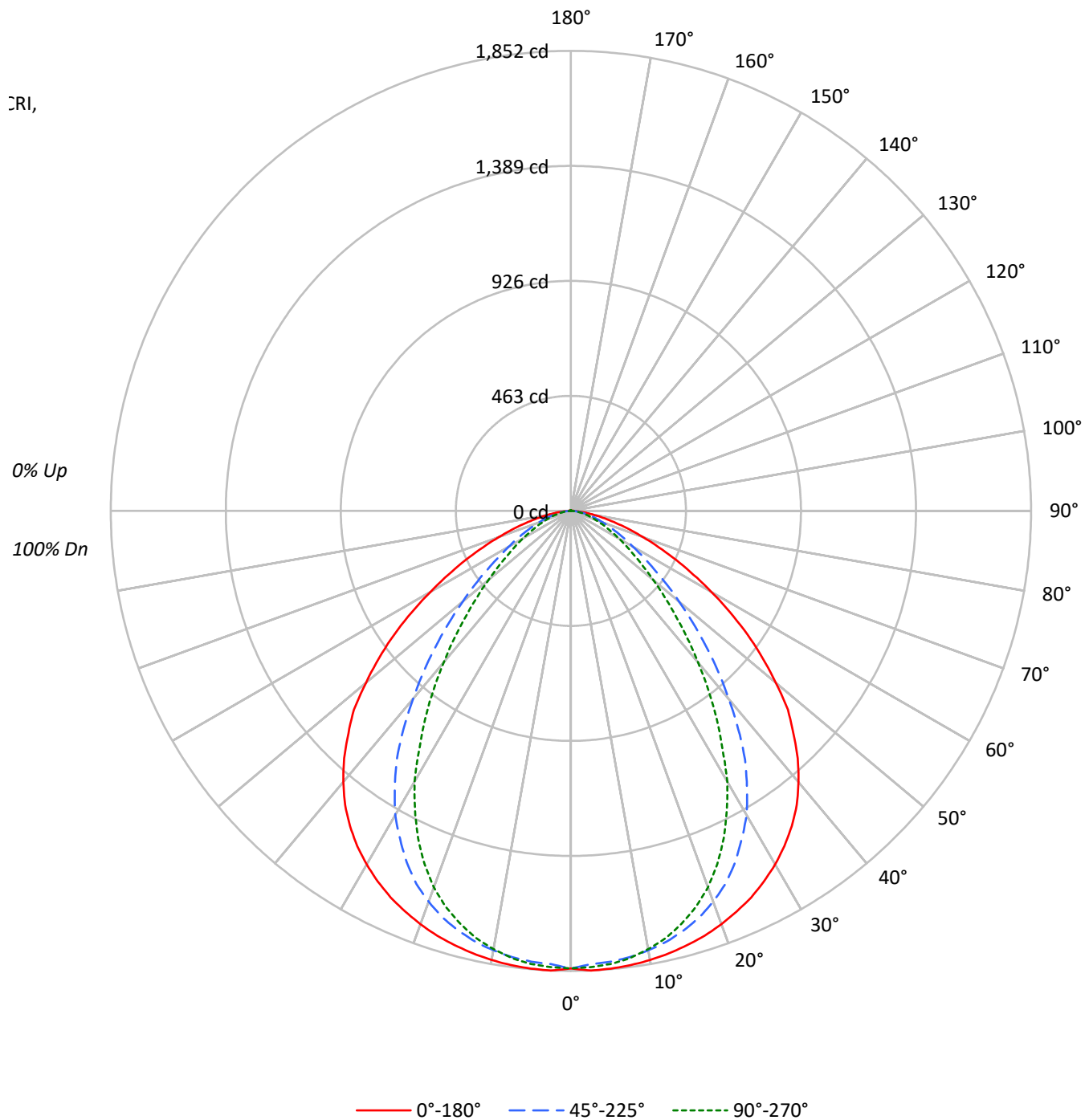
Lumens per Lamp: N/A
Luminaire Lumens: 3679.1 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	85	100	93	88	84	90	85	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	73	70		76
4	87	77	69	63	85	76	68	63	73	67	62		71	66	61		69
5	81	70	62	56	79	69	61	55	66	60	55		65	59	54		63
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53
8	66	53	46	40	64	53	45	40	51	45	40		50	44	40		49
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46
10	58	46	38	34	57	45	38	33	44	38	33		43	37	33		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9353	9353	9353
5°	9429	9287	9335
10°	9468	9264	9239
15°	9517	9198	9045
20°	9568	9048	8714
25°	9622	8754	8151
30°	9639	8294	7380
35°	9607	7576	6348
40°	9447	6557	5275
45°	9096	5510	4269
50°	8511	4487	3419
55°	7691	3606	2741
60°	6633	2935	2270
65°	5612	2444	1866
70°	4581	2079	1584
75°	3669	1752	1348
80°	2857	1497	1158
85°	2214	1323	1049

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	4.7
10°-20°	496.3	13.5
20°-30°	723.4	19.7
30°-40°	779.7	21.2
40°-50°	653.7	17.8
50°-60°	442.5	12.0
60°-70°	252.3	6.9
70°-80°	115.4	3.1
80°-90°	30.2	0.8
90°-100°	3.7	0.1
100°-110°	2.5	0.1
110°-120°	1.4	0.0
120°-130°	0.8	0.0
130°-140°	0.8	0.0
140°-150°	0.7	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	1394.1	37.9
0°-40°	2173.8	59.1
0°-60°	3270.0	88.9
0°-90°	3668.0	99.7
90°-120°	7.7	0.2
90°-150°	10.0	0.3
90°-180°	11.0	0.3
0°-180°	3679.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1850	1844	1822	1836	1831	176
15°	1810	1794	1749	1738	1720	511
25°	1717	1672	1562	1490	1454	791
35°	1550	1433	1222	1072	1024	967
45°	1266	1057	767	632	594	975
55°	869	636	407	330	310	774
65°	467	325	203	165	155	466
75°	187	137	89	73	69	204
85°	38	32	23	19	18	44
90°	5	5	3	3	2	5
95°	8	5	3	2	2	6
105°	5	4	2	1	0	6
115°	3	2	1	0	0	3
125°	1	1	1	0	0	1
135°	0	1	1	1	0	1
145°	1	1	1	1	1	1
155°	1	1	1	2	2	1
165°	1	2	2	2	2	0
175°	2	2	2	2	2	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.7	1841.7	1841.7	1841.7	1841.7
2.5°	1852.3	1847.5	1826.4	1843.8	1838.5
5°	1849.6	1843.8	1821.6	1836.4	1831.1
7.5°	1844.4	1837.0	1812.1	1823.2	1816.3
10°	1835.9	1826.9	1796.3	1802.6	1791.5
