

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: P895323

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895323
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

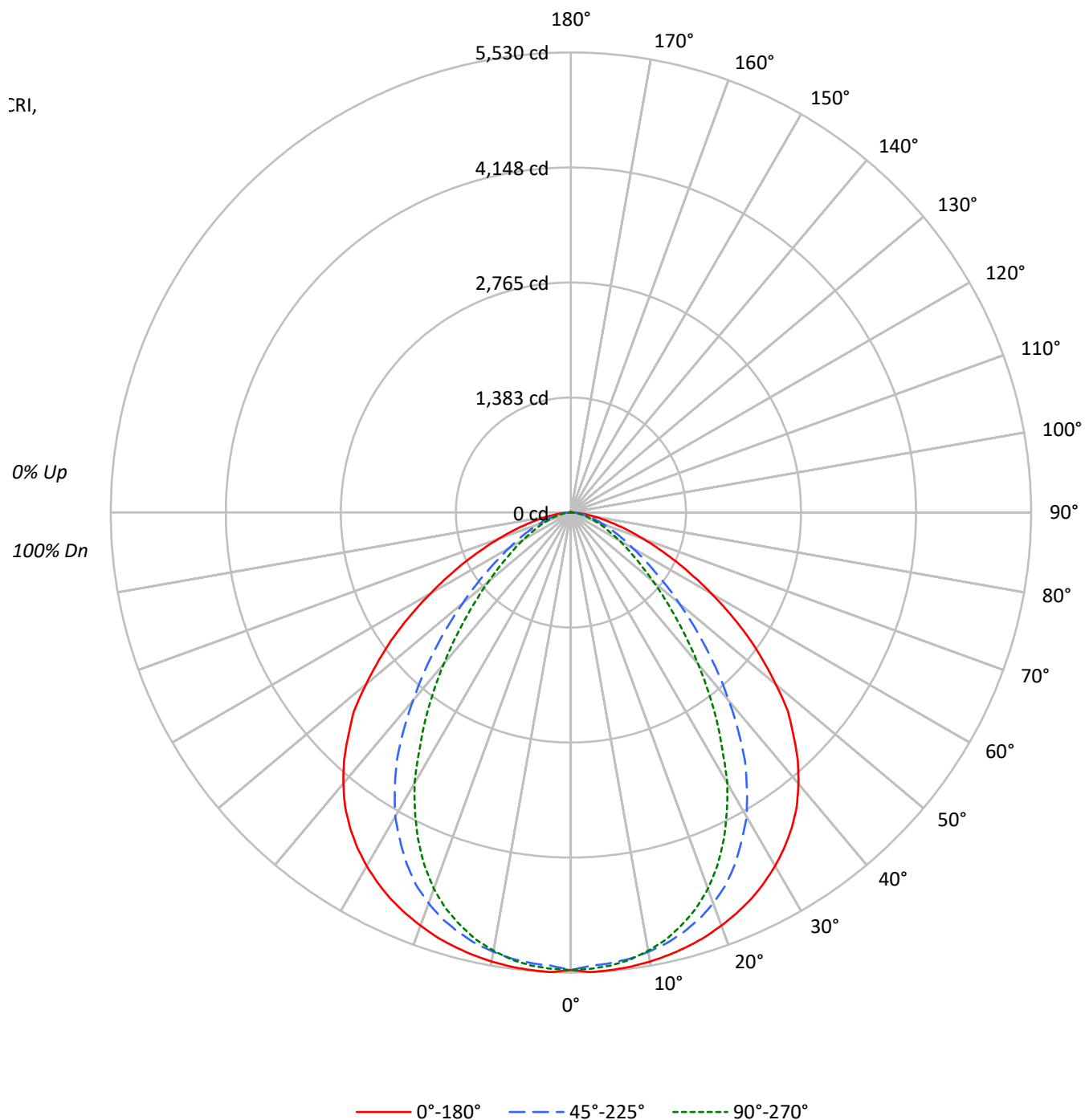
Lumens per Lamp: N/A
Luminaire Lumens: 10984.1 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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: P895323

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC93-HI-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P895323

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC93-HI-4000K

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	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°	27926	27926	27926
5°	28153	27727	27871
10°	28267	27657	27584
15°	28413	27460	27003
20°	28567	27016	26018
25°	28726	26137	24334
30°	28777	24762	22034
35°	28683	22620	18953
40°	28204	19576	15749
45°	27156	16450	12745
50°	25411	13397	10207
55°	22960	10768	8184
60°	19803	8764	6777
65°	16757	7298	5572
70°	13679	6207	4731
75°	10957	5231	4025
80°	8534	4475	3460
85°	6620	3951	3123

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27156 cd/sqm

TEST NUMBER: P895323

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC93-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.7	4.7
10°-20°	1481.7	13.5
20°-30°	2159.7	19.7
30°-40°	2328.0	21.2
40°-50°	1951.6	17.8
50°-60°	1321.2	12.0
60°-70°	753.4	6.9
70°-80°	344.6	3.1
80°-90°	90.2	0.8
90°-100°	11.1	0.1
100°-110°	7.6	0.1
110°-120°	4.1	0.0
120°-130°	2.4	0.0
130°-140°	2.3	0.0
140°-150°	2.0	0.0
150°-160°	1.7	0.0
160°-170°	1.3	0.0
170°-180°	0.5	0.0
0°-30°	4162.1	37.9
0°-40°	6490.1	59.1
0°-60°	9762.9	88.9
0°-90°	10951.1	99.7
90°-120°	22.8	0.2
90°-150°	29.6	0.3
90°-180°	33.0	0.3
0°-180°	10984.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5499	5499	5499	5499	5499	
5°	5522	5505	5439	5483	5467	526
15°	5404	5357	5223	5188	5136	1527
25°	5126	4991	4664	4450	4342	2362
35°	4626	4278	3648	3202	3057	2888
45°	3781	3155	2290	1888	1774	2910
55°	2593	1898	1216	986	924	2309
65°	1394	970	607	492	464	1391
75°	558	410	267	218	205	609
85°	114	96	68	57	54	133
90°	16	16	10	8	6	16
95°	24	14	8	5	5	19
105°	16	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: P895323

