

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: P895318

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895318
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-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
5000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

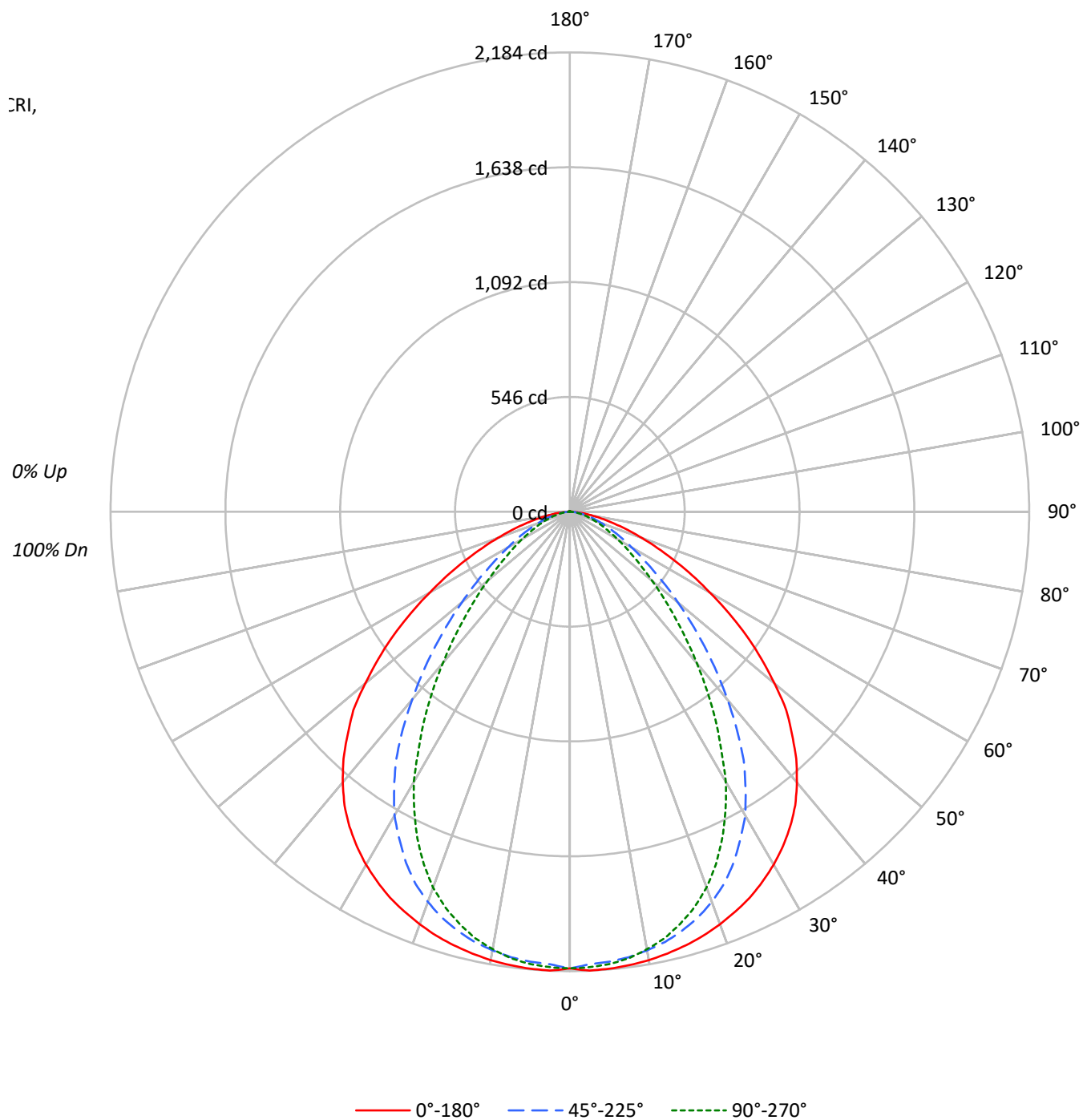
Lumens per Lamp: N/A
Luminaire Lumens: 4336.9 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	85	100	93	88	84	90	85	82		87	83	80		84
3	94	85	78	73	92	84	77	72	81	75	71		78	73	70		76
4	87	77	69	63	85	76	68	63	73	67	62		71	66	61		69
5	81	70	62	56	79	69	61	55	67	60	55		65	59	54		63
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53
8	66	53	46	40	64	53	45	40	51	45	40		50	44	40		49
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46
10	58	46	38	34	57	45	38	33	44	38	33		43	37	33		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11026	11026	11026
5°	11116	10948	11005
10°	11161	10920	10891
15°	11219	10842	10662
20°	11279	10667	10273
25°	11343	10320	9608
30°	11363	9778	8700
35°	11325	8932	7483
40°	11136	7730	6218
45°	10723	6495	5033
50°	10034	5290	4030
55°	9066	4252	3232
60°	7819	3461	2675
65°	6617	2882	2200
70°	5401	2450	1868
75°	4327	2066	1589
80°	3369	1767	1366
85°	2611	1562	1235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10723 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	4.7
10°-20°	585.1	13.5
20°-30°	852.8	19.7
30°-40°	919.2	21.2
40°-50°	770.6	17.8
50°-60°	521.7	12.0
60°-70°	297.5	6.9
70°-80°	136.1	3.1
80°-90°	35.6	0.8
90°-100°	4.4	0.1
100°-110°	3.0	0.1
110°-120°	1.6	0.0
120°-130°	0.9	0.0
130°-140°	0.9	0.0
140°-150°	0.8	0.0
150°-160°	0.7	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1643.4	37.9
0°-40°	2562.6	59.1
0°-60°	3854.9	88.9
0°-90°	4324.0	99.7
90°-120°	9.0	0.2
90°-150°	11.5	0.3
90°-180°	13.0	0.3
0°-180°	4336.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2171	2171	2171	2171	2171	
5°	2180	2174	2147	2165	2159	208
15°	2134	2115	2062	2048	2028	603
25°	2024	1971	1842	1757	1715	933
35°	1827	1689	1441	1264	1207	1140
45°	1493	1246	904	746	701	1149
55°	1024	749	480	389	365	912
65°	551	383	240	194	183	549
75°	220	162	105	86	81	240
85°	45	38	27	22	21	52
90°	6	6	4	3	2	6
95°	9	6	3	2	2	7
105°	6	4	2	1	1	7
115°	3	2	1	1	1	3
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	2	2	1
165°	1	2	2	2	2	0
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°	2171.1	2171.1	2171.1	2171.1	2171.1
