

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: P894175

Luminaire Tested: 4MB-SC3-ASYMR-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894175
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-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 4000K CCT, LOW setting
Light Source: -
Ballast/Driver: -

Summary

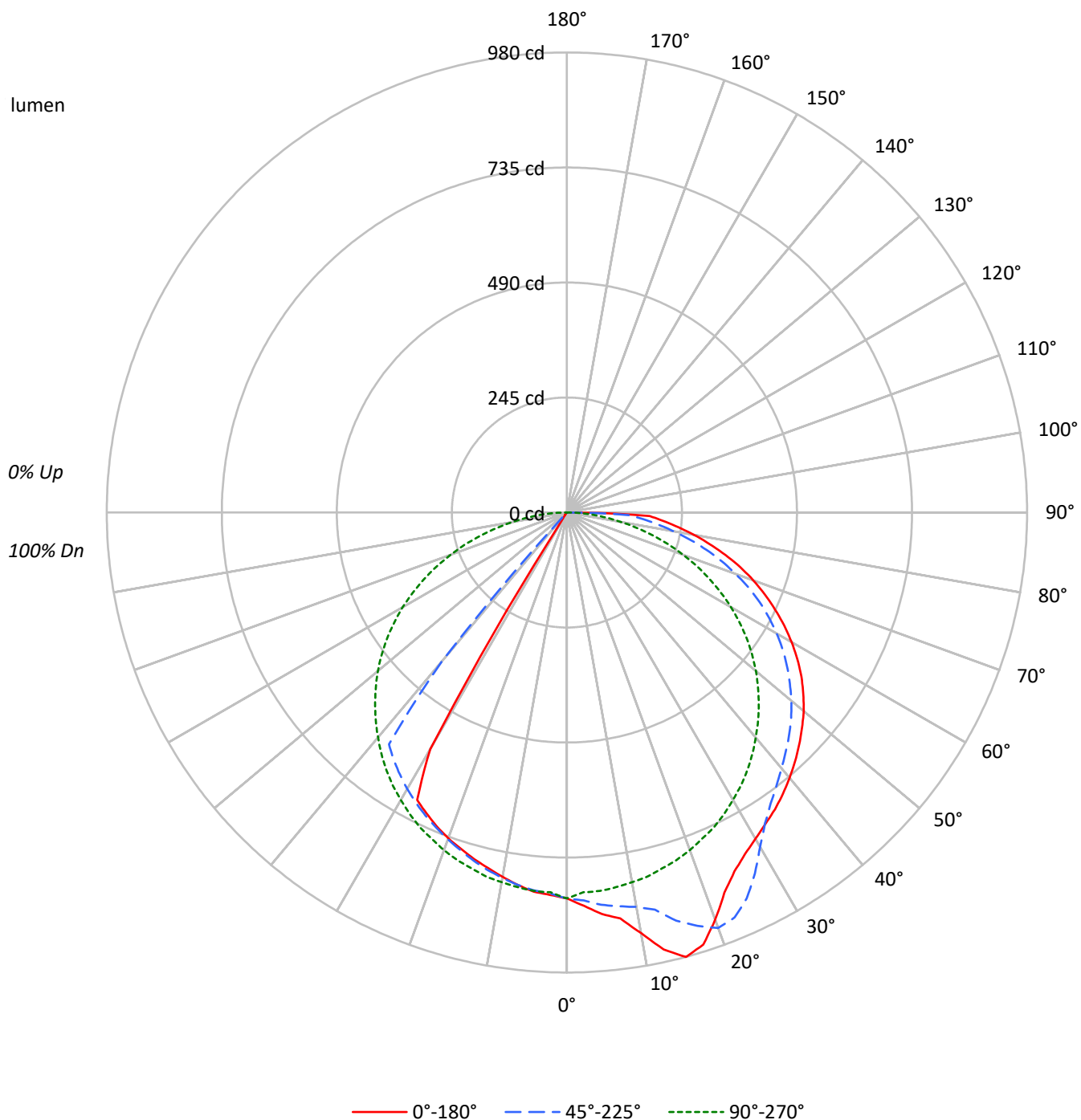
Lumens per Lamp: N/A
Luminaire Lumens: 2224.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 3.98' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	10674	10674	10674	10674	10674
5°	11193	10935	10549	10531	10567
10°	11993	11248	10547	10423	10391
15°	13177	12100	10550	10323	10272
20°	12757	13017	10578	10239	10208
25°	12088	12991	10604	10205	10131
30°	12036	12332	10602	10193	8725
35°	12239	11994	10619	10194	119
40°	12505	12050	10606	7031	80
45°	12847	12294	10609	130	51
50°	13296	12602	10614	95	18
55°	13803	12961	10584	63	11
60°	14354	13401	10489	23	13
65°	15028	13931	10299	28	28
70°	16033	14514	9974	34	34
75°	17550	15447	9542	95	45
80°	20594	17289	8839	142	67
85°	30647	24270	8284	209	134

