

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: P895324

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895324
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-CC93-HI-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

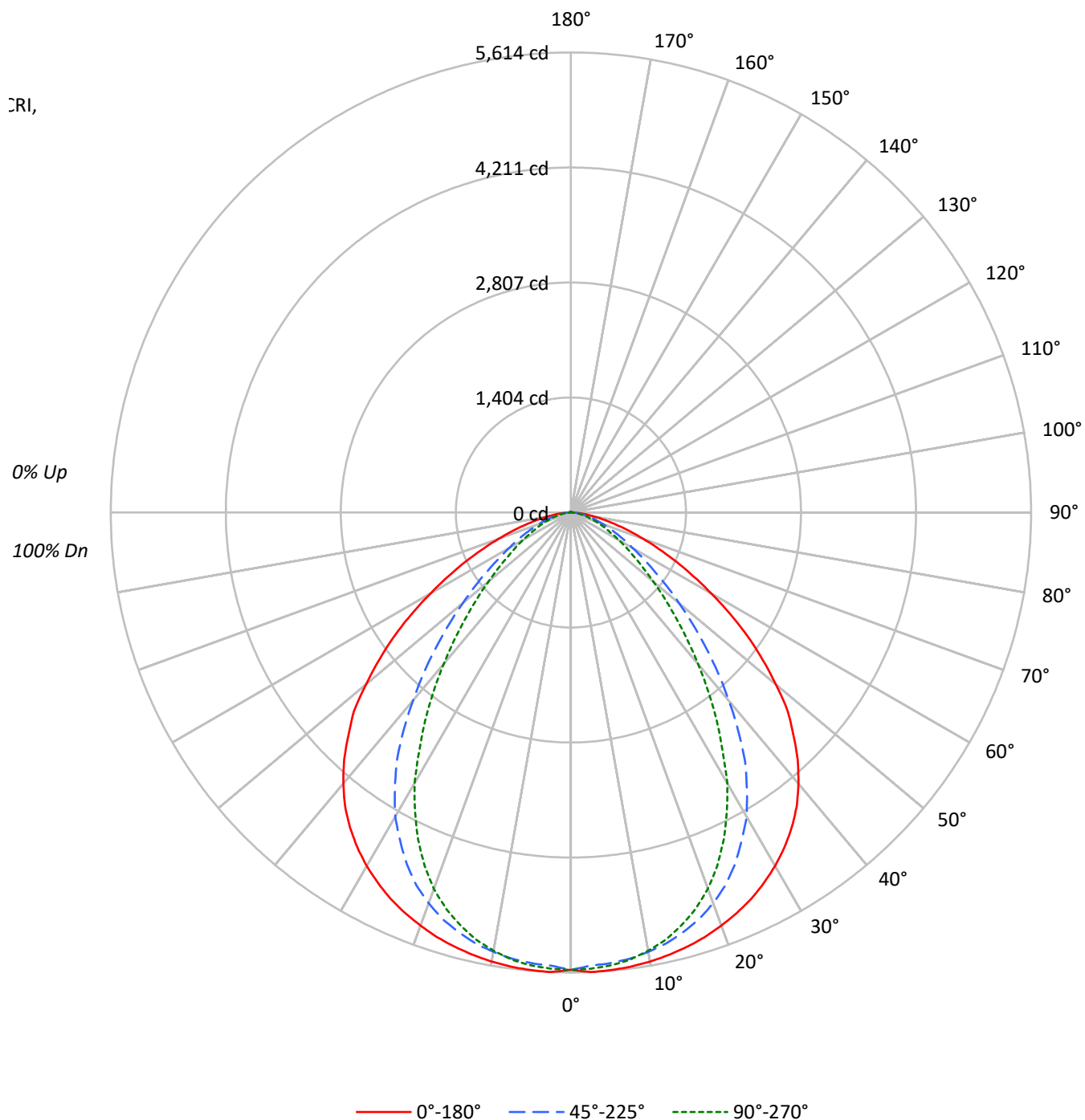
Lumens per Lamp: N/A
Luminaire Lumens: 11150.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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°	28348	28348	28348
5°	28578	28146	28293
10°	28694	28075	28001
15°	28843	27875	27411
20°	28999	27424	26411
25°	29161	26532	24701
30°	29212	25136	22367
35°	29116	22962	19239
40°	28630	19872	15987
45°	27566	16698	12938
50°	25795	13600	10361
55°	23308	10931	8308
60°	20103	8896	6880
65°	17009	7409	5657
70°	13885	6300	4802
75°	11122	5310	4085
80°	8663	4542	3513
85°	6719	4015	3170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27566 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.6	4.7
10°-20°	1504.1	13.5
20°-30°	2192.3	19.7
30°-40°	2363.1	21.2
40°-50°	1981.0	17.8
50°-60°	1341.2	12.0
60°-70°	764.8	6.9
70°-80°	349.8	3.1
80°-90°	91.6	0.8
90°-100°	11.3	0.1
100°-110°	7.7	0.1
110°-120°	4.2	0.0
120°-130°	2.4	0.0
130°-140°	2.3	0.0
140°-150°	2.0	0.0
150°-160°	1.7	0.0
160°-170°	1.3	0.0
170°-180°	0.5	0.0
0°-30°	4225.0	37.9
0°-40°	6588.2	59.1
0°-60°	9910.4	88.9
0°-90°	11116.6	99.7
90°-120°	23.1	0.2
90°-150°	29.9	0.3
90°-180°	33.0	0.3
0°-180°	11150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5582	5582	5582	5582	5582	
5°	5606	5588	5521	5566	5550	534
15°	5486	5438	5302	5266	5213	1550
25°	5204	5066	4735	4517	4408	2398
35°	4696	4342	3704	3250	3103	2932
45°	3838	3202	2325	1917	1801	2954
55°	2632	1926	1234	1001	938	2344
65°	1415	985	616	500	471	1412
75°	567	416	271	221	208	618
85°	115	98	69	58	54	135
90°	16	16	10	8	6	16
95°	24	14	8	5	5	19
105°	16	11	5	3	2	17
115°	8	6	3	2	2	8
125°	3	3	3	2	2	3
135°	2	3	3	3	2	2
145°	3	3	3	3	3	2
155°	3	3	3	5	5	1
165°	3	5	5	5	5	1
175°	5	5	5	6	6	0
180°	5	5	5	5	5	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5581.7	5581.7	5581.7	5581.7	5581.7
2.5°	5613.7	5599.3	5535.3	5588.1	5572.1
5°	5605.7	5588.1	5520.9	5565.7	5549.7
7.5°	5589.7	5567.3	5492.0	5525.7	5504.8
10°	5564.1	5536.9	5444.0	5463.2	5429.6
