

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: P895322

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895322
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-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

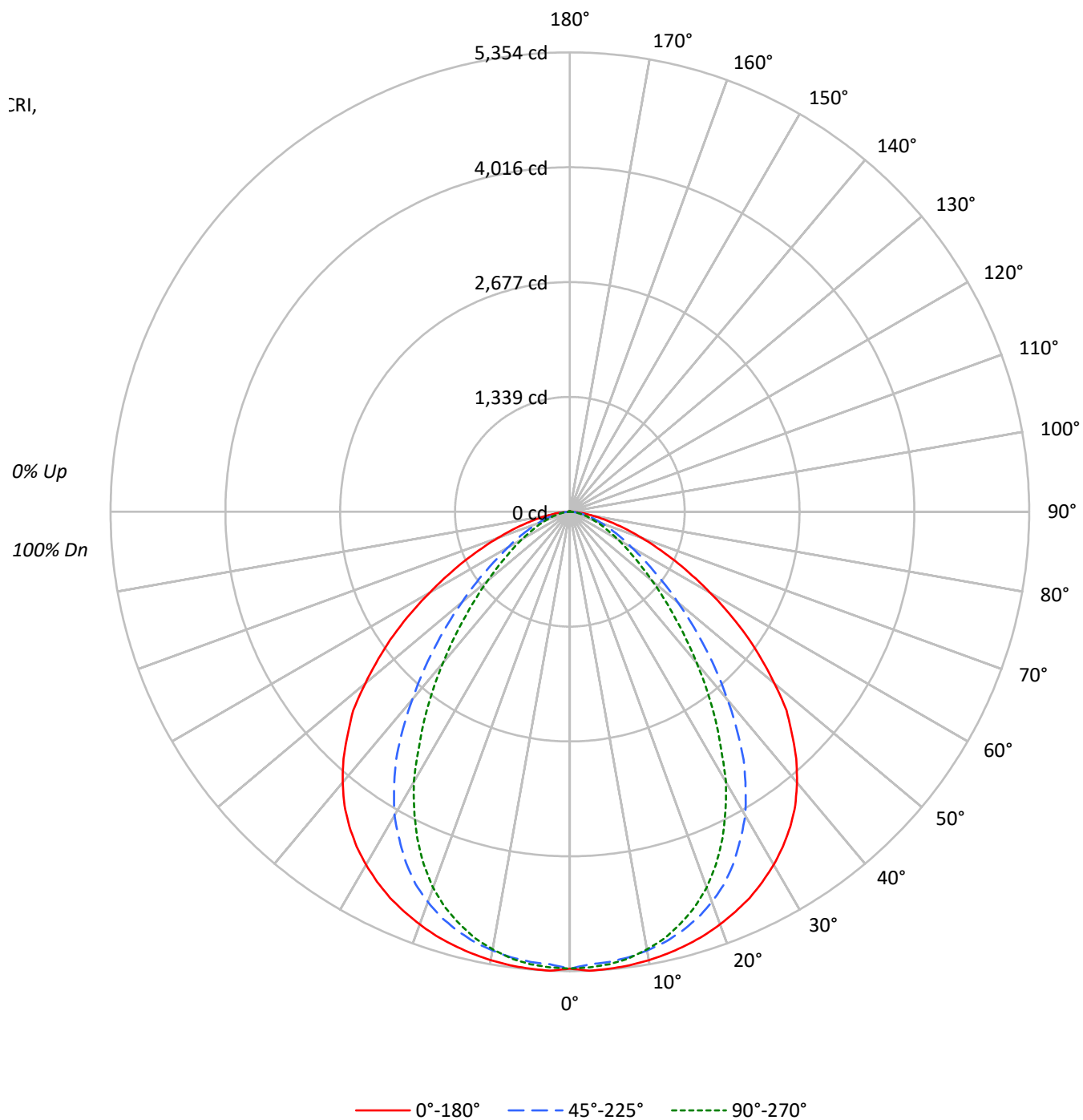
Lumens per Lamp: N/A
Luminaire Lumens: 10635.1 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P895322

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC93-HI-3500K

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	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°	27039	27039	27039
5°	27259	26846	26986
10°	27369	26778	26707
15°	27511	26587	26145
20°	27659	26157	25192
25°	27814	25306	23560
30°	27863	23976	21333
35°	27771	21901	18351
40°	27307	18955	15248
45°	26293	15927	12340
50°	24604	12972	9883
55°	22231	10426	7925
60°	19173	8485	6562
65°	16224	7066	5396
70°	13244	6009	4581
75°	10608	5065	3895
80°	8262	4331	3349
85°	6410	3828	3024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26293 cd/sqm

TEST NUMBER: P895322

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC93-HI-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.2	4.7
10°-20°	1434.6	13.5
20°-30°	2091.1	19.7
30°-40°	2254.0	21.2
40°-50°	1889.5	17.8
50°-60°	1279.3	12.0
60°-70°	729.5	6.9
70°-80°	333.6	3.1
80°-90°	87.4	0.8
90°-100°	10.8	0.1
100°-110°	7.3	0.1
110°-120°	4.0	0.0
120°-130°	2.4	0.0
130°-140°	2.2	0.0
140°-150°	1.9	0.0
150°-160°	1.6	0.0
160°-170°	1.2	0.0
170°-180°	0.5	0.0
0°-30°	4029.9	37.9
0°-40°	6283.9	59.1
0°-60°	9452.7	88.9
0°-90°	10603.2	99.7
90°-120°	22.1	0.2
90°-150°	28.6	0.3
90°-180°	32.0	0.3
0°-180°	10635.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5324	5324	5324	5324	5324	
5°	5347	5330	5266	5309	5293	509
15°	5232	5186	5057	5023	4973	1478
25°	4964	4832	4516	4308	4204	2287
35°	4479	4142	3532	3100	2960	2796
45°	3661	3054	2218	1828	1718	2818
55°	2511	1837	1178	954	895	2236
65°	1350	939	588	476	449	1347
75°	541	397	258	211	198	590
85°	110	93	66	55	52	128
90°	15	15	9	8	6	15
95°	23	14	8	5	5	18
105°	15	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	

