

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: P895301

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895301
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-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 3500K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

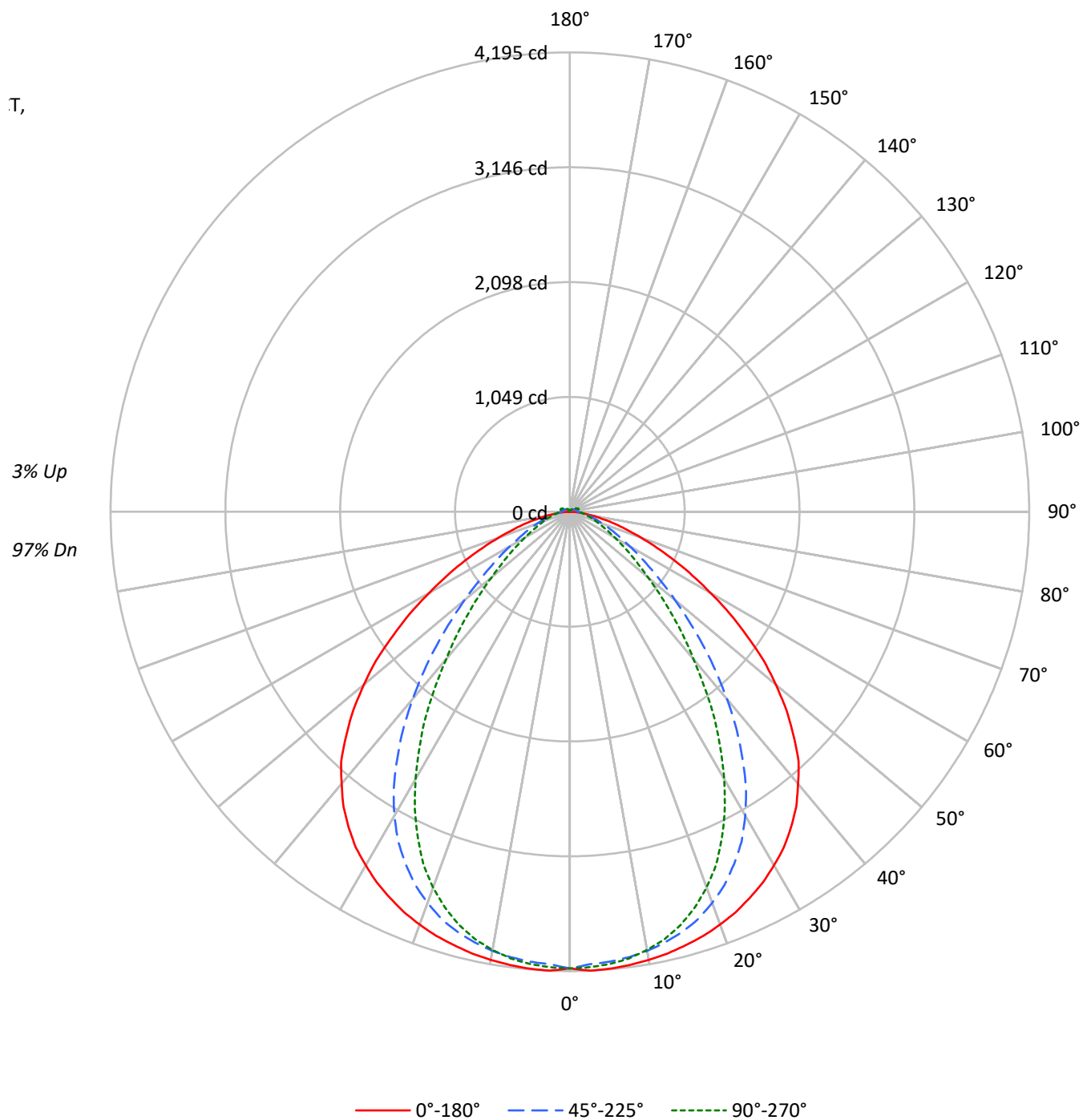
Lumens per Lamp: N/A
Luminaire Lumens: 8555.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21180	21180	21180
5°	21334	20618	20572
10°	21392	20183	19851
15°	21477	19670	18947
20°	21602	18959	17710
25°	21689	17966	16064
30°	21736	16596	13996
35°	21670	14677	11707
40°	21316	12407	9214
45°	20529	10023	7144
50°	19149	7785	5360
55°	17184	5966	4099
60°	14808	4591	3123
65°	12398	3627	2482
70°	9975	2916	2028
75°	8019	2355	1727
80°	5978	1950	1512
85°	4305	1665	1392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20529 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.0	4.6
10°-20°	1125.3	13.2
20°-30°	1640.6	19.2
30°-40°	1762.6	20.6
40°-50°	1467.0	17.1
50°-60°	981.2	11.5
60°-70°	561.7	6.6
70°-80°	279.3	3.3
80°-90°	114.3	1.3
90°-100°	66.3	0.8
100°-110°	58.5	0.7
110°-120°	42.9	0.5
120°-130°	27.6	0.3
130°-140°	16.4	0.2
140°-150°	9.3	0.1
150°-160°	4.6	0.1
160°-170°	2.0	0.0
170°-180°	0.4	0.0
0°-30°	3160.9	36.9
0°-40°	4923.5	57.6
0°-60°	7371.7	86.2
0°-90°	8326.9	97.3
90°-120°	167.7	2.0
90°-150°	221.0	2.6
90°-180°	228.0	2.7
0°-180°	8555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4170	4170	4170	4170	4170	
5°	4189	4175	4125	4159	4146	399
15°	4096	4068	3971	3942	3906	1158
25°	3889	3797	3549	3370	3286	1794
35°	3521	3265	2747	2409	2303	2199
45°	2888	2400	1715	1388	1307	2220
55°	1970	1421	894	707	670	1764
65°	1055	715	450	365	346	1054
75°	425	309	223	197	191	455
85°	83	92	103	108	110	97
90°	12	39	71	84	86	12
95°	18	39	69	84	86	14
105°	12	32	62	82	85	13
115°	6	18	49	67	73	6
125°	4	12	33	49	54	3
135°	2	10	22	33	36	2
145°	2	7	15	22	26	2
155°	2	6	10	13	17	1
165°	4	5	7	8	11	1
175°	4	4	5	5	5	0
180°	4	4	4	4	4	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4170.3	4170.3	4170.3	4170.3	4170.3
2.5°	4194.7	4183.7	4136.3	4174.0	4163.0
5°	4188.6	4175.2	4125.3	4159.4	4146.0
7.5°	4175.2	4160.6	4103.4	4130.2	4115.6
10°	4155.7	4137.5	4071.8	4085.2	4062.1
12.5°	4131.4	4108.3	4026.8	4023.1	3997.6
