

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: P895298

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895298
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-LOW-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 3500K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

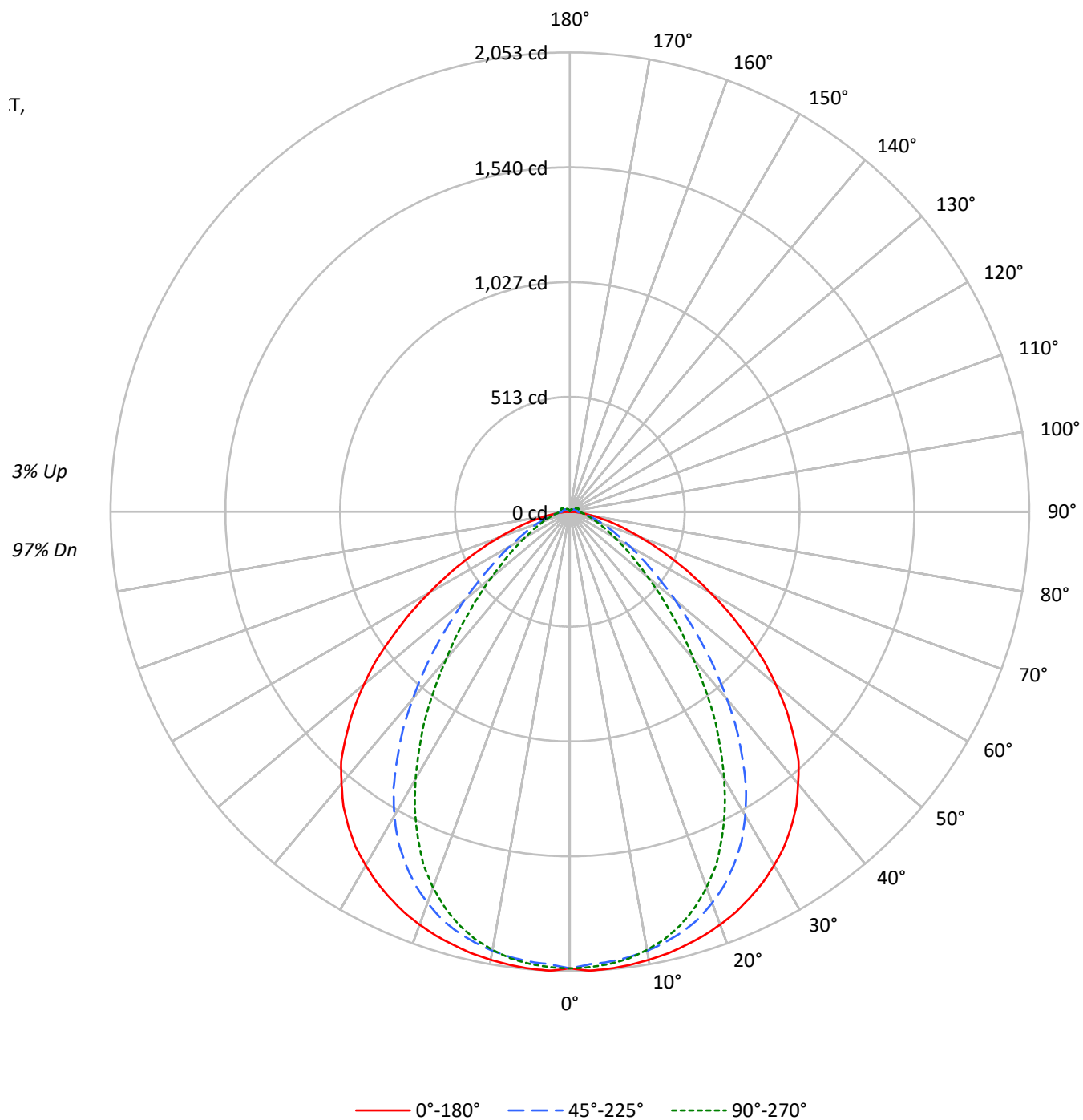
Lumens per Lamp: N/A
Luminaire Lumens: 4187.0 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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°	10366	10366	10366
5°	10442	10091	10068
10°	10470	9878	9716
15°	10511	9627	9273
20°	10573	9279	8668
25°	10615	8793	7862
30°	10638	8123	6850
35°	10606	7183	5730
40°	10433	6072	4510
45°	10047	4906	3497
50°	9372	3810	2623
55°	8410	2919	2006
60°	7247	2247	1528
65°	6067	1775	1215
70°	4882	1427	992
75°	3925	1153	845
80°	2927	954	740
85°	2108	815	681

