

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: P895302

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895302
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-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

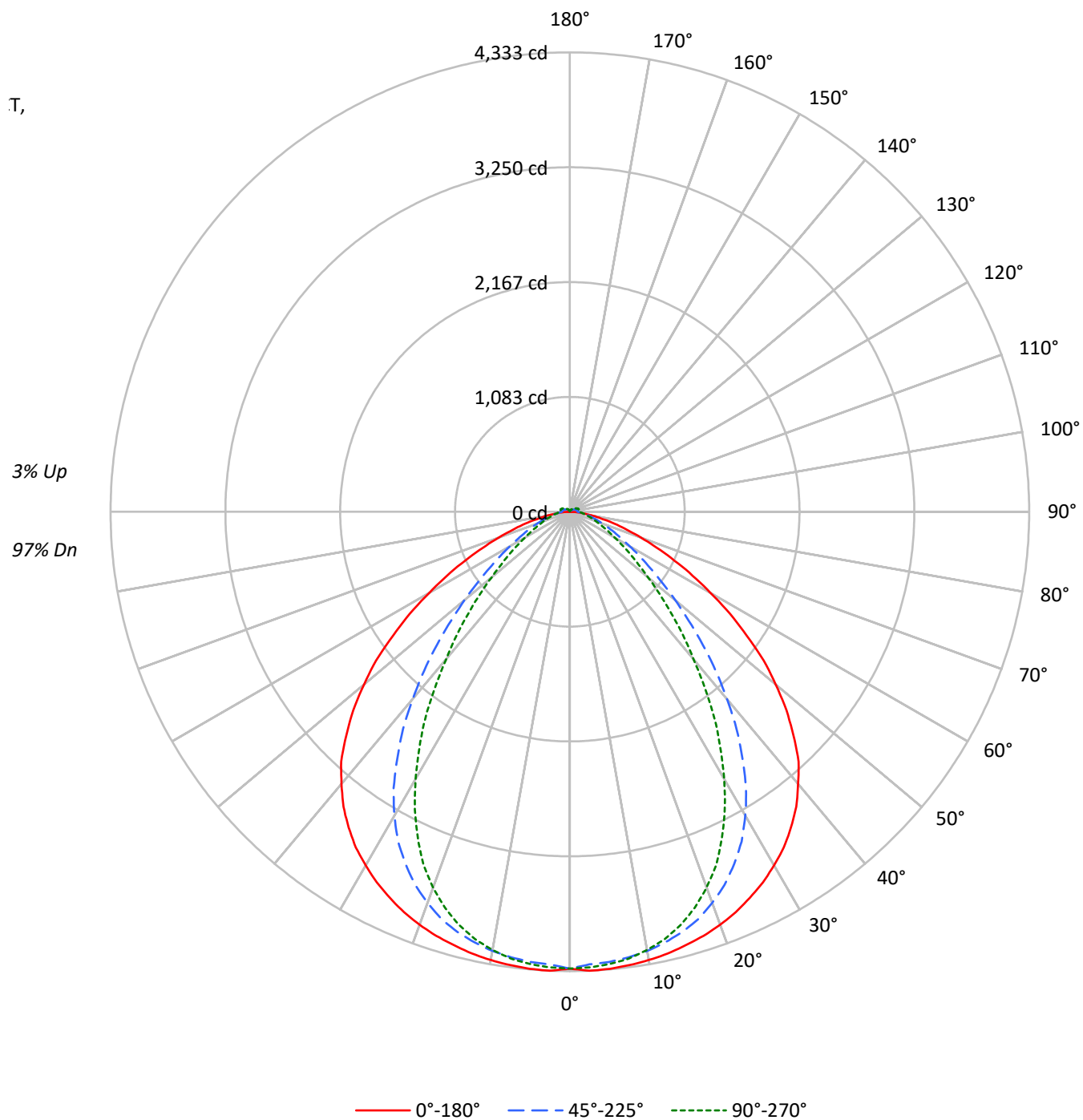
Lumens per Lamp: N/A
Luminaire Lumens: 8838.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895302

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC83-MID-4000K

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
RCR																	
0	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21881	21881	21881
5°	22040	21300	21253
10°	22100	20851	20507
15°	22187	20321	19574
20°	22317	19586	18296
25°	22407	18561	16596
30°	22455	17145	14459
35°	22387	15162	12095
40°	22021	12817	9519
45°	21208	10355	7380
50°	19783	8042	5537
55°	17752	6162	4235
60°	15298	4743	3227
65°	12807	3747	2564
70°	10305	3012	2095
75°	8284	2433	1784
80°	6177	2015	1561
85°	4451	1720	1438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21208 cd/sqm

TEST NUMBER: P895302

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC83-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.1	4.6
10°-20°	1162.5	13.2
20°-30°	1694.9	19.2
30°-40°	1820.9	20.6
40°-50°	1515.5	17.1
50°-60°	1013.6	11.5
60°-70°	580.2	6.6
70°-80°	288.5	3.3
80°-90°	118.1	1.3
90°-100°	68.5	0.8
100°-110°	60.4	0.7
110°-120°	44.4	0.5
120°-130°	28.5	0.3
130°-140°	17.0	0.2
140°-150°	9.6	0.1
150°-160°	4.8	0.1
160°-170°	2.0	0.0
170°-180°	0.5	0.0
0°-30°	3265.5	36.9
0°-40°	5086.4	57.6
0°-60°	7615.5	86.2
0°-90°	8602.3	97.3
90°-120°	173.3	2.0
90°-150°	228.3	2.6
90°-180°	236.0	2.7
0°-180°	8838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4308	4308	4308	4308	4308	
5°	4327	4313	4262	4297	4283	412
15°	4232	4203	4102	4072	4036	1196
25°	4018	3922	3666	3481	3395	1853
35°	3637	3373	2838	2488	2379	2272
45°	2984	2480	1772	1434	1350	2294
55°	2035	1468	924	730	692	1823
65°	1090	739	465	377	357	1089
75°	439	319	230	204	197	470
85°	86	96	107	112	113	100
90°	13	40	73	87	89	12
95°	19	40	72	87	89	15
105°	13	33	64	84	88	13
115°	6	19	50	69	75	6
125°	4	13	34	50	55	3
135°	2	10	23	34	38	2
145°	2	8	15	23	26	2
155°	2	6	10	14	18	1
165°	4	5	8	9	11	1
175°	4	4	5	5	5	0
180°	4	4	4	4	4	

