

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: P895315

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895315
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

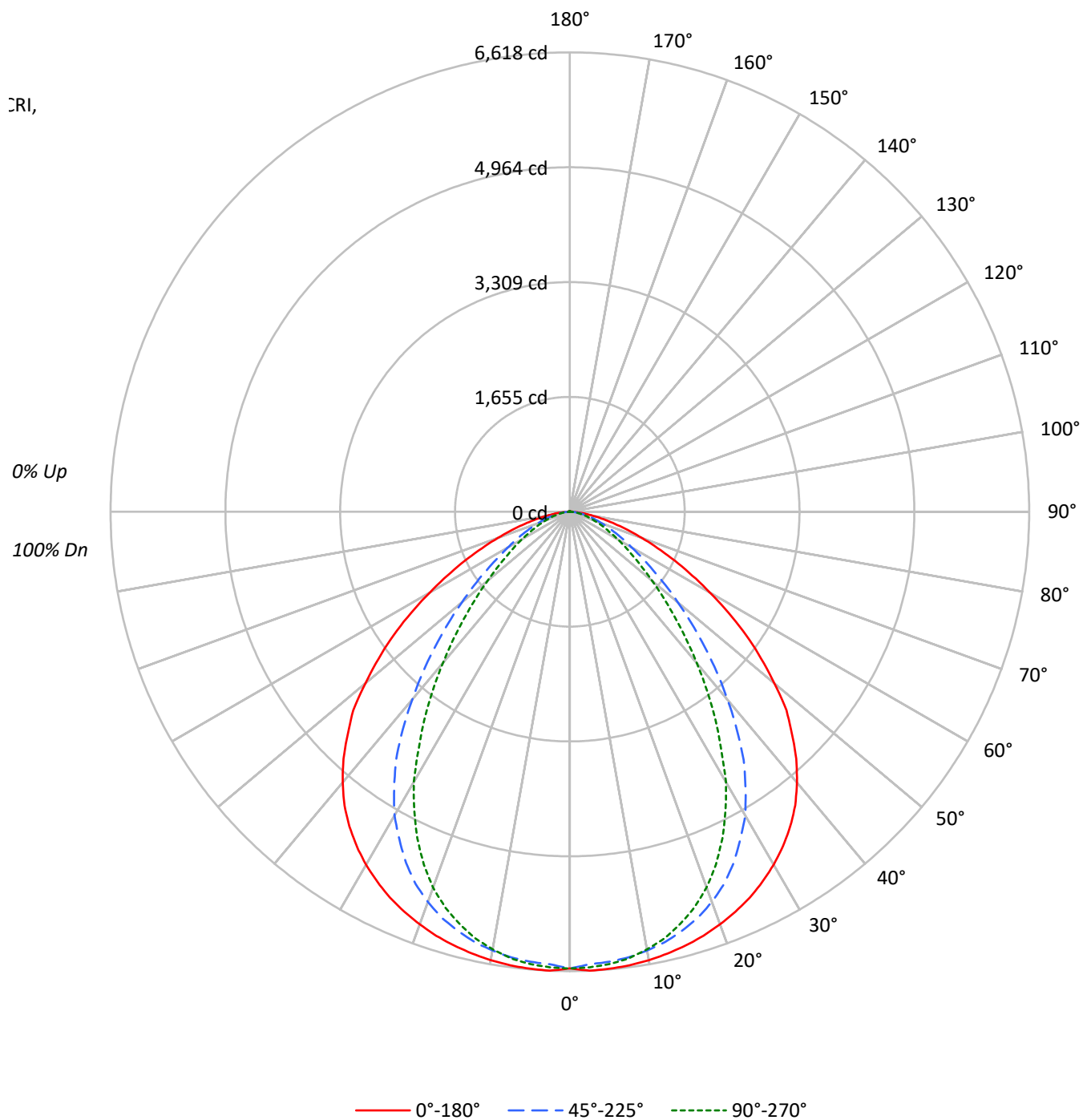
Lumens per Lamp: N/A
Luminaire Lumens: 13144.2 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93	91	89	87
2	102	95	89	85	100	93	88	84	90	85	82		87	83	80		84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71		78	73	70		76	72	68	66
4	87	77	69	63	85	76	68	63	73	67	62		71	66	61		69	64	60	58
5	81	70	62	56	79	69	61	55	66	60	55		65	59	54		63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	48	43	42
8	66	53	46	40	64	53	45	40	51	45	40		50	44	40		49	44	39	38
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46	40	36	34
10	58	46	38	34	57	45	38	33	44	38	33		43	37	33		43	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33417	33417	33417
5°	33689	33179	33352
10°	33826	33096	33008
15°	34000	32860	32314
20°	34185	32328	31135
25°	34376	31277	29119
30°	34436	29632	26367
35°	34324	27068	22679
40°	33750	23426	18846
45°	32496	19685	15252
50°	30409	16032	12214
55°	27476	12886	9794
60°	23697	10488	8110
65°	20052	8733	6668
70°	16368	7428	5662
75°	13112	6260	4815
80°	10213	5355	4141
85°	7919	4732	3741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.1	4.7
10°-20°	1773.1	13.5
20°-30°	2584.4	19.7
30°-40°	2785.8	21.2
40°-50°	2335.3	17.8
50°-60°	1581.1	12.0
60°-70°	901.6	6.9
70°-80°	412.3	3.1
80°-90°	108.0	0.8
90°-100°	13.3	0.1
100°-110°	9.1	0.1
110°-120°	5.0	0.0
120°-130°	2.9	0.0
130°-140°	2.7	0.0
140°-150°	2.4	0.0
150°-160°	2.0	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	4980.6	37.9
0°-40°	7766.4	59.1
0°-60°	11682.8	88.9
0°-90°	13104.7	99.7
90°-120°	27.3	0.2
90°-150°	35.3	0.3
90°-180°	39.0	0.3
0°-180°	13144.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6580	6580	6580	6580	6580	
5°	6608	6587	6508	6561	6542	629
15°	6467	6410	6250	6208	6146	1827
25°	6134	5972	5581	5325	5196	2826
35°	5536	5119	4366	3832	3658	3456
45°	4524	3775	2741	2259	2124	3483
55°	3103	2271	1455	1180	1106	2764
65°	1669	1161	727	589	555	1665
75°	668	491	319	260	245	729
85°	136	115	81	68	64	159
90°	19	19	11	9	8	19
95°	28	17	9	6	6	22
105°	19	13	6	4	2	21
115°	9	8	4	2	2	9
125°	4	4	4	2	2	4
135°	2	4	4	4	2	3
145°	4	4	4	4	4	2
155°	4	4	4	6	6	2
165°	4	6	6	6	6	1
175°	6	6	6	8	8	0
180°	6	6	6	6	6	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6579.9	6579.9	6579.9	6579.9	6579.9