2.5°	2183.6	2178.0	2153.0	2173.6	2167.4
5°	2180.4	2173.6	2147.4	2164.9	2158.6
7.5°	2174.2	2165.5	2136.2	2149.3	2141.2
10°	2164.3	2153.7	2117.5	2125.0	2111.9
12.5°	2150.6	2137.5	2094.5	2092.6	2077.1
15°	2133.7	2115.1	2062.1	2048.4	2027.9
17.5°	2113.2	2089.5	2023.5	1996.1	1971.2
20°	2087.0	2056.5	1973.7	1930.1	1900.8
22.5°	2057.1	2016.0	1915.8	1846.0	1814.2
25°	2024.1	1970.6	1841.6	1756.9	1714.6
27.5°	1983.0	1915.8	1755.7	1646.1	1602.5
30°	1937.6	1852.2	1667.3	1527.1	1483.5
32.5°	1885.9	1779.4	1554.5	1398.8	1337.8
35°	1826.7	1689.1	1440.6	1264.3	1207.0
37.5°	1760.1	1595.0	1304.2	1128.5	1070.6
40°	1679.7	1483.5	1165.9	992.1	937.9
42.5°	1593.1	1370.2	1033.2	862.6	815.9
45°	1492.9	1245.6	904.3	745.5	700.7
47.5°	1396.3	1119.8	783.5	638.4	601.6
50°	1269.9	985.9	669.5	540.6	510.1
52.5°	1146.6	862.0	572.4	462.1	433.5
55°	1023.9	749.2	480.2	389.3	365.0
57.5°	894.4	639.0	404.2	329.5	313.3
60°	769.8	543.7	340.7	276.5	263.4
62.5°	655.8	455.9	288.4	233.6	221.1
65°	550.6	383.0	239.8	194.3	183.1
67.5°	450.9	315.1	199.9	161.9	153.8
70°	363.7	255.4	165.0	133.3	125.8
72.5°	288.4	204.3	132.0	109.0	100.9
75°	220.5	161.9	105.3	85.9	81.0
77.5°	164.4	122.1	81.0	66.0	62.3
80°	115.2	88.4	60.4	49.8	46.7
82.5°	78.5	61.0	42.4	34.9	33.0
85°	44.8	38.0	26.8	22.4	21.2
87.5°	23.0	19.9	14.3	10.6	9.3
90°	6.2	6.2	3.7	3.1	2.5
92.5°	10.0	5.6	3.7	2.5	1.9
95°	9.3	5.6	3.1	1.9	1.9
97.5°	8.7	5.6	2.5	1.9	1.2
100°	8.1	5.0	2.5	1.2	1.2
102.5°	7.5	5.0	2.5	1.2	1.2
105°	6.2	4.4	1.9	1.2	0.6
107.5°	5.6	3.7	1.9	1.2	0.6
110°	4.4	3.1	1.9	1.2	0.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	3.1	1.2	1.2	0.6
115°	3.1	2.5	1.2	0.6	0.6
117.5°	2.5	1.9	1.2	0.6	0.6
120°	1.9	1.9	1.2	0.6	0.6
122.5°	1.9	1.2	1.2	0.6	0.6
125°	1.2	1.2	1.2	0.6	0.6
127.5°	1.2	1.2	1.2	0.6	0.6
130°	1.2	1.2	1.2	0.6	0.6
132.5°	1.2	1.2	1.2	1.2	0.6
135°	0.6	1.2	1.2	1.2	0.6
137.5°	1.2	1.2	1.2	1.2	1.2
140°	1.2	1.2	1.2	1.2	1.2
142.5°	1.2	1.2	1.2	1.2	1.2
145°	1.2	1.2	1.2	1.2	1.2
147.5°	1.2	1.2	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.2	1.2
152.5°	1.2	1.2	1.2	1.2	1.2
155°	1.2	1.2	1.2	1.9	1.9
157.5°	1.2	1.2	1.9	1.9	1.9
160°	1.2	1.2	1.9	1.9	1.9
162.5°	1.2	1.2	1.9	1.9	1.9
165°	1.2	1.9	1.9	1.9	1.9
167.5°	1.2	1.9	1.9	1.9	2.5
170°	1.2	1.9	1.9	2.5	2.5
172.5°	1.2	1.9	1.9	2.5	2.5
175°	1.9	1.9	1.9	2.5	2.5
177.5°	1.9	1.9	1.9	2.5	2.5
180°	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)