

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: P895277

Luminaire Tested: 8TMB-SC3-A-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895277
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-CC83-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

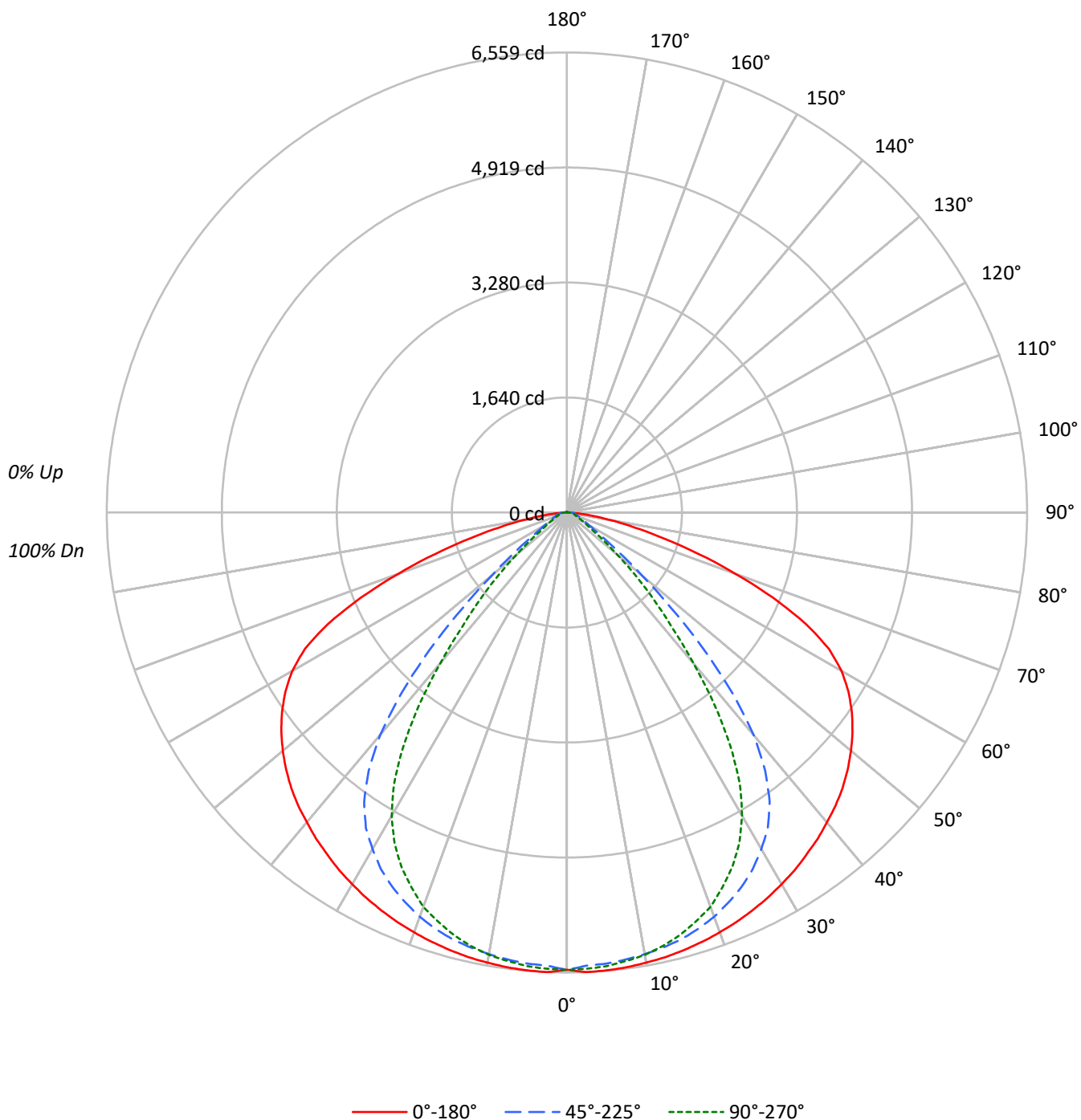
Lumens per Lamp: N/A
Luminaire Lumens: 13364.9 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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°	33112	33112	33112
5°	33404	32907	33100
10°	33613	32980	33027
15°	33948	33122	32781
20°	34428	33150	32341
25°	35069	33007	31248
30°	35885	32489	29284
35°	36910	31239	25177
40°	38225	27437	18610
45°	39908	19798	12517
50°	41763	11061	7469
55°	43895	5718	4089
60°	45921	3720	2895
65°	45137	3057	2298
70°	38066	2812	2143
75°	28001	2867	2302
80°	18677	3378	2901
85°	10198	5466	4417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 46312 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.1	4.6
10°-20°	1789.0	13.4
20°-30°	2721.3	20.4
30°-40°	3107.9	23.3
40°-50°	2507.3	18.8
50°-60°	1372.4	10.3
60°-70°	723.6	5.4
70°-80°	354.8	2.7
80°-90°	125.0	0.9
90°-100°	26.9	0.2
100°-110°	3.7	0.0
110°-120°	2.2	0.0
120°-130°	2.1	0.0
130°-140°	2.2	0.0
140°-150°	2.6	0.0
150°-160°	2.3	0.0
160°-170°	1.8	0.0
170°-180°	0.7	0.0
0°-30°	5129.4	38.4
0°-40°	8237.3	61.6
0°-60°	12117.0	90.7
0°-90°	13320.5	99.7
90°-120°	32.8	0.2
90°-150°	39.6	0.3
90°-180°	44.0	0.3
0°-180°	13364.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6520	6520	6520	6520	6520	
5°	6552	6532	6455	6512	6493	624
15°	6457	6417	6300	6289	6235	1827
25°	6258	6168	5890	5690	5576	2891
35°	5953	5702	5039	4353	4061	3735
45°	5556	4773	2756	1883	1743	4289
55°	4957	2040	646	500	462	4423
65°	3756	471	254	206	191	3633
75°	1427	265	146	123	117	1576
85°	175	139	94	85	76	241
90°	7	72	58	50	47	11
95°	5	9	20	31	29	4
105°	2	0	2	4	4	3
115°	2	2	2	4	2	2
125°	2	2	2	4	2	2
135°	2	2	4	4	2	2
145°	4	4	4	5	4	2
155°	4	4	5	7	5	2
165°	4	5	7	7	7	1
175°	5	5	7	9	7	1
180°	7	7	7	7	7	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6519.7	6519.7	6519.7	6519.7	6519.7
2.5°	6559.4	6541.3	6467.4	6530.5	6512.5
5°	6552.2	6532.3	6454.8	6512.5	6492.6
7.5°	6539.5	6514.3	6429.5	6481.8	6451.1
10°	6517.9	6492.6	6395.2	6436.7	6404.2
