

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: P895313

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895313
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-CC83-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

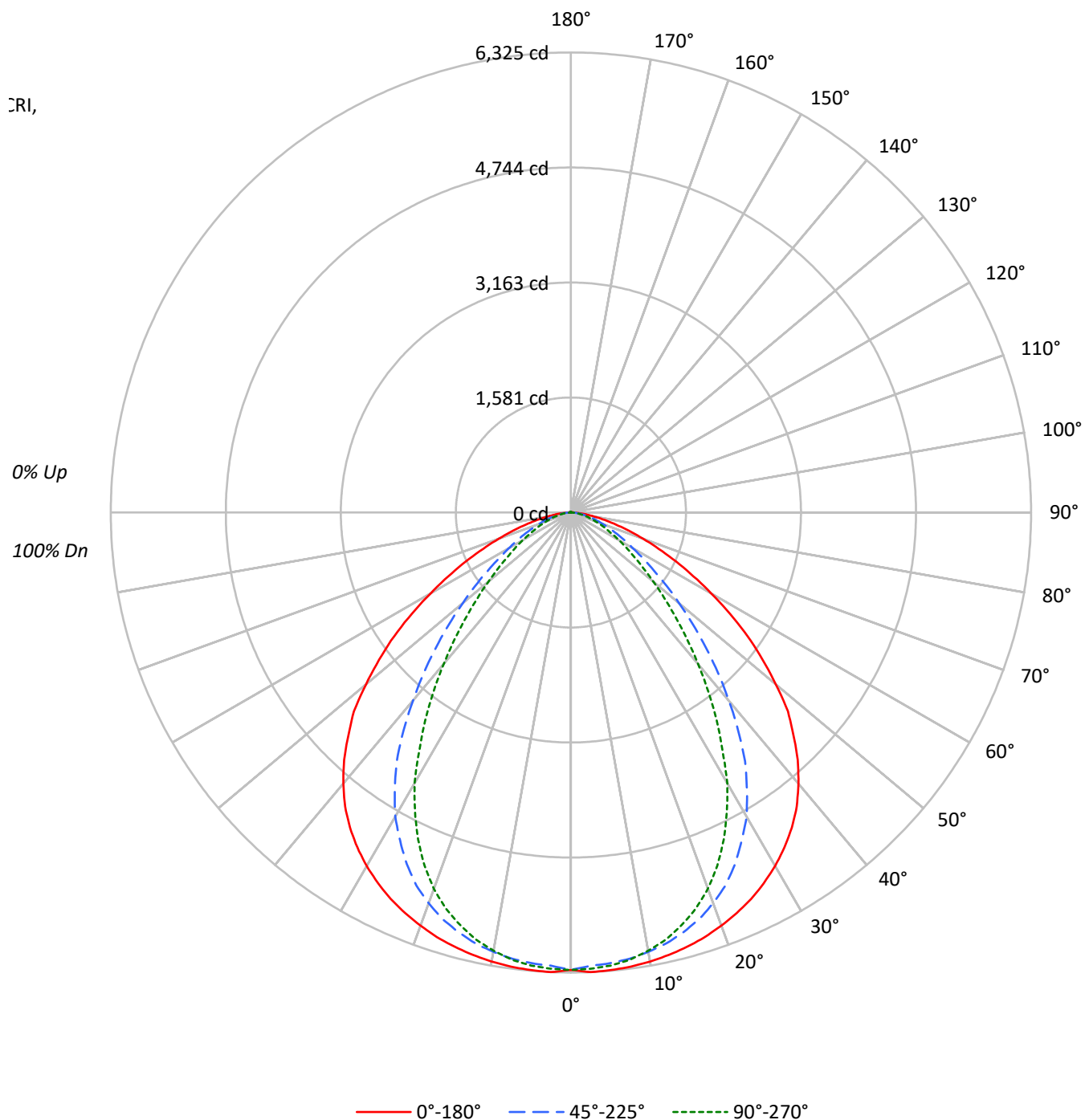
Lumens per Lamp: N/A
Luminaire Lumens: 12562.9 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	66	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°	31940	31940	31940
5°	32200	31713	31878
10°	32331	31633	31549
15°	32498	31407	30885
20°	32674	30899	29759
25°	32856	29894	27831
30°	32914	28322	25201
35°	32806	25872	21677
40°	32258	22390	18013
45°	31059	18814	14577
50°	29064	15323	11674
55°	26261	12317	9361
60°	22650	10023	7751
65°	19165	8347	6374
70°	15645	7099	5411
75°	12531	5983	4602
80°	9763	5118	3957
85°	7569	4522	3572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 31059 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.6	4.7
10°-20°	1694.7	13.5
20°-30°	2470.2	19.7
30°-40°	2662.6	21.2
40°-50°	2232.1	17.8
50°-60°	1511.2	12.0
60°-70°	861.7	6.9
70°-80°	394.1	3.1
80°-90°	103.2	0.8
90°-100°	12.7	0.1
100°-110°	8.6	0.1
110°-120°	4.7	0.0
120°-130°	2.8	0.0
130°-140°	2.6	0.0
140°-150°	2.3	0.0
150°-160°	1.9	0.0
160°-170°	1.4	0.0
170°-180°	0.6	0.0
0°-30°	4760.5	37.9
0°-40°	7423.1	59.1
0°-60°	11166.4	88.9
0°-90°	12525.4	99.7
90°-120°	26.0	0.2
90°-150°	33.6	0.3
90°-180°	38.0	0.3
0°-180°	12562.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6289	6289	6289	6289	6289	
5°	6316	6296	6220	6271	6253	601
15°	6181	6127	5973	5934	5874	1746
25°	5863	5708	5335	5089	4967	2701
35°	5291	4893	4173	3662	3496	3303
45°	4324	3608	2620	2160	2030	3329
55°	2966	2170	1391	1128	1057	2641
65°	1595	1110	695	563	530	1591
75°	639	469	305	249	234	696
85°	130	110	78	65	61	152
90°	18	18	11	9	7	18
95°	27	16	9	5	5	21
105°	18	13	5	4	2	20
115°	9	7	4	2	2	9
125°	4	4	4	2	2	4
135°	2	4	4	4	2	2
145°	4	4	4	4	4	2
155°	4	4	4	5	5	2
165°	4	5	5	5	5	1
175°	5	5	5	7	7	0
180°	5	5	5	5	5	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6289.0	6289.0	6289.0	6289.0	6289.0
2.5°	6325.1	6308.9	6236.7	6296.3	6278.2
5°	6316.1	6296.3	6220.5	6271.0	6253.0
7.5°	6298.1	6272.8	6188.0	6225.9	6202.4
10°	6269.2	6238.5	6133.9	6155.5	6117.7
