

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: P894261

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVRF-UNV-CC83-HI-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

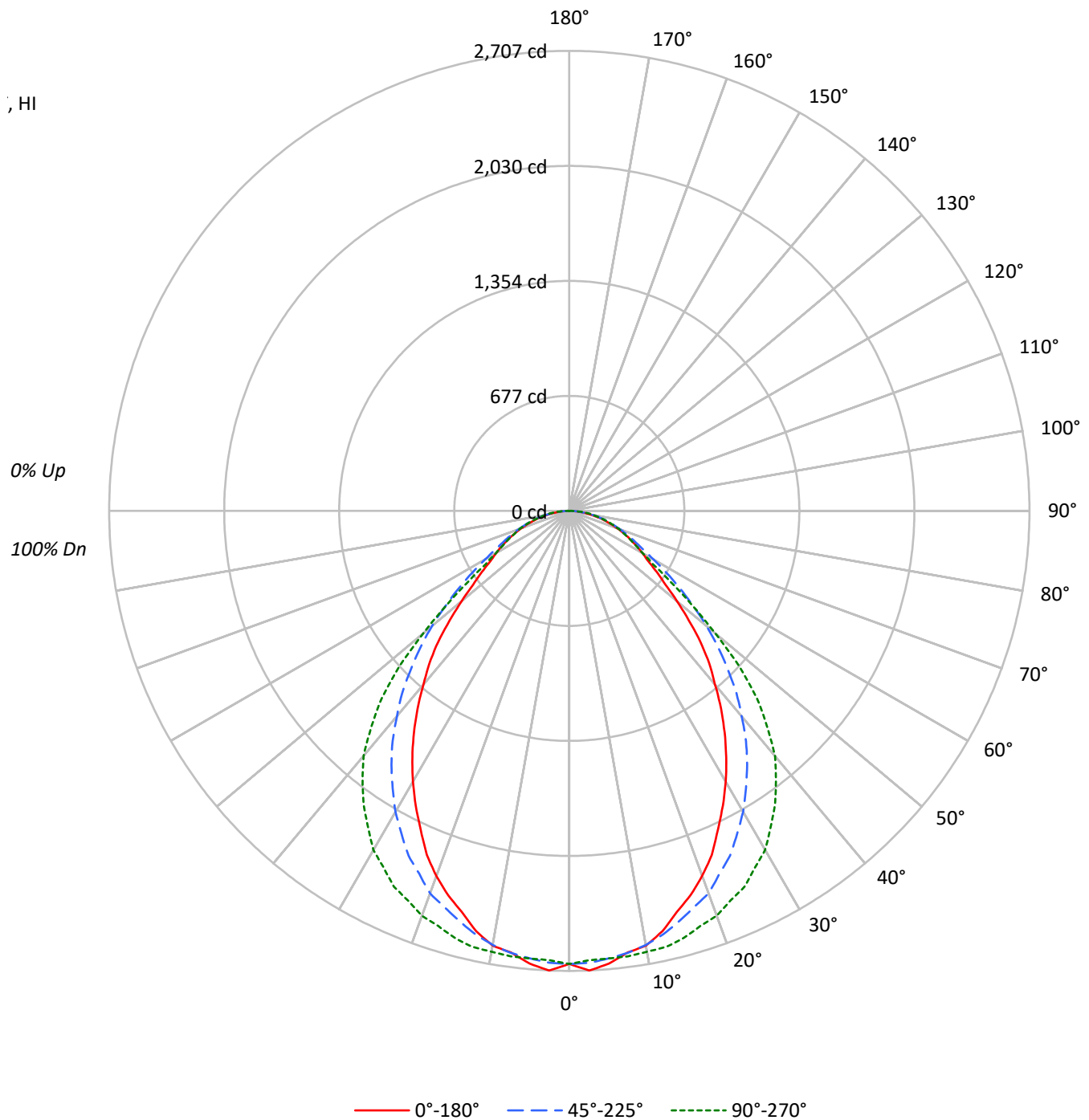
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5540.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18966	18966	18966
5°	19097	18880	18880
10°	18768	18737	19028
15°	17991	18410	19165
20°	17307	18136	19196
25°	16236	17575	19152
30°	15112	16798	18927
35°	13834	15845	18324
40°	12386	14652	17484
45°	10991	13264	15719
50°	9145	11677	12397
55°	7789	9836	9011
60°	7061	8127	7121
65°	6652	7118	6628
70°	6257	6603	6459
75°	5831	6287	6174
80°	5339	5794	5962
85°	4637	5094	6678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15719 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	4.6
10°-20°	710.1	12.8
20°-30°	1031.3	18.6
30°-40°	1148.4	20.7
40°-50°	1014.6	18.3
50°-60°	665.7	12.0
60°-70°	407.7	7.4
70°-80°	237.2	4.3
80°-90°	72.7	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°	1993.8	36.0
0°-40°	3142.2	56.7
0°-60°	4822.5	87.0
0°-90°	5540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2674	2675	2643	2670	2643	252
15°	2442	2470	2499	2598	2602	689
25°	2068	2118	2239	2381	2440	952
35°	1593	1679	1824	2017	2110	993
45°	1092	1159	1318	1496	1562	836
55°	628	672	793	786	726	570
65°	395	402	423	410	394	393
75°	212	215	229	233	225	225
85°	57	60	62	71	82	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2665.6	2665.6	2665.6	2665.6	2665.6
2.5°	2707.2	2673.9	2661.4	2673.9	2646.2
5°	2673.9	2675.3	2643.4	2669.8	2643.4
7.5°	2621.2	2639.3	2624.0	2664.2	2643.4
10°	2597.7	2599.1	2593.5	2635.1	2633.7
12.5°	2532.5	2536.7	2551.9	2614.3	2628.2
15°	2442.4	2470.1	2499.3	2597.7	2601.8
17.5°	2371.7	2405.0	2443.8	2549.2	2561.6
20°	2285.8	2299.6	2395.3	2488.2	2535.3
22.5°	2190.1	2216.5	2309.3	2434.1	2481.2
25°	2068.2	2118.1	2238.7	2381.4	2439.6
27.5°	1955.9	2014.1	2138.9	2298.3	2366.2
30°	1839.4	1906.0	2044.6	2201.2	2303.8
32.5°	1718.8	1802.0	1933.7	2113.9	2204.0
35°	1592.7	1678.6	1824.2	2016.9	2109.7
