

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: P895317

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895317
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 800
4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

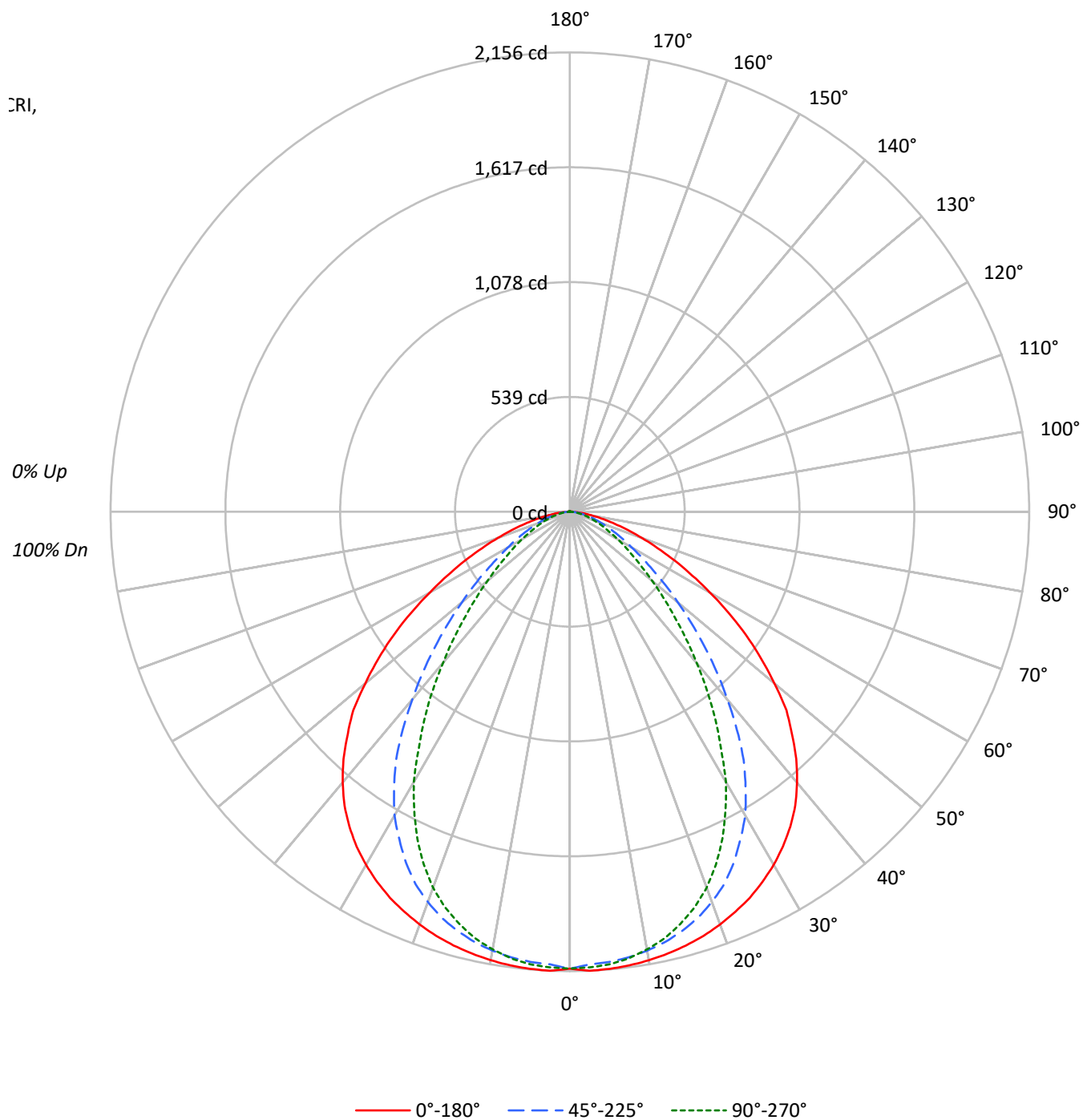
Lumens per Lamp: N/A
Luminaire Lumens: 4282.9 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

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	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	67	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°	10889	10889	10889
5°	10978	10812	10868
10°	11022	10784	10756
15°	11079	10707	10529
20°	11139	10534	10145
25°	11201	10192	9488
30°	11221	9656	8592
35°	11184	8820	7390
40°	10997	7634	6141
45°	10589	6415	4969
50°	9909	5224	3980
55°	8953	4199	3191
60°	7722	3417	2643
65°	6534	2846	2173
70°	5334	2420	1844
75°	4272	2039	1570
80°	3328	1746	1348
85°	2581	1538	1218

