

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: P893093

Luminaire Tested: 2MB-SC3-RFLW-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P893093
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-4000K
Description: Selectable 2FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K CC
HI lumen setting
Light Source: -
Ballast/Driver: -

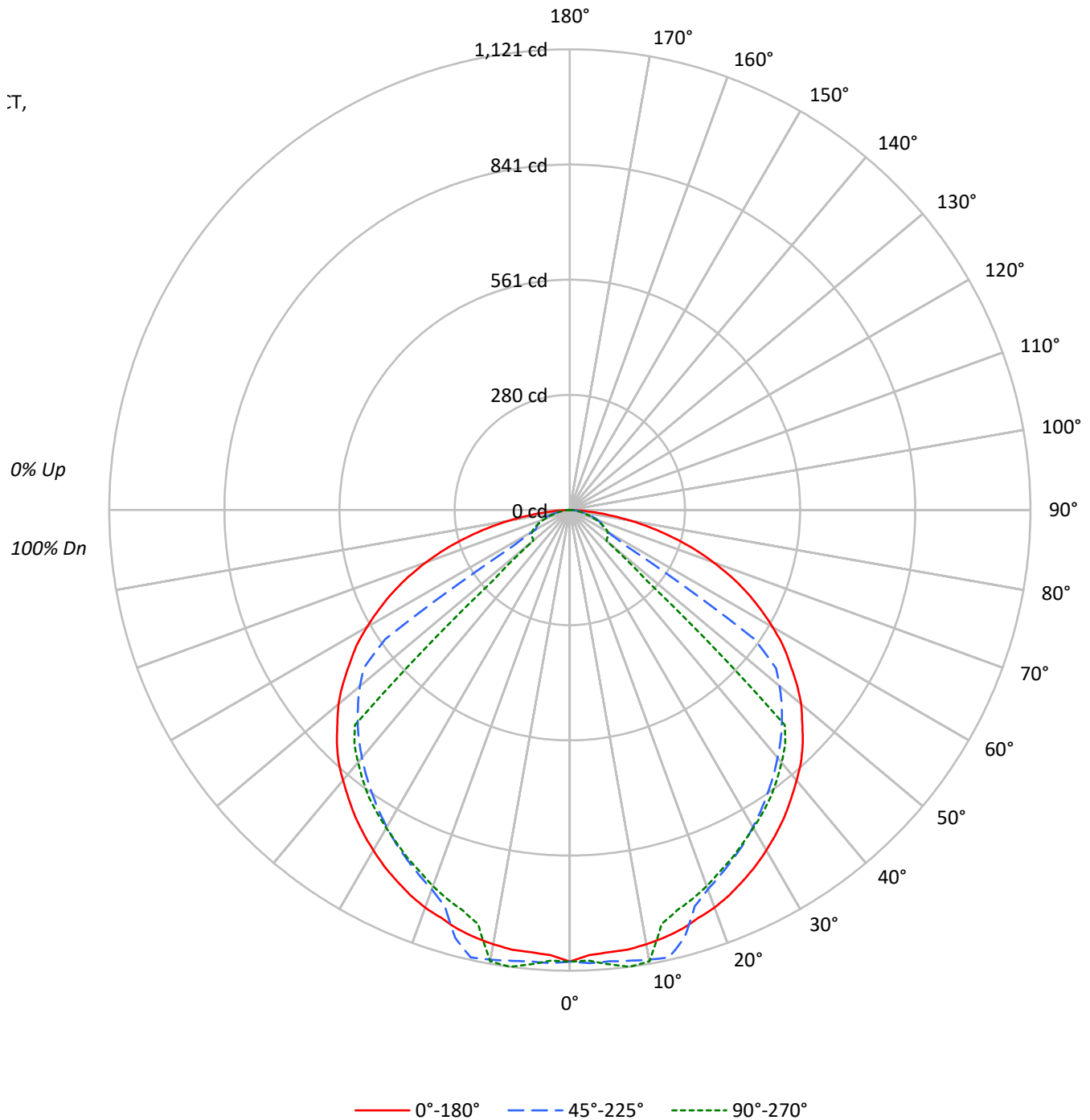
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2580.0 lumens
Efficiency: N/A
Efficacy: 122.9 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°	28685	28685	28685
5°	28310	28894	29088
10°	28441	29456	29554
15°	28526	29129	27256
20°	28603	27295	27056
25°	28692	27018	26911
30°	28832	26858	26930
35°	29026	26776	27171
40°	29266	26819	27327
45°	29604	26953	27319
50°	29853	27087	4724
55°	29791	24948	5125
60°	29784	5039	5556
65°	29430	5350	5504
70°	28427	5572	5099
75°	26459	5245	4489
80°	22703	4646	3909
85°	15187	4433	3325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 29942 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	4.1
10°-20°	296.9	11.5
20°-30°	444.3	17.2
30°-40°	535.6	20.8
40°-50°	539.4	20.9
50°-60°	336.5	13.0
60°-70°	211.6	8.2
70°-80°	88.0	3.4
80°-90°	22.6	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°	846.4	32.8
0°-40°	1382.0	53.6
0°-60°	2257.9	87.5
0°-90°	2580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1099	1099	1099	1099	1099	
5°	1080	1102	1102	1104	1110	103
15°	1055	1088	1078	1008	1008	298
25°	996	1034	938	930	934	460
35°	911	852	840	845	852	570
45°	802	725	730	740	740	618
55°	654	577	548	108	113	586
65°	476	412	87	90	89	469
75°	262	63	52	46	44	277
85°	51	19	15	11	11	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1098.7	1098.7	1098.7	1098.7	1098.7