37.5°	1466.6	1549.7	1707.8	1914.3	1997.5
40°	1333.5	1415.3	1577.5	1786.8	1882.4
42.5°	1218.4	1289.1	1455.5	1634.3	1723.0
45°	1092.3	1158.8	1318.2	1495.7	1562.2
47.5°	953.7	1031.3	1186.6	1332.1	1358.4
50°	826.2	906.6	1054.9	1139.4	1120.0
52.5°	713.9	781.8	917.6	953.7	907.9
55°	627.9	672.3	792.9	786.0	726.4
57.5°	548.9	576.6	679.2	640.4	583.6
60°	496.2	508.7	571.1	535.1	500.4
62.5°	446.3	451.9	485.2	465.8	439.4
65°	395.1	402.0	422.8	410.3	393.7
67.5°	347.9	350.7	370.1	367.3	346.5
70°	300.8	305.0	317.4	323.0	310.5
72.5°	255.1	259.2	271.7	277.2	266.1
75°	212.1	214.9	228.7	232.9	224.6
77.5°	170.5	176.0	184.4	191.3	181.6
80°	130.3	133.1	141.4	149.7	145.5
82.5°	91.5	95.6	101.2	112.3	115.1
85°	56.8	59.6	62.4	70.7	81.8
87.5°	22.2	23.6	27.7	30.5	40.2
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	17.75	19.23	18.12	19.55	19.86	18.41	19.89	18.77	20.20	20.51
	3H	19.35	20.68	19.73	21.01	21.37	19.84	21.17	20.22	21.49	21.86
	4H	19.97	21.21	20.37	21.56	21.94	20.45	21.69	20.85	22.04	22.42
	6H	20.44	21.59	20.85	21.96	22.35	20.93	22.08	21.35	22.45	22.84
	8H	20.59	21.69	21.02	22.07	22.48	21.13	22.22	21.56	22.61	23.01
	12H	20.69	21.74	21.12	22.12	22.55	21.30	22.34	21.73	22.72	23.15
4H	2H	18.38	19.62	18.78	19.97	20.35	18.90	20.14	19.30	20.49	20.87
	3H	20.20	21.22	20.61	21.62	22.03	20.60	21.62	21.01	22.03	22.43
	4H	20.93	21.86	21.37	22.28	22.72	21.35	22.28	21.78	22.69	23.13
	6H	21.53	22.34	21.99	22.78	23.24	21.99	22.79	22.44	23.23	23.69
	8H	21.73	22.48	22.19	22.93	23.39	22.24	22.99	22.70	23.44	23.91
	12H	21.87	22.54	22.35	23.02	23.49	22.46	23.14	22.95	23.62	24.09
8H	4H	21.25	22.01	21.72	22.45	22.92	21.62	22.37	22.08	22.82	23.28
	6H	21.98	22.60	22.47	23.09	23.57	22.39	23.02	22.89	23.51	23.99
	8H	22.25	22.81	22.76	23.32	23.81	22.74	23.30	23.25	23.81	24.30
	12H	22.47	22.96	22.98	23.46	24.02	23.06	23.55	23.57	24.05	24.61
12H	4H	21.29	21.96	21.77	22.44	22.91	21.64	22.31	22.12	22.79	23.26
	6H	22.04	22.60	22.56	23.11	23.60	22.44	23.00	22.96	23.51	24.00
	8H	22.37	22.87	22.88	23.36	23.93	22.85	23.34	23.36	23.84	24.40