

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: P895288

Luminaire Tested: 8TMB-SC3-A-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-16)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-A-UNV-CC93-HI-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

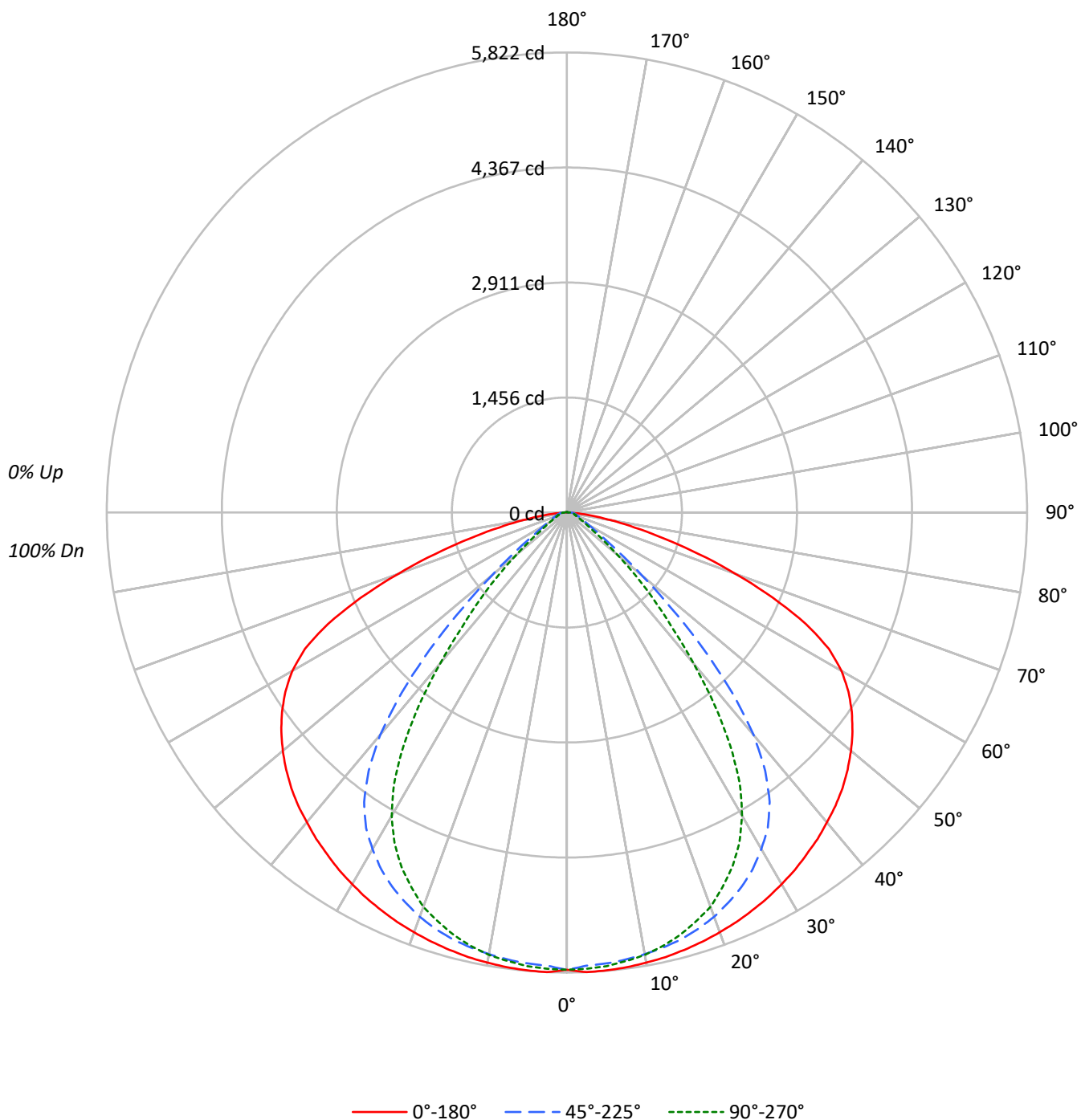
Lumens per Lamp: N/A
Luminaire Lumens: 11863.0 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 101.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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	105	102	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		84
3	95	86	79	74	93	85	78	73	82	76	72		79	74	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	62		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	55		64
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	66	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	38	61	50	42	37	48	42	37		47	41	37		46
10	59	46	39	34	57	46	39	34	45	39	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29390	29390	29390
5°	29650	29209	29380
10°	29836	29274	29315
15°	30132	29400	29097
20°	30558	29424	28706
25°	31128	29297	27736
30°	31852	28838	25993
35°	32762	27728	22348
40°	33929	24353	16519
45°	35423	17573	11110
50°	37069	9818	6630
55°	38962	5076	3629
60°	40760	3302	2570
65°	40063	2713	2039
70°	33788	2496	1902
75°	24854	2545	2043
80°	16577	2998	2577
85°	9050	4854	3922

