

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: P895329

Luminaire Tested: 8TMB-SC3-AOL-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895329
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-CC93-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 900
4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

Summary

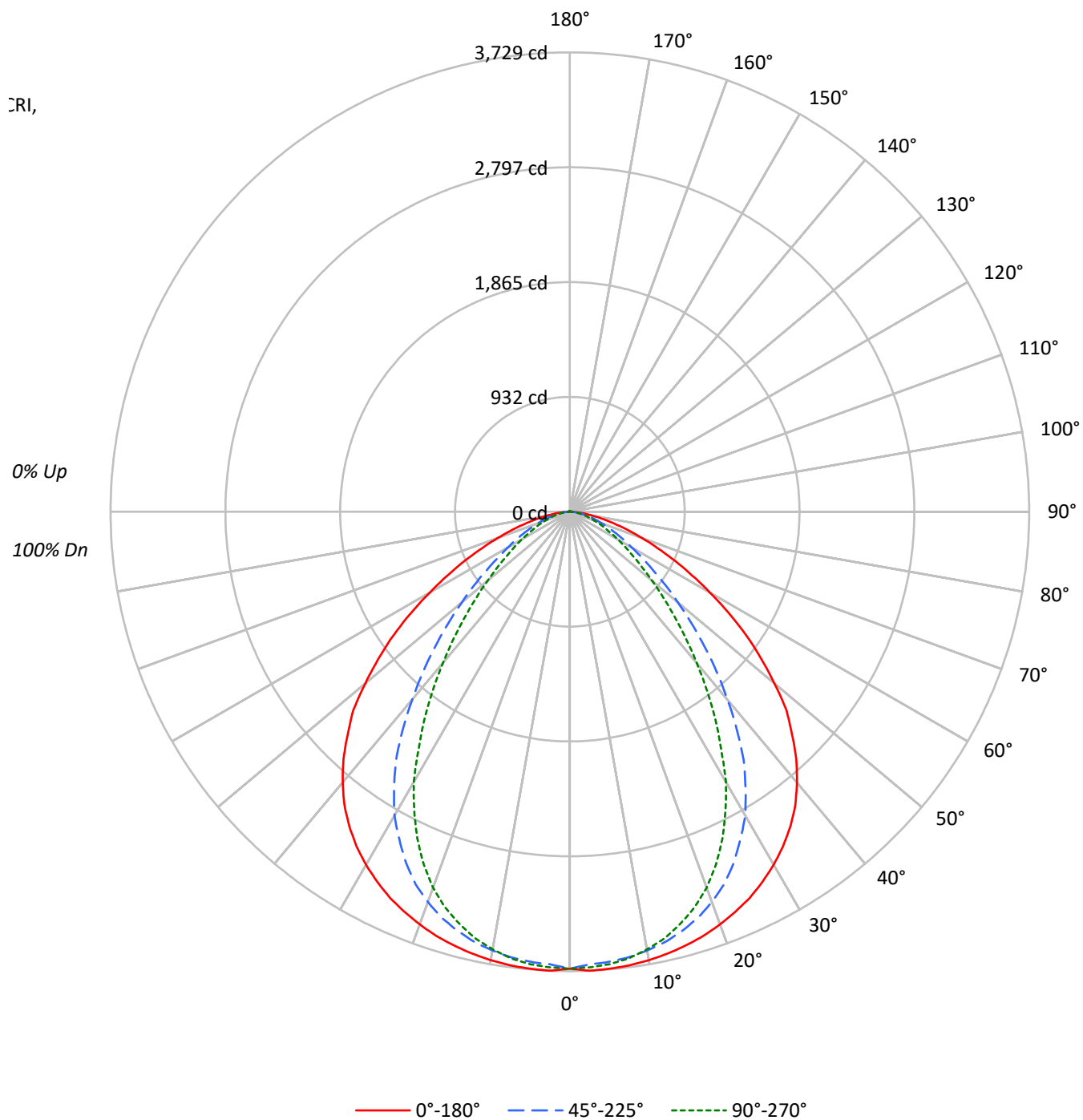
Lumens per Lamp: N/A
Luminaire Lumens: 7407.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.06 / 1.16
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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	66	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°	18831	18831	18831
5°	18985	18697	18795
10°	19061	18650	18601
15°	19160	18517	18210
20°	19264	18218	17545
25°	19372	17625	16409
30°	19406	16698	14859
35°	19342	15254	12781
40°	19019	13201	10620
45°	18312	11092	8594
50°	17136	9034	6883
55°	15484	7262	5519
60°	13354	5910	4570
65°	11300	4921	3758
70°	9224	4186	3191
75°	7388	3528	2714
80°	5756	3018	2334
85°	4464	2663	2109

