

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: P894174

Luminaire Tested: 4MB-SC3-ASYMR-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894174
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-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3500K CCT, LOW setting
Light Source: -
Ballast/Driver: -

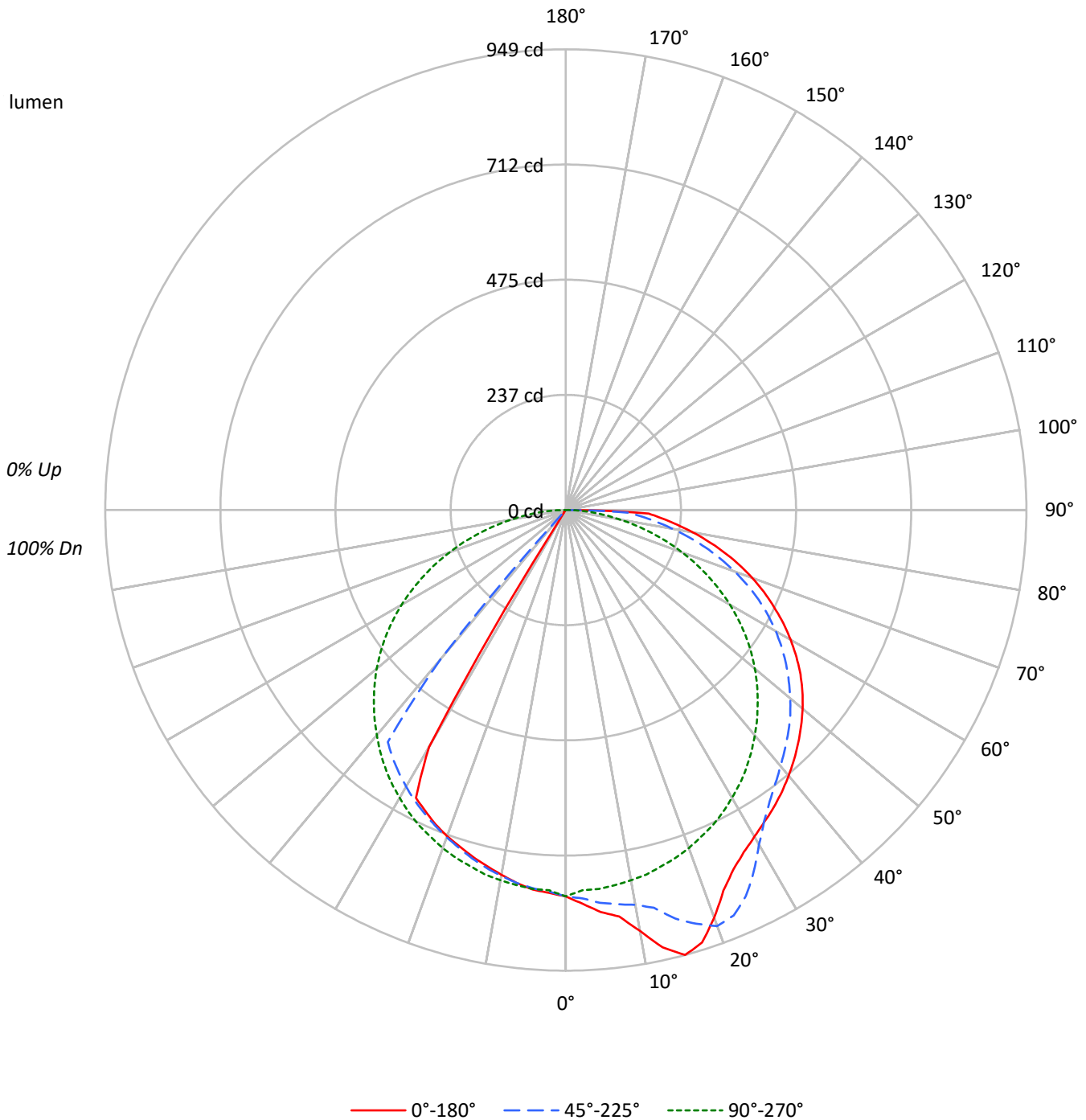
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2153.0 lumens
Efficiency: N/A
Efficacy: 128.9 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				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°	10334	10334	10334	10334	10334
5°	10836	10587	10211	10194	10230
10°	11610	10888	10209	10089	10059
15°	12756	11714	10213	9992	9944
20°	12350	12602	10241	9913	9882
25°	11701	12577	10266	9880	9807
30°	11652	11938	10263	9867	8446
35°	11848	11610	10280	9869	116
40°	12106	11666	10267	6806	78
45°	12438	11901	10269	125	50
50°	12870	12200	10274	93	18
55°	13361	12546	10246	61	11
60°	13897	12972	10154	23	13
65°	14548	13485	9970	28	28
70°	15520	14051	9655	34	34
75°	16988	14956	9236	90	45
80°	19936	16735	8555	135	67
85°	29678	23495	8016	209	134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 50875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.5
10°-20°	227.7	10.6
20°-30°	350.0	16.3
30°-40°	375.1	17.4
40°-50°	340.6	15.8
50°-60°	310.7	14.4
60°-70°	231.1	10.7
70°-80°	162.7	7.6
80°-90°	78.8	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°	653.9	30.4
0°-40°	1029.0	47.8
0°-60°	1680.3	78.0
0°-90°	2153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2153.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	796	796	796	796	796	
5°	831	812	783	782	785	81
15°	949	871	760	743	740	262
25°	817	878	716	690	684	380
35°	747	732	648	623	7	468
45°	677	648	559	7	3	523
55°	590	554	453	3	0	527
65°	474	439	324	1	1	469
75°	339	298	184	2	1	357
85°	199	158	54	1	1	200
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°	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8
2.5°	812.2	803.0	800.8	807.1	783.9	799.4	786.6	789.4	789.4
5°	831.3	818.5	812.2	810.3	783.4	793.9	782.1	782.1	784.8
7.5°	844.5	830.4	819.0	814.4	779.3	788.5	774.8	774.8	774.8
10°	880.5	854.1	825.8	817.6	774.3	781.2	765.2	766.1	762.9
12.5°	922.9	899.2	839.1	816.3	768.9	772.1	755.2	754.7	751.1
15°	948.9	931.1	871.4	814.4	759.7	762.5	743.3	742.0	739.7
17.5°	934.3	931.6	893.7	813.1	751.5	749.3	730.1	728.8	726.9
20°	893.7	900.6	912.0	810.3	741.1	736.5	717.4	716.5	715.1
22.5°	848.6	855.5	903.8	814.9	728.3	722.8	703.7	702.8	701.0
25°	816.7	816.7	877.8	825.8	716.5	706.4	689.6	688.2	684.5
