

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: P895455

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVRA-UNV-CC93-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

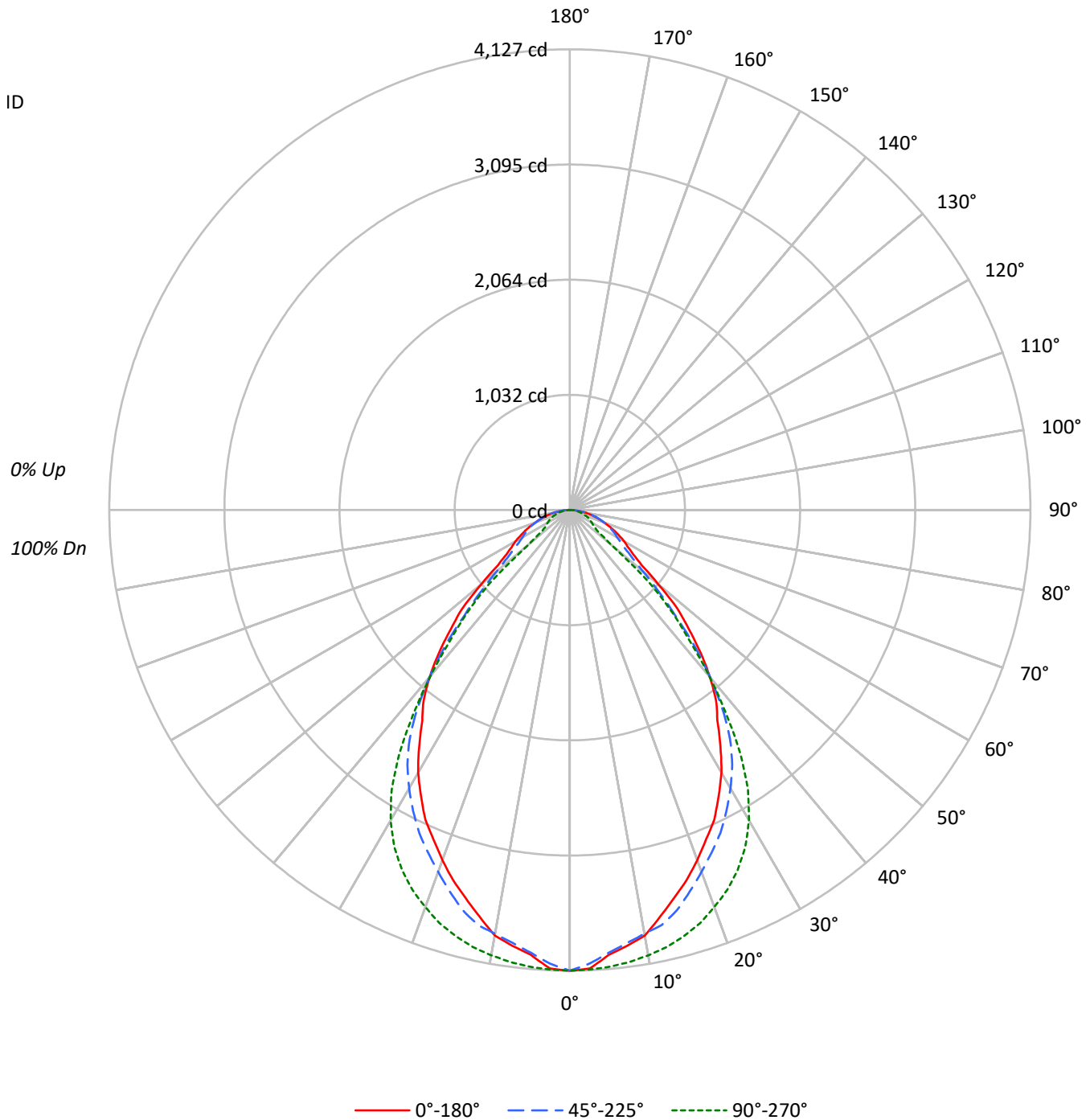
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6698.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	80	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	71	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	63	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	57	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	52	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	47	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	37	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14643	14643	14643
5°	14248	14184	14627
10°	13946	13884	14593
15°	13226	13632	14511
20°	12599	13025	14290
25°	11984	12497	13925
30°	11135	11797	13148
35°	9984	10841	11532
40°	9045	9065	9016
45°	7563	6698	6533
50°	5713	4715	2672
55°	4297	3770	1684
60°	3993	3472	1623
65°	3715	3465	1625
70°	3399	3399	1600
75°	3223	3311	1545
80°	2977	3130	1586
85°	2597	2728	1730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7739 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.2	5.7
10°-20°	1050.4	15.7
20°-30°	1489.5	22.2
30°-40°	1534.5	22.9
40°-50°	1071.8	16.0
50°-60°	514.3	7.7
60°-70°	360.8	5.4
70°-80°	225.6	3.4
80°-90°	69.8	1.0
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°	2921.2	43.6
0°-40°	4455.7	66.5
0°-60°	6041.8	90.2
0°-90°	6698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4127	4127	4127	4127	4127	
5°	4000	3995	3982	4087	4107	379
15°	3600	3627	3711	3818	3950	1014
25°	3061	3092	3192	3408	3557	1400
35°	2305	2368	2503	2555	2662	1452
45°	1507	1542	1335	1267	1302	1161
55°	695	660	610	390	272	651
65°	442	414	413	314	194	438
75°	235	232	242	208	113	248
85°	64	64	67	66	42	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4127.0	4127.0	4127.0	4127.0	4127.0
2.5°	4111.1	4098.3	4067.5	4123.8	4119.6
5°	4000.4	3995.1	3982.4	4086.6	4106.8
7.5°	3937.7	3927.1	3912.2	4027.0	4083.4
10°	3870.7	3883.4	3853.7	3959.0	4050.4
12.5°	3732.4	3766.4	3806.9	3888.8	4010.0
15°	3600.5	3627.1	3711.1	3817.5	3950.5
17.5°	3477.1	3508.0	3580.3	3739.8	3881.3
20°	3336.7	3379.3	3449.5	3653.7	3784.5
