

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: P895314

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895314
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-CC83-HI-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

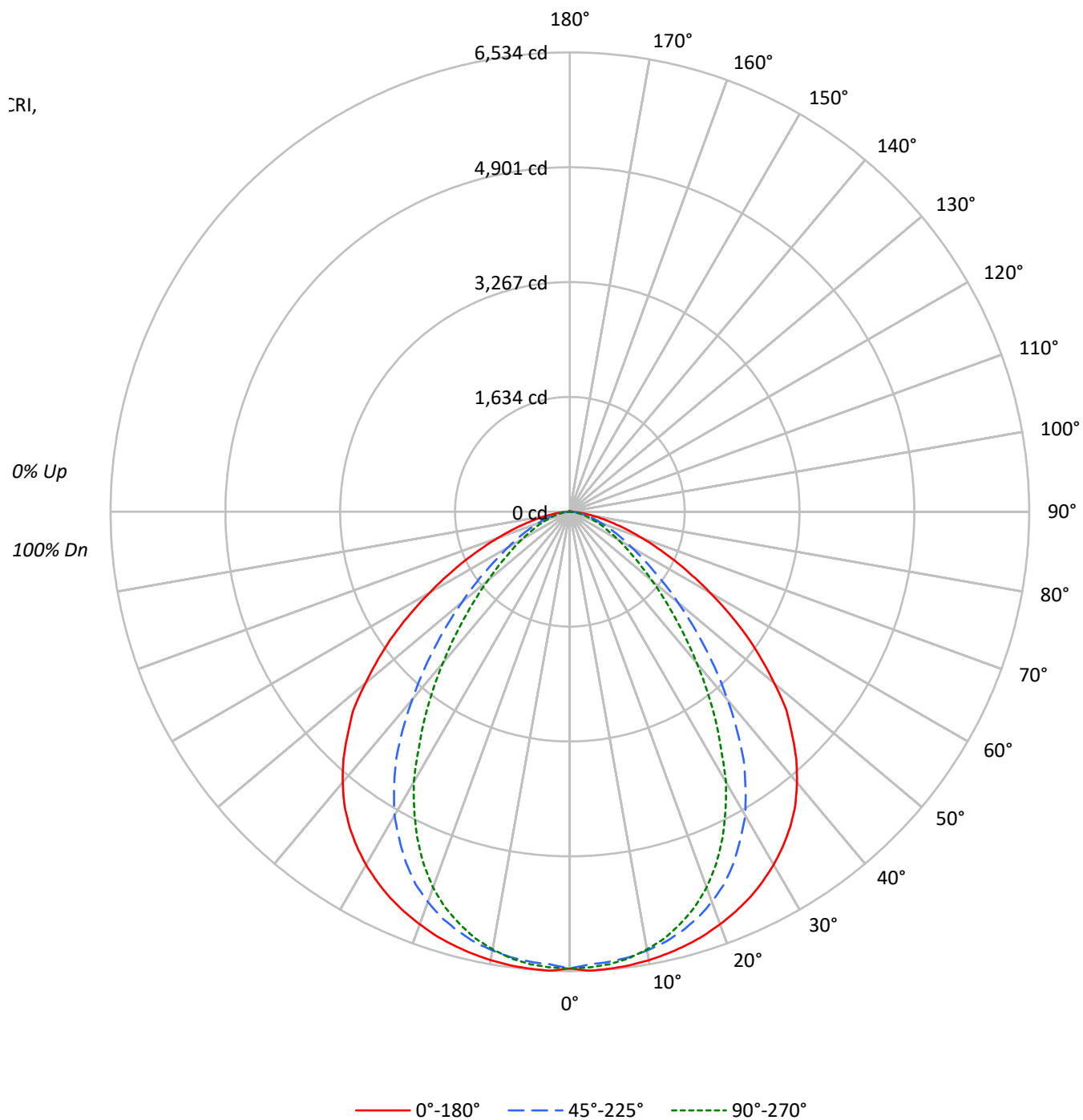
Lumens per Lamp: N/A
Luminaire Lumens: 12978.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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: P895314

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC83-HI-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P895314

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC83-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°	32995	32995	32995
5°	33264	32760	32931
10°	33399	32678	32591
15°	33571	32444	31905
20°	33753	31920	30742
25°	33942	30882	28751
30°	34001	29258	26034
35°	33890	26726	22393
40°	33323	23130	18608
45°	32085	19436	15059
50°	30024	15830	12060
55°	27129	12723	9670
60°	23398	10354	8007
65°	19798	8622	6584
70°	16162	7334	5591
75°	12945	6181	4755
80°	10084	5288	4089
85°	7820	4668	3694

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32085 cd/sqm

TEST NUMBER: P895314

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC83-HI-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.2	4.7
10°-20°	1750.7	13.5
20°-30°	2551.8	19.7
30°-40°	2750.6	21.2
40°-50°	2305.8	17.8
50°-60°	1561.1	12.0
60°-70°	890.2	6.9
70°-80°	407.1	3.1
80°-90°	106.6	0.8
90°-100°	13.1	0.1
100°-110°	8.9	0.1
110°-120°	4.9	0.0
120°-130°	2.9	0.0
130°-140°	2.7	0.0
140°-150°	2.3	0.0
150°-160°	2.0	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	4917.7	37.9
0°-40°	7668.3	59.1
0°-60°	11535.2	88.9
0°-90°	12939.1	99.7
90°-120°	26.9	0.2
90°-150°	34.8	0.3
90°-180°	39.0	0.3
0°-180°	12978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6497	6497	6497	6497	6497	
5°	6525	6504	6426	6478	6460	621
15°	6385	6329	6171	6130	6068	1804
25°	6057	5897	5511	5257	5131	2791
35°	5466	5054	4311	3783	3612	3413
45°	4467	3727	2706	2231	2097	3439
55°	3064	2242	1437	1165	1092	2729
65°	1648	1146	718	582	548	1644
75°	660	485	315	257	242	719
85°	134	114	80	67	63	157
90°	19	19	11	9	8	19
95°	28	17	9	6	6	22
105°	19	13	6	4	2	20
115°	9	8	4	2	2	9
125°	4	4	4	2	2	4
135°	2	4	4	4	2	3
145°	4	4	4	4	4	2
155°	4	4	4	6	6	2
165°	4	6	6	6	6	1
175°	6	6	6	8	8	0
180°	6	6	6	6	6	

