

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P895427

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVR-UNV-CC83-MID-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

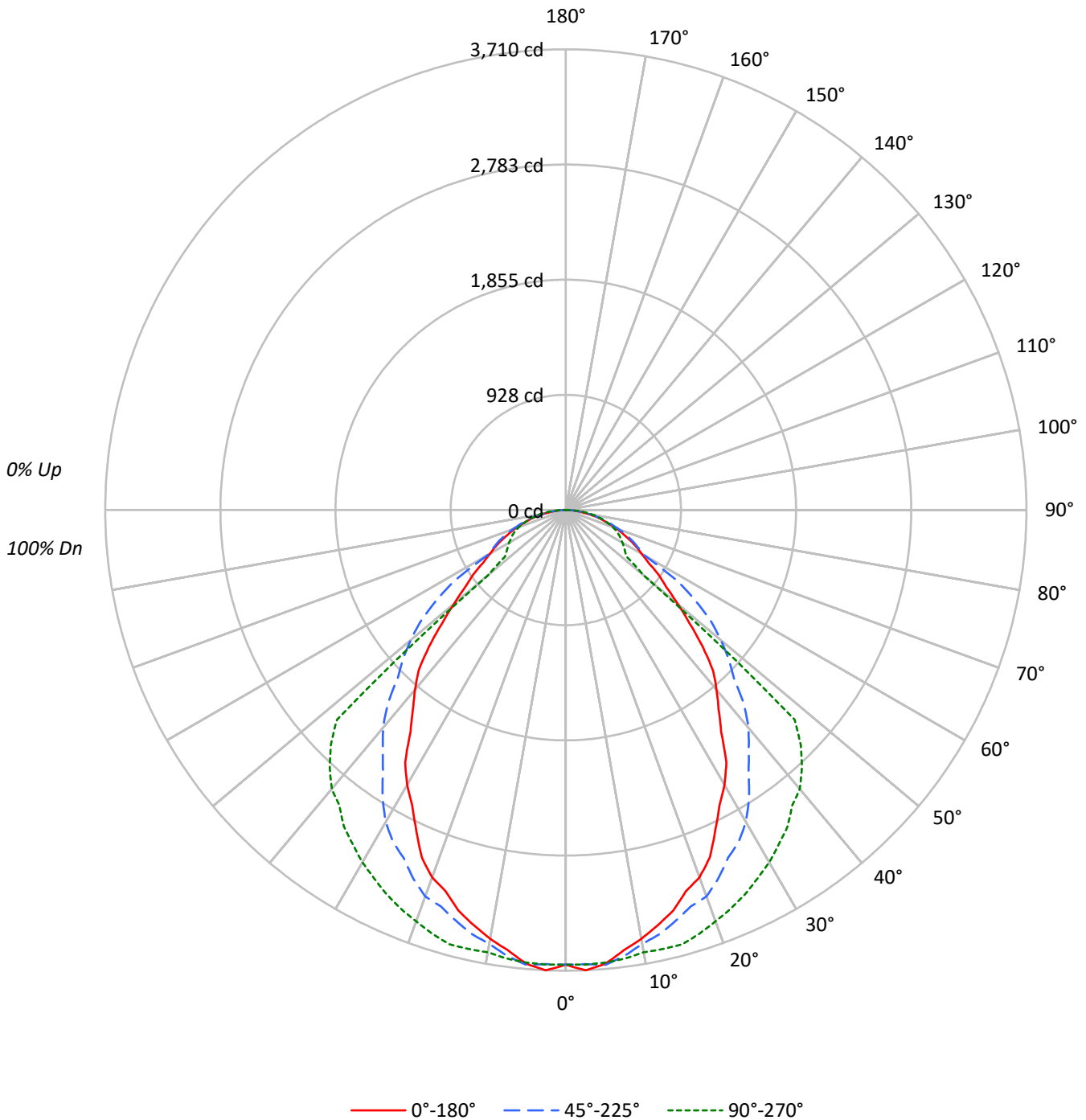
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7814.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' 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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12992	12992	12992
5°	13062	13095	13028
10°	12633	12782	13031
15°	12269	12578	13299
20°	11884	12505	13310
25°	11151	12102	13369
30°	10474	11883	13424
35°	9445	11114	13487
40°	8748	10602	13582
45°	7826	9609	13428
50°	6493	9001	4511
55°	5657	7901	3610
60°	5003	5149	3743
65°	4757	5009	3972
70°	4462	4734	4190
75°	4154	4461	4307
80°	3782	4203	4510
85°	3350	3578	4873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.3	4.4
10°-20°	977.1	12.5
20°-30°	1437.2	18.4
30°-40°	1643.6	21.0
40°-50°	1556.4	19.9
50°-60°	857.5	11.0
60°-70°	550.5	7.0
70°-80°	339.8	4.3
80°-90°	104.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2761.6	35.3
0°-40°	4405.2	56.4
0°-60°	6819.1	87.3
0°-90°	7814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3662	3662	3662	3662	3662	
5°	3667	3697	3677	3677	3658	344
15°	3340	3381	3424	3604	3620	938
25°	2848	2975	3091	3293	3415	1312
35°	2180	2368	2566	2938	3114	1378
45°	1560	1707	1915	2457	2676	1193
55°	914	959	1277	658	584	818
65°	567	585	597	531	473	561
75°	303	309	325	342	314	322
85°	82	82	88	101	120	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3661.7	3661.7	3661.7	3661.7	3661.7
2.5°	3710.3	3719.6	3659.8	3657.9	3663.5
5°	3667.3	3697.2	3676.6	3676.6	3657.9
7.5°	3575.6	3626.1	3620.5	3663.5	3643.0
10°	3506.4	3547.6	3547.6	3659.8	3616.8
12.5°	3424.2	3470.9	3497.1	3614.9	3620.5
15°	3340.0	3381.1	3424.2	3603.7	3620.5
17.5°	3218.4	3293.2	3347.5	3523.3	3577.5
20°	3147.4	3192.3	3311.9	3454.1	3525.1
22.5°	3029.6	3095.0	3211.0	3369.9	3474.6
25°	2848.2	2975.3	3091.3	3293.2	3414.8
27.5°	2679.9	2775.2	3014.6	3227.8	3343.7
30°	2556.4	2631.2	2900.5	3132.4	3276.4
32.5°	2406.8	2528.4	2747.2	3038.9	3192.3
