

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: P894243

Luminaire Tested: 4MB-SC3-LVRA-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894243
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-CC83-HI-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

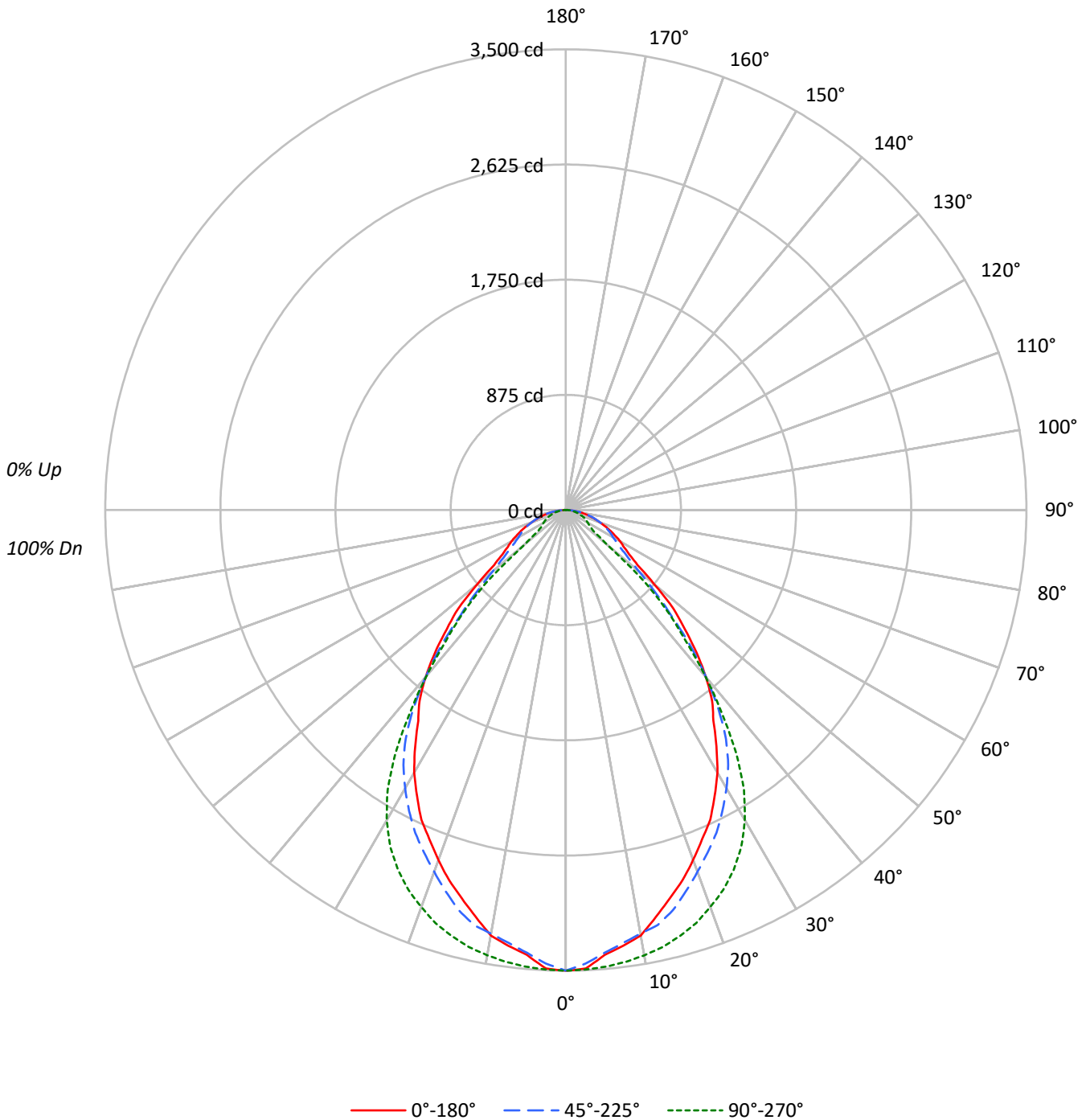
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5680.0 lumens
Efficiency: N/A
Efficacy: 112.0 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°	24901	24901	24901
5°	24229	24120	24873
10°	23715	23611	24816
15°	22491	23181	24676
20°	21425	22149	24300
25°	20380	21251	23680
30°	18934	20060	22357
35°	16977	18435	19610
40°	15382	15415	15332
45°	12860	11390	11110
50°	9714	8017	4543
55°	7306	6411	2864
60°	6791	5904	2759
65°	6317	5892	2764
70°	5779	5779	2721
75°	5479	5630	2628
80°	5064	5322	2696
85°	4416	4637	2947

