

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: P895297

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ACL-UNV-CC83-HI-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

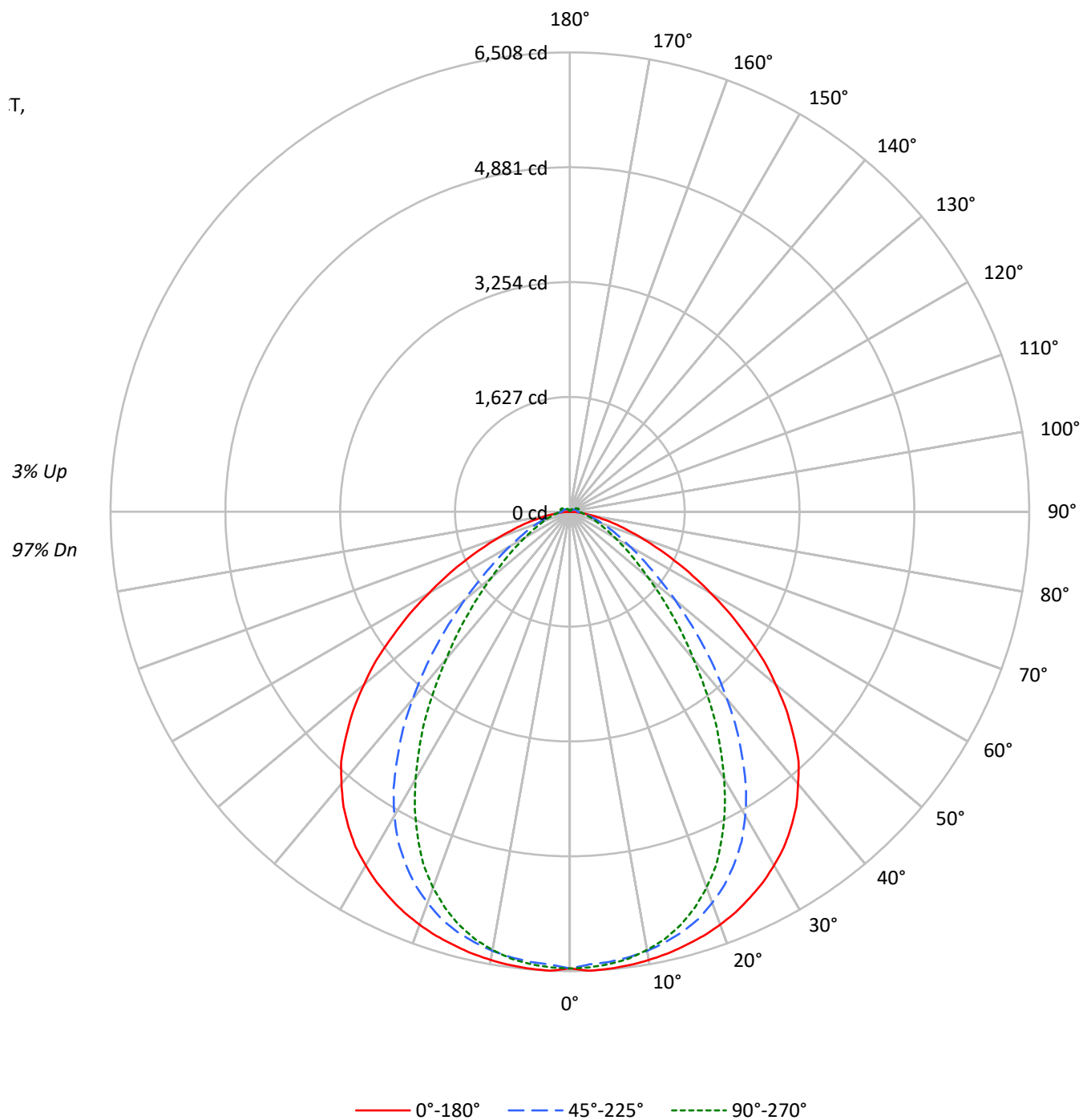
Lumens per Lamp: N/A
Luminaire Lumens: 13274.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82	79	76	74
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74	70	66	64
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67	62	59	57
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56	51	47	45
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52	46	42	40
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48	42	38	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32863	32863	32863
5°	33103	31991	31920
10°	33192	31316	30800
15°	33324	30521	29398
20°	33518	29417	27479
25°	33653	27877	24925
30°	33725	25751	21717
35°	33623	22772	18165
40°	33074	19250	14296
45°	31853	15552	11085
50°	29712	12078	8316
55°	26662	9256	6361
60°	22976	7124	4846
65°	19237	5628	3852
70°	15477	4523	3147
75°	12443	3653	2680
80°	9278	3025	2344
85°	6684	2583	2160

