

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: P895326

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC93-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895326
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

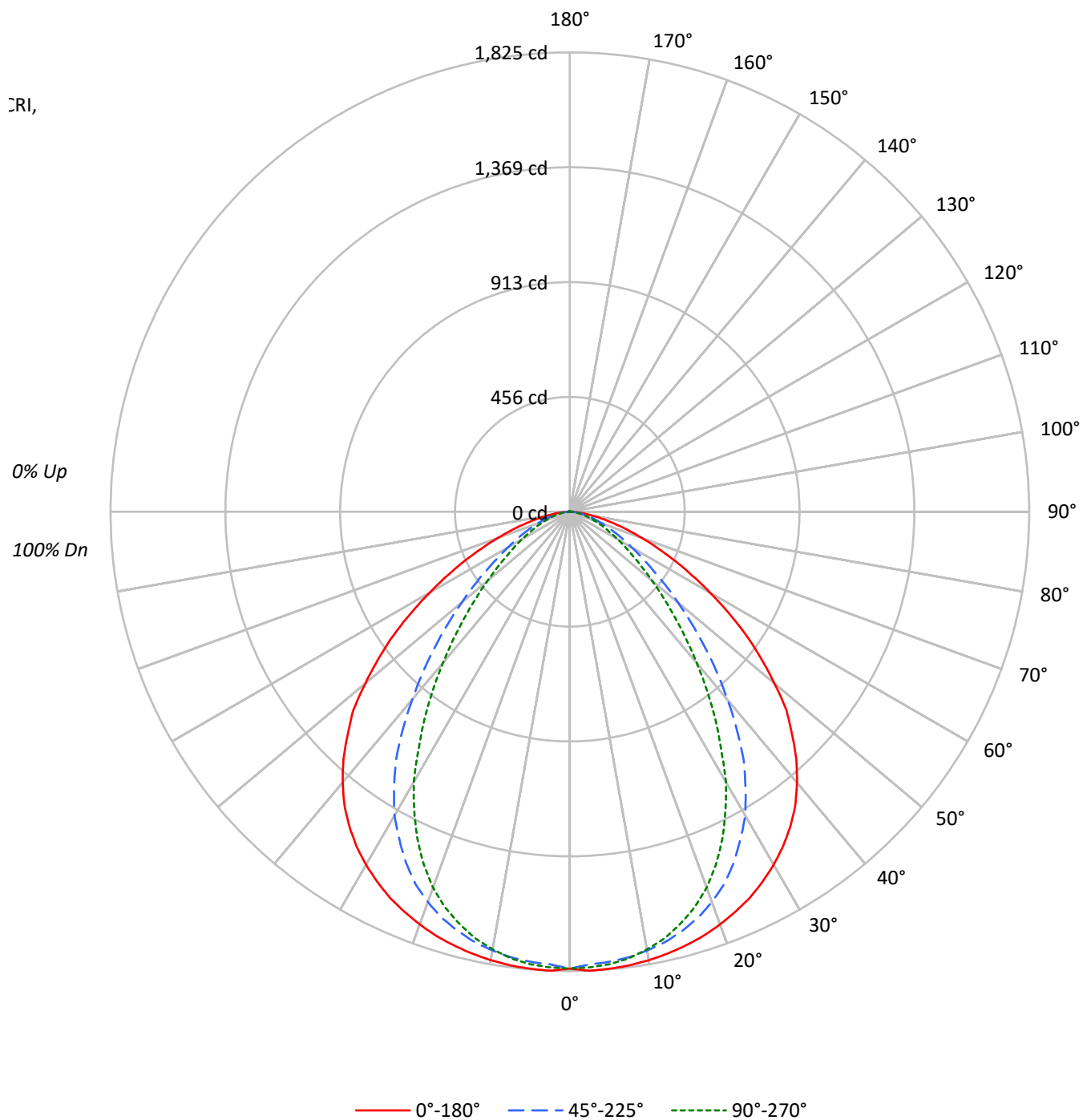
Lumens per Lamp: N/A
Luminaire Lumens: 3624.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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	67	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°	9216	9216	9216
5°	9291	9151	9199
10°	9329	9127	9103
15°	9377	9062	8912
20°	9428	8916	8587
25°	9480	8626	8031
30°	9497	8172	7272
35°	9466	7465	6255
40°	9308	6461	5198
45°	8962	5429	4206
50°	8386	4421	3368
55°	7578	3554	2701
60°	6535	2892	2237
65°	5530	2408	1839
70°	4514	2048	1562
75°	3616	1727	1328
80°	2816	1477	1141
85°	2185	1305	1031