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10589 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	4.7
10°-20°	577.8	13.5
20°-30°	842.1	19.7
30°-40°	907.7	21.2
40°-50°	761.0	17.8
50°-60°	515.2	12.0
60°-70°	293.8	6.9
70°-80°	134.4	3.1
80°-90°	35.2	0.8
90°-100°	4.3	0.1
100°-110°	2.9	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°	0.6	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	1622.9	37.9
0°-40°	2530.7	59.1
0°-60°	3806.8	88.9
0°-90°	4270.2	99.7
90°-120°	8.8	0.2
90°-150°	11.4	0.3
90°-180°	13.0	0.3
0°-180°	4282.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2144	2144	2144	2144	2144	
5°	2153	2146	2121	2138	2132	205
15°	2107	2089	2036	2023	2003	595
25°	1999	1946	1819	1735	1693	921
35°	1804	1668	1423	1249	1192	1126
45°	1474	1230	893	736	692	1135
55°	1011	740	474	384	360	900
65°	544	378	237	192	181	542
75°	218	160	104	85	80	237
85°	44	38	26	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°	2144.1	2144.1	2144.1	2144.1	2144.1
2.5°	2156.4	2150.8	2126.2	2146.5	2140.4
5°	2153.3	2146.5	2120.7	2137.9	2131.8
7.5°	2147.1	2138.5	2109.6	2122.5	2114.5
10°	2137.3	2126.9	2091.2	2098.6	2085.6
12.5°	2123.8	2110.9	2068.4	2066.6	2051.2
15°	2107.2	2088.7	2036.4	2022.9	2002.6
17.5°	2086.9	2063.5	1998.3	1971.2	1946.6
20°	2061.0	2030.9	1949.1	1906.0	1877.1
22.5°	2031.5	1990.9	1891.9	1823.0	1791.6
25°	1998.9	1946.0	1818.7	1735.1	1693.2
27.5°	1958.3	1891.9	1733.8	1625.6	1582.5
30°	1913.4	1829.2	1646.5	1508.1	1465.1
32.5°	1862.4	1757.2	1535.2	1381.4	1321.1
35°	1803.9	1668.0	1422.6	1248.6	1192.0
37.5°	1738.1	1575.1	1287.9	1114.5	1057.3
40°	1658.8	1465.1	1151.4	979.8	926.3
42.5°	1573.3	1353.1	1020.4	851.8	805.7
45°	1474.3	1230.1	893.1	736.2	691.9
47.5°	1378.9	1105.9	773.7	630.4	594.1
50°	1254.1	973.6	661.2	533.9	503.7
52.5°	1132.3	851.2	565.2	456.4	428.1
55°	1011.1	739.9	474.2	384.4	360.4
57.5°	883.2	631.0	399.2	325.4	309.4
60°	760.2	536.9	336.4	273.1	260.2
62.5°	647.6	450.2	284.8	230.6	218.3
65°	543.7	378.3	236.8	191.9	180.8
67.5°	445.3	311.2	197.4	159.9	151.9
70°	359.2	252.2	163.0	131.6	124.2
72.5°	284.8	201.7	130.4	107.6	99.6
75°	217.7	159.9	103.9	84.9	80.0
77.5°	162.4	120.6	80.0	65.2	61.5
80°	113.8	87.3	59.7	49.2	46.1
82.5°	77.5	60.3	41.8	34.4	32.6
85°	44.3	37.5	26.4	22.1	20.9
87.5°	22.8	19.7	14.1	10.5	9.2
90°	6.2	6.2	3.7	3.1	2.5
92.5°	9.8	5.5	3.7	2.5	1.8
95°	9.2	5.5	3.1	1.8	1.8
97.5°	8.6	5.5	2.5	1.8	1.2
100°	8.0	4.9	2.5	1.2	1.2
102.5°	7.4	4.9	2.5	1.2	1.2
105°	6.2	4.3	1.8	1.2	0.6
107.5°	5.5	3.7	1.8	1.2	0.6
110°	4.3	3.1	1.8	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	1.8	1.2	0.6	0.6
120°	1.8	1.8	1.2	0.6	0.6
122.5°	1.8	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	1.8	1.8
157.5°	1.2	1.2	1.8	1.8	1.8
160°	1.2	1.2	1.8	1.8	1.8
162.5°	1.2	1.2	1.8	1.8	1.8
165°	1.2	1.8	1.8	1.8	1.8
167.5°	1.2	1.8	1.8	1.8	2.5
170°	1.2	1.8	1.8	2.5	2.5
172.5°	1.2	1.8	1.8	2.5	2.5
175°	1.8	1.8	1.8	2.5	2.5
177.5°	1.8	1.8	1.8	2.5	2.5
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)