

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: P895309

Luminaire Tested: 8TMB-SC3-ACL-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895309
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-CC93-LOW-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 90CRI, 5000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

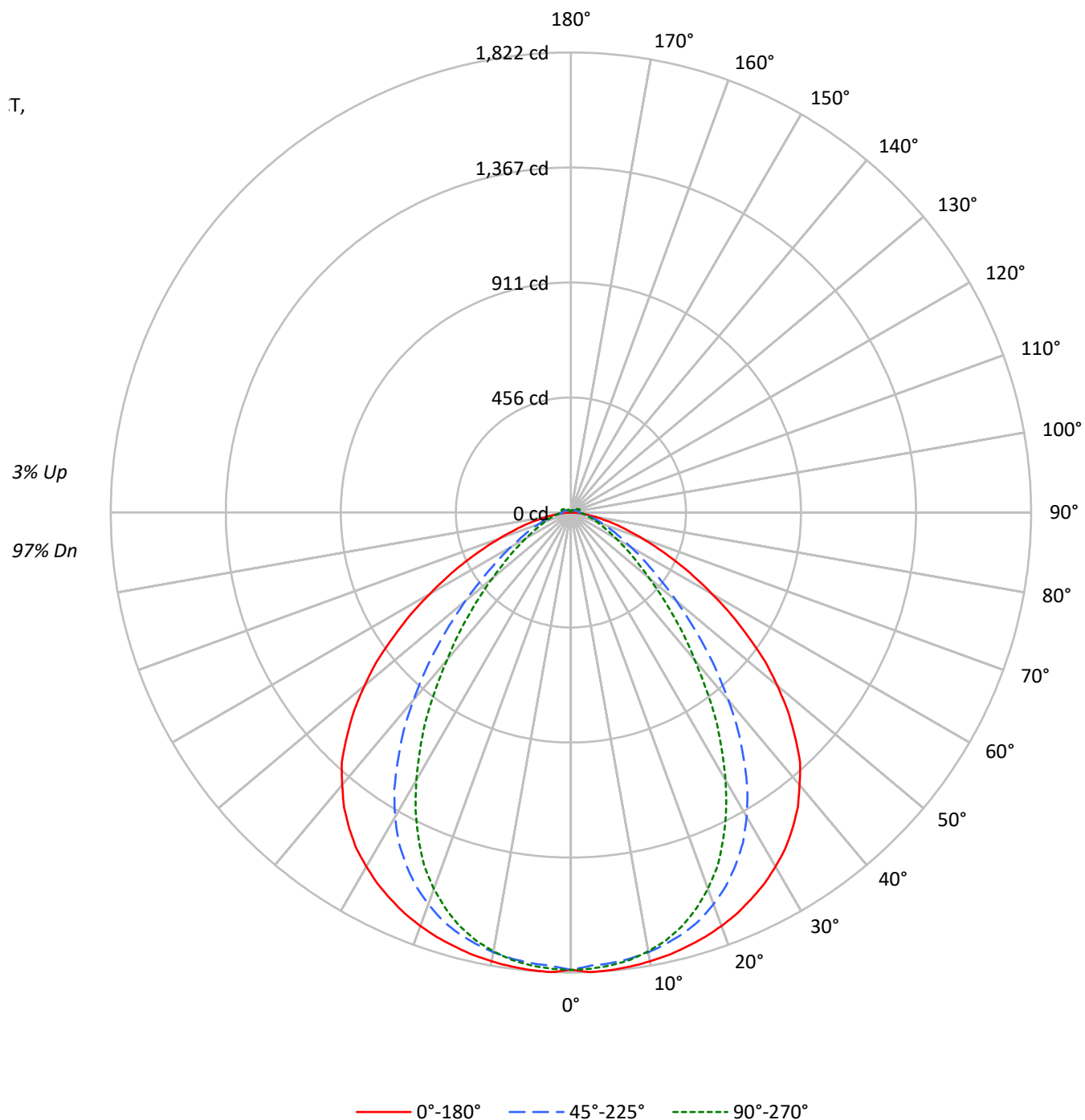
Lumens per Lamp: N/A
Luminaire Lumens: 3716.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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°	9200	9200	9200
5°	9267	8956	8936
10°	9292	8767	8622
15°	9329	8544	8230
20°	9384	8235	7693
25°	9421	7804	6978
30°	9441	7209	6080
35°	9413	6375	5085
40°	9259	5389	4002
45°	8917	4354	3103
50°	8317	3381	2328
55°	7464	2591	1781
60°	6432	1995	1357
65°	5385	1575	1078
70°	4332	1267	881
75°	3483	1023	750
80°	2598	847	657
85°	1869	723	605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	4.6
10°-20°	488.8	13.2
20°-30°	712.6	19.2
30°-40°	765.6	20.6
40°-50°	637.2	17.1
50°-60°	426.2	11.5
60°-70°	244.0	6.6
70°-80°	121.3	3.3
80°-90°	49.6	1.3
90°-100°	28.8	0.8
100°-110°	25.4	0.7
110°-120°	18.6	0.5
120°-130°	12.0	0.3
130°-140°	7.1	0.2
140°-150°	4.0	0.1
150°-160°	2.0	0.1
160°-170°	0.9	0.0
170°-180°	0.2	0.0
0°-30°	1373.0	36.9
0°-40°	2138.6	57.6
0°-60°	3202.0	86.2
0°-90°	3616.9	97.3
90°-120°	72.8	2.0
90°-150°	96.0	2.6
90°-180°	99.0	2.7
0°-180°	3716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1819	1814	1792	1807	1801	173
15°	1779	1767	1725	1712	1697	503
25°	1689	1649	1541	1464	1427	779
35°	1529	1418	1193	1046	1000	955
45°	1254	1043	745	603	568	964
55°	856	617	388	307	291	766
65°	458	311	196	158	150	458
75°	184	134	97	86	83	198
85°	36	40	45	47	48	42
90°	5	17	31	36	38	5
95°	8	17	30	36	38	6
105°	5	14	27	35	37	6
115°	3	8	21	29	32	3
125°	2	5	14	21	23	1
135°	1	4	10	14	16	1
145°	1	3	6	10	11	1
155°	1	3	4	6	7	1
165°	2	2	3	4	5	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°	1811.5	1811.5	1811.5	1811.5	1811.5
2.5°	1822.0	1817.3	1796.7	1813.0	1808.3
5°	1819.4	1813.6	1791.9	1806.7	1800.9
7.5°	1813.6	1807.2	1782.4	1794.0	1787.7
10°	1805.1	1797.2	1768.7	1774.5	1764.4
12.5°	1794.5	1784.5	1749.1	1747.5	1736.4