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC93-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5498.6	5498.6	5498.6	5498.6	5498.6
2.5°	5530.1	5515.9	5452.9	5504.9	5489.1
5°	5522.3	5504.9	5438.7	5482.8	5467.0
7.5°	5506.5	5484.4	5410.3	5443.4	5422.9
10°	5481.2	5454.4	5362.9	5381.9	5348.7
12.5°	5446.5	5413.4	5304.6	5299.9	5260.4
15°	5404.0	5356.6	5222.6	5187.9	5135.8
17.5°	5351.9	5292.0	5124.8	5055.4	4992.3
20°	5285.7	5208.4	4998.6	4888.2	4814.0
22.5°	5209.9	5105.8	4851.9	4675.2	4594.8
25°	5126.3	4990.7	4664.2	4449.7	4342.4
27.5°	5022.2	4851.9	4446.5	4168.9	4058.5
30°	4907.1	4691.0	4222.5	3867.6	3757.2
32.5°	4776.2	4506.5	3937.0	3542.7	3388.1
35°	4626.3	4277.7	3648.4	3202.0	3056.9
37.5°	4457.6	4039.6	3302.9	2858.1	2711.4
40°	4254.1	3757.2	2952.8	2512.7	2375.5
42.5°	4034.8	3470.1	2616.8	2184.6	2066.3
45°	3780.9	3154.7	2290.3	1888.1	1774.5
47.5°	3536.4	2836.1	1984.3	1616.8	1523.7
50°	3216.2	2496.9	1695.6	1369.1	1291.8
52.5°	2903.9	2183.0	1449.6	1170.4	1097.8
55°	2593.1	1897.5	1216.1	985.8	924.3
57.5°	2265.1	1618.3	1023.7	834.4	793.4
60°	1949.6	1377.0	862.8	700.3	667.2
62.5°	1660.9	1154.6	730.3	591.5	560.0
65°	1394.4	970.1	607.3	492.1	463.7
67.5°	1142.0	798.1	506.3	410.1	389.6
70°	921.2	646.7	418.0	337.6	318.6
72.5°	730.3	517.4	334.4	276.0	255.5
75°	558.4	410.1	266.6	217.7	205.1
77.5°	416.4	309.2	205.1	167.2	157.7
80°	291.8	224.0	153.0	126.2	118.3
82.5°	198.7	154.6	107.3	88.3	83.6
85°	113.6	96.2	67.8	56.8	53.6
87.5°	58.4	50.5	36.3	26.8	23.7
90°	15.8	15.8	9.5	7.9	6.3
92.5°	25.2	14.2	9.5	6.3	4.7
95°	23.7	14.2	7.9	4.7	4.7
97.5°	22.1	14.2	6.3	4.7	3.2
100°	20.5	12.6	6.3	3.2	3.2
102.5°	18.9	12.6	6.3	3.2	3.2
105°	15.8	11.0	4.7	3.2	1.6
107.5°	14.2	9.5	4.7	3.2	1.6
110°	11.0	7.9	4.7	3.2	1.6

TEST NUMBER: P895323

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC93-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.5	7.9	3.2	3.2	1.6
115°	7.9	6.3	3.2	1.6	1.6
117.5°	6.3	4.7	3.2	1.6	1.6
120°	4.7	4.7	3.2	1.6	1.6
122.5°	4.7	3.2	3.2	1.6	1.6
125°	3.2	3.2	3.2	1.6	1.6
127.5°	3.2	3.2	3.2	1.6	1.6
130°	3.2	3.2	3.2	1.6	1.6
132.5°	3.2	3.2	3.2	3.2	1.6
135°	1.6	3.2	3.2	3.2	1.6
137.5°	3.2	3.2	3.2	3.2	3.2
140°	3.2	3.2	3.2	3.2	3.2
142.5°	3.2	3.2	3.2	3.2	3.2
145°	3.2	3.2	3.2	3.2	3.2
147.5°	3.2	3.2	3.2	3.2	3.2
150°	3.2	3.2	3.2	3.2	3.2
152.5°	3.2	3.2	3.2	3.2	3.2
155°	3.2	3.2	3.2	4.7	4.7
157.5°	3.2	3.2	4.7	4.7	4.7
160°	3.2	3.2	4.7	4.7	4.7
162.5°	3.2	3.2	4.7	4.7	4.7
165°	3.2	4.7	4.7	4.7	4.7
167.5°	3.2	4.7	4.7	4.7	6.3
170°	3.2	4.7	4.7	6.3	6.3
172.5°	3.2	4.7	4.7	6.3	6.3
175°	4.7	4.7	4.7	6.3	6.3
177.5°	4.7	4.7	4.7	6.3	6.3
180°	4.7	4.7	4.7	4.7	4.7

(END OF REPORT)