

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: P892981

Luminaire Tested: 2MB-SC3-ASYMR-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-ASYMR-UNV-CC83-MID-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3500K CCT, MID setting
Light Source: -
Ballast/Driver: -

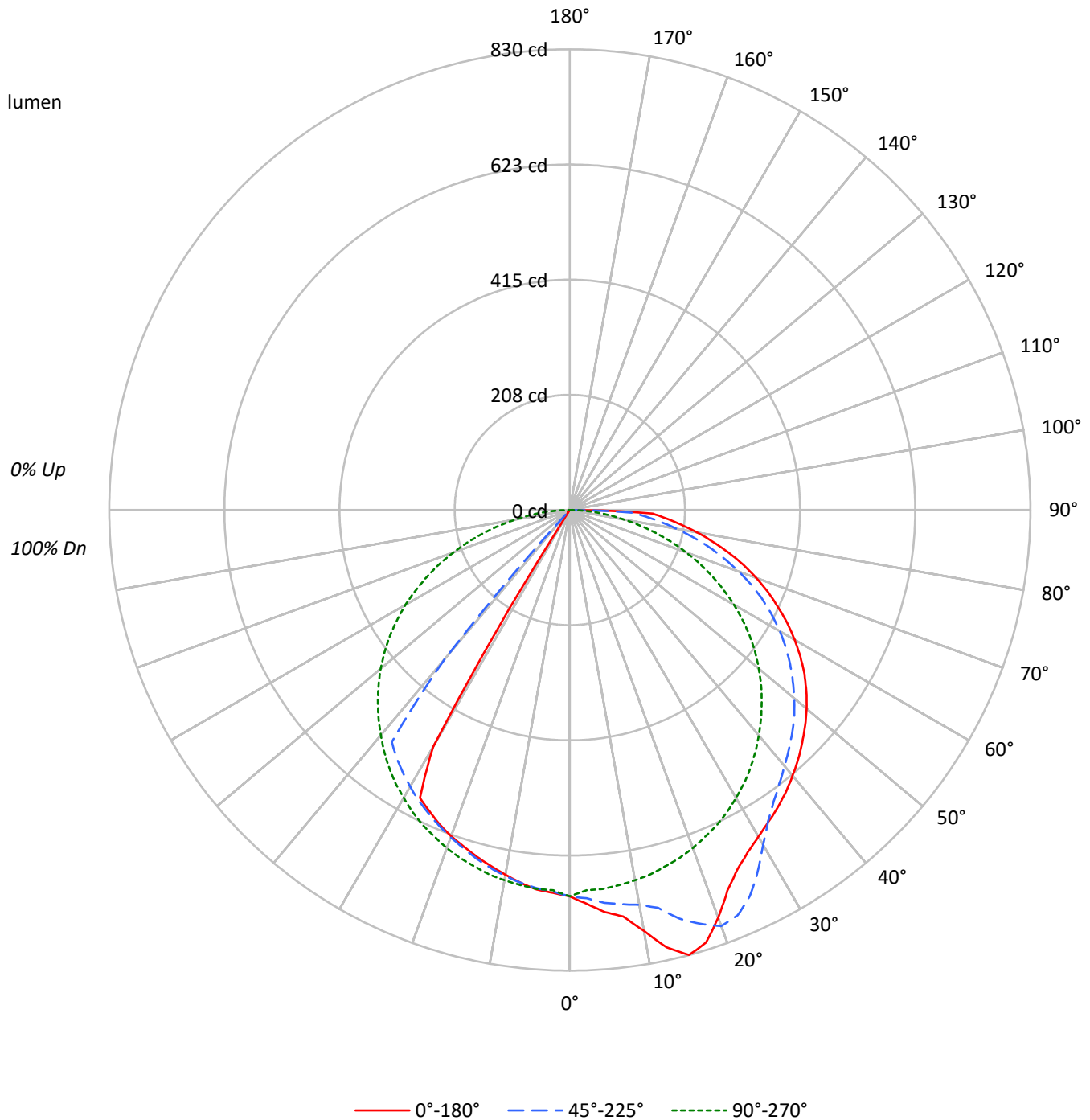
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1883.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 13.9
Input Voltage (V):
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			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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102		100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85		83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71		69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61		59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53		50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46		44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41		39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36		35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33		31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30		28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18171	18171	18171	18171	18171
5°	19056	18615	17957	17926	17989
10°	20416	19149	17953	17744	17691
15°	22431	20599	17961	17572	17485
20°	21718	22160	18006	17431	17376
25°	20577	22115	18050	17373	17247
30°	20488	20994	18049	17353	14853
35°	20835	20417	18078	17354	204
40°	21287	20514	18053	11969	136
45°	21869	20928	18059	222	89
50°	22632	21450	18066	162	32
55°	23496	22062	18016	109	18
60°	24437	22813	17858	42	21
65°	25582	23716	17532	49	49
70°	27290	24709	16977	61	61
75°	29879	26298	16241	161	81
80°	35062	29423	15035	241	120
85°	52182	41309	14079	359	240

