

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: P895306

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-15)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ACL-UNV-CC93-HI-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

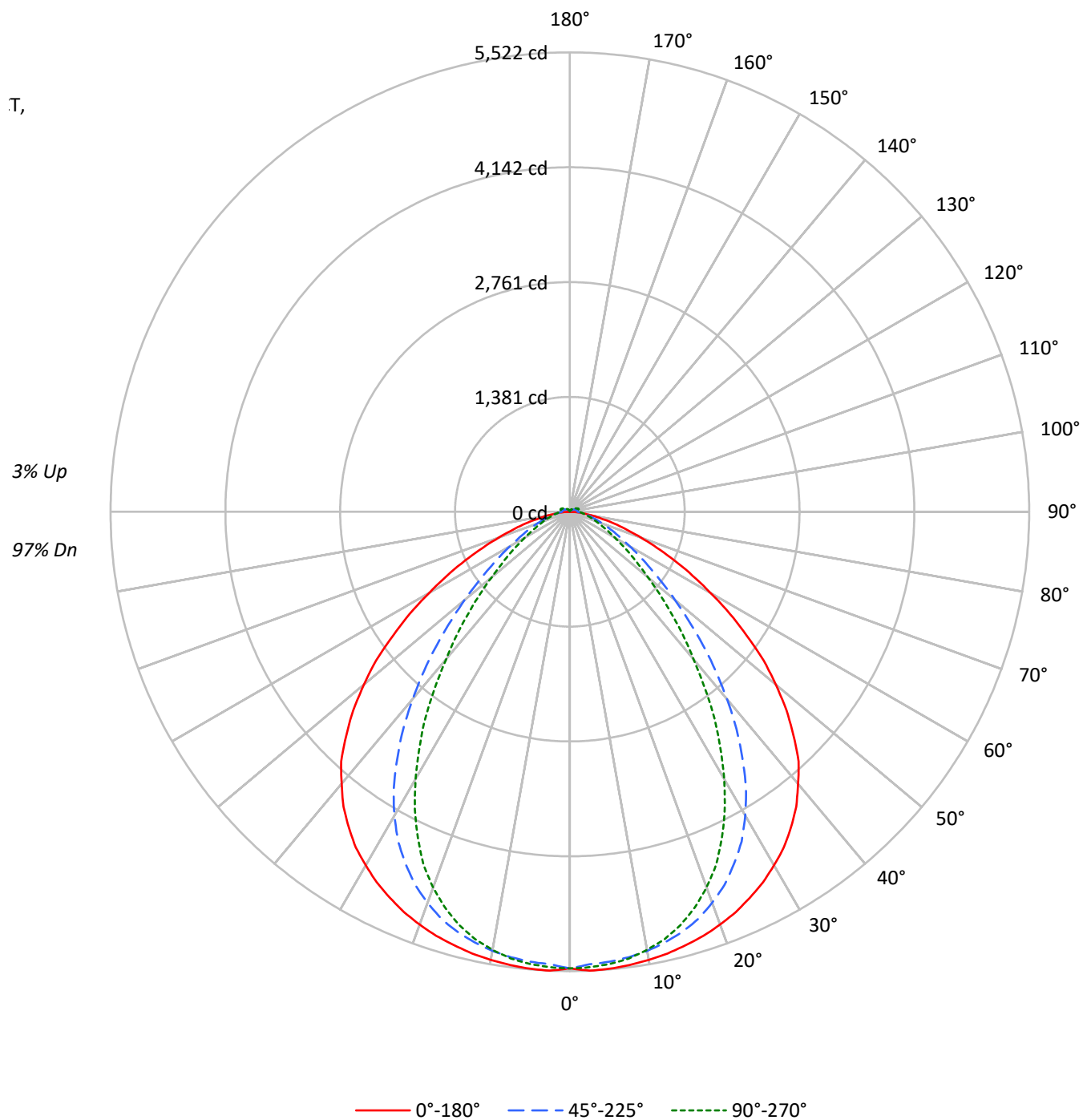
Lumens per Lamp: N/A
Luminaire Lumens: 11260.9 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82	79	76	74
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74	70	66	64
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67	62	59	57
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56	51	47	45
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52	46	42	40
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48	42	38	37
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27880	27880	27880
5°	28083	27140	27079
10°	28158	26567	26129
15°	28270	25892	24940
20°	28435	24956	23312
25°	28549	23649	21146
30°	28611	21846	18423
35°	28524	19319	15411
40°	28058	16331	12129
45°	27022	13194	9404
50°	25206	10247	7055
55°	22619	7852	5396
60°	19492	6043	4111
65°	16319	4774	3268
70°	13130	3838	2670
75°	10556	3099	2273
80°	7869	2567	1989
85°	5669	2191	1832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27022 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.0	4.6
10°-20°	1481.2	13.2
20°-30°	2159.5	19.2
30°-40°	2320.2	20.6
40°-50°	1931.0	17.1
50°-60°	1291.5	11.5
60°-70°	739.3	6.6
70°-80°	367.6	3.3
80°-90°	150.4	1.3
90°-100°	87.3	0.8
100°-110°	77.0	0.7
110°-120°	56.5	0.5
120°-130°	36.3	0.3
130°-140°	21.6	0.2
140°-150°	12.2	0.1
150°-160°	6.1	0.1
160°-170°	2.6	0.0
170°-180°	0.6	0.0
0°-30°	4160.7	36.9
0°-40°	6480.9	57.6
0°-60°	9703.4	86.2
0°-90°	10960.7	97.3
90°-120°	220.8	2.0
90°-150°	291.0	2.6
90°-180°	300.0	2.7
0°-180°	11260.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5490	5490	5490	5490	5490	
5°	5514	5496	5430	5475	5457	525
15°	5392	5355	5227	5188	5142	1524
25°	5120	4998	4671	4436	4325	2361
35°	4634	4298	3616	3171	3031	2894
45°	3802	3160	2258	1827	1720	2923
55°	2593	1870	1177	930	882	2322
65°	1388	942	592	480	455	1388
75°	559	407	293	259	251	599
85°	109	122	136	142	144	127
90°	16	51	93	110	114	15
95°	24	51	91	110	114	19
105°	16	42	82	107	112	17
115°	8	24	64	88	96	8
125°	5	16	43	64	70	4
135°	3	13	29	43	48	2
145°	3	10	19	29	34	2
155°	3	8	13	18	22	2
165°	5	6	10	11	14	1
175°	5	5	6	6	6	0
180°	5	5	5	5	5	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5489.5	5489.5	5489.5	5489.5	5489.5
2.5°	5521.5	5507.1	5444.6	5494.3	5479.8
