

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: P893094

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893094
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-CC93-HI-5000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

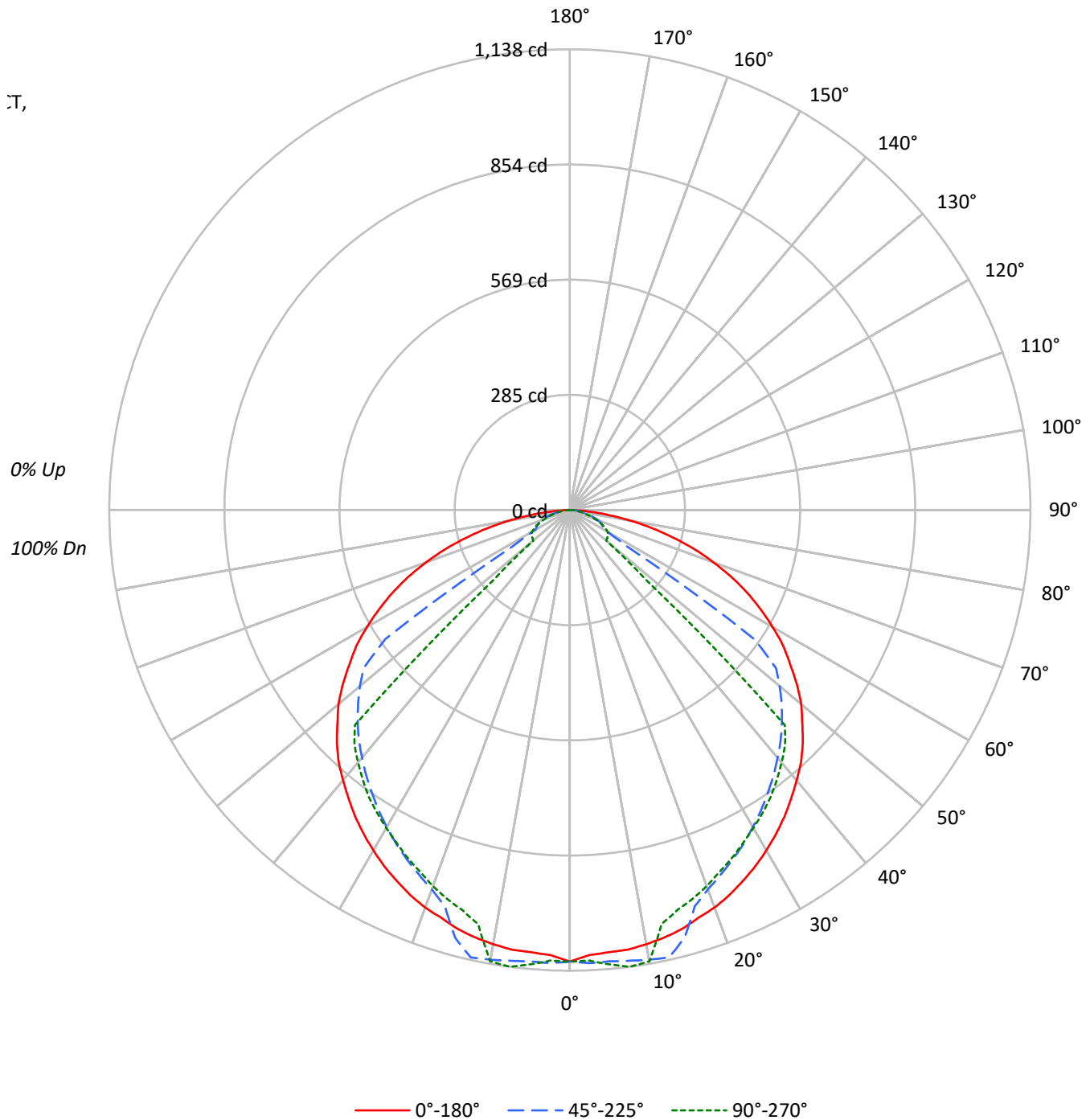
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2619.0 lumens
Efficiency: N/A
Efficacy: 124.7 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): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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°	29121	29121	29121
5°	28737	29329	29528
10°	28870	29901	30002
15°	28959	29570	27670
20°	29034	27708	27464
25°	29127	27427	27318
30°	29270	27262	27340
35°	29462	27180	27582
40°	29709	27224	27739
45°	30051	27363	27732
50°	30304	27498	4797
55°	30242	25326	5203
60°	30233	5117	5639
65°	29875	5430	5585
70°	28862	5656	5175
75°	26863	5326	4559
80°	23034	4721	3969
85°	15427	4523	3385

