

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: P894254

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRA-UNV-CC93-HI-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

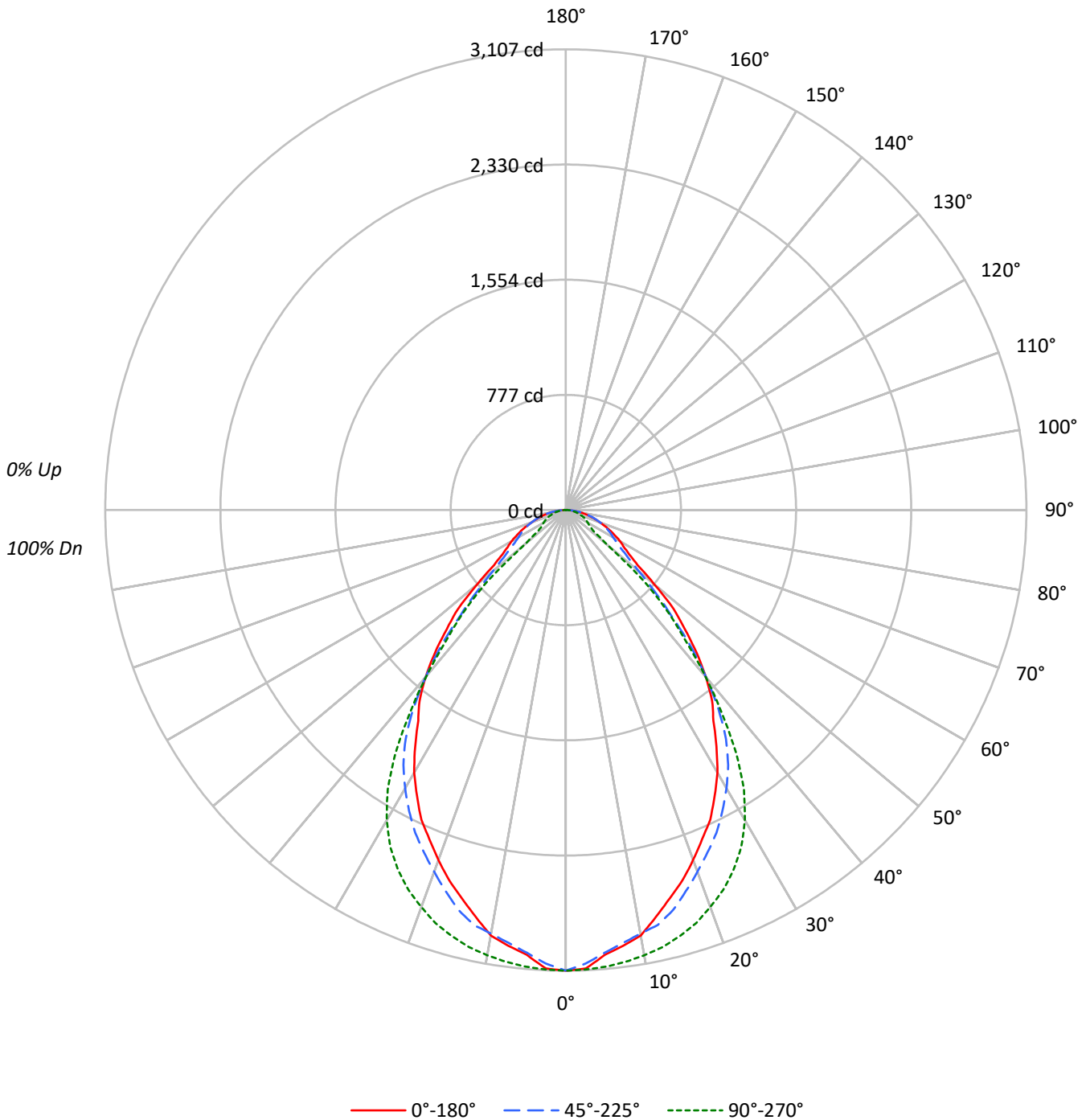
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5042.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 50.7
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	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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22104	22104	22104
5°	21508	21411	22080
10°	21051	20958	22028
15°	19964	20578	21905
20°	19018	19660	21570
25°	18091	18864	21020
30°	16808	17808	19847
35°	15071	16364	17407
40°	13654	13684	13610
45°	11416	10111	9861
50°	8624	7117	4032
55°	6485	5691	2543
60°	6028	5241	2449
65°	5608	5231	2453
70°	5130	5130	2415
75°	4866	4998	2334
80°	4495	4724	2397
85°	3919	4114	2612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11682 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.0	5.7
10°-20°	790.7	15.7
20°-30°	1121.3	22.2
30°-40°	1155.1	22.9
40°-50°	806.8	16.0
50°-60°	387.1	7.7
60°-70°	271.6	5.4
70°-80°	169.8	3.4
80°-90°	52.5	1.0
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°	2198.9	43.6
0°-40°	3354.1	66.5
0°-60°	4548.0	90.2
0°-90°	5042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3107	3107	3107	3107	3107	
5°	3011	3007	2998	3076	3092	285
15°	2710	2730	2794	2874	2974	763
25°	2304	2328	2403	2565	2678	1054
35°	1735	1782	1884	1923	2004	1093
45°	1135	1161	1005	954	980	874
55°	523	497	459	294	205	490
65°	333	312	311	236	146	330
75°	177	174	182	157	85	186
85°	48	48	50	50	32	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3106.7	3106.7	3106.7	3106.7	3106.7
2.5°	3094.7	3085.0	3061.8	3104.3	3101.1
5°	3011.4	3007.4	2997.8	3076.2	3091.5
7.5°	2964.1	2956.1	2944.9	3031.4	3073.8
10°	2913.7	2923.3	2900.9	2980.2	3049.0
12.5°	2809.6	2835.2	2865.7	2927.3	3018.6
15°	2710.3	2730.3	2793.6	2873.7	2973.8
17.5°	2617.4	2640.7	2695.1	2815.2	2921.7
20°	2511.8	2543.8	2596.6	2750.4	2848.8
22.5°	2402.9	2432.5	2498.9	2663.9	2773.6
25°	2304.4	2327.6	2402.9	2565.4	2677.5
27.5°	2173.9	2217.1	2288.4	2445.3	2563.0