5°	5513.5	5495.9	5430.2	5475.0	5457.4
7.5°	5495.9	5476.6	5401.4	5436.6	5417.4
10°	5470.2	5446.2	5359.7	5377.4	5346.9
12.5°	5438.2	5407.8	5300.5	5295.7	5262.1
15°	5391.8	5354.9	5226.8	5188.4	5142.0
17.5°	5343.7	5289.3	5132.3	5053.9	4989.8
20°	5281.3	5209.2	5002.6	4885.7	4805.7
22.5°	5209.2	5111.5	4856.9	4677.6	4594.3
25°	5119.5	4997.8	4671.2	4435.8	4325.3
27.5°	5023.5	4861.7	4469.4	4160.3	4033.8
30°	4908.2	4708.0	4218.0	3846.5	3710.3
32.5°	4786.5	4512.6	3942.5	3516.6	3367.7
35°	4634.3	4298.0	3615.9	3170.7	3031.4
37.5°	4469.4	4041.8	3292.4	2816.8	2659.9
40°	4269.2	3771.2	2936.9	2466.1	2310.8
42.5°	4070.6	3476.5	2595.8	2149.0	2014.5
45°	3801.6	3159.5	2257.9	1827.1	1719.9
47.5°	3531.0	2820.0	1934.4	1566.1	1460.4
50°	3229.9	2486.9	1651.0	1314.7	1226.6
52.5°	2936.9	2176.2	1393.2	1111.3	1036.1
55°	2592.6	1870.4	1177.0	930.4	882.3
57.5°	2281.9	1586.9	992.8	787.9	743.0
60°	1953.7	1345.1	831.1	666.2	624.5
62.5°	1665.4	1130.6	699.8	565.3	536.5
65°	1388.4	941.6	592.5	480.4	454.8
67.5°	1133.8	786.3	499.6	409.9	389.1
70°	909.6	637.3	421.2	349.1	334.7
72.5°	715.8	512.4	350.7	301.1	288.2
75°	558.9	406.7	293.0	259.4	251.4
77.5°	403.5	317.1	245.0	222.6	217.8
80°	285.0	240.2	201.8	192.2	189.0
82.5°	189.0	174.5	166.5	166.5	164.9
85°	108.9	121.7	136.1	142.5	144.1
87.5°	56.0	81.7	108.9	121.7	123.3
90°	16.0	51.2	92.9	110.5	113.7
92.5°	24.0	51.2	91.3	110.5	113.7
95°	24.0	51.2	91.3	110.5	113.7
97.5°	22.4	49.6	91.3	110.5	113.7
100°	20.8	46.4	89.7	110.5	113.7
102.5°	17.6	44.8	86.5	108.9	113.7
105°	16.0	41.6	81.7	107.3	112.1
107.5°	14.4	35.2	76.9	102.5	108.9
110°	11.2	30.4	73.7	97.7	105.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.6	27.2	68.9	92.9	100.9
115°	8.0	24.0	64.1	88.1	96.1
117.5°	6.4	22.4	57.6	81.7	89.7
120°	4.8	20.8	52.8	76.9	83.3
122.5°	4.8	19.2	46.4	70.5	76.9
125°	4.8	16.0	43.2	64.1	70.5
127.5°	3.2	14.4	38.4	57.6	64.1
130°	3.2	14.4	35.2	52.8	57.6
132.5°	3.2	12.8	32.0	48.0	52.8
135°	3.2	12.8	28.8	43.2	48.0
137.5°	3.2	11.2	25.6	40.0	44.8
140°	3.2	11.2	24.0	35.2	40.0
142.5°	3.2	9.6	20.8	33.6	36.8
145°	3.2	9.6	19.2	28.8	33.6
147.5°	3.2	9.6	17.6	27.2	30.4
150°	3.2	8.0	16.0	22.4	27.2
152.5°	3.2	8.0	14.4	20.8	25.6
155°	3.2	8.0	12.8	17.6	22.4
157.5°	3.2	8.0	12.8	16.0	19.2
160°	4.8	6.4	11.2	14.4	17.6
162.5°	4.8	6.4	9.6	12.8	16.0
165°	4.8	6.4	9.6	11.2	14.4
167.5°	4.8	6.4	8.0	9.6	11.2
170°	4.8	4.8	8.0	8.0	8.0
172.5°	4.8	4.8	6.4	8.0	6.4
175°	4.8	4.8	6.4	6.4	6.4
177.5°	4.8	4.8	6.4	6.4	6.4
180°	4.8	4.8	4.8	4.8	4.8

(END OF REPORT)