

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: P894229

Luminaire Tested: 4MB-SC3-LVR-UNV-CC83-LOW-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894229
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-CC83-LOW-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT, LOW lumen setting
Light Source: -
Ballast/Driver: -

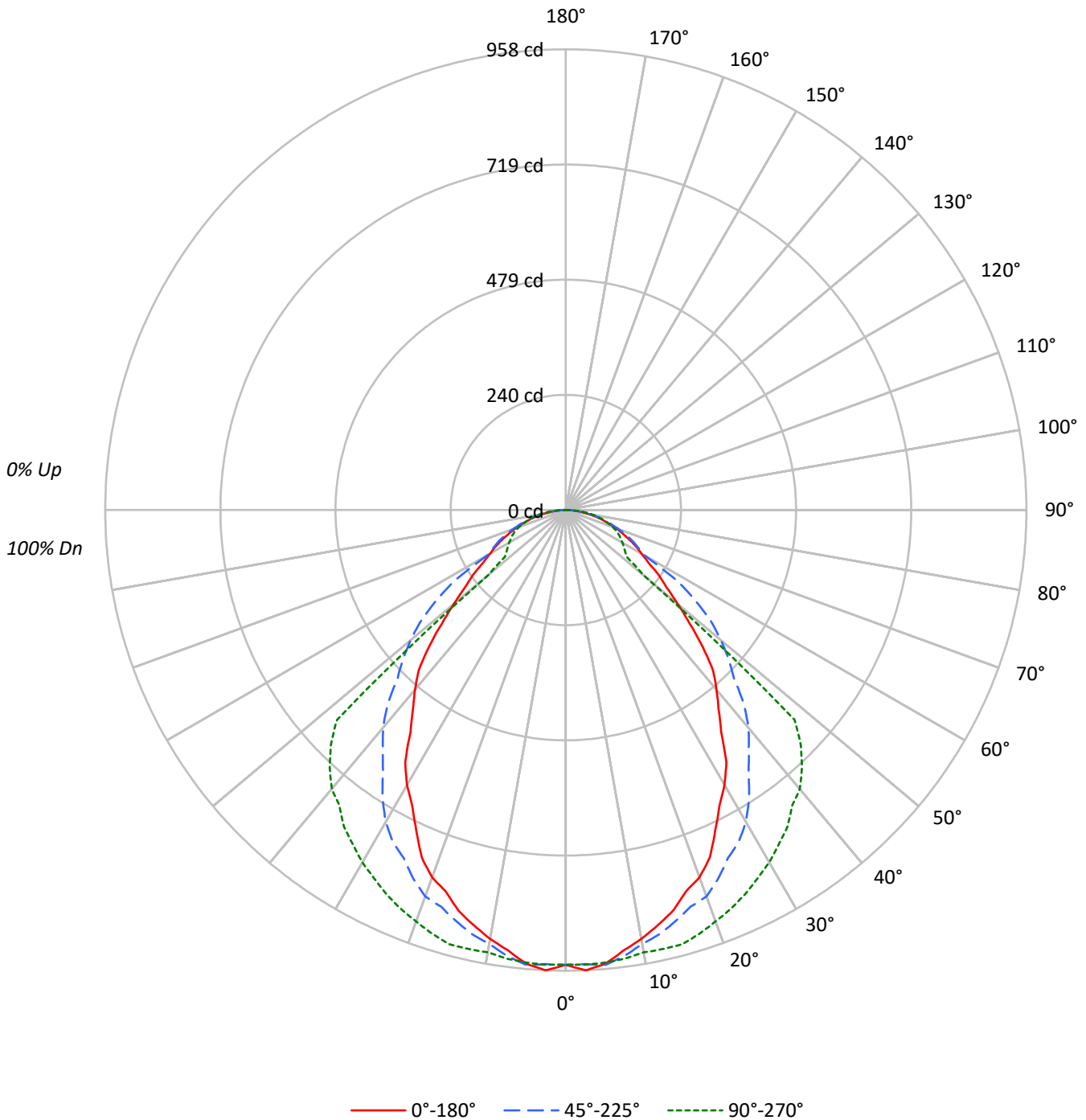
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2018.0 lumens
Efficiency: N/A
Efficacy: 120.8 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°	6728	6728	6728
5°	6764	6781	6747
10°	6543	6619	6748
15°	6354	6514	6887
20°	6154	6476	6893
25°	5774	6267	6923
30°	5424	6154	6951
35°	4891	5755	6984
40°	4531	5490	7034
45°	4053	4977	6954
50°	3363	4661	2337
55°	2930	4092	1869
60°	2591	2667	1938
65°	2463	2594	2057
70°	2311	2451	2170
75°	2150	2309	2229
80°	1959	2176	2335
85°	1739	1853	2523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6954 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	4.4
10°-20°	252.3	12.5
20°-30°	371.2	18.4
30°-40°	424.5	21.0
40°-50°	401.9	19.9
50°-60°	221.5	11.0
60°-70°	142.2	7.0
70°-80°	87.8	4.3
80°-90°	27.0	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°	713.2	35.3
0°-40°	1137.7	56.4
0°-60°	1761.1	87.3
0°-90°	2018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	947	955	950	950	945	89
15°	863	873	884	931	935	242
25°	736	768	798	850	882	339
35°	563	611	663	759	804	356
45°	403	441	495	635	691	308
55°	236	248	330	170	151	211
65°	146	151	154	137	122	145
75°	78	80	84	88	81	83
85°	21	21	23	26	31	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.6	945.6	945.6	945.6	945.6
2.5°	958.2	960.6	945.2	944.7	946.1
5°	947.1	954.8	949.5	949.5	944.7
7.5°	923.4	936.5	935.0	946.1	940.8
10°	905.6	916.2	916.2	945.2	934.0
12.5°	884.3	896.4	903.1	933.6	935.0
15°	862.6	873.2	884.3	930.7	935.0
17.5°	831.2	850.5	864.5	909.9	923.9
20°	812.8	824.4	855.3	892.0	910.4
22.5°	782.4	799.3	829.2	870.3	897.3
25°	735.5	768.4	798.3	850.5	881.9
27.5°	692.1	716.7	778.5	833.6	863.5
30°	660.2	679.5	749.1	809.0	846.1
