

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: P894283

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4MB-SC3-RFLW-UNV-CC83-LOW-4000K
Description: Selectable 4FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

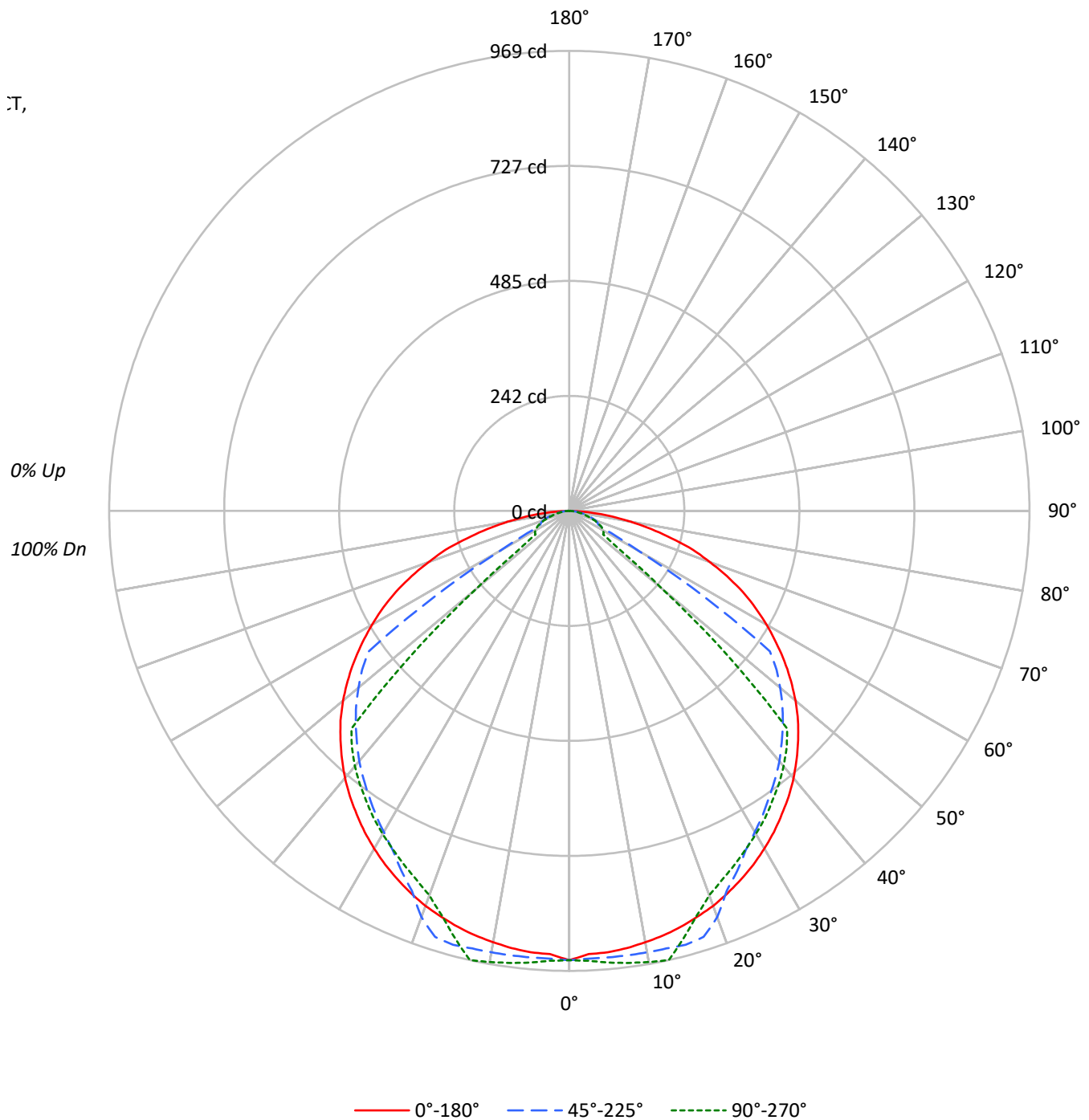
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2308.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' 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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12288	12288	12288
5°	12165	12306	12448
10°	12162	12448	12720
15°	12196	12721	12517
20°	12236	12582	11907
25°	12267	11988	11786
30°	12317	11715	11781
35°	12369	11646	11818
40°	12454	11662	11901
45°	12515	11677	11918
50°	12561	11707	5151
55°	12531	11670	1965
60°	12458	4454	2143
65°	12370	2068	2200
70°	11948	2225	2062
75°	11163	2122	1796
80°	9818	1869	1540
85°	7762	1624	1296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 12561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.9
10°-20°	262.4	11.4
20°-30°	391.5	17.0
30°-40°	474.6	20.6
40°-50°	485.9	21.1
50°-60°	323.2	14.0
60°-70°	184.2	8.0
70°-80°	77.4	3.4
80°-90°	18.5	0.8
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°	744.3	32.2
0°-40°	1218.9	52.8
0°-60°	2028.0	87.9
0°-90°	2308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	933	952	944	946	955	89
15°	907	932	946	943	931	256
25°	856	898	837	818	823	395
35°	780	794	735	738	746	489
45°	682	640	636	644	649	526
55°	554	507	516	113	87	494
65°	403	360	67	72	72	396
75°	222	47	42	37	36	236
85°	52	13	11	9	9	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.3	946.3	946.3	946.3	946.3
2.5°	934.4	953.9	944.1	945.2	948.5
5°	933.3	951.7	944.1	946.3	955.0
7.5°	928.9	948.5	944.1	950.6	960.4
10°	922.4	945.2	944.1	955.0	964.7
12.5°	915.9	938.7	944.1	960.4	969.1
15°	907.2	932.2	946.3	943.0	931.1
17.5°	896.4	925.7	940.9	894.2	893.1
20°	885.5	917.0	910.5	866.0	861.7
22.5°	871.4	908.3	866.0	835.6	841.0
25°	856.2	897.5	836.7	818.2	822.6
27.5°	839.9	886.6	805.2	798.7	804.1
30°	821.5	871.4	781.3	779.2	785.7
