

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: P894264

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894264
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-LOW-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K CCT
lumen setting
Light Source: -
Ballast/Driver: -

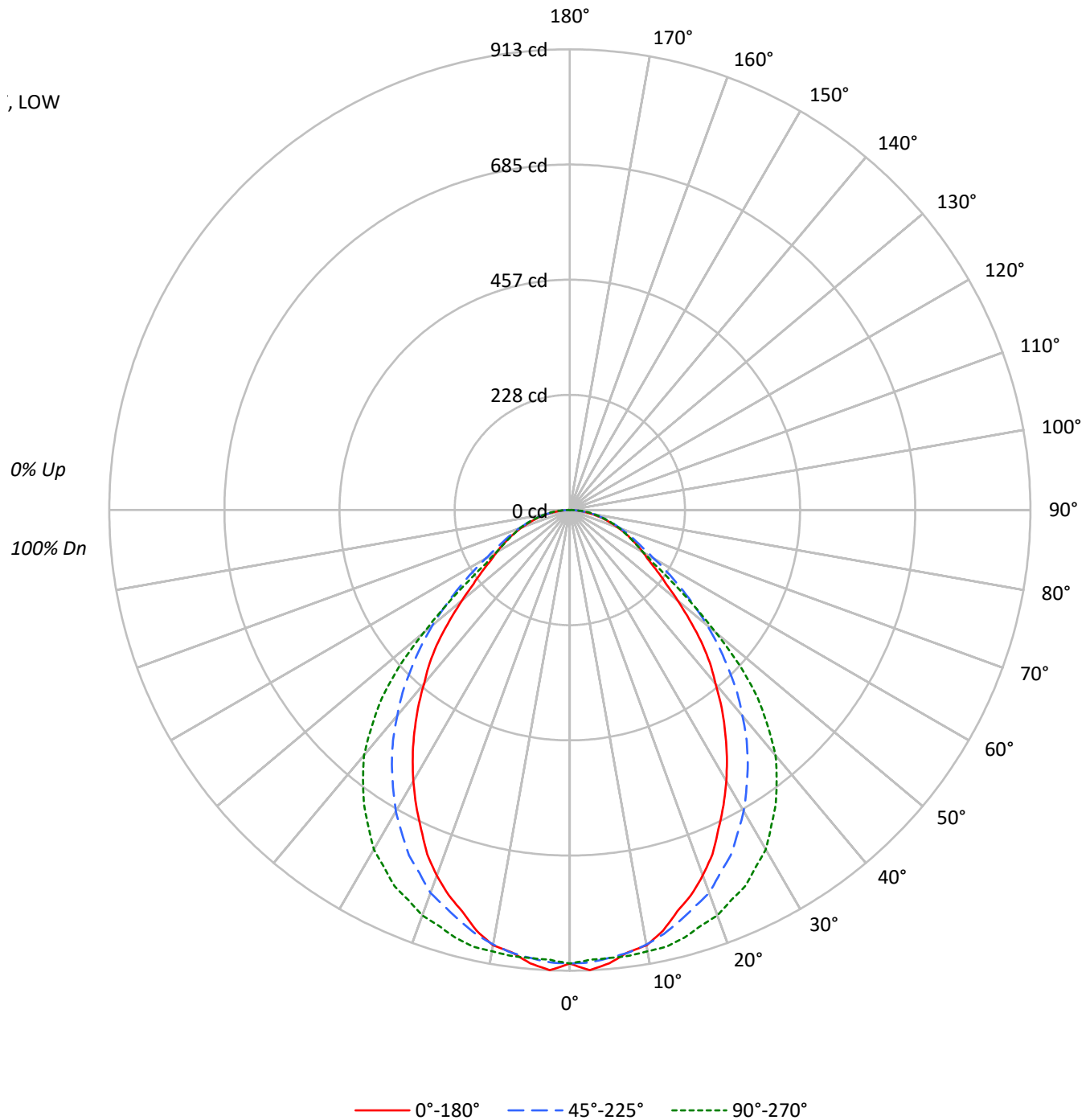
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1868.0 lumens
Efficiency: N/A
Efficacy: 111.9 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): 16.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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°	6395	6395	6395
5°	6439	6366	6366
10°	6328	6318	6416
15°	6066	6207	6462
20°	5835	6116	6473
25°	5474	5926	6458
30°	5095	5664	6382
35°	4664	5343	6179
40°	4176	4940	5895
45°	3706	4473	5301
50°	3084	3937	4181
55°	2626	3316	3038
60°	2381	2741	2401
65°	2242	2401	2234
70°	2109	2226	2178
75°	1966	2119	2081
80°	1799	1954	2012
85°	1567	1714	2253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5301 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	4.6
10°-20°	239.4	12.8
20°-30°	347.7	18.6
30°-40°	387.2	20.7
40°-50°	342.1	18.3
50°-60°	224.5	12.0
60°-70°	137.5	7.4
70°-80°	80.0	4.3
80°-90°	24.5	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°	672.3	36.0
0°-40°	1059.5	56.7
0°-60°	1626.1	87.0
0°-90°	1868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	902	902	891	900	891	85
15°	824	833	843	876	877	232
25°	697	714	755	803	823	321
35°	537	566	615	680	711	335
45°	368	391	444	504	527	282
55°	212	227	267	265	245	192
65°	133	136	143	138	133	132
75°	72	72	77	78	76	76
85°	19	20	21	24	28	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.8	898.8	898.8	898.8	898.8
2.5°	912.8	901.6	897.4	901.6	892.3
5°	901.6	902.1	891.3	900.2	891.3
7.5°	883.8	889.9	884.8	898.3	891.3
10°	875.9	876.4	874.5	888.5	888.0
12.5°	853.9	855.3	860.5	881.5	886.2
15°	823.5	832.9	842.7	875.9	877.3
17.5°	799.7	810.9	824.0	859.5	863.7
20°	770.7	775.4	807.7	839.0	854.9
22.5°	738.5	747.4	778.7	820.7	836.6
25°	697.3	714.2	754.8	803.0	822.6
27.5°	659.5	679.1	721.2	774.9	797.8