TEST NUMBER: P895302

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4308.3	4308.3	4308.3	4308.3	4308.3
2.5°	4333.4	4322.1	4273.1	4312.1	4300.8
5°	4327.2	4313.3	4261.8	4297.0	4283.2
7.5°	4313.3	4298.2	4239.2	4266.8	4251.7
10°	4293.2	4274.4	4206.5	4220.3	4196.4
12.5°	4268.1	4244.2	4160.0	4156.2	4129.8
15°	4231.6	4202.7	4102.2	4072.0	4035.6
17.5°	4193.9	4151.2	4028.0	3966.5	3916.2
20°	4144.9	4088.4	3926.2	3834.5	3771.6
22.5°	4088.4	4011.7	3811.9	3671.1	3605.8
25°	4018.0	3922.5	3666.1	3481.3	3394.6
27.5°	3942.6	3815.6	3507.7	3265.2	3165.9
30°	3852.1	3695.0	3310.4	3018.8	2912.0
32.5°	3756.6	3541.7	3094.2	2759.9	2643.0
35°	3637.2	3373.2	2837.8	2488.5	2379.1
37.5°	3507.7	3172.2	2584.0	2210.7	2087.5
40°	3350.6	2959.8	2305.0	1935.5	1813.6
42.5°	3194.8	2728.5	2037.3	1686.6	1581.1
45°	2983.6	2479.7	1772.1	1434.0	1349.8
47.5°	2771.2	2213.2	1518.2	1229.1	1146.2
50°	2535.0	1951.8	1295.8	1031.8	962.7
52.5°	2305.0	1708.0	1093.4	872.2	813.1
55°	2034.8	1467.9	923.7	730.2	692.5
57.5°	1790.9	1245.5	779.2	618.3	583.2
60°	1533.3	1055.7	652.3	522.8	490.2
62.5°	1307.1	887.3	549.2	443.6	421.0
65°	1089.6	739.0	465.0	377.0	356.9
67.5°	889.8	617.1	392.1	321.7	305.4
70°	713.9	500.2	330.5	274.0	262.7
72.5°	561.8	402.2	275.2	236.3	226.2
75°	438.6	319.2	230.0	203.6	197.3
77.5°	316.7	248.8	192.3	174.7	170.9
80°	223.7	188.5	158.4	150.8	148.3
82.5°	148.3	137.0	130.7	130.7	129.5
85°	85.5	95.5	106.8	111.9	113.1
87.5°	44.0	64.1	85.5	95.5	96.8
90°	12.6	40.2	72.9	86.7	89.2
92.5°	18.9	40.2	71.6	86.7	89.2
95°	18.9	40.2	71.6	86.7	89.2
97.5°	17.6	39.0	71.6	86.7	89.2
100°	16.3	36.4	70.4	86.7	89.2
102.5°	13.8	35.2	67.9	85.5	89.2
105°	12.6	32.7	64.1	84.2	88.0
107.5°	11.3	27.6	60.3	80.4	85.5
110°	8.8	23.9	57.8	76.7	82.9

TEST NUMBER: P895302

CATALOG NUMBER: 8TMB-SC3-ACL-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.5	21.4	54.0	72.9	79.2
115°	6.3	18.9	50.3	69.1	75.4
117.5°	5.0	17.6	45.2	64.1	70.4
120°	3.8	16.3	41.5	60.3	65.4
122.5°	3.8	15.1	36.4	55.3	60.3
125°	3.8	12.6	33.9	50.3	55.3
127.5°	2.5	11.3	30.2	45.2	50.3
130°	2.5	11.3	27.6	41.5	45.2
132.5°	2.5	10.1	25.1	37.7	41.5
135°	2.5	10.1	22.6	33.9	37.7
137.5°	2.5	8.8	20.1	31.4	35.2
140°	2.5	8.8	18.9	27.6	31.4
142.5°	2.5	7.5	16.3	26.4	28.9
145°	2.5	7.5	15.1	22.6	26.4
147.5°	2.5	7.5	13.8	21.4	23.9
150°	2.5	6.3	12.6	17.6	21.4
152.5°	2.5	6.3	11.3	16.3	20.1
155°	2.5	6.3	10.1	13.8	17.6
157.5°	2.5	6.3	10.1	12.6	15.1
160°	3.8	5.0	8.8	11.3	13.8
162.5°	3.8	5.0	7.5	10.1	12.6
165°	3.8	5.0	7.5	8.8	11.3
167.5°	3.8	5.0	6.3	7.5	8.8
170°	3.8	3.8	6.3	6.3	6.3
172.5°	3.8	3.8	5.0	6.3	5.0
175°	3.8	3.8	5.0	5.0	5.0
177.5°	3.8	3.8	5.0	5.0	5.0
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)