

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: P894237

Luminaire Tested: 4MB-SC3-LVR-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-LVR-UNV-CC93-LOW-3500K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3500K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

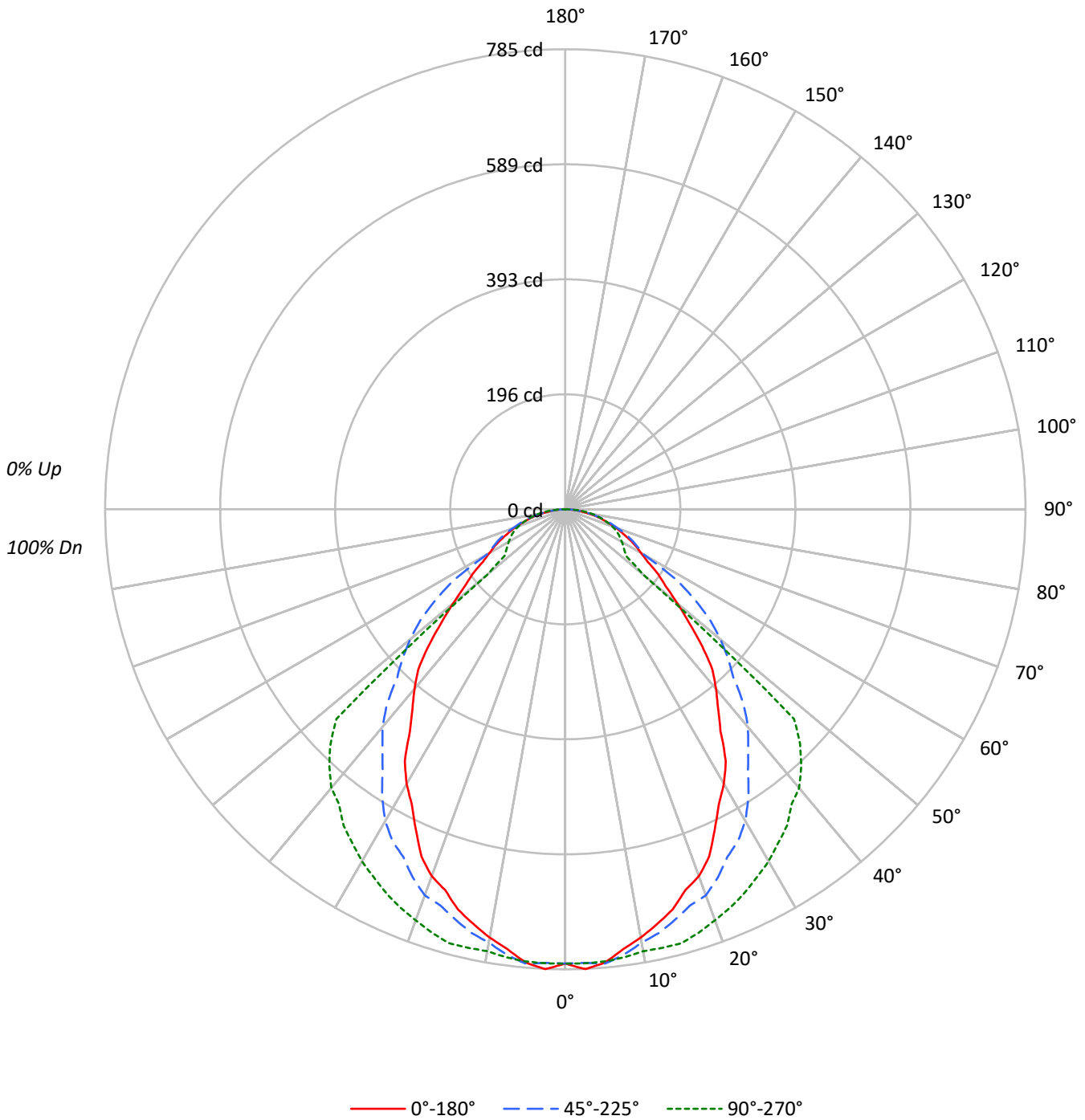
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1654.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
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	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	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	57	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	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5515	5515	5515
5°	5544	5558	5530
10°	5362	5425	5531
15°	5208	5339	5645
20°	5044	5308	5650
25°	4733	5137	5674
30°	4446	5044	5698
35°	4009	4717	5725
40°	3713	4500	5765
45°	3322	4078	5700
50°	2756	3821	1915
55°	2402	3354	1532
60°	2123	2186	1588
65°	2019	2126	1685
70°	1893	2010	1779
75°	1762	1894	1828
80°	1606	1782	1913
85°	1420	1518	2065