32.5°	621.6	653.0	709.5	784.8	824.4
35°	563.1	611.4	662.6	758.7	804.1
37.5°	522.1	555.4	625.0	731.7	773.7
40°	487.8	518.2	591.1	697.9	757.3
42.5°	453.5	478.1	548.6	672.8	726.9
45°	402.8	440.9	494.6	634.6	691.1
47.5°	349.7	390.2	459.3	602.3	645.7
50°	303.8	336.1	421.1	538.0	211.1
52.5°	263.7	293.6	380.6	194.6	159.4
55°	236.2	247.8	329.9	170.0	150.7
57.5°	203.3	222.2	276.7	161.8	143.0
60°	182.1	190.3	187.4	153.6	136.2
62.5°	165.2	171.0	170.0	145.4	128.5
65°	146.3	151.2	154.1	137.2	122.2
67.5°	127.5	131.8	136.2	127.0	113.5
70°	111.1	114.0	117.8	114.9	104.3
72.5°	94.2	97.6	100.0	102.4	92.2
75°	78.2	79.7	84.0	88.4	81.1
77.5°	63.8	65.2	68.1	72.9	69.1
80°	47.8	49.3	53.1	57.0	57.0
82.5°	33.8	34.8	37.2	42.5	44.9
85°	21.3	21.3	22.7	26.1	30.9
87.5°	8.2	8.2	9.7	11.6	15.5
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	14.57	16.06	14.94	16.37	16.68	12.38	13.86	12.74	14.17	14.49
	3H	16.10	17.43	16.48	17.75	18.12	14.71	16.03	15.08	16.36	16.72
	4H	16.69	17.93	17.09	18.28	18.66	15.66	16.90	16.06	17.25	17.63
	6H	17.15	18.30	17.56	18.66	19.06	16.44	17.59	16.85	17.95	18.35
	8H	17.29	18.39	17.72	18.78	19.18	16.75	17.84	17.18	18.23	18.64
	12H	17.39	18.44	17.82	18.82	19.25	17.00	18.05	17.43	18.43	18.86
4H	2H	15.12	16.37	15.53	16.72	17.10	13.48	14.72	13.88	15.07	15.45
	3H	16.90	17.93	17.31	18.33	18.73	15.93	16.95	16.34	17.35	17.76
	4H	17.62	18.54	18.05	18.96	19.40	16.99	17.92	17.42	18.33	18.77
	6H	18.20	19.01	18.66	19.45	19.91	17.88	18.69	18.34	19.13	19.59
	8H	18.39	19.14	18.86	19.59	20.06	18.23	18.98	18.69	19.43	19.90
	12H	18.53	19.20	19.01	19.68	20.15	18.52	19.19	19.00	19.67	20.14
8H	4H	17.92	18.68	18.39	19.12	19.59	17.38	18.13	17.84	18.58	19.04
	6H	18.64	19.26	19.13	19.75	20.23	18.41	19.04	18.91	19.53	20.01
	8H	18.90	19.46	19.41	19.97	20.46	18.86	19.42	19.37	19.93	20.42
	12H	19.11	19.61	19.62	20.10	20.66	19.24	19.74	19.75	20.23	20.80
12H	4H	17.96	18.63	18.44	19.11	19.58	17.41	18.09	17.90	18.56	19.04
	6H	18.70	19.26	19.21	19.77	20.26	18.48	19.04	18.99	19.55	20.04
	8H	19.02	19.52	19.53	20.01	20.58	18.99	19.48	19.50	19.98	20.54