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 87.5°

Luminance: 52542 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	3.5
10°-20°	235.2	10.6
20°-30°	361.5	16.3
30°-40°	387.4	17.4
40°-50°	351.9	15.8
50°-60°	321.0	14.4
60°-70°	238.8	10.7
70°-80°	168.1	7.6
80°-90°	81.4	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°	675.5	30.4
0°-40°	1062.9	47.8
0°-60°	1735.8	78.0
0°-90°	2224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2224.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	822	822	822	822	822	
5°	859	839	809	808	811	83
15°	980	900	785	768	764	271
25°	844	907	740	712	707	392
35°	772	757	670	643	8	484
45°	700	670	578	7	3	541
55°	610	572	468	3	0	544
65°	489	453	335	1	1	484
75°	350	308	190	2	1	369
85°	206	163	56	1	1	207
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°	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0
2.5°	838.9	829.5	827.2	833.8	809.8	825.8	812.6	815.4	815.4
5°	858.7	845.5	838.9	837.1	809.3	820.1	807.9	807.9	810.7
7.5°	872.4	857.8	846.0	841.3	805.0	814.5	800.3	800.3	800.3
10°	909.6	882.3	853.1	844.6	799.9	806.9	790.5	791.4	788.1
12.5°	953.3	928.9	866.7	843.2	794.2	797.5	780.1	779.6	775.9
15°	980.2	961.8	900.1	841.3	784.8	787.6	767.9	766.4	764.1
17.5°	965.1	962.3	923.2	839.9	776.3	774.0	754.2	752.8	750.9
20°	923.2	930.3	942.0	837.1	765.5	760.8	741.0	740.1	738.7
22.5°	876.6	883.7	933.6	841.8	752.3	746.7	726.9	726.0	724.1
25°	843.7	843.7	906.7	853.1	740.1	729.7	712.3	710.9	707.1
27.5°	820.6	816.3	866.7	865.8	724.5	712.8	696.8	695.4	690.6
30°	802.7	795.6	822.5	871.9	707.1	694.4	679.8	678.4	581.9
32.5°	786.7	779.2	785.3	877.1	689.7	674.6	661.9	472.2	20.7
35°	772.1	763.6	756.6	873.3	669.9	654.9	643.1	13.7	7.5
37.5°	755.6	749.0	733.0	853.5	648.7	633.7	622.4	7.5	6.6
40°	737.7	731.6	710.9	824.3	625.7	613.0	414.8	6.6	4.7
42.5°	719.4	714.7	690.2	782.0	602.6	589.9	13.2	5.2	3.8
45°	699.6	695.4	669.5	730.7	577.7	565.9	7.1	3.8	2.8
47.5°	679.3	673.2	647.8	675.6	552.2	540.5	6.1	2.8	1.9
50°	658.2	651.6	623.8	627.1	525.4	513.6	4.7	1.9	0.9
52.5°	634.6	626.6	598.4	583.3	497.2	486.3	3.8	0.9	0.5
55°	609.7	600.7	572.5	545.2	467.5	455.3	2.8	0.9	0.5
57.5°	581.9	572.0	545.2	508.9	435.9	307.9	1.9	0.9	0.5
60°	552.7	542.8	516.0	475.0	403.9	21.2	0.9	0.9	0.5
62.5°	521.6	511.3	485.4	440.7	369.6	17.4	0.9	0.9	0.9
65°	489.1	476.9	453.4	405.3	335.2	14.6	0.9	0.9	0.9
67.5°	456.7	441.1	419.0	369.1	299.9	12.2	0.9	0.9	0.9
70°	422.3	405.3	382.3	332.4	262.7	9.9	0.9	0.9	0.9
72.5°	387.0	370.5	345.6	295.2	227.9	7.5	0.9	0.9	0.9
75°	349.8	334.7	307.9	258.0	190.2	5.6	1.9	0.9	0.9
77.5°	311.2	299.4	269.3	219.9	153.5	3.8	1.9	0.9	0.9
80°	275.4	262.2	231.2	181.3	118.2	2.8	1.9	1.4	0.9
82.5°	238.7	226.9	195.8	145.9	84.7	2.4	1.9	1.4	0.9
85°	205.7	194.4	162.9	113.9	55.6	1.9	1.4	1.4	0.9
87.5°	176.5	166.2	135.1	83.3	31.5	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	22.76	24.37	23.12	24.69	25.00	18.19	19.80	18.56	20.12	20.43
	3H	25.20	26.67	25.58	27.00	27.36	18.83	20.30	19.21	20.62	20.98
	4H	26.33	27.71	26.73	28.06	28.43	18.98	20.36	19.38	20.71	21.08
	6H	27.42	28.71	27.83	29.07	29.46	19.02	20.30	19.43	20.67	21.06
	8H	27.95	29.18	28.38	29.57	29.97	19.01	20.23	19.43	20.62	21.02
	12H	28.52	29.70	28.95	30.08	30.51	18.99	20.17	19.42	20.55	20.98
4H	2H	23.42	24.80	23.81	25.15	25.52	19.32	20.70	19.72	21.05	21.42
	3H	26.10	27.27	26.51	27.67	28.07	20.66	21.83	21.07	22.23	22.63
	4H	27.40	28.46	27.83	28.88	29.31	21.20	22.26	21.63	22.67	23.11
	6H	28.68	29.61	29.13	30.05	30.51	21.47	22.40	21.92	22.84	23.30
	8H	29.31	30.19	29.77	30.63	31.09	21.51	22.39	21.97	22.83	23.29
	12H	29.99	30.79	30.47	31.26	31.73	21.52	22.31	22.00	22.79	23.25
8H	4H	27.76	28.64	28.22	29.08	29.55	22.14	23.02	22.60	23.46	23.93
	6H	29.25	29.98	29.74	30.47	30.94	22.73	23.47	23.23	23.96	24.43
	8H	30.03	30.69	30.54	31.20	31.68	22.91	23.58	23.42	24.08	24.57
	12H	30.92	31.51	31.42	32.00	32.56	23.01	23.60	23.52	24.09	24.65
12H	4H	27.80	28.60	28.28	29.07	29.54	22.36	23.15	22.84	23.63	24.09
	6H	29.33	30.00	29.84	30.50	30.99	23.08	23.75	23.59	24.25	24.74
	8H	30.21	30.81	30.72	31.29	31.85	23.40	23.99	23.90	24.48	25.03