30°	2045.8	2082.6	2167.5	2299.6	2415.7
32.5°	1891.2	1944.9	2038.5	2139.4	2236.3
35°	1735.1	1782.3	1884.0	1923.3	2004.1
37.5°	1621.4	1634.2	1691.9	1687.0	1732.7
40°	1470.1	1495.7	1473.3	1413.2	1465.3
42.5°	1306.7	1337.1	1246.7	1177.0	1195.4
45°	1134.6	1161.0	1004.9	953.6	980.0
47.5°	985.6	983.2	810.3	775.9	739.0
50°	779.1	804.7	643.0	578.9	364.3
52.5°	608.5	618.1	530.1	369.9	239.4
55°	522.8	497.2	458.8	293.9	205.0
57.5°	464.4	432.4	406.7	273.0	187.4
60°	423.6	387.5	368.3	259.4	172.1
62.5°	377.1	349.1	341.9	247.4	158.5
65°	333.1	311.5	310.7	236.2	145.7
67.5°	289.0	277.0	280.2	222.6	131.3
70°	246.6	244.2	246.6	205.0	116.1
72.5°	210.6	208.2	214.6	182.6	99.3
75°	177.0	174.5	181.8	156.9	84.9
77.5°	140.9	142.5	147.3	130.5	71.3
80°	109.7	109.7	115.3	102.5	58.5
82.5°	78.5	79.3	82.5	75.3	45.6
85°	48.0	48.0	50.4	49.6	32.0
87.5°	16.0	18.4	21.6	23.2	16.0
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	16.40	17.76	16.77	18.07	18.38	12.73	14.09	13.10	14.40	14.72
	3H	18.14	19.35	18.52	19.68	20.04	14.71	15.92	15.09	16.25	16.61
	4H	18.81	19.94	19.21	20.29	20.67	15.42	16.54	15.82	16.89	17.28
	6H	19.32	20.36	19.73	20.73	21.12	15.94	16.98	16.35	17.35	17.74
	8H	19.49	20.48	19.92	20.87	21.27	16.12	17.11	16.55	17.50	17.90
	12H	19.60	20.54	20.03	20.93	21.36	16.26	17.21	16.69	17.59	18.02
4H	2H	16.93	18.06	17.34	18.41	18.79	14.36	15.48	14.76	15.83	16.22
	3H	18.91	19.84	19.32	20.24	20.65	16.54	17.47	16.95	17.87	18.27
	4H	19.71	20.55	20.15	20.97	21.41	17.41	18.25	17.85	18.67	19.11
	6H	20.36	21.08	20.82	21.52	21.99	18.06	18.78	18.52	19.23	19.69
	8H	20.58	21.25	21.04	21.70	22.17	18.27	18.94	18.73	19.39	19.86
	12H	20.73	21.33	21.21	21.81	22.28	18.42	19.02	18.91	19.51	19.98
8H	4H	20.00	20.67	20.46	21.12	21.59	18.06	18.74	18.53	19.19	19.66
	6H	20.78	21.34	21.28	21.83	22.31	18.93	19.48	19.43	19.98	20.46
	8H	21.08	21.58	21.60	22.09	22.59	19.25	19.75	19.77	20.27	20.76
	12H	21.32	21.76	21.83	22.25	22.82	19.52	19.96	20.03	20.45	21.02
12H	4H	20.01	20.61	20.50	21.10	21.57	18.14	18.74	18.62	19.22	19.69
	6H	20.83	21.33	21.35	21.85	22.34	19.06	19.56	19.58	20.08	20.57
	8H	21.20	21.64	21.71	22.13	22.70	19.48	19.92	19.99	20.41	20.98