

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: P894260

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894260
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-MID-5000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT, MI lumen setting
Light Source: -
Ballast/Driver: -

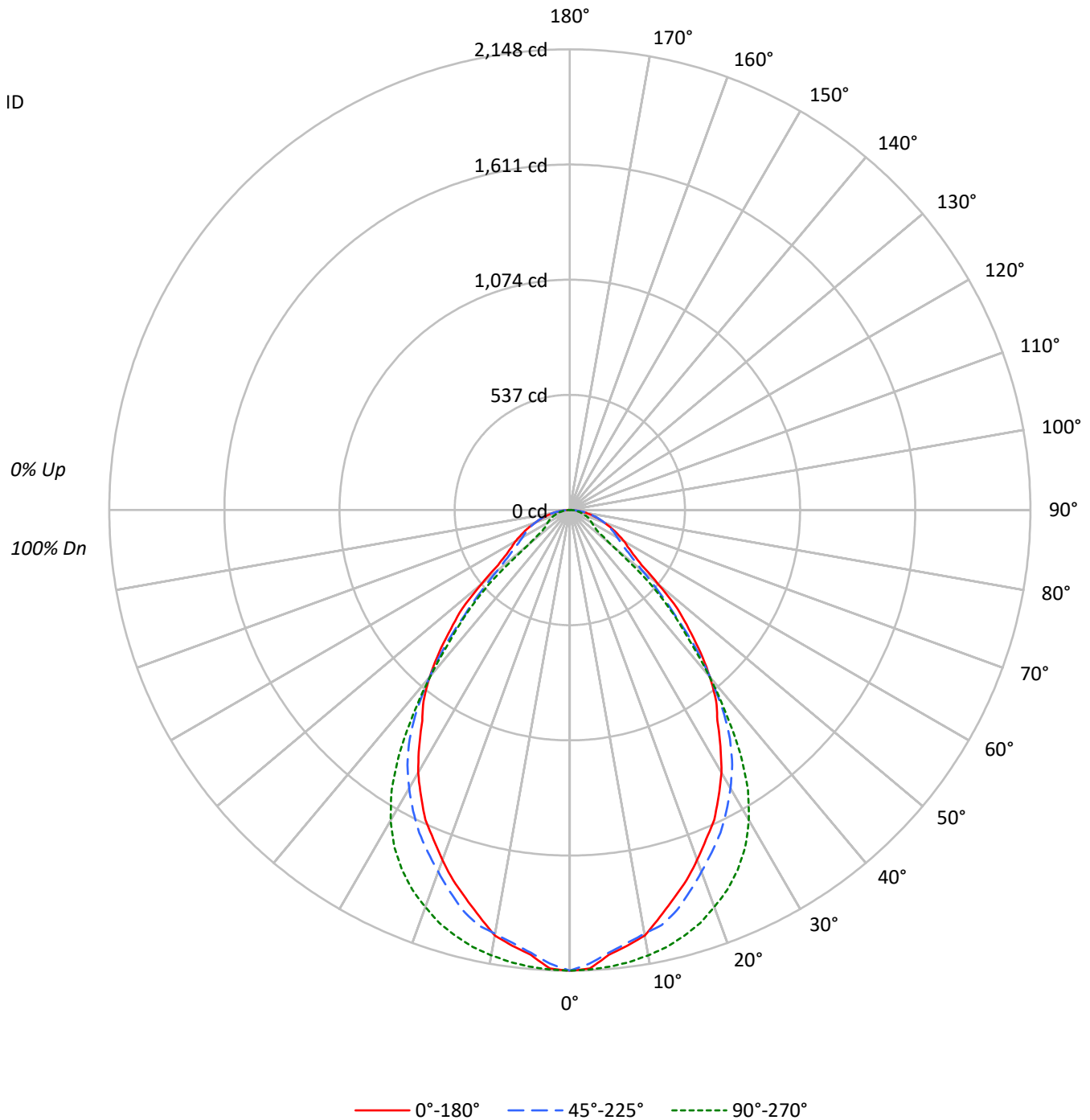
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3486.0 lumens
Efficiency: N/A
Efficacy: 104.1 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): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62		
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55		
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45		
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15282	15282	15282
5°	14870	14803	15266
10°	14554	14491	15231
15°	13803	14227	15144
20°	13149	13593	14914
25°	12507	13042	14533
30°	11620	12312	13722
35°	10419	11314	12035
40°	9440	9461	9410
45°	7893	6991	6818
50°	5962	4920	2788
55°	4484	3935	1758
60°	4167	3624	1693
65°	3877	3616	1697
70°	3547	3547	1670
75°	3362	3456	1614
80°	3106	3266	1655
85°	2710	2849	1804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8077 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	5.7
10°-20°	546.7	15.7
20°-30°	775.2	22.2
30°-40°	798.7	22.9
40°-50°	557.8	16.0
50°-60°	267.7	7.7
60°-70°	187.8	5.4
70°-80°	117.4	3.4
80°-90°	36.3	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°	1520.3	43.6
0°-40°	2319.0	66.5
0°-60°	3144.5	90.2
0°-90°	3486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2148	2148	2148	2148	2148	
5°	2082	2079	2073	2127	2137	197
15°	1874	1888	1932	1987	2056	528
25°	1593	1609	1661	1774	1851	728
35°	1200	1232	1303	1330	1386	756
45°	784	803	695	659	678	604
55°	362	344	317	203	142	339
65°	230	215	215	163	101	228
75°	122	121	126	108	59	129
85°	33	33	35	34	22	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.9	2147.9	2147.9	2147.9	2147.9
2.5°	2139.6	2133.0	2116.9	2146.3	2144.0
5°	2082.0	2079.3	2072.6	2126.9	2137.4
7.5°	2049.4	2043.9	2036.1	2095.9	2125.2
10°	2014.5	2021.2	2005.7	2060.5	2108.1
12.5°	1942.5	1960.3	1981.3	2023.9	2087.0
15°	1873.9	1887.7	1931.5	1986.8	2056.0
17.5°	1809.7	1825.7	1863.4	1946.4	2020.0
20°	1736.6	1758.8	1795.3	1901.6	1969.7
