

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: P893066

Luminaire Tested: 2MB-SC3-LVRF-UNV-CC83-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-LVRF-UNV-CC83-HI-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

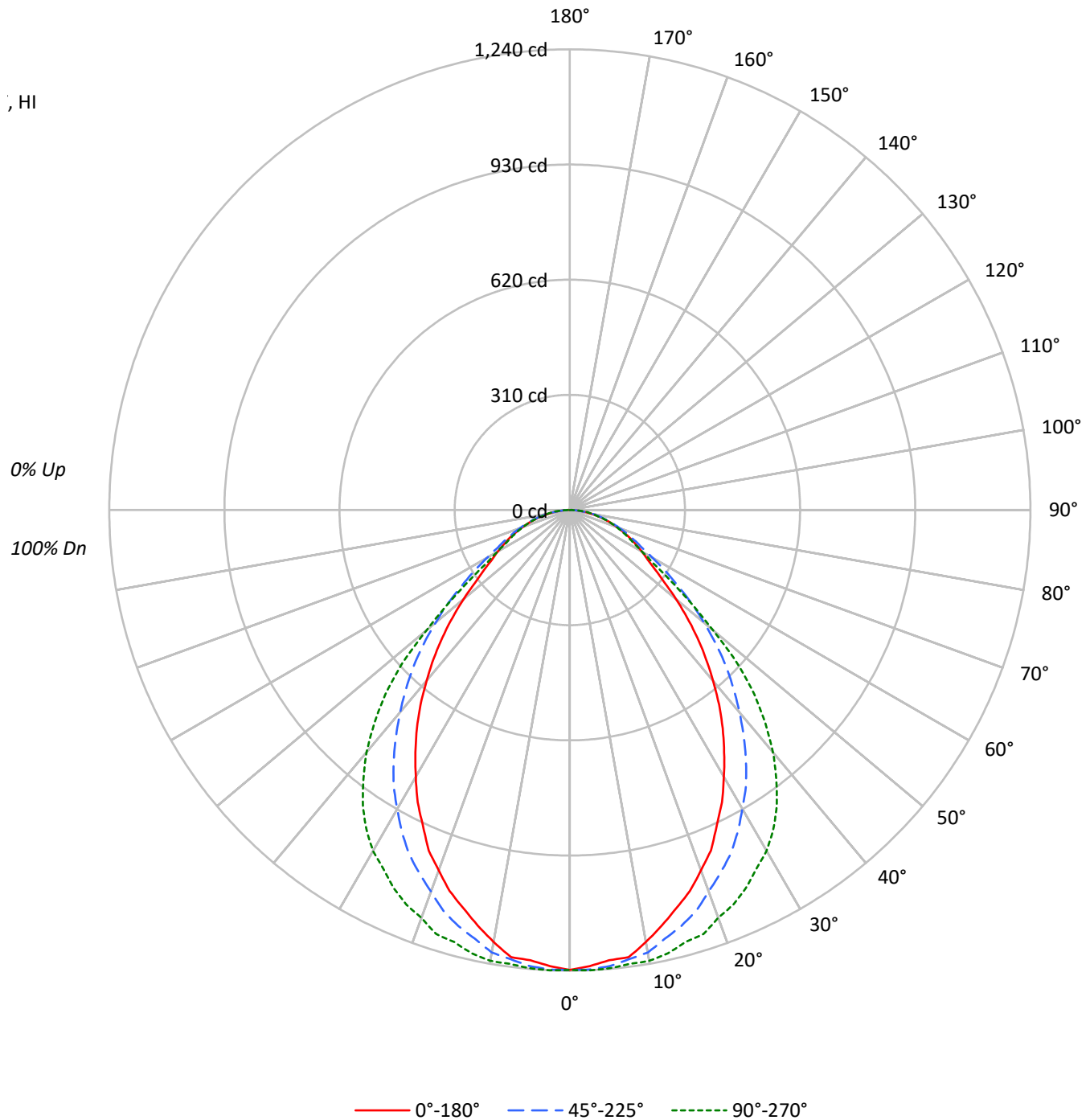
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.26 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75	75	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65	65	65
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57	57	57
5	80	69	61	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33	33
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17709	17709	17709
5°	17465	17695	17776
10°	17151	17567	17899
15°	16420	17165	17825
20°	15711	16633	17784
25°	14773	16144	17716
30°	13702	15346	17501
35°	12529	14446	16964
40°	11195	13268	15896
45°	9814	12035	14212
50°	8301	10491	11179
55°	7021	8817	8191
60°	6415	7364	6449
65°	6079	6469	5849
70°	5697	5981	5601
75°	5312	5627	5378
80°	4902	5281	5182
85°	4317	4694	5630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14212 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	4.7
10°-20°	326.8	13.0
20°-30°	471.0	18.8
30°-40°	519.6	20.7
40°-50°	454.8	18.1
50°-60°	298.8	11.9
60°-70°	182.6	7.3
70°-80°	105.7	4.2
80°-90°	32.8	1.3
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°	914.6	36.5
0°-40°	1434.2	57.2
0°-60°	2187.9	87.2
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1216	1229	1232	1239	1238	115
15°	1109	1127	1159	1197	1204	312
25°	936	968	1023	1085	1122	431
35°	717	748	827	919	971	447
45°	485	515	595	668	702	374
55°	282	296	354	355	328	257
65°	180	180	191	183	173	177
75°	96	96	102	104	97	102
85°	26	26	29	31	34	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.9	1237.9	1237.9	1237.9	1237.9
2.5°	1228.8	1235.7	1237.9	1242.5	1240.2
5°	1216.2	1228.8	1232.2	1239.1	1237.9
7.5°	1213.9	1209.3	1219.6	1233.4	1232.2
10°	1180.7	1189.9	1209.3	1229.9	1232.2
12.5°	1145.3	1160.1	1181.9	1217.4	1221.9
15°	1108.7	1127.0	1159.0	1196.8	1203.6
17.5°	1075.5	1093.8	1131.5	1173.9	1196.8
20°	1032.0	1057.2	1092.6	1145.3	1168.2
22.5°	992.0	1012.6	1058.3	1115.5	1149.8
25°	935.9	967.9	1022.8	1084.6	1122.4
