

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: P895286

Luminaire Tested: 8TMB-SC3-A-UNV-CC93-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895286
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-CC93-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 90CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

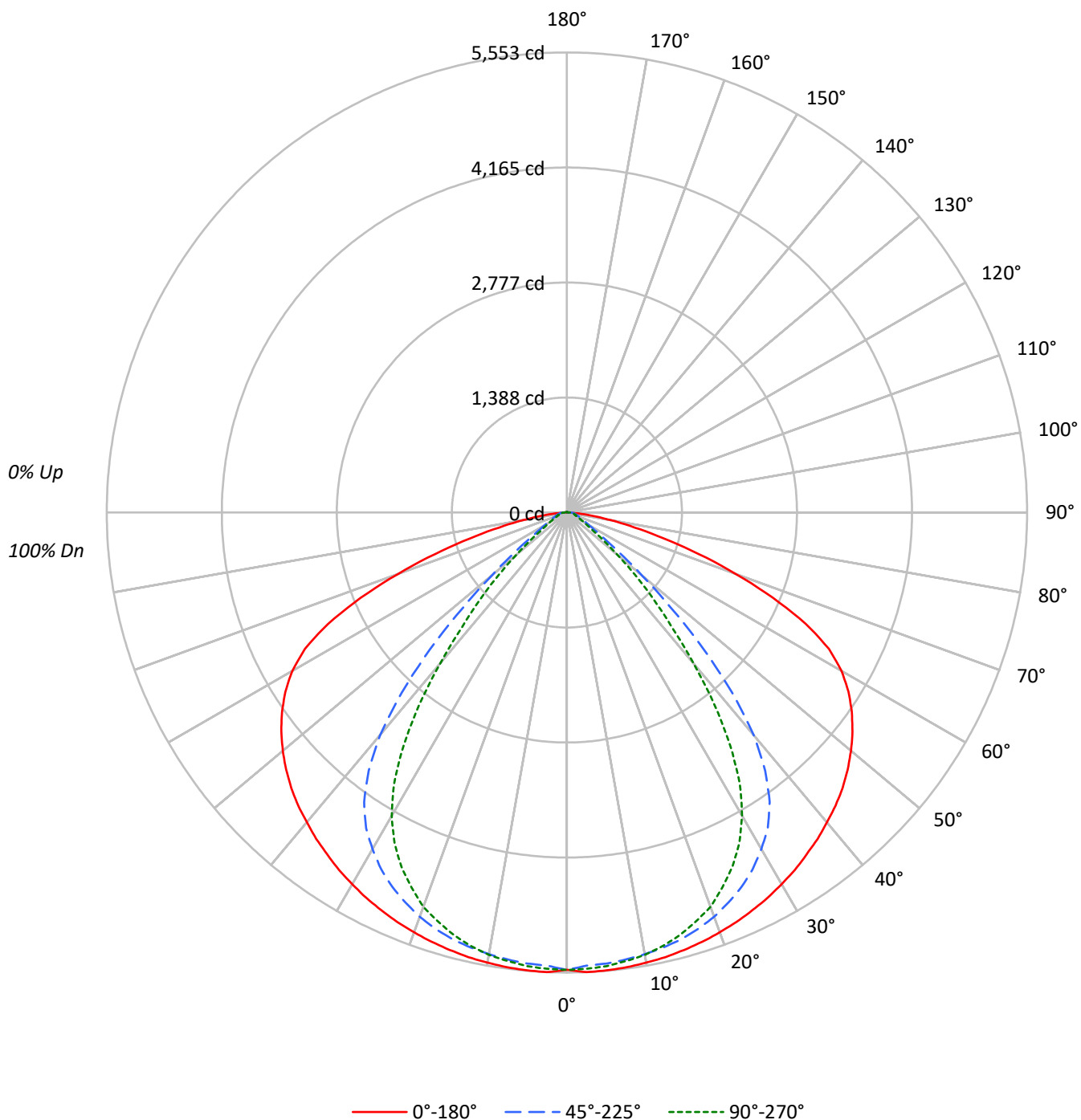
Lumens per Lamp: N/A
Luminaire Lumens: 11315.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
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	105	102	99	100	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	81	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67		
4	88	78	70	65	86	77	70	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	70	62	57	68	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43		
8	66	54	47	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39		
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28033	28033	28033
5°	28280	27860	28023
10°	28457	27922	27961
15°	28741	28042	27753
20°	29147	28065	27380
25°	29690	27944	26455
30°	30381	27506	24792
35°	31248	26448	21315
40°	32362	23228	15756
45°	33787	16761	10597
50°	35357	9364	6323
55°	37162	4842	3462
60°	38876	3149	2451
65°	38212	2587	1946
70°	32227	2382	1815
75°	23706	2427	1949
80°	15814	2857	2457
85°	8630	4627	3735

