

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: P895295

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895295
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-CC83-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 3500K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

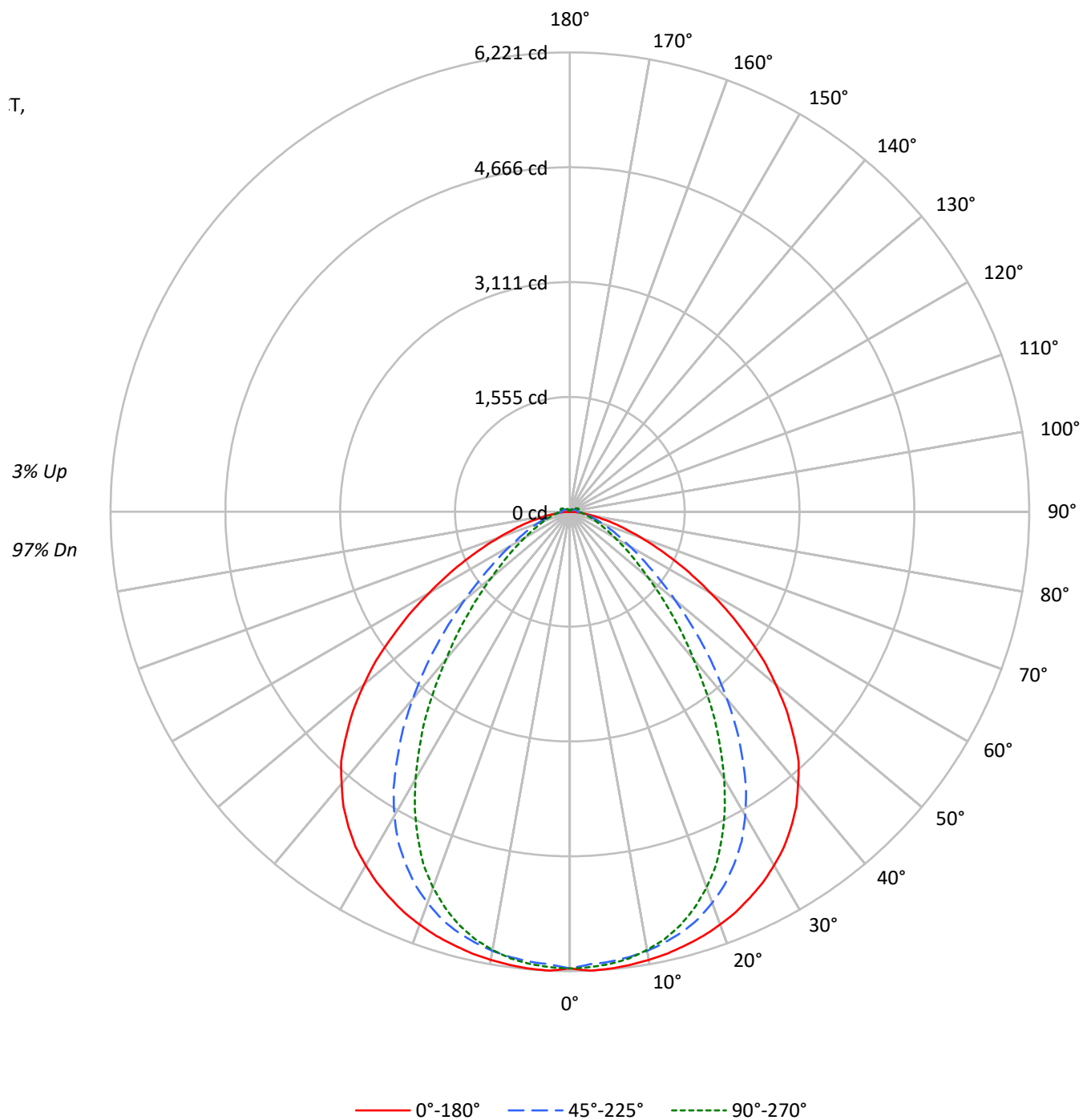
Lumens per Lamp: N/A
Luminaire Lumens: 12686.9 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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°	31410	31410	31410
5°	31639	30576	30509
10°	31724	29932	29438
15°	31850	29171	28098
20°	32036	28116	26264
25°	32165	26644	23823
30°	32234	24612	20756
35°	32136	21765	17362
40°	31611	18399	13664
45°	30444	14865	10594
50°	28398	11544	7949
55°	25483	8846	6079
60°	21960	6808	4631
65°	18386	5379	3682
70°	14793	4324	3008
75°	11891	3493	2560
80°	8866	2891	2241
85°	6388	2470	2064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 30444 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.8	4.6
10°-20°	1668.8	13.2
20°-30°	2433.0	19.2
30°-40°	2614.0	20.6
40°-50°	2175.5	17.1
50°-60°	1455.0	11.5
60°-70°	832.9	6.6
70°-80°	414.1	3.3
80°-90°	169.5	1.3
90°-100°	98.3	0.8
100°-110°	86.8	0.7
110°-120°	63.7	0.5
120°-130°	40.9	0.3
130°-140°	24.4	0.2
140°-150°	13.7	0.1
150°-160°	6.9	0.1
160°-170°	2.9	0.0
170°-180°	0.7	0.0
0°-30°	4687.6	36.9
0°-40°	7301.6	57.6
0°-60°	10932.1	86.2
0°-90°	12348.7	97.3
90°-120°	248.8	2.0
90°-150°	327.8	2.6
90°-180°	338.0	2.7
0°-180°	12686.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6185	6185	6185	6185	6185	
5°	6212	6192	6118	6168	6148	591
15°	6074	6033	5889	5845	5793	1717
25°	5768	5631	5263	4998	4873	2660
35°	5221	4842	4074	3572	3415	3261
45°	4283	3560	2544	2058	1938	3293
55°	2921	2107	1326	1048	994	2616
65°	1564	1061	668	541	512	1564
75°	630	458	330	292	283	675
85°	123	137	153	161	162	143
90°	18	58	105	124	128	17
95°	27	58	103	124	128	21
105°	18	47	92	121	126	19
115°	9	27	72	99	108	9
125°	5	18	49	72	79	4
135°	4	14	32	49	54	3
145°	4	11	22	32	38	2
155°	4	9	14	20	25	2
165°	5	7	11	13	16	2
175°	5	5	7	7	7	1
180°	5	5	5	5	5	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6184.6	6184.6	6184.6	6184.6	6184.6
2.5°	6220.7	6204.4	6134.1	6190.0	6173.8
5°	6211.7	6191.8	6117.8	6168.4	6148.5
7.5°	6191.8	6170.2	6085.4	6125.1	6103.4
10°	6162.9	6135.9	6038.5	6058.3	6024.0
12.5°	6126.9	6092.6	5971.7	5966.3	5928.4