30°	620.2	642.7	689.4	742.2	776.8
32.5°	579.6	607.6	652.0	712.8	743.2
35°	537.0	566.0	615.1	680.1	711.4
37.5°	494.5	522.5	575.8	645.5	673.5
40°	449.6	477.2	531.9	602.5	634.7
42.5°	410.8	434.7	490.8	551.1	581.0
45°	368.3	390.7	444.5	504.3	526.8
47.5°	321.6	347.7	400.1	449.2	458.0
50°	278.6	305.7	355.7	384.2	377.7
52.5°	240.7	263.6	309.4	321.6	306.1
55°	211.7	226.7	267.3	265.0	244.9
57.5°	185.1	194.4	229.0	215.9	196.8
60°	167.3	171.5	192.6	180.4	168.7
62.5°	150.5	152.4	163.6	157.0	148.2
65°	133.2	135.5	142.6	138.3	132.7
67.5°	117.3	118.3	124.8	123.9	116.8
70°	101.4	102.8	107.0	108.9	104.7
72.5°	86.0	87.4	91.6	93.5	89.7
75°	71.5	72.4	77.1	78.5	75.7
77.5°	57.5	59.4	62.2	64.5	61.2
80°	43.9	44.9	47.7	50.5	49.1
82.5°	30.8	32.3	34.1	37.9	38.8
85°	19.2	20.1	21.0	23.8	27.6
87.5°	7.5	7.9	9.3	10.3	13.6
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	13.98	15.46	14.34	15.77	16.08	14.63	16.11	14.99	16.42	16.74
	3H	15.58	16.90	15.95	17.23	17.59	16.06	17.39	16.44	17.72	18.08
	4H	16.19	17.44	16.59	17.78	18.16	16.67	17.91	17.07	18.26	18.64
	6H	16.66	17.81	17.08	18.18	18.57	17.16	18.30	17.57	18.67	19.06
	8H	16.82	17.91	17.24	18.30	18.70	17.35	18.44	17.78	18.83	19.24
	12H	16.92	17.96	17.35	18.34	18.77	17.52	18.56	17.95	18.95	19.38
4H	2H	14.60	15.84	15.00	16.19	16.57	15.12	16.36	15.52	16.71	17.09
	3H	16.42	17.45	16.83	17.85	18.25	16.82	17.85	17.23	18.25	18.65
	4H	17.16	18.08	17.59	18.50	18.94	17.57	18.50	18.01	18.91	19.35
	6H	17.75	18.56	18.21	19.00	19.46	18.21	19.01	18.67	19.46	19.92
	8H	17.95	18.70	18.42	19.15	19.62	18.46	19.22	18.93	19.66	20.13
	12H	18.09	18.77	18.58	19.24	19.72	18.69	19.36	19.17	19.84	20.31
8H	4H	17.47	18.23	17.94	18.67	19.14	17.84	18.59	18.31	19.04	19.51
	6H	18.20	18.82	18.70	19.31	19.79	18.62	19.24	19.11	19.73	20.21
	8H	18.47	19.03	18.99	19.54	20.03	18.96	19.52	19.48	20.03	20.52
	12H	18.69	19.19	19.20	19.68	20.25	19.28	19.78	19.79	20.27	20.84
12H	4H	17.51	18.18	17.99	18.66	19.13	17.86	18.53	18.34	19.01	19.48
	6H	18.26	18.83	18.78	19.34	19.82	18.66	19.22	19.18	19.73	20.22
	8H	18.60	19.09	19.11	19.59	20.15	19.07	19.57	19.58	20.06	20.62