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 39208 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.1	4.6
10°-20°	1514.6	13.4
20°-30°	2303.9	20.4
30°-40°	2631.2	23.3
40°-50°	2122.7	18.8
50°-60°	1161.9	10.3
60°-70°	612.6	5.4
70°-80°	300.4	2.7
80°-90°	105.8	0.9
90°-100°	22.8	0.2
100°-110°	3.1	0.0
110°-120°	1.9	0.0
120°-130°	1.7	0.0
130°-140°	1.9	0.0
140°-150°	2.2	0.0
150°-160°	2.0	0.0
160°-170°	1.6	0.0
170°-180°	0.6	0.0
0°-30°	4342.6	38.4
0°-40°	6973.8	61.6
0°-60°	10258.5	90.7
0°-90°	11277.3	99.7
90°-120°	27.8	0.2
90°-150°	33.6	0.3
90°-180°	38.0	0.3
0°-180°	11315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5520	5520	5520	5520	5520	
5°	5547	5530	5465	5514	5497	529
15°	5466	5433	5333	5324	5278	1547
25°	5298	5222	4987	4817	4721	2448
35°	5040	4828	4266	3685	3438	3162
45°	4704	4041	2334	1594	1475	3631
55°	4197	1727	547	423	391	3744
65°	3180	399	215	174	162	3075
75°	1208	224	124	104	99	1334
85°	148	118	79	72	64	204
90°	6	61	49	43	40	9
95°	5	8	17	26	24	4
105°	2	0	2	3	3	2
115°	2	2	2	3	2	1
125°	2	2	2	3	2	1
135°	2	2	3	3	2	1
145°	3	3	3	5	3	2
155°	3	3	5	6	5	1
165°	3	5	6	6	6	1
175°	5	5	6	8	6	0
180°	6	6	6	6	6	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5519.7	5519.7	5519.7	5519.7	5519.7
2.5°	5553.3	5538.0	5475.4	5528.8	5513.6
5°	5547.2	5530.4	5464.7	5513.6	5496.8
7.5°	5536.5	5515.1	5443.3	5487.6	5461.6
10°	5518.1	5496.8	5414.3	5449.4	5421.9
12.5°	5496.8	5467.7	5376.1	5394.4	5359.3
15°	5466.2	5432.6	5333.3	5324.2	5278.4
17.5°	5432.6	5391.4	5270.7	5231.0	5176.0
20°	5392.9	5342.5	5192.8	5114.9	5066.1
22.5°	5348.6	5282.9	5095.1	4975.9	4899.6
25°	5298.2	5221.8	4986.6	4817.1	4720.9
27.5°	5244.8	5140.9	4855.3	4632.3	4502.5
30°	5180.6	5055.4	4690.3	4389.5	4227.6
32.5°	5116.5	4948.5	4513.2	4076.4	3883.9
35°	5040.1	4827.8	4265.8	3685.4	3438.0
37.5°	4968.3	4682.7	3931.3	3195.1	2929.4
40°	4881.3	4511.6	3503.6	2631.5	2376.5
42.5°	4798.8	4313.1	2949.2	2087.8	1866.4
45°	4704.1	4041.2	2333.7	1594.5	1475.4
47.5°	4594.1	3670.1	1696.8	1186.7	1111.9
50°	4475.0	3160.0	1185.2	861.4	800.3
52.5°	4343.6	2471.2	798.8	598.7	565.1
55°	4197.0	1727.4	546.8	423.1	391.0
57.5°	4027.5	1124.1	397.1	319.2	297.8
60°	3827.4	717.8	310.0	253.5	241.3
62.5°	3564.7	504.0	255.1	209.2	198.5
65°	3179.8	398.6	215.3	174.1	161.9
67.5°	2692.6	337.5	184.8	146.6	139.0
70°	2170.3	293.2	160.4	126.8	122.2
72.5°	1667.8	256.6	139.0	113.0	110.0
75°	1208.1	224.5	123.7	103.9	99.3
77.5°	837.0	194.0	110.0	93.2	90.1
80°	540.7	168.0	97.7	85.5	84.0
82.5°	310.0	140.5	88.6	82.5	80.9
85°	148.1	117.6	79.4	71.8	64.1
87.5°	47.3	87.1	62.6	55.0	48.9
90°	6.1	61.1	48.9	42.8	39.7
92.5°	6.1	33.6	35.1	35.1	33.6
95°	4.6	7.6	16.8	26.0	24.4
97.5°	4.6	3.1	10.7	18.3	18.3
100°	3.1	1.5	4.6	12.2	12.2
102.5°	3.1	1.5	1.5	7.6	7.6
105°	1.5	0.0	1.5	3.1	3.1
107.5°	1.5	1.5	1.5	3.1	1.5
110°	1.5	1.5	1.5	3.1	1.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	1.5	3.1	1.5
115°	1.5	1.5	1.5	3.1	1.5
117.5°	1.5	1.5	1.5	3.1	1.5
120°	1.5	1.5	1.5	3.1	1.5
122.5°	1.5	1.5	1.5	3.1	1.5
125°	1.5	1.5	1.5	3.1	1.5
127.5°	1.5	1.5	1.5	3.1	1.5
130°	1.5	1.5	3.1	3.1	1.5
132.5°	1.5	1.5	3.1	3.1	1.5
135°	1.5	1.5	3.1	3.1	1.5
137.5°	1.5	1.5	3.1	3.1	3.1
140°	3.1	1.5	3.1	3.1	3.1
142.5°	3.1	3.1	3.1	4.6	3.1
145°	3.1	3.1	3.1	4.6	3.1
147.5°	3.1	3.1	4.6	4.6	3.1
150°	3.1	3.1	4.6	4.6	3.1
152.5°	3.1	3.1	4.6	4.6	4.6
155°	3.1	3.1	4.6	6.1	4.6
157.5°	3.1	3.1	4.6	6.1	4.6
160°	3.1	4.6	6.1	6.1	4.6
162.5°	3.1	4.6	6.1	6.1	6.1
165°	3.1	4.6	6.1	6.1	6.1
167.5°	4.6	4.6	6.1	7.6	6.1
170°	4.6	4.6	6.1	7.6	6.1
172.5°	4.6	4.6	6.1	7.6	6.1
175°	4.6	4.6	6.1	7.6	6.1
177.5°	4.6	4.6	6.1	7.6	7.6
180°	6.1	6.1	6.1	6.1	6.1

(END OF REPORT)