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8962 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	4.7
10°-20°	489.0	13.5
20°-30°	712.8	19.7
30°-40°	768.3	21.2
40°-50°	644.1	17.8
50°-60°	436.0	12.0
60°-70°	248.6	6.9
70°-80°	113.7	3.1
80°-90°	29.8	0.8
90°-100°	3.7	0.1
100°-110°	2.5	0.1
110°-120°	1.3	0.0
120°-130°	0.8	0.0
130°-140°	0.7	0.0
140°-150°	0.6	0.0
150°-160°	0.5	0.0
160°-170°	0.4	0.0
170°-180°	0.2	0.0
0°-30°	1373.6	37.9
0°-40°	2141.9	59.1
0°-60°	3222.0	88.9
0°-90°	3614.1	99.7
90°-120°	7.5	0.2
90°-150°	9.6	0.3
90°-180°	11.0	0.3
0°-180°	3624.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1822	1817	1795	1810	1804	174
15°	1783	1768	1724	1712	1695	504
25°	1692	1647	1539	1468	1433	779
35°	1527	1412	1204	1057	1009	953
45°	1248	1041	756	623	586	960
55°	856	626	401	325	305	762
65°	460	320	200	162	153	459
75°	184	135	88	72	68	201
85°	38	32	22	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	0
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°	1814.7	1814.7	1814.7	1814.7	1814.7
2.5°	1825.1	1820.4	1799.6	1816.8	1811.6
5°	1822.5	1816.8	1794.9	1809.5	1804.3
7.5°	1817.3	1810.0	1785.5	1796.5	1789.7
10°	1809.0	1800.1	1769.9	1776.2	1765.2
12.5°	1797.5	1786.6	1750.6	1749.1	1736.1
15°	1783.4	1767.8	1723.6	1712.1	1694.9
17.5°	1766.3	1746.5	1691.3	1668.4	1647.6
20°	1744.4	1718.9	1649.7	1613.2	1588.8
22.5°	1719.4	1685.1	1601.2	1542.9	1516.4
25°	1691.8	1647.1	1539.3	1468.5	1433.1
27.5°	1657.5	1601.2	1467.5	1375.8	1339.4
30°	1619.5	1548.1	1393.5	1276.4	1240.0
32.5°	1576.3	1487.2	1299.3	1169.2	1118.2
35°	1526.8	1411.8	1204.1	1056.7	1008.8
37.5°	1471.1	1333.2	1090.1	943.3	894.8
40°	1404.0	1240.0	974.5	829.3	784.0
42.5°	1331.6	1145.2	863.6	721.0	681.9
45°	1247.8	1041.1	755.9	623.1	585.6
47.5°	1167.1	936.0	654.9	533.6	502.9
50°	1061.4	824.0	559.6	451.8	426.3
52.5°	958.4	720.5	478.4	386.3	362.3
55°	855.8	626.2	401.4	325.4	305.0
57.5°	747.5	534.1	337.8	275.4	261.8
60°	643.4	454.5	284.7	231.1	220.2
62.5°	548.2	381.1	241.0	195.2	184.8
65°	460.2	320.1	200.4	162.4	153.0
67.5°	376.9	263.4	167.1	135.3	128.6
70°	304.0	213.4	137.9	111.4	105.2
72.5°	241.0	170.7	110.4	91.1	84.3
75°	184.3	135.3	88.0	71.8	67.7
77.5°	137.4	102.0	67.7	55.2	52.1
80°	96.3	73.9	50.5	41.6	39.0
82.5°	65.6	51.0	35.4	29.2	27.6
85°	37.5	31.8	22.4	18.7	17.7
87.5°	19.3	16.7	12.0	8.8	7.8
90°	5.2	5.2	3.1	2.6	2.1
92.5°	8.3	4.7	3.1	2.1	1.6
95°	7.8	4.7	2.6	1.6	1.6
97.5°	7.3	4.7	2.1	1.6	1.0
100°	6.8	4.2	2.1	1.0	1.0
102.5°	6.2	4.2	2.1	1.0	1.0
105°	5.2	3.6	1.6	1.0	0.5
107.5°	4.7	3.1	1.6	1.0	0.5
110°	3.6	2.6	1.6	1.0	0.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	2.6	1.0	1.0	0.5
115°	2.6	2.1	1.0	0.5	0.5
117.5°	2.1	1.6	1.0	0.5	0.5
120°	1.6	1.6	1.0	0.5	0.5
122.5°	1.6	1.0	1.0	0.5	0.5
125°	1.0	1.0	1.0	0.5	0.5
127.5°	1.0	1.0	1.0	0.5	0.5
130°	1.0	1.0	1.0	0.5	0.5
132.5°	1.0	1.0	1.0	1.0	0.5
135°	0.5	1.0	1.0	1.0	0.5
137.5°	1.0	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0
145°	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.6	1.6
157.5°	1.0	1.0	1.6	1.6	1.6
160°	1.0	1.0	1.6	1.6	1.6
162.5°	1.0	1.0	1.6	1.6	1.6
165°	1.0	1.6	1.6	1.6	1.6
167.5°	1.0	1.6	1.6	1.6	2.1
170°	1.0	1.6	1.6	2.1	2.1
172.5°	1.0	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)