

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: P893086

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC83-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-SC3-RFLW-UNV-CC83-LOW-3500K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K CC
LOW lumen setting
Light Source: -
Ballast/Driver: -

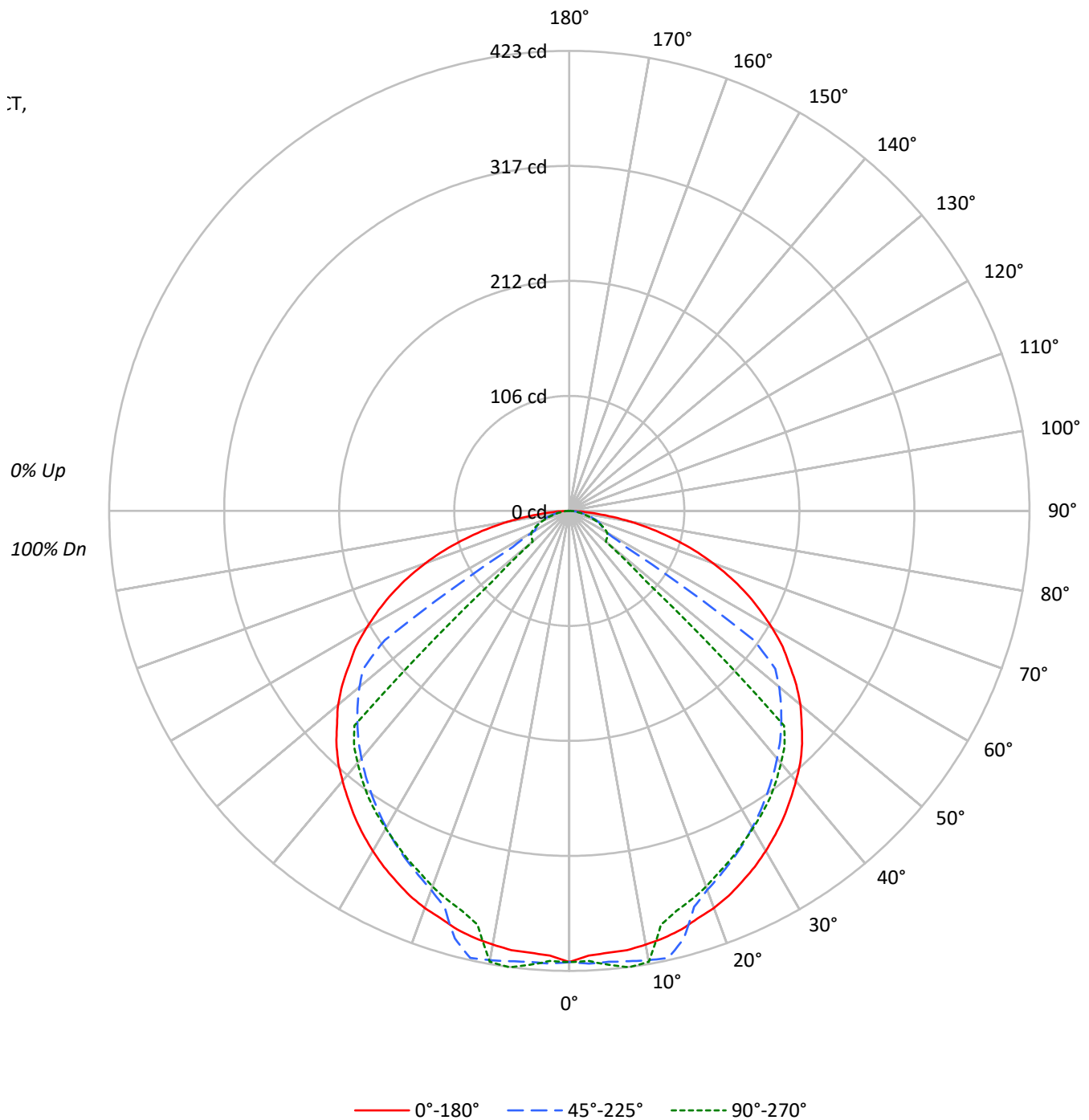
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 974.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.22 / 1.37
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 6.9
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	80	77	77	77	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	67	67	67	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	51	51	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	46	46	46	44
7	69	56	48	42	67	55	47	42	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	33	33	33	32
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10830	10830	10830
5°	10687	10908	10981
10°	10737	11121	11158
15°	10768	10998	10290
20°	10797	10305	10213
25°	10831	10201	10160
30°	10886	10138	10169
35°	10958	10110	10256
40°	11049	10126	10316
45°	11176	10176	10312
50°	11271	10227	1783
55°	11247	9418	1935
60°	11242	1901	2099
65°	11107	2020	2076
70°	10733	2107	1924
75°	9986	1977	1695
80°	8570	1759	1473
85°	5751	1678	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 11302 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	4.1
10°-20°	112.1	11.5
20°-30°	167.7	17.2
30°-40°	202.2	20.8
40°-50°	203.6	20.9
50°-60°	127.0	13.0
60°-70°	79.9	8.2
70°-80°	33.2	3.4
80°-90°	8.5	0.9
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°	319.6	32.8
0°-40°	521.8	53.6
0°-60°	852.4	87.5
0°-90°	974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	974.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	415	415	415	415	415	
5°	408	416	416	417	419	39
15°	398	411	407	381	381	112
25°	376	390	354	351	353	174
35°	344	322	317	319	322	215
45°	303	274	276	279	279	233
55°	247	218	207	41	42	221
65°	180	156	33	34	34	177
75°	99	24	20	17	17	104
85°	19	7	6	4	4	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	414.8	414.8	414.8	414.8	414.8
2.5°	409.2	416.7	416.7	414.8	414.3
5°	407.8	416.2	416.2	416.7	419.0
7.5°	407.3	415.3	417.6	420.4	423.2
10°	405.0	414.3	419.5	423.2	420.9