15°	4096.1	4068.2	3970.8	3941.6	3906.4
17.5°	4059.6	4018.3	3899.1	3839.4	3790.8
20°	4012.2	3957.4	3800.5	3711.7	3650.9
22.5°	3957.4	3883.2	3689.8	3553.6	3490.3
25°	3889.3	3796.9	3548.7	3369.9	3285.9
27.5°	3816.3	3693.5	3395.4	3160.6	3064.5
30°	3728.7	3576.7	3204.4	2922.2	2818.8
32.5°	3636.3	3428.2	2995.2	2671.6	2558.4
35°	3520.7	3265.2	2747.0	2408.8	2302.9
37.5°	3395.4	3070.6	2501.2	2139.9	2020.7
40°	3243.3	2865.0	2231.2	1873.5	1755.5
42.5°	3092.5	2641.1	1972.0	1632.6	1530.4
45°	2888.1	2400.3	1715.3	1388.1	1306.6
47.5°	2682.5	2142.4	1469.6	1189.8	1109.5
50°	2453.8	1889.3	1254.3	998.8	931.9
52.5°	2231.2	1653.3	1058.4	844.3	787.1
55°	1969.6	1420.9	894.2	706.8	670.3
57.5°	1733.6	1205.6	754.3	598.5	564.5
60°	1484.2	1021.9	631.4	506.1	474.5
62.5°	1265.2	858.9	531.6	429.4	407.5
65°	1054.8	715.3	450.1	365.0	345.5
67.5°	861.3	597.3	379.6	311.4	295.6
70°	691.0	484.2	320.0	265.2	254.3
72.5°	543.8	389.3	266.4	228.7	219.0
75°	424.6	309.0	222.6	197.1	191.0
77.5°	306.6	240.9	186.1	169.1	165.5
80°	216.5	182.5	153.3	146.0	143.6
82.5°	143.6	132.6	126.5	126.5	125.3
85°	82.7	92.5	103.4	108.3	109.5
87.5°	42.6	62.0	82.7	92.5	93.7
90°	12.2	38.9	70.6	83.9	86.4
92.5°	18.2	38.9	69.3	83.9	86.4
95°	18.2	38.9	69.3	83.9	86.4
97.5°	17.0	37.7	69.3	83.9	86.4
100°	15.8	35.3	68.1	83.9	86.4
102.5°	13.4	34.1	65.7	82.7	86.4
105°	12.2	31.6	62.0	81.5	85.2
107.5°	10.9	26.8	58.4	77.9	82.7
110°	8.5	23.1	56.0	74.2	80.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.3	20.7	52.3	70.6	76.6
115°	6.1	18.2	48.7	66.9	73.0
117.5°	4.9	17.0	43.8	62.0	68.1
120°	3.6	15.8	40.1	58.4	63.3
122.5°	3.6	14.6	35.3	53.5	58.4
125°	3.6	12.2	32.8	48.7	53.5
127.5°	2.4	10.9	29.2	43.8	48.7
130°	2.4	10.9	26.8	40.1	43.8
132.5°	2.4	9.7	24.3	36.5	40.1
135°	2.4	9.7	21.9	32.8	36.5
137.5°	2.4	8.5	19.5	30.4	34.1
140°	2.4	8.5	18.2	26.8	30.4
142.5°	2.4	7.3	15.8	25.5	28.0
145°	2.4	7.3	14.6	21.9	25.5
147.5°	2.4	7.3	13.4	20.7	23.1
150°	2.4	6.1	12.2	17.0	20.7
152.5°	2.4	6.1	10.9	15.8	19.5
155°	2.4	6.1	9.7	13.4	17.0
157.5°	2.4	6.1	9.7	12.2	14.6
160°	3.6	4.9	8.5	10.9	13.4
162.5°	3.6	4.9	7.3	9.7	12.2
165°	3.6	4.9	7.3	8.5	10.9
167.5°	3.6	4.9	6.1	7.3	8.5
170°	3.6	3.6	6.1	6.1	6.1
172.5°	3.6	3.6	4.9	6.1	4.9
175°	3.6	3.6	4.9	4.9	4.9
177.5°	3.6	3.6	4.9	4.9	4.9
180°	3.6	3.6	3.6	3.6	3.6

(END OF REPORT)