

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: P894176

Luminaire Tested: 4MB-SC3-ASYMR-UNV-CC83-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894176
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: 4MB-SC3-ASYMR-UNV-CC83-LOW-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 5000K CCT, LOW setting
Light Source: -
Ballast/Driver: -

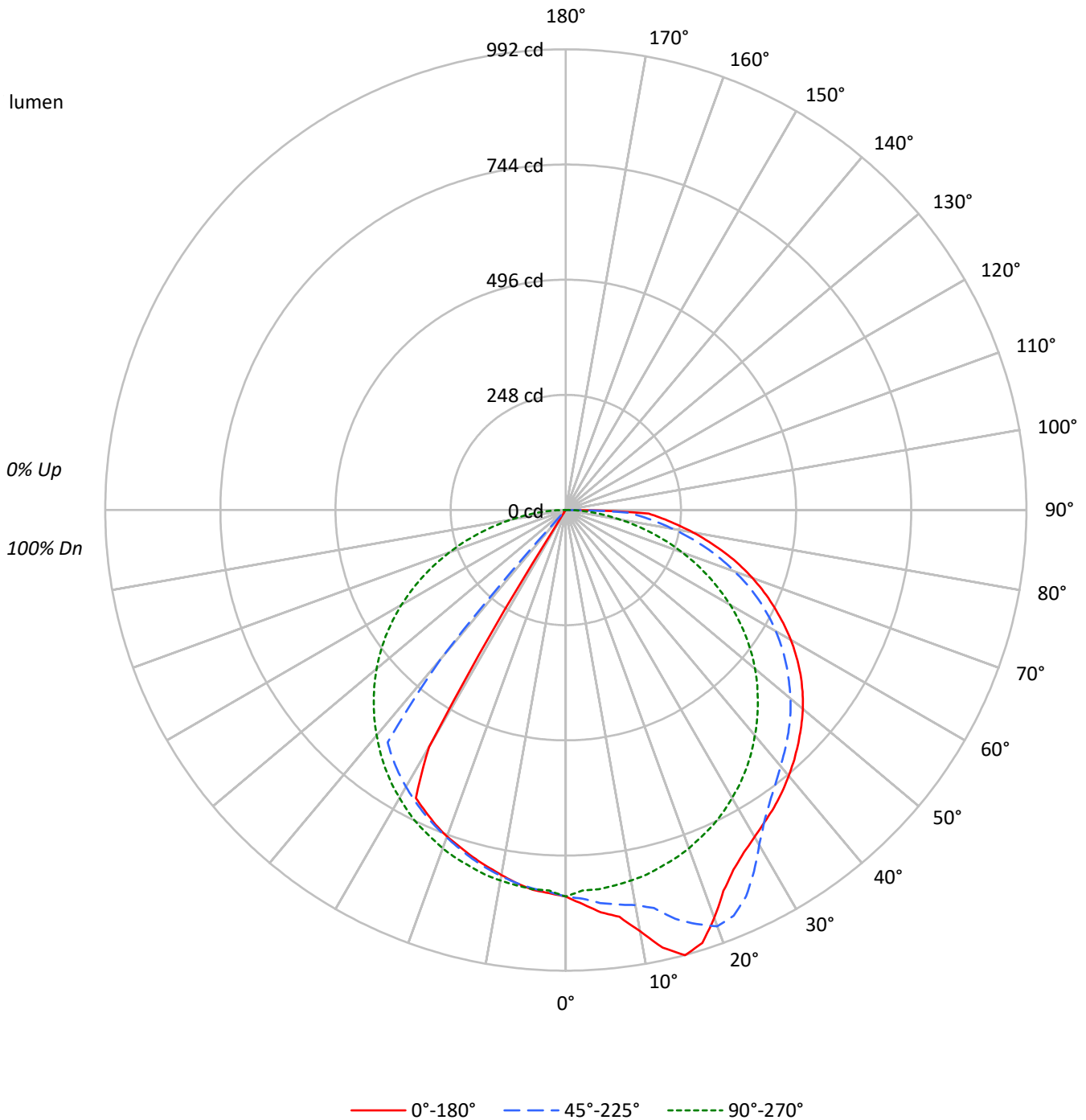
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2252.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
Input Voltage (V):
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			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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10807	10807	10807	10807	10807
5°	11334	11073	10682	10662	10700
10°	12144	11390	10679	10554	10522
15°	13342	12253	10683	10452	10401
20°	12917	13181	10711	10368	10336
25°	12240	13155	10737	10334	10258
30°	12187	12487	10736	10322	8834
35°	12393	12144	10754	10323	120
40°	12662	12201	10740	7119	81
45°	13009	12449	10741	132	53
50°	13462	12759	10747	97	20
55°	13975	13124	10717	66	11
60°	14535	13569	10622	26	13
65°	15218	14106	10428	31	31
70°	16234	14697	10099	38	38
75°	17770	15643	9663	95	50
80°	20856	17506	8951	142	75
85°	31034	24568	8388	209	149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 53227 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.5
10°-20°	238.1	10.6
20°-30°	366.1	16.3
30°-40°	392.3	17.4
40°-50°	356.3	15.8
50°-60°	325.0	14.4
60°-70°	241.8	10.7
70°-80°	170.2	7.6
80°-90°	82.4	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°	684.0	30.4
0°-40°	1076.3	47.8
0°-60°	1757.6	78.0
0°-90°	2252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2252.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	832	832	832	832	832	
5°	870	850	820	818	821	84
15°	992	912	795	778	774	274
25°	854	918	749	721	716	397
35°	782	766	678	651	8	490
45°	708	678	585	7	3	547
55°	617	580	473	3	0	551
65°	495	459	339	1	1	490
75°	354	312	193	2	1	374
85°	208	165	56	1	1	209
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°	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3	832.3
2.5°	849.5	840.0	837.6	844.3	819.9	836.2	822.8	825.7	825.7
5°	869.5	856.2	849.5	847.6	819.5	830.4	818.0	818.0	820.9
7.5°	883.4	868.6	856.7	851.9	815.2	824.7	810.4	810.4	810.4
10°	921.0	893.4	863.8	855.2	809.9	817.1	800.4	801.4	798.0
12.5°	965.3	940.6	877.6	853.8	804.2	807.6	789.9	789.4	785.6
15°	992.5	973.9	911.5	851.9	794.7	797.5	777.5	776.1	773.7
17.5°	977.3	974.4	934.8	850.5	786.1	783.7	763.7	762.3	760.4
20°	934.8	942.0	953.9	847.6	775.1	770.4	750.3	749.4	748.0
22.5°	887.6	894.8	945.3	852.4	761.8	756.1	736.0	735.1	733.2