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18312 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	4.7
10°-20°	999.2	13.5
20°-30°	1456.4	19.7
30°-40°	1569.8	21.2
40°-50°	1316.0	17.8
50°-60°	891.0	12.0
60°-70°	508.1	6.9
70°-80°	232.4	3.1
80°-90°	60.9	0.8
90°-100°	7.5	0.1
100°-110°	5.1	0.1
110°-120°	2.8	0.0
120°-130°	1.6	0.0
130°-140°	1.5	0.0
140°-150°	1.3	0.0
150°-160°	1.1	0.0
160°-170°	0.9	0.0
170°-180°	0.3	0.0
0°-30°	2806.7	37.9
0°-40°	4376.6	59.1
0°-60°	6583.5	88.9
0°-90°	7384.8	99.7
90°-120°	15.4	0.2
90°-150°	19.8	0.3
90°-180°	22.0	0.3
0°-180°	7407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3708	3708	3708	3708	3708	
5°	3724	3712	3668	3697	3687	355
15°	3644	3612	3522	3498	3463	1030
25°	3457	3365	3145	3001	2928	1593
35°	3120	2885	2460	2159	2061	1948
45°	2550	2127	1544	1273	1197	1963
55°	1749	1280	820	665	623	1557
65°	940	654	410	332	313	938
75°	376	277	180	147	138	411
85°	77	65	46	38	36	89
90°	11	11	6	5	4	11
95°	16	10	5	3	3	13
105°	11	7	3	2	1	12
115°	5	4	2	1	1	5
125°	2	2	2	1	1	2
135°	1	2	2	2	1	1
145°	2	2	2	2	2	1
155°	2	2	2	3	3	1
165°	2	3	3	3	3	1
175°	3	3	3	4	4	0
180°	3	3	3	3	3	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3707.9	3707.9	3707.9	3707.9	3707.9
2.5°	3729.2	3719.6	3677.1	3712.2	3701.6
5°	3723.9	3712.2	3667.5	3697.3	3686.7
7.5°	3713.3	3698.4	3648.4	3670.7	3656.9
10°	3696.2	3678.2	3616.5	3629.2	3606.9
12.5°	3672.8	3650.5	3577.1	3573.9	3547.3
15°	3644.1	3612.2	3521.8	3498.4	3463.3
17.5°	3609.0	3568.6	3455.9	3409.1	3366.5
20°	3564.4	3512.2	3370.8	3296.3	3246.3
22.5°	3513.3	3443.1	3271.8	3152.7	3098.5
25°	3456.9	3365.4	3145.3	3000.6	2928.3
27.5°	3386.7	3271.8	2998.5	2811.3	2736.8
30°	3309.1	3163.3	2847.4	2608.1	2533.7
32.5°	3220.8	3038.9	2654.9	2389.0	2284.8
35°	3119.7	2884.7	2460.3	2159.2	2061.4
37.5°	3005.9	2724.1	2227.3	1927.4	1828.4
40°	2868.7	2533.7	1991.2	1694.4	1601.9
42.5°	2720.9	2340.1	1764.6	1473.2	1393.4
45°	2549.6	2127.3	1544.4	1273.2	1196.6
47.5°	2384.7	1912.5	1338.1	1090.3	1027.5
50°	2168.8	1683.8	1143.4	923.3	871.1
52.5°	1958.2	1472.1	977.5	789.2	740.3
55°	1748.7	1279.6	820.1	664.8	623.3
57.5°	1527.4	1091.3	690.3	562.7	535.0
60°	1314.7	928.6	581.8	472.3	449.9
62.5°	1120.0	778.6	492.5	398.9	377.6
65°	940.3	654.2	409.5	331.9	312.7
67.5°	770.1	538.2	341.4	276.6	262.7
70°	621.2	436.1	281.9	227.6	214.9
72.5°	492.5	348.9	225.5	186.1	172.3
75°	376.5	276.6	179.8	146.8	138.3
77.5°	280.8	208.5	138.3	112.7	106.4
80°	196.8	151.0	103.2	85.1	79.8
82.5°	134.0	104.2	72.3	59.6	56.4
85°	76.6	64.9	45.7	38.3	36.2
87.5°	39.4	34.0	24.5	18.1	16.0
90°	10.6	10.6	6.4	5.3	4.3
92.5°	17.0	9.6	6.4	4.3	3.2
95°	16.0	9.6	5.3	3.2	3.2
97.5°	14.9	9.6	4.3	3.2	2.1
100°	13.8	8.5	4.3	2.1	2.1
102.5°	12.8	8.5	4.3	2.1	2.1
105°	10.6	7.4	3.2	2.1	1.1
107.5°	9.6	6.4	3.2	2.1	1.1
110°	7.4	5.3	3.2	2.1	1.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.4	5.3	2.1	2.1	1.1
115°	5.3	4.3	2.1	1.1	1.1
117.5°	4.3	3.2	2.1	1.1	1.1
120°	3.2	3.2	2.1	1.1	1.1
122.5°	3.2	2.1	2.1	1.1	1.1
125°	2.1	2.1	2.1	1.1	1.1
127.5°	2.1	2.1	2.1	1.1	1.1
130°	2.1	2.1	2.1	1.1	1.1
132.5°	2.1	2.1	2.1	2.1	1.1
135°	1.1	2.1	2.1	2.1	1.1
137.5°	2.1	2.1	2.1	2.1	2.1
140°	2.1	2.1	2.1	2.1	2.1
142.5°	2.1	2.1	2.1	2.1	2.1
145°	2.1	2.1	2.1	2.1	2.1
147.5°	2.1	2.1	2.1	2.1	2.1
150°	2.1	2.1	2.1	2.1	2.1
152.5°	2.1	2.1	2.1	2.1	2.1
155°	2.1	2.1	2.1	3.2	3.2
157.5°	2.1	2.1	3.2	3.2	3.2
160°	2.1	2.1	3.2	3.2	3.2
162.5°	2.1	2.1	3.2	3.2	3.2
165°	2.1	3.2	3.2	3.2	3.2
167.5°	2.1	3.2	3.2	3.2	4.3
170°	2.1	3.2	3.2	4.3	4.3
172.5°	2.1	3.2	3.2	4.3	4.3
175°	3.2	3.2	3.2	4.3	4.3
177.5°	3.2	3.2	3.2	4.3	4.3
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)