27.5°	794.4	790.3	839.1	838.1	701.4	690.0	674.5	673.2	668.6
30°	777.1	770.2	796.2	844.1	684.5	672.2	658.1	656.7	563.3
32.5°	761.6	754.3	760.2	849.1	667.7	653.1	640.8	457.1	20.1
35°	747.4	739.2	732.4	845.4	648.5	634.0	622.6	13.2	7.3
37.5°	731.5	725.1	709.6	826.3	628.0	613.5	602.5	7.3	6.4
40°	714.2	708.2	688.2	798.0	605.7	593.4	401.5	6.4	4.6
42.5°	696.4	691.8	668.1	757.0	583.4	571.1	12.8	5.0	3.6
45°	677.3	673.2	648.1	707.3	559.2	547.8	6.8	3.6	2.7
47.5°	657.7	651.7	627.1	654.0	534.6	523.2	5.9	2.7	1.8
50°	637.1	630.8	603.9	607.1	508.6	497.2	4.6	1.8	0.9
52.5°	614.4	606.6	579.3	564.7	481.3	470.8	3.6	0.9	0.5
55°	590.2	581.5	554.2	527.8	452.6	440.7	2.7	0.9	0.5
57.5°	563.3	553.7	527.8	492.7	422.0	298.1	1.8	0.9	0.5
60°	535.1	525.5	499.5	459.9	391.0	20.5	0.9	0.9	0.5
62.5°	505.0	495.0	469.9	426.6	357.8	16.9	0.9	0.9	0.9
65°	473.5	461.7	438.9	392.4	324.5	14.1	0.9	0.9	0.9
67.5°	442.1	427.0	405.6	357.3	290.3	11.8	0.9	0.9	0.9
70°	408.8	392.4	370.1	321.8	254.3	9.6	0.9	0.9	0.9
72.5°	374.6	358.7	334.5	285.8	220.6	7.3	0.9	0.9	0.9
75°	338.6	324.0	298.1	249.8	184.1	5.5	1.8	0.9	0.9
77.5°	301.3	289.9	260.7	212.8	148.6	3.6	1.8	0.9	0.9
80°	266.6	253.9	223.8	175.5	114.4	2.7	1.8	1.4	0.9
82.5°	231.1	219.7	189.6	141.3	82.0	2.3	1.8	1.4	0.9
85°	199.2	188.2	157.7	110.3	53.8	1.8	1.4	1.4	0.9
87.5°	170.9	160.9	130.8	80.7	30.5	1.4	1.4	1.4	0.9
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	22.65	24.26	23.01	24.57	24.89	18.08	19.69	18.44	20.01	20.32
	3H	25.09	26.56	25.47	26.88	27.24	18.72	20.18	19.10	20.51	20.87
	4H	26.22	27.60	26.61	27.95	28.32	18.86	20.25	19.26	20.59	20.97
	6H	27.31	28.59	27.72	28.96	29.35	18.91	20.19	19.32	20.55	20.94
	8H	27.84	29.07	28.26	29.46	29.85	18.89	20.12	19.32	20.51	20.91
	12H	28.41	29.59	28.84	29.97	30.40	18.88	20.05	19.30	20.43	20.86
4H	2H	23.30	24.69	23.70	25.03	25.41	19.20	20.59	19.60	20.93	21.31
	3H	25.99	27.16	26.40	27.56	27.96	20.55	21.72	20.96	22.11	22.51
	4H	27.29	28.35	27.72	28.76	29.20	21.08	22.15	21.51	22.56	22.99
	6H	28.57	29.50	29.02	29.94	30.40	21.36	22.29	21.81	22.73	23.19
	8H	29.20	30.07	29.65	30.51	30.98	21.40	22.27	21.85	22.71	23.18
	12H	29.88	30.67	30.36	31.15	31.62	21.41	22.20	21.89	22.67	23.14
8H	4H	27.65	28.53	28.11	28.97	29.43	22.03	22.91	22.49	23.35	23.81
	6H	29.13	29.87	29.63	30.36	30.83	22.62	23.36	23.11	23.84	24.32
	8H	29.92	30.58	30.42	31.09	31.57	22.80	23.46	23.31	23.97	24.45
	12H	30.81	31.40	31.31	31.89	32.45	22.90	23.49	23.41	23.98	24.54
12H	4H	27.69	28.48	28.17	28.96	29.43	22.25	23.04	22.73	23.51	23.98
	6H	29.22	29.89	29.73	30.39	30.88	22.97	23.64	23.48	24.14	24.63
	8H	30.10	30.69	30.61	31.18	31.74	23.28	23.87	23.79	24.36	24.92