

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: P893087

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-RFLW-UNV-CC83-LOW-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

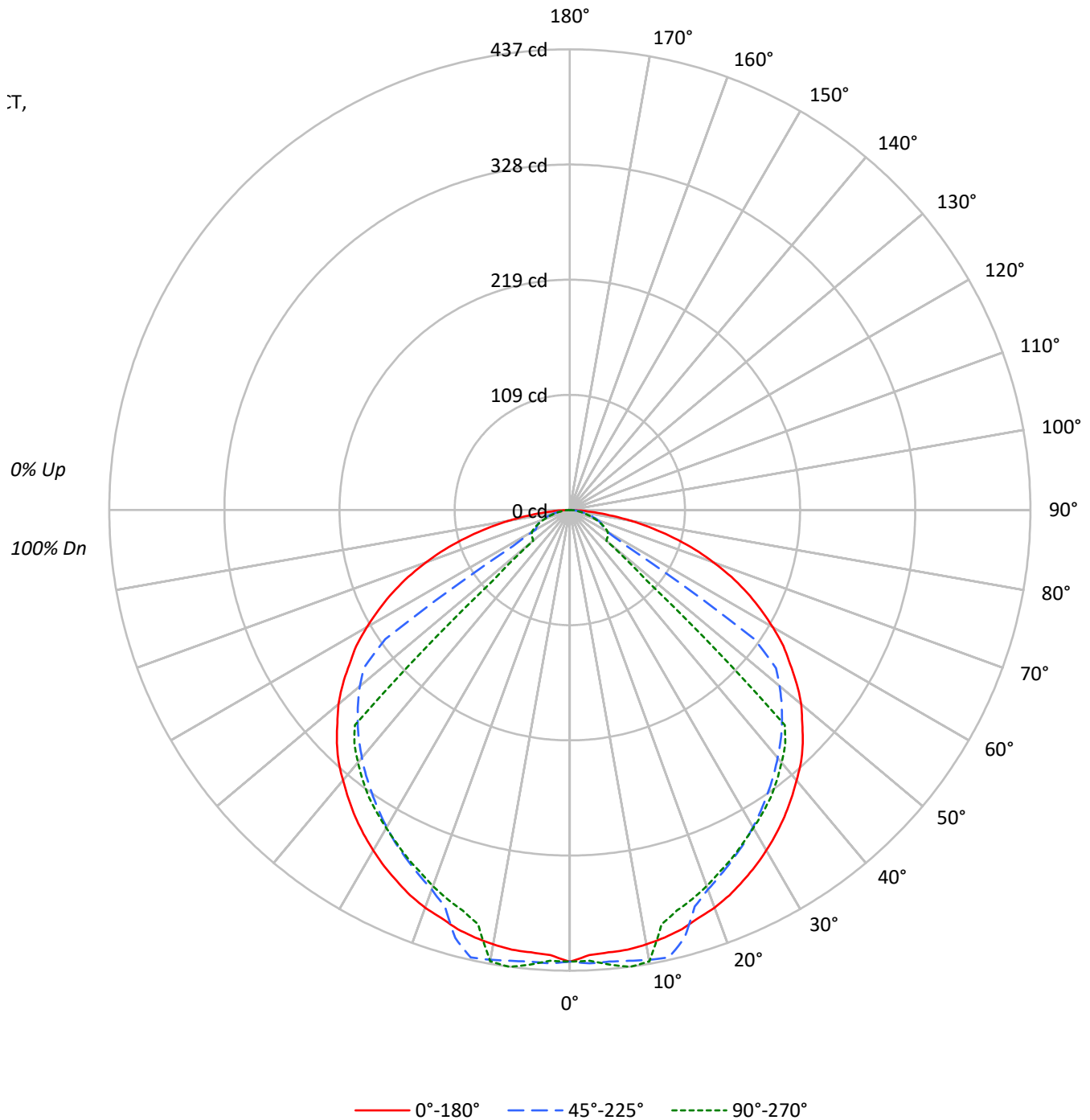
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1006.0 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 6.9
Input Voltage (V): 120
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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11185	11185	11185
5°	11039	11267	11343
10°	11089	11484	11524
15°	11122	11358	10628
20°	11152	10644	10549
25°	11189	10535	10494
30°	11242	10473	10500
35°	11318	10441	10594
40°	11410	10456	10654
45°	11542	10512	10652
50°	11641	10560	1844
55°	11616	9727	1998
60°	11613	1963	2167
65°	11472	2088	2144
70°	11084	2176	1992
75°	10319	2048	1755
80°	8856	1819	1519
85°	5931	1737	1288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 11676 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	4.1
10°-20°	115.8	11.5
20°-30°	173.2	17.2
30°-40°	208.9	20.8
40°-50°	210.3	20.9
50°-60°	131.2	13.0
60°-70°	82.5	8.2
70°-80°	34.3	3.4
80°-90°	8.8	0.9
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°	330.0	32.8
0°-40°	538.9	53.6
0°-60°	880.4	87.5
0°-90°	1006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1006.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	421	430	430	430	433	40
15°	412	424	420	393	393	116
25°	388	403	366	363	364	179
35°	355	332	328	330	332	222
45°	313	283	285	288	288	241
55°	255	225	214	42	44	229
65°	186	161	34	35	35	183
75°	102	25	20	18	17	108
85°	20	7	6	4	4	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	428.4	428.4	428.4	428.4	428.4
2.5°	422.6	430.4	430.4	428.4	427.9
5°	421.2	429.9	429.9	430.4	432.8
7.5°	420.7	428.9	431.3	434.2	437.1
10°	418.3	427.9	433.2	437.1	434.7
12.5°	415.4	426.0	434.7	410.1	402.4
15°	411.5	424.1	420.2	393.2	393.2
17.5°	405.7	421.2	394.2	386.4	386.9
20°	401.4	418.8	383.1	378.7	379.7
22.5°	395.6	414.0	374.4	370.5	371.5
25°	388.4	403.3	365.7	362.8	364.3
27.5°	381.1	381.6	357.0	355.1	356.1
