

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: P895299

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895299
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS, 80CRI, 4000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

Summary

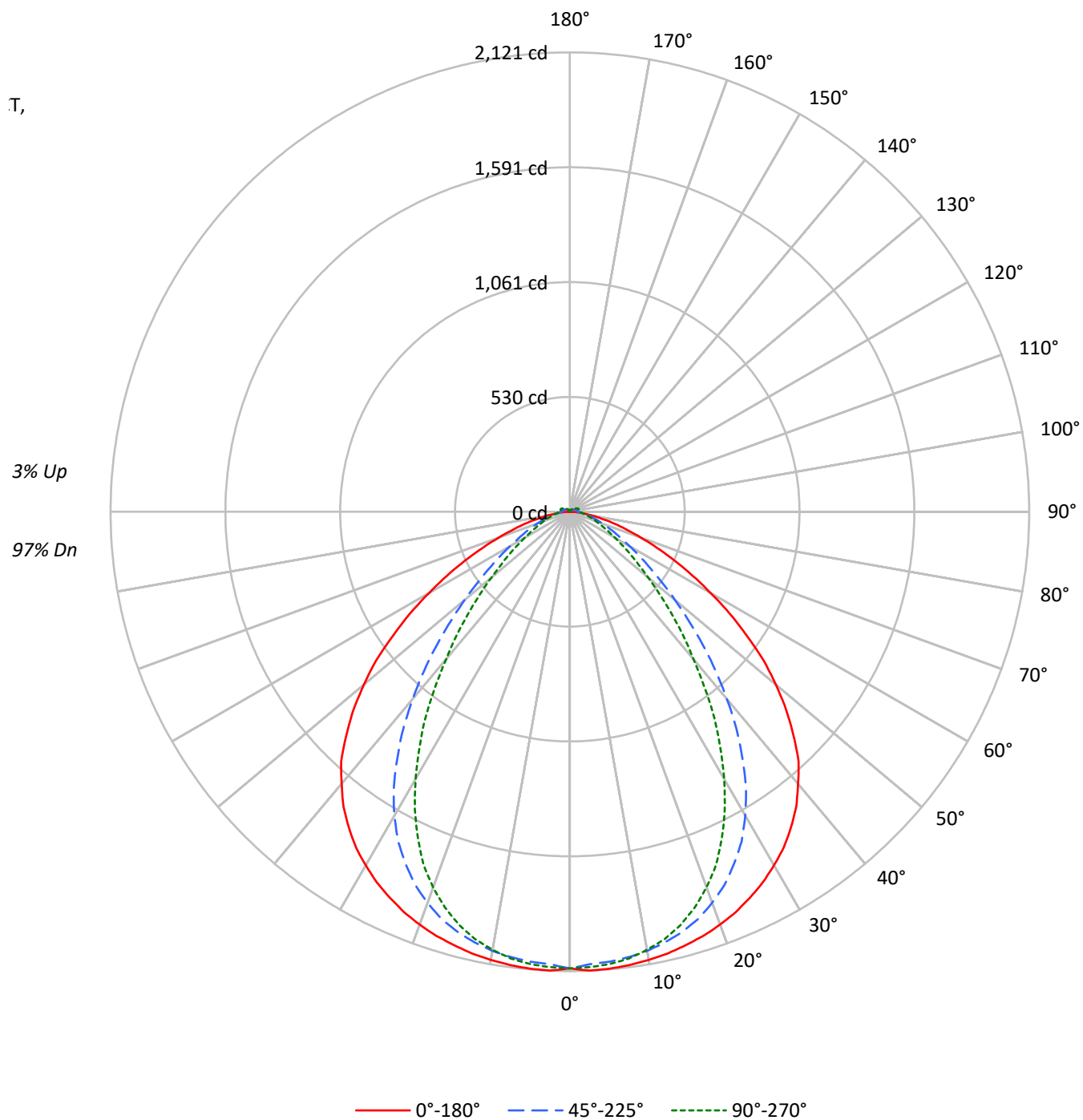
Lumens per Lamp: N/A
Luminaire Lumens: 4325.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.08')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90
2	101	94	88	84	99	92	87	82	88	84	80		85	81	78		82
3	94	85	77	72	91	83	76	71	80	74	69		77	72	68		74
4	87	76	68	62	84	75	67	62	72	66	61		69	64	60		67
5	80	69	61	55	78	68	60	55	65	59	54		63	58	53		61
6	75	63	55	49	73	62	54	49	60	53	48		58	52	47		56
7	70	57	50	44	68	57	49	44	55	48	43		53	47	43		52
8	65	53	45	40	64	52	45	40	51	44	39		49	43	39		48
9	61	49	41	36	60	48	41	36	47	40	36		46	40	35		45
10	58	45	38	33	56	45	38	33	44	37	33		43	37	32		42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10707	10707	10707
5°	10786	10424	10400
10°	10815	10204	10036
15°	10858	9945	9579
20°	10921	9585	8953
25°	10965	9083	8121
30°	10989	8390	7076
35°	10955	7419	5919
40°	10776	6272	4658
45°	10379	5067	3611
50°	9681	3935	2710
55°	8687	3015	2073
60°	7486	2321	1579
65°	6267	1834	1255
70°	5042	1474	1025
75°	4053	1191	873
80°	3024	986	764
85°	2176	842	704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10379 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	4.6
10°-20°	568.9	13.2
20°-30°	829.4	19.2
30°-40°	891.1	20.6
40°-50°	741.6	17.1
50°-60°	496.0	11.5
60°-70°	284.0	6.6
70°-80°	141.2	3.3
80°-90°	57.8	1.3
90°-100°	33.5	0.8
100°-110°	29.6	0.7
110°-120°	21.7	0.5
120°-130°	14.0	0.3
130°-140°	8.3	0.2
140°-150°	4.7	0.1
150°-160°	2.4	0.1
160°-170°	1.0	0.0
170°-180°	0.2	0.0
0°-30°	1598.0	36.9
0°-40°	2489.1	57.6
0°-60°	3726.8	86.2
0°-90°	4209.7	97.3
90°-120°	84.8	2.0
90°-150°	111.8	2.6
90°-180°	115.0	2.7
0°-180°	4325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2118	2111	2086	2103	2096	202
15°	2071	2057	2008	1993	1975	585
25°	1966	1920	1794	1704	1661	907
35°	1780	1651	1389	1218	1164	1112
45°	1460	1214	867	702	660	1122
55°	996	718	452	357	339	892
65°	533	362	228	184	175	533
75°	215	156	113	100	97	230
85°	42	47	52	55	55	49
90°	6	20	36	42	44	6
95°	9	20	35	42	44	7
105°	6	16	31	41	43	7
115°	3	9	25	34	37	3
125°	2	6	17	25	27	1
135°	1	5	11	17	18	1
145°	1	4	7	11	13	1
155°	1	3	5	7	9	1
165°	2	2	4	4	6	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°	2108.3	2108.3	2108.3	2108.3	2108.3