15°	1779.2	1767.1	1724.8	1712.1	1696.8
17.5°	1763.4	1745.4	1693.6	1667.7	1646.6
20°	1742.8	1719.0	1650.8	1612.2	1585.8
22.5°	1719.0	1686.7	1602.7	1543.5	1516.1
25°	1689.4	1649.2	1541.4	1463.7	1427.3
27.5°	1657.7	1604.3	1474.8	1372.9	1331.1
30°	1619.6	1553.6	1391.9	1269.3	1224.4
32.5°	1579.5	1489.1	1301.0	1160.4	1111.3
35°	1529.3	1418.3	1193.2	1046.3	1000.3
37.5°	1474.8	1333.8	1086.5	929.5	877.7
40°	1408.8	1244.5	969.1	813.8	762.5
42.5°	1343.3	1147.2	856.6	709.2	664.8
45°	1254.5	1042.6	745.1	602.9	567.5
47.5°	1165.2	930.6	638.3	516.8	481.9
50°	1065.8	820.7	544.8	433.8	404.8
52.5°	969.1	718.1	459.7	366.7	341.9
55°	855.5	617.2	388.4	307.0	291.2
57.5°	753.0	523.7	327.6	260.0	245.2
60°	644.7	443.9	274.3	219.8	206.1
62.5°	549.6	373.1	230.9	186.5	177.0
65°	458.1	310.7	195.5	158.5	150.1
67.5°	374.1	259.5	164.9	135.3	128.4
70°	300.1	210.3	139.0	115.2	110.4
72.5°	236.2	169.1	115.7	99.3	95.1
75°	184.4	134.2	96.7	85.6	83.0
77.5°	133.2	104.6	80.8	73.5	71.9
80°	94.1	79.3	66.6	63.4	62.4
82.5°	62.4	57.6	55.0	55.0	54.4
85°	35.9	40.2	44.9	47.0	47.6
87.5°	18.5	26.9	35.9	40.2	40.7
90°	5.3	16.9	30.6	36.5	37.5
92.5°	7.9	16.9	30.1	36.5	37.5
95°	7.9	16.9	30.1	36.5	37.5
97.5°	7.4	16.4	30.1	36.5	37.5
100°	6.9	15.3	29.6	36.5	37.5
102.5°	5.8	14.8	28.5	35.9	37.5
105°	5.3	13.7	26.9	35.4	37.0
107.5°	4.8	11.6	25.4	33.8	35.9
110°	3.7	10.0	24.3	32.2	34.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	9.0	22.7	30.6	33.3
115°	2.6	7.9	21.1	29.1	31.7
117.5°	2.1	7.4	19.0	26.9	29.6
120°	1.6	6.9	17.4	25.4	27.5
122.5°	1.6	6.3	15.3	23.3	25.4
125°	1.6	5.3	14.3	21.1	23.3
127.5°	1.1	4.8	12.7	19.0	21.1
130°	1.1	4.8	11.6	17.4	19.0
132.5°	1.1	4.2	10.6	15.9	17.4
135°	1.1	4.2	9.5	14.3	15.9
137.5°	1.1	3.7	8.5	13.2	14.8
140°	1.1	3.7	7.9	11.6	13.2
142.5°	1.1	3.2	6.9	11.1	12.2
145°	1.1	3.2	6.3	9.5	11.1
147.5°	1.1	3.2	5.8	9.0	10.0
150°	1.1	2.6	5.3	7.4	9.0
152.5°	1.1	2.6	4.8	6.9	8.5
155°	1.1	2.6	4.2	5.8	7.4
157.5°	1.1	2.6	4.2	5.3	6.3
160°	1.6	2.1	3.7	4.8	5.8
162.5°	1.6	2.1	3.2	4.2	5.3
165°	1.6	2.1	3.2	3.7	4.8
167.5°	1.6	2.1	2.6	3.2	3.7
170°	1.6	1.6	2.6	2.6	2.6
172.5°	1.6	1.6	2.1	2.6	2.1
175°	1.6	1.6	2.1	2.1	2.1
177.5°	1.6	1.6	2.1	2.1	2.1
180°	1.6	1.6	1.6	1.6	1.6

(END OF REPORT)