22.5°	1661.3	1681.8	1727.8	1841.8	1917.6
25°	1593.2	1609.3	1661.3	1773.7	1851.2
27.5°	1503.0	1532.9	1582.2	1690.7	1772.0
30°	1414.4	1439.9	1498.6	1589.9	1670.2
32.5°	1307.6	1344.7	1409.4	1479.2	1546.2
35°	1199.6	1232.3	1302.6	1329.7	1385.6
37.5°	1121.0	1129.9	1169.7	1166.4	1198.0
40°	1016.4	1034.1	1018.6	977.1	1013.1
42.5°	903.5	924.5	861.9	813.8	826.5
45°	784.4	802.7	694.8	659.3	677.6
47.5°	681.5	679.8	560.2	536.4	511.0
50°	538.6	556.4	444.5	400.2	251.9
52.5°	420.7	427.4	366.5	255.8	165.5
55°	361.5	343.8	317.2	203.2	141.7
57.5°	321.1	298.9	281.2	188.8	129.5
60°	292.8	267.9	254.7	179.4	119.0
62.5°	260.7	241.4	236.4	171.1	109.6
65°	230.3	215.3	214.8	163.3	100.8
67.5°	199.8	191.5	193.8	153.9	90.8
70°	170.5	168.8	170.5	141.7	80.3
72.5°	145.6	143.9	148.4	126.2	68.6
75°	122.3	120.7	125.7	108.5	58.7
77.5°	97.4	98.5	101.9	90.2	49.3
80°	75.8	75.8	79.7	70.9	40.4
82.5°	54.3	54.8	57.0	52.0	31.6
85°	33.2	33.2	34.9	34.3	22.1
87.5°	11.1	12.7	14.9	16.1	11.1
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	15.12	16.47	15.48	16.79	17.10	11.45	12.81	11.82	13.12	13.43
	3H	16.86	18.06	17.24	18.39	18.76	13.43	14.64	13.81	14.97	15.33
	4H	17.53	18.66	17.93	19.01	19.39	14.13	15.26	14.54	15.61	15.99
	6H	18.04	19.07	18.45	19.44	19.84	14.66	15.69	15.07	16.06	16.46
	8H	18.21	19.19	18.64	19.58	19.99	14.84	15.83	15.27	16.22	16.62
	12H	18.32	19.26	18.75	19.64	20.07	14.98	15.92	15.41	16.31	16.74
4H	2H	15.65	16.78	16.05	17.13	17.51	13.08	14.20	13.48	14.55	14.94
	3H	17.63	18.56	18.04	18.96	19.36	15.25	16.18	15.67	16.59	16.99
	4H	18.43	19.26	18.86	19.68	20.13	16.13	16.97	16.57	17.39	17.83
	6H	19.07	19.80	19.53	20.24	20.71	16.78	17.50	17.24	17.95	18.41
	8H	19.29	19.97	19.76	20.42	20.89	16.98	17.66	17.45	18.11	18.58
	12H	19.45	20.05	19.93	20.53	21.00	17.14	17.74	17.63	18.22	18.70
8H	4H	18.71	19.39	19.18	19.84	20.31	16.78	17.46	17.25	17.90	18.37
	6H	19.50	20.05	20.00	20.55	21.03	17.64	18.20	18.14	18.69	19.17
	8H	19.80	20.30	20.32	20.81	21.30	17.97	18.47	18.49	18.98	19.47
	12H	20.03	20.47	20.55	20.97	21.54	18.23	18.67	18.75	19.17	19.74
12H	4H	18.73	19.33	19.22	19.81	20.29	16.85	17.45	17.34	17.94	18.41
	6H	19.55	20.05	20.07	20.56	21.05	17.78	18.28	18.30	18.79	19.28
	8H	19.91	20.35	20.43	20.85	21.42	18.19	18.63	18.71	19.13	19.70