TEST NUMBER: P895314

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC83-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6496.8	6496.8	6496.8	6496.8	6496.8
2.5°	6534.1	6517.3	6442.7	6504.2	6485.6
5°	6524.7	6504.2	6426.0	6478.2	6459.5
7.5°	6506.1	6480.0	6392.4	6431.6	6407.3
10°	6476.3	6444.6	6336.5	6358.9	6319.7
12.5°	6435.3	6396.2	6267.6	6262.0	6215.4
15°	6385.0	6329.1	6170.6	6129.6	6068.1
17.5°	6323.5	6252.7	6055.1	5973.1	5898.6
20°	6245.2	6153.9	5906.0	5775.5	5688.0
22.5°	6155.7	6032.7	5732.7	5524.0	5428.9
25°	6057.0	5896.7	5510.9	5257.4	5130.7
27.5°	5934.0	5732.7	5253.7	4925.7	4795.3
30°	5797.9	5542.6	4989.1	4569.7	4439.3
32.5°	5643.2	5324.5	4651.7	4185.8	4003.2
35°	5466.2	5054.3	4310.7	3783.3	3611.8
37.5°	5266.8	4772.9	3902.5	3377.0	3203.7
40°	5026.3	4439.3	3488.8	2968.8	2806.7
42.5°	4767.3	4100.1	3091.8	2581.2	2441.4
45°	4467.2	3727.4	2706.1	2230.8	2096.6
47.5°	4178.4	3350.9	2344.5	1910.3	1800.3
50°	3800.0	2950.2	2003.5	1617.7	1526.4
52.5°	3431.0	2579.3	1712.7	1382.9	1297.1
55°	3063.9	2242.0	1436.9	1164.8	1092.1
57.5°	2676.2	1912.1	1209.5	985.9	937.4
60°	2303.5	1627.0	1019.4	827.5	788.3
62.5°	1962.5	1364.2	862.9	698.9	661.6
65°	1647.5	1146.2	717.5	581.5	547.9
67.5°	1349.3	943.0	598.2	484.6	460.3
70°	1088.4	764.1	493.9	398.8	376.5
72.5°	862.9	611.3	395.1	326.1	301.9
75°	659.7	484.6	315.0	257.2	242.3
77.5°	492.0	365.3	242.3	197.6	186.4
80°	344.8	264.6	180.8	149.1	139.8
82.5°	234.8	182.6	126.7	104.4	98.8
85°	134.2	113.7	80.1	67.1	63.4
87.5°	69.0	59.6	42.9	31.7	28.0
90°	18.6	18.6	11.2	9.3	7.5
92.5°	29.8	16.8	11.2	7.5	5.6
95°	28.0	16.8	9.3	5.6	5.6
97.5°	26.1	16.8	7.5	5.6	3.7
100°	24.2	14.9	7.5	3.7	3.7
102.5°	22.4	14.9	7.5	3.7	3.7
105°	18.6	13.0	5.6	3.7	1.9
107.5°	16.8	11.2	5.6	3.7	1.9
110°	13.0	9.3	5.6	3.7	1.9



TEST NUMBER: P895314

CATALOG NUMBER: 8TMB-SC3-AOL-UNV-CC83-HI-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.2	9.3	3.7	3.7	1.9
115°	9.3	7.5	3.7	1.9	1.9
117.5°	7.5	5.6	3.7	1.9	1.9
120°	5.6	5.6	3.7	1.9	1.9
122.5°	5.6	3.7	3.7	1.9	1.9
125°	3.7	3.7	3.7	1.9	1.9
127.5°	3.7	3.7	3.7	1.9	1.9
130°	3.7	3.7	3.7	1.9	1.9
132.5°	3.7	3.7	3.7	3.7	1.9
135°	1.9	3.7	3.7	3.7	1.9
137.5°	3.7	3.7	3.7	3.7	3.7
140°	3.7	3.7	3.7	3.7	3.7
142.5°	3.7	3.7	3.7	3.7	3.7
145°	3.7	3.7	3.7	3.7	3.7
147.5°	3.7	3.7	3.7	3.7	3.7
150°	3.7	3.7	3.7	3.7	3.7
152.5°	3.7	3.7	3.7	3.7	3.7
155°	3.7	3.7	3.7	5.6	5.6
157.5°	3.7	3.7	5.6	5.6	5.6
160°	3.7	3.7	5.6	5.6	5.6
162.5°	3.7	3.7	5.6	5.6	5.6
165°	3.7	5.6	5.6	5.6	5.6
167.5°	3.7	5.6	5.6	5.6	7.5
170°	3.7	5.6	5.6	7.5	7.5
172.5°	3.7	5.6	5.6	7.5	7.5
175°	5.6	5.6	5.6	7.5	7.5
177.5°	5.6	5.6	5.6	7.5	7.5
180°	5.6	5.6	5.6	5.6	5.6

(END OF REPORT)