35°	2180.5	2367.5	2565.8	2937.9	3113.7
37.5°	2021.6	2150.6	2419.9	2833.2	2995.9
40°	1888.8	2006.6	2289.0	2702.3	2932.3
42.5°	1756.0	1851.4	2124.4	2605.0	2814.5
45°	1559.7	1707.4	1915.0	2457.3	2676.1
47.5°	1354.0	1511.0	1778.5	2332.0	2500.3
50°	1176.3	1301.6	1630.7	2083.3	817.2
52.5°	1021.1	1137.0	1473.6	753.6	617.1
55°	914.5	959.4	1277.3	658.3	583.5
57.5°	787.3	860.2	1071.6	626.5	553.5
60°	705.0	736.8	725.6	594.7	527.4
62.5°	639.6	662.0	658.3	562.9	497.4
65°	566.6	585.3	596.6	531.1	473.1
67.5°	493.7	510.5	527.4	491.8	439.5
70°	430.1	441.3	456.3	445.1	403.9
72.5°	364.7	377.8	387.1	396.5	357.2
75°	303.0	308.6	325.4	342.2	314.2
77.5°	246.9	252.5	263.7	282.4	267.4
80°	185.1	190.8	205.7	220.7	220.7
82.5°	130.9	134.6	144.0	164.6	173.9
85°	82.3	82.3	87.9	101.0	119.7
87.5°	31.8	31.8	37.4	44.9	59.8
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.86	18.34	17.22	18.66	18.97	14.66	16.14	15.03	16.46	16.77
	3H	18.39	19.71	18.76	20.04	20.40	16.99	18.32	17.37	18.65	19.01
	4H	18.98	20.22	19.38	20.57	20.95	17.94	19.19	18.34	19.53	19.91
	6H	19.43	20.58	19.85	20.95	21.34	18.73	19.87	19.14	20.24	20.63
	8H	19.58	20.67	20.01	21.06	21.46	19.04	20.13	19.47	20.52	20.92
	12H	19.68	20.72	20.11	21.10	21.53	19.29	20.33	19.72	20.71	21.14
4H	2H	17.41	18.65	17.81	19.00	19.38	15.77	17.01	16.17	17.36	17.74
	3H	19.18	20.21	19.59	20.61	21.01	18.21	19.24	18.62	19.64	20.04
	4H	19.90	20.83	20.34	21.24	21.68	19.28	20.20	19.71	20.62	21.06
	6H	20.49	21.29	20.95	21.74	22.20	20.17	20.97	20.62	21.41	21.88
	8H	20.68	21.43	21.14	21.87	22.34	20.52	21.27	20.98	21.71	22.18
	12H	20.81	21.49	21.30	21.97	22.44	20.81	21.48	21.29	21.96	22.43
8H	4H	20.21	20.96	20.67	21.41	21.87	19.66	20.42	20.13	20.86	21.33
	6H	20.92	21.54	21.42	22.04	22.51	20.70	21.32	21.20	21.82	22.29
	8H	21.18	21.74	21.70	22.25	22.74	21.15	21.71	21.66	22.22	22.71
	12H	21.39	21.89	21.90	22.38	22.95	21.53	22.03	22.04	22.52	23.09
12H	4H	20.25	20.92	20.73	21.40	21.87	19.70	20.37	20.18	20.85	21.32
	6H	20.99	21.55	21.50	22.06	22.55	20.76	21.33	21.28	21.84	22.33
	8H	21.30	21.80	21.81	22.30	22.86	21.27	21.77	21.78	22.26	22.83