12.5°	6492.6	6458.4	6350.1	6371.8	6330.3
15°	6456.6	6416.9	6299.6	6288.8	6234.7
17.5°	6416.9	6368.2	6225.6	6178.7	6113.8
20°	6370.0	6310.4	6133.6	6041.6	5983.9
22.5°	6317.6	6240.1	6018.2	5877.5	5787.3
25°	6258.1	6167.9	5890.1	5689.9	5576.2
27.5°	6195.0	6072.3	5735.0	5471.6	5318.2
30°	6119.2	5971.3	5540.1	5184.7	4993.5
32.5°	6043.4	5845.0	5330.9	4814.9	4587.6
35°	5953.2	5702.5	5038.6	4353.1	4060.8
37.5°	5868.4	5531.1	4643.5	3774.0	3460.1
40°	5765.6	5329.0	4138.4	3108.3	2807.0
42.5°	5668.2	5094.5	3483.5	2466.1	2204.5
45°	5556.4	4773.4	2756.5	1883.4	1742.7
47.5°	5426.5	4335.0	2004.3	1401.7	1313.3
50°	5285.8	3732.5	1399.9	1017.5	945.3
52.5°	5130.6	2918.9	943.5	707.2	667.5
55°	4957.4	2040.3	645.8	499.7	461.8
57.5°	4757.2	1327.8	469.0	377.0	351.8
60°	4520.9	847.9	366.2	299.5	285.0
62.5°	4210.6	595.3	301.3	247.1	234.5
65°	3756.0	470.8	254.4	205.7	191.2
67.5°	3180.5	398.7	218.3	173.2	164.2
70°	2563.5	346.4	189.4	149.7	144.3
72.5°	1970.0	303.1	164.2	133.5	129.9
75°	1427.0	265.2	146.1	122.7	117.3
77.5°	988.6	229.1	129.9	110.0	106.4
80°	638.6	198.4	115.5	101.0	99.2
82.5°	366.2	166.0	104.6	97.4	95.6
85°	175.0	138.9	93.8	84.8	75.8
87.5°	55.9	102.8	74.0	64.9	57.7
90°	7.2	72.2	57.7	50.5	46.9
92.5°	7.2	39.7	41.5	41.5	39.7
95°	5.4	9.0	19.8	30.7	28.9
97.5°	5.4	3.6	12.6	21.6	21.6
100°	3.6	1.8	5.4	14.4	14.4
102.5°	3.6	1.8	1.8	9.0	9.0
105°	1.8	0.0	1.8	3.6	3.6
107.5°	1.8	1.8	1.8	3.6	1.8
110°	1.8	1.8	1.8	3.6	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	1.8	1.8	3.6	1.8
115°	1.8	1.8	1.8	3.6	1.8
117.5°	1.8	1.8	1.8	3.6	1.8
120°	1.8	1.8	1.8	3.6	1.8
122.5°	1.8	1.8	1.8	3.6	1.8
125°	1.8	1.8	1.8	3.6	1.8
127.5°	1.8	1.8	1.8	3.6	1.8
130°	1.8	1.8	3.6	3.6	1.8
132.5°	1.8	1.8	3.6	3.6	1.8
135°	1.8	1.8	3.6	3.6	1.8
137.5°	1.8	1.8	3.6	3.6	3.6
140°	3.6	1.8	3.6	3.6	3.6
142.5°	3.6	3.6	3.6	5.4	3.6
145°	3.6	3.6	3.6	5.4	3.6
147.5°	3.6	3.6	5.4	5.4	3.6
150°	3.6	3.6	5.4	5.4	3.6
152.5°	3.6	3.6	5.4	5.4	5.4
155°	3.6	3.6	5.4	7.2	5.4
157.5°	3.6	3.6	5.4	7.2	5.4
160°	3.6	5.4	7.2	7.2	5.4
162.5°	3.6	5.4	7.2	7.2	7.2
165°	3.6	5.4	7.2	7.2	7.2
167.5°	5.4	5.4	7.2	9.0	7.2
170°	5.4	5.4	7.2	9.0	7.2
172.5°	5.4	5.4	7.2	9.0	7.2
175°	5.4	5.4	7.2	9.0	7.2
177.5°	5.4	5.4	7.2	9.0	9.0
180°	7.2	7.2	7.2	7.2	7.2

(END OF REPORT)