15°	6074.5	6033.0	5888.7	5845.4	5793.1
17.5°	6020.4	5959.1	5782.3	5693.9	5621.7
20°	5950.1	5868.9	5636.1	5504.4	5414.2
22.5°	5868.9	5758.8	5472.0	5269.9	5176.1
25°	5767.8	5630.7	5262.7	4997.5	4873.0
27.5°	5659.6	5477.4	5035.4	4687.2	4544.6
30°	5529.7	5304.2	4752.1	4333.5	4180.2
32.5°	5392.6	5084.1	4441.8	3961.9	3794.1
35°	5221.2	4842.3	4073.7	3572.2	3415.2
37.5°	5035.4	4553.6	3709.3	3173.5	2996.7
40°	4809.8	4248.7	3308.8	2778.4	2603.4
42.5°	4586.1	3916.8	2924.5	2421.2	2269.6
45°	4283.0	3559.6	2543.8	2058.5	1937.6
47.5°	3978.1	3177.1	2179.4	1764.4	1645.4
50°	3638.9	2801.8	1860.1	1481.2	1382.0
52.5°	3308.8	2451.8	1569.6	1252.1	1167.3
55°	2920.9	2107.2	1326.0	1048.2	994.1
57.5°	2570.9	1787.9	1118.6	887.6	837.1
60°	2201.1	1515.5	936.3	750.5	703.6
62.5°	1876.3	1273.7	788.4	636.9	604.4
65°	1564.2	1060.8	667.5	541.2	512.4
67.5°	1277.3	885.8	562.9	461.9	438.4
70°	1024.8	718.0	474.5	393.3	377.1
72.5°	806.5	577.3	395.1	339.2	324.7
75°	629.6	458.3	330.2	292.3	283.2
77.5°	454.6	357.2	276.0	250.8	245.4
80°	321.1	270.6	227.3	216.5	212.9
82.5°	212.9	196.7	187.6	187.6	185.8
85°	122.7	137.1	153.4	160.6	162.4
87.5°	63.1	92.0	122.7	137.1	138.9
90°	18.0	57.7	104.6	124.5	128.1
92.5°	27.1	57.7	102.8	124.5	128.1
95°	27.1	57.7	102.8	124.5	128.1
97.5°	25.3	55.9	102.8	124.5	128.1
100°	23.5	52.3	101.0	124.5	128.1
102.5°	19.8	50.5	97.4	122.7	128.1
105°	18.0	46.9	92.0	120.9	126.3
107.5°	16.2	39.7	86.6	115.5	122.7
110°	12.6	34.3	83.0	110.1	119.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.8	30.7	77.6	104.6	113.7
115°	9.0	27.1	72.2	99.2	108.2
117.5°	7.2	25.3	64.9	92.0	101.0
120°	5.4	23.5	59.5	86.6	93.8
122.5°	5.4	21.6	52.3	79.4	86.6
125°	5.4	18.0	48.7	72.2	79.4
127.5°	3.6	16.2	43.3	64.9	72.2
130°	3.6	16.2	39.7	59.5	64.9
132.5°	3.6	14.4	36.1	54.1	59.5
135°	3.6	14.4	32.5	48.7	54.1
137.5°	3.6	12.6	28.9	45.1	50.5
140°	3.6	12.6	27.1	39.7	45.1
142.5°	3.6	10.8	23.5	37.9	41.5
145°	3.6	10.8	21.6	32.5	37.9
147.5°	3.6	10.8	19.8	30.7	34.3
150°	3.6	9.0	18.0	25.3	30.7
152.5°	3.6	9.0	16.2	23.5	28.9
155°	3.6	9.0	14.4	19.8	25.3
157.5°	3.6	9.0	14.4	18.0	21.6
160°	5.4	7.2	12.6	16.2	19.8
162.5°	5.4	7.2	10.8	14.4	18.0
165°	5.4	7.2	10.8	12.6	16.2
167.5°	5.4	7.2	9.0	10.8	12.6
170°	5.4	5.4	9.0	9.0	9.0
172.5°	5.4	5.4	7.2	9.0	7.2
175°	5.4	5.4	7.2	7.2	7.2
177.5°	5.4	5.4	7.2	7.2	7.2
180°	5.4	5.4	5.4	5.4	5.4

(END OF REPORT)