12.5°	6229.5	6191.6	6067.1	6061.7	6016.6
15°	6180.8	6126.7	5973.3	5933.6	5874.1
17.5°	6121.3	6052.7	5861.5	5782.1	5709.9
20°	6045.5	5957.1	5717.1	5590.9	5506.1
22.5°	5958.9	5839.8	5549.4	5347.3	5255.3
25°	5863.3	5708.1	5334.7	5089.3	4966.6
27.5°	5744.2	5549.4	5085.7	4768.2	4641.9
30°	5612.5	5365.4	4829.5	4423.6	4297.3
32.5°	5462.8	5154.3	4503.0	4052.0	3875.2
35°	5291.4	4892.7	4172.9	3662.3	3496.3
37.5°	5098.3	4620.3	3777.8	3269.0	3101.2
40°	4865.6	4297.3	3377.2	2873.9	2717.0
42.5°	4614.9	3969.0	2993.0	2498.7	2363.4
45°	4324.4	3608.2	2619.5	2159.5	2029.6
47.5°	4044.8	3243.7	2269.5	1849.2	1742.7
50°	3678.5	2855.9	1939.4	1565.9	1477.5
52.5°	3321.3	2496.9	1658.0	1338.6	1255.6
55°	2965.9	2170.3	1391.0	1127.6	1057.2
57.5°	2590.7	1851.0	1170.9	954.4	907.5
60°	2229.9	1575.0	986.8	801.0	763.1
62.5°	1899.7	1320.6	835.3	676.5	640.5
65°	1594.8	1109.5	694.6	562.9	530.4
67.5°	1306.2	912.9	579.1	469.1	445.6
70°	1053.6	739.7	478.1	386.1	364.4
72.5°	835.3	591.7	382.5	315.7	292.3
75°	638.6	469.1	304.9	249.0	234.5
77.5°	476.3	353.6	234.5	191.2	180.4
80°	333.8	256.2	175.0	144.3	135.3
82.5°	227.3	176.8	122.7	101.0	95.6
85°	129.9	110.0	77.6	64.9	61.3
87.5°	66.8	57.7	41.5	30.7	27.1
90°	18.0	18.0	10.8	9.0	7.2
92.5°	28.9	16.2	10.8	7.2	5.4
95°	27.1	16.2	9.0	5.4	5.4
97.5°	25.3	16.2	7.2	5.4	3.6
100°	23.5	14.4	7.2	3.6	3.6
102.5°	21.6	14.4	7.2	3.6	3.6
105°	18.0	12.6	5.4	3.6	1.8
107.5°	16.2	10.8	5.4	3.6	1.8
110°	12.6	9.0	5.4	3.6	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.8	9.0	3.6	3.6	1.8
115°	9.0	7.2	3.6	1.8	1.8
117.5°	7.2	5.4	3.6	1.8	1.8
120°	5.4	5.4	3.6	1.8	1.8
122.5°	5.4	3.6	3.6	1.8	1.8
125°	3.6	3.6	3.6	1.8	1.8
127.5°	3.6	3.6	3.6	1.8	1.8
130°	3.6	3.6	3.6	1.8	1.8
132.5°	3.6	3.6	3.6	3.6	1.8
135°	1.8	3.6	3.6	3.6	1.8
137.5°	3.6	3.6	3.6	3.6	3.6
140°	3.6	3.6	3.6	3.6	3.6
142.5°	3.6	3.6	3.6	3.6	3.6
145°	3.6	3.6	3.6	3.6	3.6
147.5°	3.6	3.6	3.6	3.6	3.6
150°	3.6	3.6	3.6	3.6	3.6
152.5°	3.6	3.6	3.6	3.6	3.6
155°	3.6	3.6	3.6	5.4	5.4
157.5°	3.6	3.6	5.4	5.4	5.4
160°	3.6	3.6	5.4	5.4	5.4
162.5°	3.6	3.6	5.4	5.4	5.4
165°	3.6	5.4	5.4	5.4	5.4
167.5°	3.6	5.4	5.4	5.4	7.2
170°	3.6	5.4	5.4	7.2	7.2
172.5°	3.6	5.4	5.4	7.2	7.2
175°	5.4	5.4	5.4	7.2	7.2
177.5°	5.4	5.4	5.4	7.2	7.2
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)