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 89482 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.5
10°-20°	199.1	10.6
20°-30°	306.1	16.3
30°-40°	328.0	17.4
40°-50°	297.9	15.8
50°-60°	271.7	14.4
60°-70°	202.2	10.7
70°-80°	142.3	7.6
80°-90°	68.9	3.7
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°	571.9	30.4
0°-40°	899.9	47.8
0°-60°	1469.6	78.0
0°-90°	1883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	696	696	696	696	696	
5°	727	710	685	684	686	70
15°	830	762	664	650	647	229
25°	714	768	627	603	599	332
35°	654	641	567	544	6	410
45°	592	567	489	6	2	458
55°	516	485	396	2	0	461
65°	414	384	284	1	1	410
75°	296	261	161	2	1	312
85°	174	138	47	1	1	175
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0	696.0
2.5°	710.3	702.3	700.3	705.9	685.6	699.1	688.0	690.4	690.4
5°	727.1	715.9	710.3	708.7	685.2	694.4	684.0	684.0	686.4
7.5°	738.6	726.3	716.3	712.3	681.6	689.6	677.6	677.6	677.6
10°	770.1	747.0	722.3	715.1	677.2	683.2	669.3	670.1	667.3
12.5°	807.2	786.4	733.8	713.9	672.4	675.2	660.5	660.1	656.9
15°	829.9	814.3	762.1	712.3	664.5	666.9	650.1	648.9	646.9
17.5°	817.1	814.7	781.7	711.1	657.3	655.3	638.6	637.4	635.8
20°	781.7	787.6	797.6	708.7	648.1	644.1	627.4	626.6	625.4
22.5°	742.2	748.2	790.4	712.7	637.0	632.2	615.4	614.6	613.1
25°	714.3	714.3	767.7	722.3	626.6	617.8	603.1	601.9	598.7
27.5°	694.8	691.2	733.8	733.0	613.5	603.5	589.9	588.7	584.8
30°	679.6	673.6	696.4	738.2	598.7	587.9	575.6	574.4	492.7
32.5°	666.1	659.7	664.9	742.6	584.0	571.2	560.4	399.8	17.5
35°	653.7	646.5	640.6	739.4	567.2	554.5	544.5	11.6	6.4
37.5°	639.8	634.2	620.6	722.7	549.3	536.5	527.0	6.4	5.6
40°	624.6	619.4	601.9	698.0	529.7	519.0	351.2	5.6	4.0
42.5°	609.1	605.1	584.4	662.1	510.2	499.4	11.2	4.4	3.2
45°	592.3	588.7	566.8	618.6	489.1	479.1	6.0	3.2	2.4
47.5°	575.2	570.0	548.5	572.0	467.6	457.6	5.2	2.4	1.6
50°	557.2	551.7	528.1	530.9	444.8	434.9	4.0	1.6	0.8
52.5°	537.3	530.5	506.6	493.9	420.9	411.8	3.2	0.8	0.4
55°	516.2	508.6	484.7	461.6	395.8	385.4	2.4	0.8	0.4
57.5°	492.7	484.3	461.6	430.9	369.1	260.7	1.6	0.8	0.4
60°	468.0	459.6	436.9	402.2	342.0	17.9	0.8	0.8	0.4
62.5°	441.7	432.9	411.0	373.1	312.9	14.7	0.8	0.8	0.8
65°	414.1	403.8	383.9	343.2	283.8	12.4	0.8	0.8	0.8
67.5°	386.6	373.5	354.8	312.5	253.9	10.4	0.8	0.8	0.8
70°	357.5	343.2	323.7	281.4	222.4	8.4	0.8	0.8	0.8
72.5°	327.7	313.7	292.6	249.9	192.9	6.4	0.8	0.8	0.8
75°	296.2	283.4	260.7	218.4	161.0	4.8	1.6	0.8	0.8
77.5°	263.5	253.5	228.0	186.1	129.9	3.2	1.6	0.8	0.8
80°	233.2	222.0	195.7	153.5	100.0	2.4	1.6	1.2	0.8
82.5°	202.1	192.1	165.8	123.6	71.7	2.0	1.6	1.2	0.8
85°	174.2	164.6	137.9	96.5	47.0	1.6	1.2	1.2	0.8
87.5°	149.5	140.7	114.4	70.6	26.7	1.2	1.2	1.2	0.8
90°	0.0	0.0	0.0	0.0	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	24.61	26.22	24.97	26.53	26.85	20.04	21.65	20.40	21.97	22.28
	3H	27.05	28.52	27.43	28.84	29.20	20.68	22.15	21.06	22.47	22.83
	4H	28.18	29.56	28.58	29.91	30.28	20.83	22.21	21.22	22.56	22.93
	6H	29.27	30.56	29.68	30.92	31.31	20.87	22.15	21.28	22.52	22.91
	8H	29.80	31.03	30.22	31.42	31.82	20.85	22.08	21.28	22.47	22.87
	12H	30.37	31.55	30.80	31.93	32.36	20.84	22.01	21.27	22.40	22.82
4H	2H	25.26	26.65	25.66	26.99	27.37	21.17	22.55	21.56	22.90	23.27
	3H	27.95	29.12	28.36	29.52	29.92	22.51	23.68	22.92	24.07	24.47
	4H	29.25	30.31	29.68	30.72	31.16	23.04	24.11	23.47	24.52	24.95
	6H	30.53	31.46	30.98	31.90	32.36	23.32	24.25	23.77	24.69	25.15
	8H	31.16	32.03	31.62	32.48	32.94	23.36	24.23	23.82	24.67	25.14
	12H	31.84	32.63	32.32	33.11	33.58	23.37	24.16	23.85	24.63	25.10
8H	4H	29.61	30.49	30.07	30.93	31.39	23.99	24.87	24.45	25.31	25.77
	6H	31.09	31.83	31.59	32.32	32.79	24.58	25.32	25.07	25.80	26.28
	8H	31.88	32.54	32.38	33.05	33.53	24.76	25.42	25.27	25.93	26.41
	12H	32.77	33.36	33.27	33.85	34.41	24.86	25.45	25.37	25.94	26.50
12H	4H	29.65	30.44	30.13	30.92	31.39	24.21	25.00	24.69	25.47	25.94
	6H	31.18	31.85	31.69	32.35	32.84	24.93	25.60	25.44	26.10	26.59
	8H	32.06	32.65	32.57	33.14	33.70	25.24	25.83	25.75	26.32	26.88