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13160 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.3	5.7
10°-20°	890.8	15.7
20°-30°	1263.1	22.2
30°-40°	1301.3	22.9
40°-50°	908.9	16.0
50°-60°	436.1	7.7
60°-70°	306.0	5.4
70°-80°	191.3	3.4
80°-90°	59.2	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°	2477.2	43.6
0°-40°	3778.5	66.5
0°-60°	5123.5	90.2
0°-90°	5680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3500	3500	3500	3500	3500	
5°	3392	3388	3377	3466	3483	321
15°	3053	3076	3147	3237	3350	860
25°	2596	2622	2707	2890	3016	1187
35°	1955	2008	2122	2167	2258	1232
45°	1278	1308	1132	1074	1104	985
55°	589	560	517	331	231	552
65°	375	351	350	266	164	372
75°	199	197	205	177	96	210
85°	54	54	57	56	36	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3499.8	3499.8	3499.8	3499.8	3499.8
2.5°	3486.2	3475.4	3449.3	3497.1	3493.5
5°	3392.4	3387.9	3377.1	3465.5	3482.6
7.5°	3339.2	3330.2	3317.6	3415.0	3462.8
10°	3282.4	3293.2	3268.0	3357.3	3434.8
12.5°	3165.1	3194.0	3228.3	3297.7	3400.6
15°	3053.3	3075.8	3147.1	3237.3	3350.0
17.5°	2948.7	2974.8	3036.1	3171.4	3291.4
20°	2829.6	2865.7	2925.2	3098.4	3209.3
22.5°	2706.9	2740.3	2815.2	3001.0	3124.5
25°	2596.0	2622.1	2706.9	2890.0	3016.3
27.5°	2448.9	2497.6	2577.9	2754.7	2887.3
30°	2304.6	2346.1	2441.7	2590.6	2721.3
32.5°	2130.5	2191.0	2296.5	2410.2	2519.3
35°	1954.6	2007.9	2122.4	2166.6	2257.7
37.5°	1826.6	1841.0	1905.9	1900.5	1951.9
40°	1656.1	1684.9	1659.7	1592.0	1650.7
42.5°	1472.1	1506.3	1404.4	1325.9	1346.7
45°	1278.1	1307.9	1132.0	1074.3	1104.1
47.5°	1110.4	1107.7	912.8	874.0	832.5
50°	877.6	906.5	724.3	652.1	410.4
52.5°	685.5	696.3	597.1	416.7	269.7
55°	589.0	560.1	516.8	331.0	230.9
57.5°	523.2	487.1	458.2	307.6	211.1
60°	477.2	436.6	414.9	292.2	193.9
62.5°	424.8	393.3	385.2	278.7	178.6
65°	375.2	350.9	350.0	266.1	164.2
67.5°	325.6	312.1	315.7	250.8	147.9
70°	277.8	275.1	277.8	230.9	130.8
72.5°	237.2	234.5	241.7	205.7	111.8
75°	199.3	196.6	204.8	176.8	95.6
77.5°	158.8	160.6	166.0	147.0	80.3
80°	123.6	123.6	129.9	115.5	65.8
82.5°	88.4	89.3	92.9	84.8	51.4
85°	54.1	54.1	56.8	55.9	36.1
87.5°	18.0	20.7	24.4	26.2	18.0
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	16.82	18.17	17.18	18.48	18.80	13.15	14.50	13.51	14.82	15.13
	3H	18.56	19.76	18.93	20.09	20.46	15.13	16.33	15.50	16.66	17.03
	4H	19.23	20.35	19.63	20.70	21.09	15.83	16.96	16.23	17.31	17.69
	6H	19.73	20.77	20.15	21.14	21.53	16.35	17.39	16.77	17.76	18.15
	8H	19.90	20.89	20.33	21.28	21.68	16.54	17.52	16.97	17.91	18.32
	12H	20.01	20.96	20.45	21.34	21.77	16.68	17.62	17.11	18.00	18.43
4H	2H	17.35	18.47	17.75	18.82	19.21	14.77	15.90	15.17	16.25	16.63
	3H	19.32	20.25	19.74	20.66	21.06	16.95	17.88	17.36	18.28	18.69
	4H	20.13	20.96	20.56	21.38	21.82	17.83	18.66	18.26	19.08	19.52
	6H	20.77	21.49	21.23	21.94	22.40	18.47	19.20	18.93	19.64	20.11
	8H	20.99	21.67	21.46	22.11	22.58	18.68	19.36	19.15	19.80	20.27
	12H	21.14	21.74	21.63	22.23	22.70	18.84	19.44	19.32	19.92	20.39
8H	4H	20.41	21.09	20.88	21.53	22.00	18.48	19.15	18.95	19.60	20.07
	6H	21.19	21.75	21.69	22.24	22.72	19.34	19.89	19.84	20.39	20.87
	8H	21.50	21.99	22.02	22.51	23.00	19.67	20.17	20.19	20.68	21.17
	12H	21.73	22.17	22.24	22.67	23.23	19.93	20.37	20.44	20.86	21.43
12H	4H	20.43	21.03	20.91	21.51	21.98	18.55	19.15	19.04	19.63	20.11
	6H	21.25	21.75	21.77	22.26	22.75	19.48	19.98	20.00	20.49	20.98
	8H	21.61	22.05	22.12	22.55	23.11	19.89	20.33	20.40	20.82	21.39