TEST NUMBER: P895322

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC93-HI-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5323.9	5323.9	5323.9	5323.9	5323.9
2.5°	5354.4	5340.7	5279.6	5330.0	5314.7
5°	5346.8	5330.0	5265.9	5308.6	5293.3
7.5°	5331.5	5310.1	5238.4	5270.4	5250.6
10°	5307.1	5281.1	5192.5	5210.9	5178.8
12.5°	5273.5	5241.4	5136.0	5131.5	5093.3
15°	5232.3	5186.4	5056.6	5023.0	4972.6
17.5°	5181.9	5123.8	4961.9	4894.7	4833.6
20°	5117.7	5042.9	4839.8	4732.9	4661.1
22.5°	5044.4	4943.6	4697.7	4526.7	4448.8
25°	4963.5	4832.1	4516.0	4308.3	4204.4
27.5°	4862.7	4697.7	4305.2	4036.4	3929.5
30°	4751.2	4541.9	4088.4	3744.7	3637.8
32.5°	4624.4	4363.3	3811.9	3430.1	3280.5
35°	4479.3	4141.8	3532.5	3100.3	2959.8
37.5°	4315.9	3911.2	3198.0	2767.3	2625.3
40°	4118.9	3637.8	2859.0	2432.9	2300.0
42.5°	3906.6	3359.9	2533.7	2115.2	2000.7
45°	3660.7	3054.4	2217.5	1828.1	1718.1
47.5°	3424.0	2745.9	1921.2	1565.4	1475.3
50°	3114.0	2417.6	1641.8	1325.6	1250.8
52.5°	2811.6	2113.7	1403.5	1133.2	1062.9
55°	2510.7	1837.2	1177.5	954.5	895.0
57.5°	2193.1	1566.9	991.2	807.9	768.2
60°	1887.6	1333.3	835.4	678.1	646.0
62.5°	1608.2	1117.9	707.1	572.7	542.2
65°	1350.1	939.2	588.0	476.5	449.0
67.5°	1105.7	772.8	490.2	397.1	377.2
70°	891.9	626.2	404.7	326.8	308.5
72.5°	707.1	500.9	323.8	267.3	247.4
75°	540.6	397.1	258.1	210.8	198.5
77.5°	403.2	299.3	198.5	161.9	152.7
80°	282.5	216.9	148.1	122.2	114.5
82.5°	192.4	149.7	103.9	85.5	80.9
85°	110.0	93.2	65.7	55.0	51.9
87.5°	56.5	48.9	35.1	26.0	22.9
90°	15.3	15.3	9.2	7.6	6.1
92.5°	24.4	13.7	9.2	6.1	4.6
95°	22.9	13.7	7.6	4.6	4.6
97.5°	21.4	13.7	6.1	4.6	3.1
100°	19.9	12.2	6.1	3.1	3.1
102.5°	18.3	12.2	6.1	3.1	3.1
105°	15.3	10.7	4.6	3.1	1.5
107.5°	13.7	9.2	4.6	3.1	1.5
110°	10.7	7.6	4.6	3.1	1.5

TEST NUMBER: P895322

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC93-HI-3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.2	7.6	3.1	3.1	1.5
115°	7.6	6.1	3.1	1.5	1.5
117.5°	6.1	4.6	3.1	1.5	1.5
120°	4.6	4.6	3.1	1.5	1.5
122.5°	4.6	3.1	3.1	1.5	1.5
125°	3.1	3.1	3.1	1.5	1.5
127.5°	3.1	3.1	3.1	1.5	1.5
130°	3.1	3.1	3.1	1.5	1.5
132.5°	3.1	3.1	3.1	3.1	1.5
135°	1.5	3.1	3.1	3.1	1.5
137.5°	3.1	3.1	3.1	3.1	3.1
140°	3.1	3.1	3.1	3.1	3.1
142.5°	3.1	3.1	3.1	3.1	3.1
145°	3.1	3.1	3.1	3.1	3.1
147.5°	3.1	3.1	3.1	3.1	3.1
150°	3.1	3.1	3.1	3.1	3.1
152.5°	3.1	3.1	3.1	3.1	3.1
155°	3.1	3.1	3.1	4.6	4.6
157.5°	3.1	3.1	4.6	4.6	4.6
160°	3.1	3.1	4.6	4.6	4.6
162.5°	3.1	3.1	4.6	4.6	4.6
165°	3.1	4.6	4.6	4.6	4.6
167.5°	3.1	4.6	4.6	4.6	6.1
170°	3.1	4.6	4.6	6.1	6.1
172.5°	3.1	4.6	4.6	6.1	6.1
175°	4.6	4.6	4.6	6.1	6.1
177.5°	4.6	4.6	4.6	6.1	6.1
180°	4.6	4.6	4.6	4.6	4.6

(END OF REPORT)