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5700 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	4.4
10°-20°	206.8	12.5
20°-30°	304.2	18.4
30°-40°	347.9	21.0
40°-50°	329.4	19.9
50°-60°	181.5	11.0
60°-70°	116.5	7.0
70°-80°	71.9	4.3
80°-90°	22.1	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°	584.6	35.3
0°-40°	932.5	56.4
0°-60°	1443.4	87.3
0°-90°	1654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	776	783	778	778	774	73
15°	707	716	725	763	766	198
25°	603	630	654	697	723	278
35°	462	501	543	622	659	292
45°	330	361	405	520	566	252
55°	194	203	270	139	124	173
65°	120	124	126	112	100	119
75°	64	65	69	72	66	68
85°	17	17	19	21	25	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	785.4	787.3	774.7	774.3	775.5
5°	776.3	782.6	778.2	778.2	774.3
7.5°	756.9	767.5	766.4	775.5	771.1
10°	742.2	750.9	750.9	774.7	765.6
12.5°	724.8	734.7	740.2	765.2	766.4
15°	707.0	715.7	724.8	762.8	766.4
17.5°	681.3	697.1	708.6	745.8	757.3
20°	666.2	675.7	701.0	731.1	746.2
22.5°	641.3	655.1	679.7	713.3	735.5
25°	602.9	629.8	654.3	697.1	722.8
27.5°	567.2	587.4	638.1	683.2	707.8
30°	541.1	557.0	614.0	663.0	693.5
32.5°	509.5	535.2	581.5	643.3	675.7
35°	461.6	501.1	543.1	621.9	659.1
37.5°	427.9	455.2	512.2	599.7	634.1
40°	399.8	424.7	484.5	572.0	620.7
42.5°	371.7	391.9	449.7	551.4	595.7
45°	330.1	361.4	405.3	520.1	566.5
47.5°	286.6	319.8	376.4	493.6	529.2
50°	249.0	275.5	345.2	441.0	173.0
52.5°	216.1	240.7	311.9	159.5	130.6
55°	193.6	203.1	270.4	139.3	123.5
57.5°	166.7	182.1	226.8	132.6	117.2
60°	149.2	156.0	153.6	125.9	111.6
62.5°	135.4	140.1	139.3	119.1	105.3
65°	119.9	123.9	126.3	112.4	100.1
67.5°	104.5	108.1	111.6	104.1	93.0
70°	91.0	93.4	96.6	94.2	85.5
72.5°	77.2	80.0	81.9	83.9	75.6
75°	64.1	65.3	68.9	72.4	66.5
77.5°	52.3	53.4	55.8	59.8	56.6
80°	39.2	40.4	43.5	46.7	46.7
82.5°	27.7	28.5	30.5	34.8	36.8
85°	17.4	17.4	18.6	21.4	25.3
87.5°	6.7	6.7	7.9	9.5	12.7
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	13.88	15.37	14.25	15.68	15.99	11.68	13.17	12.05	13.48	13.80
	3H	15.41	16.74	15.79	17.06	17.43	14.01	15.34	14.39	15.67	16.03
	4H	16.00	17.24	16.40	17.59	17.97	14.96	16.21	15.36	16.56	16.94
	6H	16.46	17.61	16.87	17.97	18.37	15.75	16.90	16.16	17.26	17.66
	8H	16.60	17.69	17.03	18.08	18.49	16.06	17.15	16.49	17.54	17.94
	12H	16.70	17.74	17.13	18.13	18.56	16.31	17.35	16.74	17.74	18.16
4H	2H	14.43	15.68	14.83	16.03	16.41	12.79	14.03	13.19	14.38	14.76
	3H	16.21	17.23	16.62	17.63	18.04	15.23	16.26	15.65	16.66	17.07
	4H	16.92	17.85	17.36	18.27	18.71	16.30	17.23	16.73	17.64	18.08
	6H	17.51	18.32	17.97	18.76	19.22	17.19	17.99	17.65	18.44	18.90
	8H	17.70	18.45	18.16	18.90	19.37	17.54	18.29	18.00	18.74	19.20
	12H	17.84	18.51	18.32	18.99	19.46	17.83	18.50	18.31	18.98	19.45
8H	4H	17.23	17.98	17.70	18.43	18.90	16.69	17.44	17.15	17.88	18.35
	6H	17.94	18.57	18.44	19.06	19.54	17.72	18.35	18.22	18.84	19.32
	8H	18.20	18.77	18.72	19.28	19.77	18.17	18.73	18.68	19.24	19.73
	12H	18.41	18.91	18.92	19.40	19.97	18.55	19.05	19.06	19.54	20.11
12H	4H	17.27	17.94	17.75	18.42	18.89	16.72	17.39	17.20	17.87	18.34
	6H	18.01	18.57	18.52	19.08	19.57	17.79	18.35	18.30	18.86	19.35
	8H	18.33	18.83	18.84	19.32	19.88	18.29	18.79	18.80	19.29	19.85