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 30394 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	4.1
10°-20°	301.4	11.5
20°-30°	451.0	17.2
30°-40°	543.7	20.8
40°-50°	547.5	20.9
50°-60°	341.6	13.0
60°-70°	214.8	8.2
70°-80°	89.3	3.4
80°-90°	22.9	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°	859.2	32.8
0°-40°	1402.9	53.6
0°-60°	2292.0	87.5
0°-90°	2619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1096	1119	1119	1120	1127	105
15°	1071	1104	1094	1024	1024	302
25°	1011	1050	952	944	948	467
35°	924	865	853	858	865	579
45°	814	736	741	751	751	627
55°	664	585	556	109	114	595
65°	484	418	88	92	90	477
75°	266	64	53	46	45	281
85°	52	19	15	11	11	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1100.3	1120.4	1120.4	1115.4	1114.1
5°	1096.5	1119.1	1119.1	1120.4	1126.7
7.5°	1095.3	1116.6	1122.9	1130.4	1138.0
10°	1089.0	1114.1	1127.9	1138.0	1131.7
12.5°	1081.4	1109.1	1131.7	1067.6	1047.5
15°	1071.4	1104.0	1094.0	1023.7	1023.7
17.5°	1056.3	1096.5	1026.2	1006.1	1007.3
20°	1045.0	1090.2	997.3	986.0	988.5
22.5°	1029.9	1077.7	974.7	964.6	967.1
25°	1011.1	1050.0	952.1	944.5	948.3
27.5°	992.3	993.5	929.5	924.4	926.9
30°	970.9	939.5	904.3	903.1	906.9
32.5°	948.3	899.3	879.2	881.7	886.8
35°	924.4	865.4	852.8	857.9	865.4
37.5°	898.1	834.0	826.5	835.3	840.3
40°	871.7	801.3	798.8	807.6	813.9
42.5°	845.3	769.9	771.2	780.0	787.5
45°	813.9	736.0	741.1	751.1	751.1
47.5°	778.7	699.6	709.7	688.3	255.0
50°	746.1	663.2	677.0	203.5	118.1
52.5°	707.1	624.2	641.8	111.8	115.6
55°	664.4	585.3	556.4	109.3	114.3
57.5°	625.5	545.1	165.8	108.0	111.8
60°	579.0	504.9	98.0	105.5	108.0
62.5°	531.3	462.2	92.9	100.5	100.5
65°	483.6	418.3	87.9	91.7	90.4
67.5°	432.1	373.0	82.9	80.4	79.1
70°	378.1	229.9	74.1	69.1	67.8
72.5°	324.1	79.1	64.1	57.8	56.5
75°	266.3	64.1	52.8	46.5	45.2
77.5°	209.8	52.8	41.4	36.4	35.2
80°	153.2	40.2	31.4	27.6	26.4
82.5°	99.2	28.9	23.9	18.8	17.6
85°	51.5	18.8	15.1	11.3	11.3
87.5°	20.1	11.3	7.5	5.0	3.8
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	24.71	26.22	25.07	26.53	26.85	13.34	14.86	13.71	15.17	15.49
	3H	26.63	27.98	27.00	28.31	28.67	15.47	16.83	15.85	17.15	17.52
	4H	27.11	28.38	27.51	28.73	29.10	16.16	17.43	16.56	17.78	18.15
	6H	27.55	28.71	27.96	29.08	29.47	16.62	17.79	17.04	18.16	18.55
	8H	27.69	28.80	28.11	29.19	29.59	16.76	17.87	17.18	18.26	18.66
	12H	27.76	28.82	28.19	29.21	29.64	16.84	17.91	17.28	18.29	18.72
4H	2H	24.55	25.82	24.95	26.17	26.55	14.09	15.36	14.49	15.71	16.09
	3H	26.58	27.62	26.99	28.02	28.43	16.44	17.48	16.85	17.88	18.28
	4H	27.07	28.00	27.50	28.42	28.86	17.23	18.17	17.66	18.58	19.02
	6H	27.58	28.39	28.04	28.84	29.30	17.80	18.62	18.26	19.06	19.52
	8H	27.77	28.53	28.23	28.97	29.44	17.97	18.73	18.44	19.18	19.65
	12H	27.89	28.57	28.37	29.05	29.52	18.10	18.77	18.58	19.25	19.72
8H	4H	26.99	27.75	27.46	28.20	28.66	17.82	18.58	18.28	19.02	19.49
	6H	27.50	28.13	28.00	28.62	29.10	18.47	19.10	18.97	19.59	20.07
	8H	27.70	28.27	28.22	28.78	29.26	18.70	19.26	19.21	19.77	20.26
	12H	27.86	28.36	28.37	28.85	29.42	18.87	19.37	19.38	19.86	20.43
12H	4H	26.96	27.64	27.44	28.12	28.59	17.90	18.58	18.38	19.06	19.53
	6H	27.46	28.02	27.97	28.53	29.02	18.58	19.15	19.10	19.66	20.15
	8H	27.68	28.18	28.19	28.67	29.24	18.87	19.36	19.38	19.86	20.42