2.5°	2120.6	2115.1	2091.1	2110.2	2104.6
5°	2117.6	2110.8	2085.6	2102.8	2096.0
7.5°	2110.8	2103.4	2074.5	2088.0	2080.7
10°	2100.9	2091.7	2058.5	2065.3	2053.6
12.5°	2088.6	2077.0	2035.8	2033.9	2021.0
15°	2070.8	2056.7	2007.5	1992.7	1974.9
17.5°	2052.4	2031.4	1971.2	1941.0	1916.4
20°	2028.4	2000.7	1921.4	1876.5	1845.7
22.5°	2000.7	1963.2	1865.4	1796.5	1764.5
25°	1966.3	1919.5	1794.0	1703.6	1661.2
27.5°	1929.4	1867.2	1716.6	1597.9	1549.3
30°	1885.1	1808.2	1620.0	1477.3	1425.0
32.5°	1838.3	1733.2	1514.2	1350.6	1293.4
35°	1779.9	1650.7	1388.7	1217.8	1164.3
37.5°	1716.6	1552.3	1264.5	1081.8	1021.6
40°	1639.7	1448.4	1128.0	947.1	887.5
42.5°	1563.4	1335.2	997.0	825.4	773.7
45°	1460.1	1213.5	867.2	701.8	660.5
47.5°	1356.1	1083.1	743.0	601.5	560.9
50°	1240.5	955.1	634.1	504.9	471.1
52.5°	1128.0	835.8	535.1	426.8	397.9
55°	995.7	718.4	452.0	357.3	338.9
57.5°	876.4	609.5	381.3	302.6	285.4
60°	750.3	516.6	319.2	255.9	239.9
62.5°	639.6	434.2	268.8	217.1	206.0
65°	533.2	361.6	227.6	184.5	174.7
67.5°	435.4	302.0	191.9	157.4	149.5
70°	349.3	244.8	161.8	134.1	128.5
72.5°	274.9	196.8	134.7	115.6	110.7
75°	214.6	156.2	112.6	99.6	96.6
77.5°	155.0	121.8	94.1	85.5	83.6
80°	109.5	92.3	77.5	73.8	72.6
82.5°	72.6	67.0	64.0	64.0	63.3
85°	41.8	46.7	52.3	54.7	55.4
87.5°	21.5	31.4	41.8	46.7	47.4
90°	6.2	19.7	35.7	42.4	43.7
92.5°	9.2	19.7	35.1	42.4	43.7
95°	9.2	19.7	35.1	42.4	43.7
97.5°	8.6	19.1	35.1	42.4	43.7
100°	8.0	17.8	34.4	42.4	43.7
102.5°	6.8	17.2	33.2	41.8	43.7
105°	6.2	16.0	31.4	41.2	43.1
107.5°	5.5	13.5	29.5	39.4	41.8
110°	4.3	11.7	28.3	37.5	40.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.7	10.5	26.4	35.7	38.7
115°	3.1	9.2	24.6	33.8	36.9
117.5°	2.5	8.6	22.1	31.4	34.4
120°	1.8	8.0	20.3	29.5	32.0
122.5°	1.8	7.4	17.8	27.1	29.5
125°	1.8	6.2	16.6	24.6	27.1
127.5°	1.2	5.5	14.8	22.1	24.6
130°	1.2	5.5	13.5	20.3	22.1
132.5°	1.2	4.9	12.3	18.5	20.3
135°	1.2	4.9	11.1	16.6	18.5
137.5°	1.2	4.3	9.8	15.4	17.2
140°	1.2	4.3	9.2	13.5	15.4
142.5°	1.2	3.7	8.0	12.9	14.1
145°	1.2	3.7	7.4	11.1	12.9
147.5°	1.2	3.7	6.8	10.5	11.7
150°	1.2	3.1	6.2	8.6	10.5
152.5°	1.2	3.1	5.5	8.0	9.8
155°	1.2	3.1	4.9	6.8	8.6
157.5°	1.2	3.1	4.9	6.2	7.4
160°	1.8	2.5	4.3	5.5	6.8
162.5°	1.8	2.5	3.7	4.9	6.2
165°	1.8	2.5	3.7	4.3	5.5
167.5°	1.8	2.5	3.1	3.7	4.3
170°	1.8	1.8	3.1	3.1	3.1
172.5°	1.8	1.8	2.5	3.1	2.5
175°	1.8	1.8	2.5	2.5	2.5
177.5°	1.8	1.8	2.5	2.5	2.5
180°	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)