27.5°	886.7	916.4	978.2	1046.9	1088.1
30°	829.5	862.7	929.0	1005.7	1059.5
32.5°	773.4	804.3	882.1	961.1	1019.4
35°	717.4	748.3	827.2	918.7	971.4
37.5°	660.2	692.2	768.9	862.7	913.0
40°	599.5	636.1	710.5	803.2	851.2
42.5°	542.3	576.6	652.2	742.5	779.2
45°	485.1	514.9	594.9	668.2	702.5
47.5°	427.9	456.5	533.2	593.8	613.3
50°	373.0	399.3	471.4	509.1	502.3
52.5°	321.5	345.5	414.2	429.0	409.6
55°	281.5	296.3	353.5	354.7	328.4
57.5°	248.3	259.7	304.3	292.9	264.3
60°	224.2	227.7	257.4	244.8	225.4
62.5°	200.2	202.5	218.5	209.4	194.5
65°	179.6	179.6	191.1	183.1	172.8
67.5°	156.7	157.9	165.9	161.3	153.3
70°	136.2	136.2	143.0	143.0	133.9
72.5°	115.6	115.6	121.3	122.4	116.7
75°	96.1	96.1	101.8	104.1	97.3
77.5°	77.8	77.8	82.4	85.8	77.8
80°	59.5	59.5	64.1	67.5	62.9
82.5°	42.3	43.5	45.8	49.2	49.2
85°	26.3	26.3	28.6	30.9	34.3
87.5°	11.4	12.6	13.7	14.9	17.2
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	17.40	18.87	17.76	19.19	19.50	18.14	19.62	18.51	19.93	20.25
	3H	19.00	20.32	19.37	20.65	21.01	19.48	20.80	19.86	21.13	21.49
	4H	19.61	20.85	20.01	21.20	21.58	20.06	21.29	20.46	21.64	22.02
	6H	20.09	21.23	20.50	21.60	21.99	20.51	21.65	20.93	22.02	22.41
	8H	20.25	21.34	20.68	21.72	22.13	20.69	21.78	21.12	22.17	22.57
	12H	20.35	21.39	20.78	21.78	22.21	20.84	21.88	21.28	22.27	22.70
4H	2H	18.02	19.26	18.42	19.61	19.99	18.62	19.86	19.02	20.21	20.59
	3H	19.83	20.86	20.24	21.26	21.66	20.23	21.25	20.64	21.65	22.05
	4H	20.57	21.49	21.00	21.91	22.35	20.96	21.88	21.39	22.29	22.73
	6H	21.17	21.97	21.63	22.41	22.87	21.57	22.37	22.03	22.81	23.27
	8H	21.37	22.12	21.84	22.57	23.03	21.80	22.55	22.27	23.00	23.47
	12H	21.52	22.19	22.00	22.67	23.14	22.01	22.68	22.49	23.16	23.63
8H	4H	20.88	21.63	21.34	22.07	22.54	21.22	21.97	21.69	22.42	22.89
	6H	21.60	22.22	22.10	22.72	23.19	21.98	22.60	22.48	23.09	23.57
	8H	21.89	22.44	22.40	22.95	23.44	22.31	22.86	22.82	23.37	23.86
	12H	22.11	22.60	22.62	23.10	23.66	22.60	23.09	23.11	23.59	24.15
12H	4H	20.91	21.58	21.40	22.06	22.53	21.24	21.91	21.73	22.39	22.86
	6H	21.67	22.23	22.18	22.74	23.23	22.03	22.58	22.54	23.09	23.58
	8H	22.01	22.51	22.52	23.00	23.56	22.41	22.91	22.92	23.40	23.97