12.5°	5528.9	5495.2	5384.8	5379.9	5339.9
15°	5485.6	5437.6	5301.5	5266.3	5213.4
17.5°	5432.8	5371.9	5202.2	5131.8	5067.7
20°	5365.5	5287.1	5074.1	4962.0	4886.8
22.5°	5288.7	5183.0	4925.2	4745.9	4664.2
25°	5203.8	5066.1	4734.7	4516.9	4408.0
27.5°	5098.1	4925.2	4513.7	4231.9	4119.8
30°	4981.3	4761.9	4286.3	3926.1	3814.0
32.5°	4848.4	4574.6	3996.5	3596.2	3439.3
35°	4696.2	4342.4	3703.5	3250.4	3103.1
37.5°	4524.9	4100.6	3352.9	2901.3	2752.4
40°	4318.4	3814.0	2997.4	2550.7	2411.4
42.5°	4095.8	3522.6	2656.3	2217.6	2097.5
45°	3838.0	3202.3	2324.9	1916.6	1801.3
47.5°	3589.8	2878.9	2014.3	1641.2	1546.7
50°	3264.8	2534.7	1721.3	1389.8	1311.4
52.5°	2947.8	2216.0	1471.5	1188.1	1114.4
55°	2632.3	1926.2	1234.5	1000.7	938.3
57.5°	2299.3	1642.8	1039.2	847.0	805.4
60°	1979.1	1397.8	875.8	710.9	677.3
62.5°	1686.0	1172.1	741.3	600.4	568.4
65°	1415.4	984.7	616.5	499.6	470.7
67.5°	1159.3	810.2	514.0	416.3	395.5
70°	935.1	656.5	424.3	342.7	323.4
72.5°	741.3	525.2	339.4	280.2	259.4
75°	566.8	416.3	270.6	221.0	208.2
77.5°	422.7	313.8	208.2	169.7	160.1
80°	296.2	227.4	155.3	128.1	120.1
82.5°	201.7	156.9	108.9	89.7	84.9
85°	115.3	97.7	68.9	57.6	54.4
87.5°	59.2	51.2	36.8	27.2	24.0
90°	16.0	16.0	9.6	8.0	6.4
92.5°	25.6	14.4	9.6	6.4	4.8
95°	24.0	14.4	8.0	4.8	4.8
97.5°	22.4	14.4	6.4	4.8	3.2
100°	20.8	12.8	6.4	3.2	3.2
102.5°	19.2	12.8	6.4	3.2	3.2
105°	16.0	11.2	4.8	3.2	1.6
107.5°	14.4	9.6	4.8	3.2	1.6
110°	11.2	8.0	4.8	3.2	1.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.6	8.0	3.2	3.2	1.6
115°	8.0	6.4	3.2	1.6	1.6
117.5°	6.4	4.8	3.2	1.6	1.6
120°	4.8	4.8	3.2	1.6	1.6
122.5°	4.8	3.2	3.2	1.6	1.6
125°	3.2	3.2	3.2	1.6	1.6
127.5°	3.2	3.2	3.2	1.6	1.6
130°	3.2	3.2	3.2	1.6	1.6
132.5°	3.2	3.2	3.2	3.2	1.6
135°	1.6	3.2	3.2	3.2	1.6
137.5°	3.2	3.2	3.2	3.2	3.2
140°	3.2	3.2	3.2	3.2	3.2
142.5°	3.2	3.2	3.2	3.2	3.2
145°	3.2	3.2	3.2	3.2	3.2
147.5°	3.2	3.2	3.2	3.2	3.2
150°	3.2	3.2	3.2	3.2	3.2
152.5°	3.2	3.2	3.2	3.2	3.2
155°	3.2	3.2	3.2	4.8	4.8
157.5°	3.2	3.2	4.8	4.8	4.8
160°	3.2	3.2	4.8	4.8	4.8
162.5°	3.2	3.2	4.8	4.8	4.8
165°	3.2	4.8	4.8	4.8	4.8
167.5°	3.2	4.8	4.8	4.8	6.4
170°	3.2	4.8	4.8	6.4	6.4
172.5°	3.2	4.8	4.8	6.4	6.4
175°	4.8	4.8	4.8	6.4	6.4
177.5°	4.8	4.8	4.8	6.4	6.4
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)