25°	854.3	854.3	918.2	863.8	749.4	738.9	721.3	719.8	716.0
27.5°	830.9	826.6	877.6	876.7	733.7	721.7	705.5	704.1	699.3
30°	812.8	805.6	832.8	882.9	716.0	703.2	688.4	686.9	589.2
32.5°	796.6	789.0	795.2	888.1	698.4	683.1	670.3	478.1	21.0
35°	781.8	773.2	766.1	884.3	678.4	663.1	651.2	13.8	7.6
37.5°	765.1	758.5	742.2	864.3	656.9	641.7	630.2	7.6	6.7
40°	747.0	740.8	719.8	834.7	633.6	620.7	420.0	6.7	4.8
42.5°	728.4	723.7	698.9	791.8	610.2	597.3	13.3	5.2	3.8
45°	708.4	704.1	677.9	739.9	584.9	573.0	7.2	3.8	2.9
47.5°	687.9	681.7	656.0	684.1	559.2	547.3	6.2	2.9	1.9
50°	666.4	659.8	631.6	635.0	532.0	520.1	4.8	1.9	1.0
52.5°	642.6	634.5	605.9	590.6	503.4	492.4	3.8	1.0	0.5
55°	617.3	608.3	579.7	552.0	473.4	461.0	2.9	1.0	0.5
57.5°	589.2	579.2	552.0	515.3	441.4	311.8	1.9	1.0	0.5
60°	559.7	549.7	522.5	481.0	409.0	21.5	1.0	1.0	0.5
62.5°	528.2	517.7	491.5	446.2	374.2	17.6	1.0	1.0	1.0
65°	495.3	482.9	459.1	410.5	339.4	14.8	1.0	1.0	1.0
67.5°	462.4	446.7	424.3	373.7	303.7	12.4	1.0	1.0	1.0
70°	427.6	410.5	387.1	336.6	266.0	10.0	1.0	1.0	1.0
72.5°	391.9	375.2	349.9	298.9	230.7	7.6	1.0	1.0	1.0
75°	354.2	338.9	311.8	261.2	192.6	5.7	1.9	1.0	1.0
77.5°	315.1	303.2	272.7	222.6	155.4	3.8	1.9	1.0	1.0
80°	278.9	265.5	234.1	183.5	119.7	2.9	1.9	1.4	1.0
82.5°	241.7	229.8	198.3	147.8	85.8	2.4	1.9	1.4	1.0
85°	208.3	196.9	164.9	115.4	56.3	1.9	1.4	1.4	1.0
87.5°	178.8	168.3	136.8	84.4	31.9	1.4	1.4	1.4	1.0
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	22.80	24.42	23.17	24.73	25.04	18.23	19.85	18.60	20.16	20.48
	3H	25.25	26.71	25.62	27.04	27.40	18.88	20.34	19.25	20.67	21.03
	4H	26.37	27.76	26.77	28.10	28.48	19.02	20.40	19.42	20.75	21.13
	6H	27.47	28.75	27.88	29.11	29.51	19.06	20.35	19.47	20.71	21.10
	8H	28.00	29.22	28.42	29.61	30.01	19.05	20.28	19.47	20.67	21.07
	12H	28.56	29.74	28.99	30.12	30.55	19.03	20.21	19.46	20.59	21.02
4H	2H	23.46	24.84	23.86	25.19	25.56	19.36	20.74	19.76	21.09	21.47
	3H	26.15	27.32	26.56	27.71	28.11	20.70	21.87	21.11	22.27	22.67
	4H	27.44	28.51	27.87	28.92	29.35	21.24	22.30	21.67	22.71	23.15
	6H	28.72	29.66	29.18	30.10	30.55	21.51	22.45	21.97	22.89	23.34
	8H	29.35	30.23	29.81	30.67	31.14	21.55	22.43	22.01	22.87	23.34
	12H	30.04	30.83	30.52	31.30	31.77	21.56	22.35	22.04	22.83	23.30
8H	4H	27.81	28.68	28.27	29.13	29.59	22.19	23.06	22.64	23.50	23.97
	6H	29.29	30.03	29.78	30.51	30.99	22.78	23.51	23.27	24.00	24.47
	8H	30.07	30.74	30.58	31.24	31.73	22.95	23.62	23.46	24.12	24.61
	12H	30.96	31.55	31.47	32.04	32.60	23.06	23.65	23.56	24.14	24.70
12H	4H	27.85	28.64	28.33	29.11	29.58	22.40	23.19	22.88	23.67	24.14
	6H	29.38	30.04	29.88	30.55	31.03	23.13	23.79	23.63	24.30	24.78
	8H	30.26	30.85	30.76	31.34	31.90	23.44	24.03	23.94	24.52	25.08