12.5°	1824.3	1813.2	1776.7	1775.1	1761.9
15°	1810.0	1794.2	1749.3	1737.6	1720.2
17.5°	1792.6	1772.5	1716.5	1693.3	1672.1
20°	1770.4	1744.5	1674.2	1637.3	1612.4
22.5°	1745.0	1710.2	1625.1	1565.9	1539.0
25°	1717.0	1671.6	1562.2	1490.4	1454.5
27.5°	1682.2	1625.1	1489.3	1396.3	1359.4
30°	1643.6	1571.2	1414.3	1295.4	1258.4
32.5°	1599.7	1509.4	1318.7	1186.6	1134.8
35°	1549.6	1432.8	1222.0	1072.5	1023.9
37.5°	1493.0	1353.0	1106.3	957.3	908.2
40°	1424.9	1258.4	989.0	841.6	795.6
42.5°	1351.4	1162.3	876.5	731.7	692.1
45°	1266.4	1056.6	767.1	632.4	594.4
47.5°	1184.5	949.9	664.6	541.5	510.4
50°	1077.2	836.3	567.9	458.6	432.7
52.5°	972.6	731.2	485.5	392.0	367.7
55°	868.6	635.6	407.3	330.2	309.6
57.5°	758.7	542.1	342.9	279.5	265.7
60°	653.0	461.2	289.0	234.6	223.5
62.5°	556.3	386.7	244.6	198.1	187.6
65°	467.0	324.9	203.4	164.8	155.3
67.5°	382.5	267.3	169.6	137.4	130.5
70°	308.5	216.6	140.0	113.1	106.7
72.5°	244.6	173.3	112.0	92.5	85.6
75°	187.0	137.4	89.3	72.9	68.7
77.5°	139.5	103.5	68.7	56.0	52.8
80°	97.7	75.0	51.2	42.3	39.6
82.5°	66.6	51.8	35.9	29.6	28.0
85°	38.0	32.2	22.7	19.0	18.0
87.5°	19.5	16.9	12.2	9.0	7.9
90°	5.3	5.3	3.2	2.6	2.1
92.5°	8.5	4.8	3.2	2.1	1.6
95°	7.9	4.8	2.6	1.6	1.6
97.5°	7.4	4.8	2.1	1.6	1.1
100°	6.9	4.2	2.1	1.1	1.1
102.5°	6.3	4.2	2.1	1.1	1.1
105°	5.3	3.7	1.6	1.1	0.5
107.5°	4.8	3.2	1.6	1.1	0.5
110°	3.7	2.6	1.6	1.1	0.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	2.6	1.1	1.1	0.5
115°	2.6	2.1	1.1	0.5	0.5
117.5°	2.1	1.6	1.1	0.5	0.5
120°	1.6	1.6	1.1	0.5	0.5
122.5°	1.6	1.1	1.1	0.5	0.5
125°	1.1	1.1	1.1	0.5	0.5
127.5°	1.1	1.1	1.1	0.5	0.5
130°	1.1	1.1	1.1	0.5	0.5
132.5°	1.1	1.1	1.1	1.1	0.5
135°	0.5	1.1	1.1	1.1	0.5
137.5°	1.1	1.1	1.1	1.1	1.1
140°	1.1	1.1	1.1	1.1	1.1
142.5°	1.1	1.1	1.1	1.1	1.1
145°	1.1	1.1	1.1	1.1	1.1
147.5°	1.1	1.1	1.1	1.1	1.1
150°	1.1	1.1	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.6	1.6
157.5°	1.1	1.1	1.6	1.6	1.6
160°	1.1	1.1	1.6	1.6	1.6
162.5°	1.1	1.1	1.6	1.6	1.6
165°	1.1	1.6	1.6	1.6	1.6
167.5°	1.1	1.6	1.6	1.6	2.1
170°	1.1	1.6	1.6	2.1	2.1
172.5°	1.1	1.6	1.6	2.1	2.1
175°	1.6	1.6	1.6	2.1	2.1
177.5°	1.6	1.6	1.6	2.1	2.1
180°	1.6	1.6	1.6	1.6	1.6

(END OF REPORT)