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 31853 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.9	4.6
10°-20°	1746.0	13.2
20°-30°	2545.5	19.2
30°-40°	2734.9	20.6
40°-50°	2276.2	17.1
50°-60°	1522.4	11.5
60°-70°	871.5	6.6
70°-80°	433.3	3.3
80°-90°	177.3	1.3
90°-100°	102.9	0.8
100°-110°	90.8	0.7
110°-120°	66.6	0.5
120°-130°	42.9	0.3
130°-140°	25.5	0.2
140°-150°	14.4	0.1
150°-160°	7.2	0.1
160°-170°	3.1	0.0
170°-180°	0.7	0.0
0°-30°	4904.5	36.9
0°-40°	7639.4	57.6
0°-60°	11437.9	86.2
0°-90°	12920.0	97.3
90°-120°	260.3	2.0
90°-150°	343.0	2.6
90°-180°	354.0	2.7
0°-180°	13274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6471	6471	6471	6471	6471	
5°	6499	6478	6401	6454	6433	619
15°	6356	6312	6161	6116	6061	1797
25°	6035	5891	5506	5229	5098	2783
35°	5463	5066	4262	3738	3573	3412
45°	4481	3724	2662	2154	2027	3445
55°	3056	2205	1387	1097	1040	2737
65°	1637	1110	698	566	536	1636
75°	659	480	345	306	296	707
85°	128	144	160	168	170	150
90°	19	60	110	130	134	18
95°	28	60	108	130	134	22
105°	19	49	96	126	132	20
115°	9	28	76	104	113	9
125°	6	19	51	76	83	4
135°	4	15	34	51	57	3
145°	4	11	23	34	40	2
155°	4	9	15	21	26	2
165°	6	8	11	13	17	2
175°	6	6	8	8	8	1
180°	6	6	6	6	6	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6470.7	6470.7	6470.7	6470.7	6470.7
2.5°	6508.5	6491.5	6417.9	6476.4	6459.4
5°	6499.1	6478.3	6400.9	6453.7	6433.0
7.5°	6478.3	6455.6	6366.9	6408.4	6385.8
10°	6448.1	6419.8	6317.8	6338.6	6302.7
12.5°	6410.3	6374.5	6248.0	6242.3	6202.7
15°	6355.6	6312.2	6161.2	6115.9	6061.1
17.5°	6299.0	6234.8	6049.8	5957.3	5881.8
20°	6225.3	6140.4	5896.9	5759.1	5664.7
22.5°	6140.4	6025.3	5725.1	5513.7	5415.6
25°	6034.7	5891.2	5506.2	5228.7	5098.4
27.5°	5921.4	5730.8	5268.3	4904.0	4754.9
30°	5785.5	5549.6	4972.0	4534.0	4373.6
32.5°	5642.1	5319.3	4647.3	4145.2	3969.7
35°	5462.8	5066.4	4262.2	3737.5	3573.3
37.5°	5268.3	4764.3	3880.9	3320.3	3135.3
40°	5032.4	4445.3	3461.9	2906.9	2723.8
42.5°	4798.3	4098.0	3059.8	2533.2	2374.6
45°	4481.2	3724.3	2661.5	2153.8	2027.3
47.5°	4162.2	3324.1	2280.2	1846.1	1721.5
50°	3807.3	2931.5	1946.1	1549.7	1445.9
52.5°	3461.9	2565.3	1642.2	1310.0	1221.3
55°	3056.0	2204.7	1387.4	1096.7	1040.1
57.5°	2689.8	1870.6	1170.3	928.7	875.9
60°	2302.9	1585.6	979.7	785.2	736.2
62.5°	1963.1	1332.7	824.9	666.3	632.4
65°	1636.6	1109.9	698.4	566.3	536.1
67.5°	1336.4	926.8	588.9	483.2	458.7
70°	1072.2	751.3	496.4	411.5	394.5
72.5°	843.8	604.0	413.4	354.9	339.8
75°	658.8	479.5	345.4	305.8	296.4
77.5°	475.7	373.7	288.8	262.4	256.7
80°	336.0	283.1	237.8	226.5	222.7
82.5°	222.7	205.7	196.3	196.3	194.4
85°	128.4	143.5	160.4	168.0	169.9
87.5°	66.1	96.3	128.4	143.5	145.3
90°	18.9	60.4	109.5	130.2	134.0
92.5°	28.3	60.4	107.6	130.2	134.0
95°	28.3	60.4	107.6	130.2	134.0
97.5°	26.4	58.5	107.6	130.2	134.0
100°	24.5	54.7	105.7	130.2	134.0
102.5°	20.8	52.9	101.9	128.4	134.0
105°	18.9	49.1	96.3	126.5	132.1
107.5°	17.0	41.5	90.6	120.8	128.4
110°	13.2	35.9	86.8	115.1	124.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.3	32.1	81.2	109.5	118.9
115°	9.4	28.3	75.5	103.8	113.3
117.5°	7.6	26.4	68.0	96.3	105.7
120°	5.7	24.5	62.3	90.6	98.2
122.5°	5.7	22.7	54.7	83.1	90.6
125°	5.7	18.9	51.0	75.5	83.1
127.5°	3.8	17.0	45.3	68.0	75.5
130°	3.8	17.0	41.5	62.3	68.0
132.5°	3.8	15.1	37.8	56.6	62.3
135°	3.8	15.1	34.0	51.0	56.6
137.5°	3.8	13.2	30.2	47.2	52.9
140°	3.8	13.2	28.3	41.5	47.2
142.5°	3.8	11.3	24.5	39.6	43.4
145°	3.8	11.3	22.7	34.0	39.6
147.5°	3.8	11.3	20.8	32.1	35.9
150°	3.8	9.4	18.9	26.4	32.1
152.5°	3.8	9.4	17.0	24.5	30.2
155°	3.8	9.4	15.1	20.8	26.4
157.5°	3.8	9.4	15.1	18.9	22.7
160°	5.7	7.6	13.2	17.0	20.8
162.5°	5.7	7.6	11.3	15.1	18.9
165°	5.7	7.6	11.3	13.2	17.0
167.5°	5.7	7.6	9.4	11.3	13.2
170°	5.7	5.7	9.4	9.4	9.4
172.5°	5.7	5.7	7.6	9.4	7.6
175°	5.7	5.7	7.6	7.6	7.6
177.5°	5.7	5.7	7.6	7.6	7.6
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)