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 41107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.5	4.6
10°-20°	1587.9	13.4
20°-30°	2415.5	20.4
30°-40°	2758.7	23.3
40°-50°	2225.5	18.8
50°-60°	1218.2	10.3
60°-70°	642.3	5.4
70°-80°	315.0	2.7
80°-90°	111.0	0.9
90°-100°	23.8	0.2
100°-110°	3.3	0.0
110°-120°	2.0	0.0
120°-130°	1.8	0.0
130°-140°	1.9	0.0
140°-150°	2.3	0.0
150°-160°	2.1	0.0
160°-170°	1.6	0.0
170°-180°	0.6	0.0
0°-30°	4552.9	38.4
0°-40°	7311.6	61.6
0°-60°	10755.3	90.7
0°-90°	11823.5	99.7
90°-120°	29.1	0.2
90°-150°	35.2	0.3
90°-180°	39.0	0.3
0°-180°	11863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5787	5787	5787	5787	5787	
5°	5816	5798	5729	5781	5763	554
15°	5731	5696	5592	5582	5534	1622
25°	5555	5475	5228	5050	4950	2566
35°	5284	5062	4472	3864	3604	3315
45°	4932	4237	2447	1672	1547	3807
55°	4400	1811	573	444	410	3926
65°	3334	418	226	182	170	3224
75°	1267	235	130	109	104	1399
85°	155	123	83	75	67	214
90°	6	64	51	45	42	9
95°	5	8	18	27	26	4
105°	2	0	2	3	3	2
115°	2	2	2	3	2	2
125°	2	2	2	3	2	1
135°	2	2	3	3	2	1
145°	3	3	3	5	3	2
155°	3	3	5	6	5	1
165°	3	5	6	6	6	1
175°	5	5	6	8	6	0
180°	6	6	6	6	6	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5787.0	5787.0	5787.0	5787.0	5787.0
2.5°	5822.2	5806.2	5740.6	5796.6	5780.6
5°	5815.8	5798.2	5729.3	5780.6	5763.0
7.5°	5804.6	5782.2	5706.9	5753.4	5726.1
10°	5785.4	5763.0	5676.5	5713.3	5684.5
12.5°	5763.0	5732.5	5636.5	5655.7	5618.9
15°	5730.9	5695.7	5591.6	5582.0	5534.0
17.5°	5695.7	5652.5	5526.0	5484.4	5426.7
20°	5654.1	5601.2	5444.3	5362.7	5311.4
22.5°	5607.7	5538.8	5341.8	5216.9	5136.9
25°	5554.8	5474.7	5228.1	5050.4	4949.5
27.5°	5498.8	5389.9	5090.4	4856.7	4720.5
30°	5431.5	5300.2	4917.5	4602.1	4432.3
32.5°	5364.3	5188.1	4731.8	4273.8	4072.0
35°	5284.2	5061.6	4472.3	3863.9	3604.5
37.5°	5208.9	4909.5	4121.7	3349.9	3071.2
40°	5117.7	4730.2	3673.3	2759.0	2491.6
42.5°	5031.2	4522.0	3092.1	2188.9	1956.8
45°	4931.9	4237.0	2446.7	1671.7	1546.8
47.5°	4816.6	3847.9	1779.0	1244.2	1165.7
50°	4691.7	3313.0	1242.6	903.1	839.1
52.5°	4554.0	2590.9	837.5	627.7	592.5
55°	4400.3	1811.0	573.3	443.6	409.9
57.5°	4222.6	1178.5	416.3	334.7	312.2
60°	4012.8	752.6	325.1	265.8	253.0
62.5°	3737.4	528.4	267.4	219.4	208.2
65°	3333.8	417.9	225.8	182.5	169.7
67.5°	2823.0	353.9	193.8	153.7	145.7
70°	2275.4	307.4	168.1	132.9	128.1
72.5°	1748.6	269.0	145.7	118.5	115.3
75°	1266.6	235.4	129.7	108.9	104.1
77.5°	877.5	203.4	115.3	97.7	94.5
80°	566.8	176.1	102.5	89.7	88.1
82.5°	325.1	147.3	92.9	86.5	84.9
85°	155.3	123.3	83.3	75.3	67.3
87.5°	49.6	91.3	65.7	57.6	51.2
90°	6.4	64.1	51.2	44.8	41.6
92.5°	6.4	35.2	36.8	36.8	35.2
95°	4.8	8.0	17.6	27.2	25.6
97.5°	4.8	3.2	11.2	19.2	19.2
100°	3.2	1.6	4.8	12.8	12.8
102.5°	3.2	1.6	1.6	8.0	8.0
105°	1.6	0.0	1.6	3.2	3.2
107.5°	1.6	1.6	1.6	3.2	1.6
110°	1.6	1.6	1.6	3.2	1.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	1.6	1.6	3.2	1.6
115°	1.6	1.6	1.6	3.2	1.6
117.5°	1.6	1.6	1.6	3.2	1.6
120°	1.6	1.6	1.6	3.2	1.6
122.5°	1.6	1.6	1.6	3.2	1.6
125°	1.6	1.6	1.6	3.2	1.6
127.5°	1.6	1.6	1.6	3.2	1.6
130°	1.6	1.6	3.2	3.2	1.6
132.5°	1.6	1.6	3.2	3.2	1.6
135°	1.6	1.6	3.2	3.2	1.6
137.5°	1.6	1.6	3.2	3.2	3.2
140°	3.2	1.6	3.2	3.2	3.2
142.5°	3.2	3.2	3.2	4.8	3.2
145°	3.2	3.2	3.2	4.8	3.2
147.5°	3.2	3.2	4.8	4.8	3.2
150°	3.2	3.2	4.8	4.8	3.2
152.5°	3.2	3.2	4.8	4.8	4.8
155°	3.2	3.2	4.8	6.4	4.8
157.5°	3.2	3.2	4.8	6.4	4.8
160°	3.2	4.8	6.4	6.4	4.8
162.5°	3.2	4.8	6.4	6.4	6.4
165°	3.2	4.8	6.4	6.4	6.4
167.5°	4.8	4.8	6.4	8.0	6.4
170°	4.8	4.8	6.4	8.0	6.4
172.5°	4.8	4.8	6.4	8.0	6.4
175°	4.8	4.8	6.4	8.0	6.4
177.5°	4.8	4.8	6.4	8.0	8.0
180°	6.4	6.4	6.4	6.4	6.4

(END OF REPORT)