22.5°	3192.1	3231.4	3319.7	3538.8	3684.5
25°	3061.2	3092.1	3192.1	3408.0	3556.9
27.5°	2887.9	2945.3	3040.0	3248.4	3404.8
30°	2717.7	2766.6	2879.3	3054.8	3209.1
32.5°	2512.4	2583.6	2708.1	2842.1	2970.8
35°	2305.0	2367.7	2502.8	2554.9	2662.4
37.5°	2153.9	2170.9	2247.5	2241.1	2301.8
40°	1952.9	1986.9	1957.1	1877.4	1946.5
42.5°	1735.9	1776.3	1656.1	1563.6	1588.1
45°	1507.2	1542.3	1334.9	1266.8	1301.9
47.5°	1309.4	1306.2	1076.4	1030.7	981.8
50°	1034.9	1069.0	854.1	769.0	484.0
52.5°	808.4	821.1	704.1	491.4	318.0
55°	694.6	660.5	609.5	390.4	272.3
57.5°	616.9	574.4	540.3	362.7	248.9
60°	562.7	514.8	489.3	344.6	228.7
62.5°	501.0	463.8	454.2	328.7	210.6
65°	442.5	413.8	412.7	313.8	193.6
67.5°	384.0	368.0	372.3	295.7	174.4
70°	327.6	324.4	327.6	272.3	154.2
72.5°	279.7	276.6	285.1	242.5	131.9
75°	235.1	231.9	241.5	208.5	112.7
77.5°	187.2	189.3	195.7	173.4	94.7
80°	145.7	145.7	153.2	136.1	77.6
82.5°	104.2	105.3	109.6	100.0	60.6
85°	63.8	63.8	67.0	65.9	42.5
87.5°	21.3	24.5	28.7	30.8	21.3
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	14.97	16.33	15.34	16.64	16.95	11.30	12.66	11.67	12.97	13.29
	3H	16.71	17.92	17.09	18.25	18.61	13.28	14.49	13.66	14.82	15.18
	4H	17.38	18.51	17.78	18.86	19.24	13.98	15.11	14.39	15.46	15.84
	6H	17.89	18.93	18.30	19.30	19.69	14.51	15.55	14.92	15.92	16.31
	8H	18.06	19.05	18.49	19.44	19.84	14.69	15.68	15.12	16.07	16.47
	12H	18.17	19.11	18.60	19.49	19.92	14.83	15.77	15.26	16.16	16.59
4H	2H	15.50	16.63	15.90	16.98	17.36	12.93	14.05	13.33	14.40	14.79
	3H	17.48	18.41	17.89	18.81	19.22	15.10	16.03	15.52	16.44	16.84
	4H	18.28	19.12	18.72	19.54	19.98	15.98	16.82	16.42	17.24	17.68
	6H	18.93	19.65	19.39	20.09	20.56	16.63	17.35	17.09	17.80	18.26
	8H	19.14	19.82	19.61	20.27	20.74	16.84	17.51	17.30	17.96	18.43
	12H	19.30	19.90	19.78	20.38	20.85	16.99	17.59	17.48	18.08	18.55
8H	4H	18.57	19.24	19.03	19.69	20.16	16.63	17.31	17.10	17.76	18.23
	6H	19.35	19.90	19.85	20.40	20.88	17.49	18.05	17.99	18.54	19.02
	8H	19.65	20.15	20.17	20.66	21.15	17.82	18.32	18.34	18.83	19.33
	12H	19.89	20.33	20.40	20.82	21.39	18.09	18.53	18.60	19.02	19.59
12H	4H	18.58	19.18	19.07	19.66	20.14	16.71	17.31	17.19	17.79	18.26
	6H	19.40	19.90	19.92	20.41	20.91	17.63	18.13	18.15	18.64	19.14
	8H	19.77	20.21	20.28	20.70	21.27	18.04	18.49	18.56	18.98	19.55