12.5°	402.2	412.5	420.9	397.0	389.6
15°	398.4	410.6	406.9	380.7	380.7
17.5°	392.8	407.8	381.6	374.2	374.6
20°	388.6	405.5	370.9	366.7	367.6
22.5°	383.0	400.8	362.5	358.7	359.7
25°	376.0	390.5	354.1	351.3	352.7
27.5°	369.0	369.5	345.7	343.8	344.7
30°	361.1	349.4	336.3	335.9	337.3
32.5°	352.7	334.5	327.0	327.9	329.8
35°	343.8	321.8	317.2	319.0	321.8
37.5°	334.0	310.2	307.4	310.6	312.5
40°	324.2	298.0	297.1	300.4	302.7
42.5°	314.4	286.3	286.8	290.1	292.9
45°	302.7	273.7	275.6	279.3	279.3
47.5°	289.6	260.2	263.9	256.0	94.8
50°	277.5	246.6	251.8	75.7	43.9
52.5°	263.0	232.2	238.7	41.6	43.0
55°	247.1	217.7	206.9	40.6	42.5
57.5°	232.6	202.7	61.7	40.2	41.6
60°	215.3	187.8	36.4	39.2	40.2
62.5°	197.6	171.9	34.6	37.4	37.4
65°	179.8	155.5	32.7	34.1	33.6
67.5°	160.7	138.7	30.8	29.9	29.4
70°	140.6	85.5	27.6	25.7	25.2
72.5°	120.5	29.4	23.8	21.5	21.0
75°	99.0	23.8	19.6	17.3	16.8
77.5°	78.0	19.6	15.4	13.5	13.1
80°	57.0	14.9	11.7	10.3	9.8
82.5°	36.9	10.7	8.9	7.0	6.5
85°	19.2	7.0	5.6	4.2	4.2
87.5°	7.5	4.2	2.8	1.9	1.4
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	21.27	22.78	21.63	23.10	23.41	9.91	11.43	10.28	11.74	12.05
	3H	23.19	24.54	23.57	24.87	25.23	12.04	13.39	12.42	13.72	14.08
	4H	23.67	24.94	24.07	25.29	25.67	12.73	13.99	13.13	14.34	14.72
	6H	24.11	25.28	24.52	25.64	26.04	13.19	14.35	13.60	14.72	15.11
	8H	24.25	25.36	24.68	25.75	26.15	13.32	14.43	13.75	14.82	15.22
	12H	24.32	25.39	24.76	25.77	26.20	13.41	14.47	13.84	14.85	15.28
4H	2H	21.11	22.38	21.51	22.73	23.11	10.66	11.93	11.06	12.28	12.66
	3H	23.14	24.19	23.55	24.59	24.99	13.00	14.05	13.41	14.45	14.85
	4H	23.63	24.57	24.06	24.98	25.42	13.80	14.73	14.23	15.15	15.59
	6H	24.14	24.96	24.60	25.40	25.86	14.37	15.18	14.83	15.62	16.08
	8H	24.33	25.09	24.79	25.53	26.00	14.54	15.30	15.00	15.74	16.21
	12H	24.45	25.13	24.94	25.61	26.08	14.66	15.33	15.14	15.81	16.28
8H	4H	23.55	24.31	24.02	24.76	25.23	14.38	15.14	14.85	15.59	16.05
	6H	24.07	24.69	24.56	25.18	25.66	15.04	15.66	15.53	16.15	16.63
	8H	24.26	24.83	24.78	25.34	25.83	15.26	15.82	15.77	16.33	16.82
	12H	24.43	24.92	24.94	25.42	25.98	15.43	15.93	15.94	16.42	16.99
12H	4H	23.52	24.20	24.01	24.68	25.15	14.46	15.14	14.95	15.62	16.09
	6H	24.02	24.58	24.54	25.10	25.58	15.15	15.71	15.66	16.22	16.71
	8H	24.24	24.74	24.76	25.24	25.80	15.43	15.93	15.94	16.42	16.99