2.5°	6617.6	6600.7	6525.2	6587.4	6568.6
5°	6608.2	6587.4	6508.2	6561.0	6542.1
7.5°	6589.3	6562.9	6474.2	6513.8	6489.3
10°	6559.1	6527.0	6417.6	6440.2	6400.6
12.5°	6517.6	6478.0	6347.7	6342.1	6294.9
15°	6466.6	6410.0	6249.6	6208.1	6145.8
17.5°	6404.4	6332.6	6132.6	6049.5	5974.0
20°	6325.1	6232.6	5981.5	5849.4	5760.7
22.5°	6234.5	6109.9	5806.0	5594.6	5498.3
25°	6134.4	5972.1	5581.4	5324.7	5196.3
27.5°	6009.9	5806.0	5320.9	4988.7	4856.6
30°	5872.1	5613.5	5052.9	4628.2	4496.1
32.5°	5715.4	5392.6	4711.2	4239.4	4054.4
35°	5536.1	5119.0	4365.8	3831.7	3658.0
37.5°	5334.1	4833.9	3952.5	3420.2	3244.6
40°	5090.6	4496.1	3533.4	3006.8	2842.6
42.5°	4828.3	4152.5	3131.4	2614.2	2472.7
45°	4524.4	3775.0	2740.7	2259.4	2123.5
47.5°	4231.8	3393.8	2374.5	1934.7	1823.3
50°	3848.7	2987.9	2029.1	1638.4	1545.9
52.5°	3474.9	2612.3	1734.6	1400.5	1313.7
55°	3103.1	2270.7	1455.3	1179.7	1106.1
57.5°	2710.5	1936.6	1225.0	998.5	949.4
60°	2333.0	1647.8	1032.5	838.1	798.4
62.5°	1987.6	1381.7	873.9	707.8	670.1
65°	1668.6	1160.8	726.7	588.9	554.9
67.5°	1366.6	955.1	605.9	490.8	466.2
70°	1102.3	773.9	500.2	403.9	381.3
72.5°	873.9	619.1	400.2	330.3	305.8
75°	668.2	490.8	319.0	260.5	245.4
77.5°	498.3	370.0	245.4	200.1	188.8
80°	349.2	268.0	183.1	151.0	141.6
82.5°	237.8	185.0	128.4	105.7	100.0
85°	135.9	115.1	81.2	68.0	64.2
87.5°	69.8	60.4	43.4	32.1	28.3
90°	18.9	18.9	11.3	9.4	7.6
92.5°	30.2	17.0	11.3	7.6	5.7
95°	28.3	17.0	9.4	5.7	5.7
97.5°	26.4	17.0	7.6	5.7	3.8
100°	24.5	15.1	7.6	3.8	3.8
102.5°	22.7	15.1	7.6	3.8	3.8
105°	18.9	13.2	5.7	3.8	1.9
107.5°	17.0	11.3	5.7	3.8	1.9
110°	13.2	9.4	5.7	3.8	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.3	9.4	3.8	3.8	1.9
115°	9.4	7.6	3.8	1.9	1.9
117.5°	7.6	5.7	3.8	1.9	1.9
120°	5.7	5.7	3.8	1.9	1.9
122.5°	5.7	3.8	3.8	1.9	1.9
125°	3.8	3.8	3.8	1.9	1.9
127.5°	3.8	3.8	3.8	1.9	1.9
130°	3.8	3.8	3.8	1.9	1.9
132.5°	3.8	3.8	3.8	3.8	1.9
135°	1.9	3.8	3.8	3.8	1.9
137.5°	3.8	3.8	3.8	3.8	3.8
140°	3.8	3.8	3.8	3.8	3.8
142.5°	3.8	3.8	3.8	3.8	3.8
145°	3.8	3.8	3.8	3.8	3.8
147.5°	3.8	3.8	3.8	3.8	3.8
150°	3.8	3.8	3.8	3.8	3.8
152.5°	3.8	3.8	3.8	3.8	3.8
155°	3.8	3.8	3.8	5.7	5.7
157.5°	3.8	3.8	5.7	5.7	5.7
160°	3.8	3.8	5.7	5.7	5.7
162.5°	3.8	3.8	5.7	5.7	5.7
165°	3.8	5.7	5.7	5.7	5.7
167.5°	3.8	5.7	5.7	5.7	7.6
170°	3.8	5.7	5.7	7.6	7.6
172.5°	3.8	5.7	5.7	7.6	7.6
175°	5.7	5.7	5.7	7.6	7.6
177.5°	5.7	5.7	5.7	7.6	7.6
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)