32.5°	802.0	842.1	758.6	759.6	767.2
35°	780.3	794.4	734.7	737.9	745.5
37.5°	758.6	749.9	711.9	717.3	724.9
40°	734.7	715.1	688.0	693.4	702.1
42.5°	708.6	678.3	662.0	669.6	677.2
45°	681.5	640.3	635.9	643.5	649.0
47.5°	653.3	607.7	608.8	614.2	460.1
50°	621.8	575.2	579.5	401.5	255.0
52.5°	588.2	541.5	550.2	223.6	129.1
55°	553.5	506.8	515.5	112.9	86.8
57.5°	516.6	472.1	336.4	81.4	85.7
60°	479.7	435.2	171.5	80.3	82.5
62.5°	441.7	398.3	81.4	77.0	78.1
65°	402.6	360.3	67.3	71.6	71.6
67.5°	359.2	320.1	64.0	64.0	62.9
70°	314.7	265.9	58.6	55.3	54.3
72.5°	273.5	102.0	51.0	45.6	44.5
75°	222.5	46.7	42.3	36.9	35.8
77.5°	176.9	39.1	33.6	29.3	28.2
80°	131.3	30.4	25.0	21.7	20.6
82.5°	91.2	20.6	17.4	14.1	14.1
85°	52.1	13.0	10.9	8.7	8.7
87.5°	20.6	6.5	5.4	3.3	3.3
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	21.64	23.16	22.01	23.48	23.79	9.41	10.93	9.77	11.24	11.56
	3H	23.66	25.02	24.04	25.35	25.71	11.72	13.08	12.10	13.41	13.77
	4H	24.12	25.40	24.52	25.74	26.12	12.43	13.71	12.83	14.05	14.43
	6H	24.53	25.70	24.94	26.07	26.46	12.92	14.09	13.33	14.46	14.85
	8H	24.68	25.80	25.11	26.19	26.59	13.05	14.17	13.48	14.56	14.96
	12H	24.78	25.85	25.21	26.23	26.66	13.14	14.21	13.57	14.59	15.02
4H	2H	21.48	22.76	21.88	23.10	23.48	10.21	11.48	10.61	11.83	12.21
	3H	23.69	24.73	24.10	25.13	25.54	12.72	13.76	13.13	14.16	14.56
	4H	24.13	25.07	24.57	25.49	25.93	13.54	14.47	13.97	14.89	15.33
	6H	24.60	25.41	25.06	25.86	26.32	14.13	14.94	14.59	15.39	15.85
	8H	24.79	25.55	25.26	26.00	26.46	14.30	15.06	14.76	15.50	15.97
	12H	24.94	25.62	25.43	26.10	26.57	14.42	15.09	14.90	15.57	16.04
8H	4H	24.05	24.81	24.52	25.26	25.73	14.37	15.14	14.84	15.58	16.05
	6H	24.51	25.14	25.01	25.63	26.11	15.00	15.63	15.49	16.12	16.60
	8H	24.71	25.28	25.23	25.79	26.28	15.20	15.76	15.71	16.27	16.76
	12H	24.90	25.40	25.41	25.89	26.46	15.35	15.86	15.86	16.35	16.91
12H	4H	24.02	24.70	24.50	25.18	25.65	14.45	15.12	14.93	15.60	16.08
	6H	24.47	25.03	24.98	25.54	26.03	15.09	15.66	15.60	16.17	16.65
	8H	24.69	25.19	25.20	25.68	26.25	15.34	15.84	15.85	16.34	16.90