30°	372.9	360.9	347.4	346.9	348.3
32.5°	364.3	345.4	337.7	338.7	340.6
35°	355.1	332.4	327.6	329.5	332.4
37.5°	345.0	320.4	317.5	320.8	322.8
40°	334.8	307.8	306.8	310.2	312.6
42.5°	324.7	295.7	296.2	299.6	302.5
45°	312.6	282.7	284.7	288.5	288.5
47.5°	299.1	268.7	272.6	264.4	97.9
50°	286.6	254.7	260.0	78.2	45.4
52.5°	271.6	239.8	246.5	42.9	44.4
55°	255.2	224.8	213.7	42.0	43.9
57.5°	240.3	209.4	63.7	41.5	42.9
60°	222.4	193.9	37.6	40.5	41.5
62.5°	204.1	177.5	35.7	38.6	38.6
65°	185.7	160.7	33.8	35.2	34.7
67.5°	166.0	143.3	31.8	30.9	30.4
70°	145.2	88.3	28.5	26.5	26.1
72.5°	124.5	30.4	24.6	22.2	21.7
75°	102.3	24.6	20.3	17.9	17.4
77.5°	80.6	20.3	15.9	14.0	13.5
80°	58.9	15.4	12.1	10.6	10.1
82.5°	38.1	11.1	9.2	7.2	6.8
85°	19.8	7.2	5.8	4.3	4.3
87.5°	7.7	4.3	2.9	1.9	1.4
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	21.38	22.90	21.75	23.21	23.52	10.02	11.53	10.39	11.85	12.16
	3H	23.30	24.65	23.68	24.98	25.34	12.15	13.50	12.53	13.83	14.19
	4H	23.79	25.05	24.19	25.40	25.78	12.84	14.11	13.24	14.46	14.83
	6H	24.22	25.39	24.64	25.76	26.15	13.30	14.47	13.71	14.83	15.23
	8H	24.36	25.47	24.79	25.86	26.26	13.44	14.55	13.86	14.94	15.34
	12H	24.44	25.50	24.87	25.88	26.31	13.52	14.58	13.95	14.97	15.40
4H	2H	21.23	22.49	21.63	22.84	23.22	10.77	12.04	11.17	12.39	12.77
	3H	23.26	24.30	23.67	24.70	25.10	13.12	14.16	13.53	14.56	14.96
	4H	23.74	24.68	24.18	25.10	25.54	13.91	14.85	14.34	15.26	15.70
	6H	24.26	25.07	24.71	25.51	25.97	14.48	15.29	14.94	15.74	16.20
	8H	24.44	25.20	24.91	25.65	26.11	14.65	15.41	15.12	15.86	16.32
	12H	24.57	25.25	25.05	25.72	26.20	14.77	15.45	15.25	15.93	16.40
8H	4H	23.67	24.43	24.13	24.87	25.34	14.50	15.26	14.96	15.70	16.17
	6H	24.18	24.81	24.68	25.30	25.78	15.15	15.78	15.65	16.27	16.75
	8H	24.38	24.94	24.89	25.45	25.94	15.37	15.94	15.89	16.45	16.94
	12H	24.54	25.04	25.05	25.53	26.10	15.54	16.04	16.05	16.54	17.10
12H	4H	23.64	24.32	24.12	24.79	25.27	14.58	15.26	15.06	15.74	16.21
	6H	24.14	24.70	24.65	25.21	25.70	15.26	15.82	15.78	16.33	16.82
	8H	24.36	24.86	24.87	25.35	25.92	15.54	16.04	16.05	16.53	17.10