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10047 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	4.6
10°-20°	550.7	13.2
20°-30°	802.9	19.2
30°-40°	862.7	20.6
40°-50°	718.0	17.1
50°-60°	480.2	11.5
60°-70°	274.9	6.6
70°-80°	136.7	3.3
80°-90°	55.9	1.3
90°-100°	32.5	0.8
100°-110°	28.6	0.7
110°-120°	21.0	0.5
120°-130°	13.5	0.3
130°-140°	8.1	0.2
140°-150°	4.5	0.1
150°-160°	2.3	0.1
160°-170°	1.0	0.0
170°-180°	0.2	0.0
0°-30°	1547.0	36.9
0°-40°	2409.7	57.6
0°-60°	3607.9	86.2
0°-90°	4075.4	97.3
90°-120°	82.1	2.0
90°-150°	108.2	2.6
90°-180°	112.0	2.7
0°-180°	4187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2041	2041	2041	2041	2041	
5°	2050	2043	2019	2036	2029	195
15°	2005	1991	1943	1929	1912	567
25°	1904	1858	1737	1649	1608	878
35°	1723	1598	1344	1179	1127	1076
45°	1414	1175	840	679	640	1087
55°	964	695	438	346	328	863
65°	516	350	220	179	169	516
75°	208	151	109	96	94	223
85°	40	45	51	53	54	47
90°	6	19	34	41	42	6
95°	9	19	34	41	42	7
105°	6	16	30	40	42	6
115°	3	9	24	33	36	3
125°	2	6	16	24	26	1
135°	1	5	11	16	18	1
145°	1	4	7	11	12	1
155°	1	3	5	6	8	1
165°	2	2	4	4	5	1
175°	2	2	2	2	2	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2041.1	2041.1	2041.1	2041.1	2041.1
2.5°	2053.0	2047.6	2024.4	2042.8	2037.5
5°	2050.0	2043.4	2019.0	2035.7	2029.1
7.5°	2043.4	2036.3	2008.3	2021.4	2014.3
10°	2033.9	2025.0	1992.8	1999.4	1988.1
12.5°	2022.0	2010.7	1970.8	1969.0	1956.5
15°	2004.7	1991.0	1943.4	1929.1	1911.9
17.5°	1986.9	1966.6	1908.3	1879.1	1855.3
20°	1963.7	1936.9	1860.1	1816.6	1786.8
22.5°	1936.9	1900.5	1805.9	1739.2	1708.2
25°	1903.5	1858.3	1736.8	1649.3	1608.2
27.5°	1867.8	1807.7	1661.8	1546.9	1499.8
30°	1824.9	1750.5	1568.3	1430.2	1379.6
32.5°	1779.7	1677.9	1465.9	1307.5	1252.1
35°	1723.1	1598.1	1344.4	1178.9	1127.1
37.5°	1661.8	1502.8	1224.2	1047.3	989.0
40°	1587.4	1402.2	1092.0	916.9	859.2
42.5°	1513.5	1292.6	965.2	799.0	749.0
45°	1413.5	1174.7	839.5	679.4	639.5
47.5°	1312.9	1048.5	719.3	582.3	543.0
50°	1200.9	924.7	613.9	488.8	456.1
52.5°	1092.0	809.2	518.0	413.2	385.2
55°	964.0	695.4	437.6	345.9	328.1
57.5°	848.5	590.0	369.2	292.9	276.3
60°	726.4	500.1	309.0	247.7	232.2
62.5°	619.2	420.4	260.2	210.2	199.5
65°	516.2	350.1	220.3	178.6	169.1
67.5°	421.5	292.3	185.8	152.4	144.7
70°	338.2	237.0	156.6	129.8	124.4
72.5°	266.1	190.5	130.4	111.9	107.2
75°	207.8	151.2	109.0	96.5	93.5
77.5°	150.0	117.9	91.1	82.8	81.0
80°	106.0	89.3	75.0	71.4	70.3
82.5°	70.3	64.9	61.9	61.9	61.3
85°	40.5	45.3	50.6	53.0	53.6
87.5°	20.8	30.4	40.5	45.3	45.8
90°	6.0	19.1	34.5	41.1	42.3
92.5°	8.9	19.1	33.9	41.1	42.3
95°	8.9	19.1	33.9	41.1	42.3
97.5°	8.3	18.5	33.9	41.1	42.3
100°	7.7	17.3	33.3	41.1	42.3
102.5°	6.5	16.7	32.2	40.5	42.3
105°	6.0	15.5	30.4	39.9	41.7
107.5°	5.4	13.1	28.6	38.1	40.5
110°	4.2	11.3	27.4	36.3	39.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.6	10.1	25.6	34.5	37.5
115°	3.0	8.9	23.8	32.7	35.7
117.5°	2.4	8.3	21.4	30.4	33.3
120°	1.8	7.7	19.6	28.6	31.0
122.5°	1.8	7.1	17.3	26.2	28.6
125°	1.8	6.0	16.1	23.8	26.2
127.5°	1.2	5.4	14.3	21.4	23.8
130°	1.2	5.4	13.1	19.6	21.4
132.5°	1.2	4.8	11.9	17.9	19.6
135°	1.2	4.8	10.7	16.1	17.9
137.5°	1.2	4.2	9.5	14.9	16.7
140°	1.2	4.2	8.9	13.1	14.9
142.5°	1.2	3.6	7.7	12.5	13.7
145°	1.2	3.6	7.1	10.7	12.5
147.5°	1.2	3.6	6.5	10.1	11.3
150°	1.2	3.0	6.0	8.3	10.1
152.5°	1.2	3.0	5.4	7.7	9.5
155°	1.2	3.0	4.8	6.5	8.3
157.5°	1.2	3.0	4.8	6.0	7.1
160°	1.8	2.4	4.2	5.4	6.5
162.5°	1.8	2.4	3.6	4.8	6.0
165°	1.8	2.4	3.6	4.2	5.4
167.5°	1.8	2.4	3.0	3.6	4.2
170°	1.8	1.8	3.0	3.0	3.0
172.5°	1.8	1.8	2.4	3.0	2.4
175°	1.8	1.8	2.4	2.4	2.4
177.5°	1.8	1.8	2.4	2.4	2.4
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)