2.5°	1083.9	1103.7	1103.7	1098.7	1097.5
5°	1080.2	1102.5	1102.5	1103.7	1109.9
7.5°	1078.9	1100.0	1106.2	1113.6	1121.0
10°	1072.8	1097.5	1111.1	1121.0	1114.8
12.5°	1065.3	1092.6	1114.8	1051.7	1031.9
15°	1055.4	1087.6	1077.7	1008.4	1008.4
17.5°	1040.6	1080.2	1010.9	991.1	992.3
20°	1029.5	1074.0	982.4	971.3	973.8
22.5°	1014.6	1061.6	960.2	950.3	952.7
25°	996.0	1034.4	937.9	930.5	934.2
27.5°	977.5	978.7	915.6	910.7	913.1
30°	956.4	925.5	890.9	889.6	893.3
32.5°	934.2	885.9	866.1	868.6	873.5
35°	910.7	852.5	840.1	845.1	852.5
37.5°	884.7	821.6	814.2	822.8	827.8
40°	858.7	789.4	786.9	795.6	801.8
42.5°	832.7	758.5	759.7	768.4	775.8
45°	801.8	725.1	730.0	739.9	739.9
47.5°	767.1	689.2	699.1	678.1	251.2
50°	735.0	653.3	666.9	200.4	116.3
52.5°	696.6	614.9	632.3	110.1	113.8
55°	654.5	576.6	548.1	107.6	112.6
57.5°	616.2	537.0	163.3	106.4	110.1
60°	570.4	497.4	96.5	103.9	106.4
62.5°	523.4	455.3	91.6	99.0	99.0
65°	476.4	412.0	86.6	90.3	89.1
67.5°	425.6	367.5	81.7	79.2	78.0
70°	372.4	226.4	73.0	68.1	66.8
72.5°	319.2	78.0	63.1	56.9	55.7
75°	262.3	63.1	52.0	45.8	44.5
77.5°	206.6	52.0	40.8	35.9	34.6
80°	151.0	39.6	30.9	27.2	26.0
82.5°	97.7	28.5	23.5	18.6	17.3
85°	50.7	18.6	14.8	11.1	11.1
87.5°	19.8	11.1	7.4	4.9	3.7
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	24.65	26.17	25.02	26.48	26.80	13.29	14.80	13.66	15.12	15.43
	3H	26.57	27.93	26.95	28.25	28.62	15.42	16.78	15.80	17.10	17.47
	4H	27.06	28.32	27.46	28.67	29.05	16.11	17.38	16.51	17.72	18.10
	6H	27.49	28.66	27.91	29.03	29.42	16.57	17.74	16.98	18.11	18.50
	8H	27.63	28.74	28.06	29.13	29.54	16.71	17.82	17.13	18.21	18.61
	12H	27.71	28.77	28.14	29.15	29.58	16.79	17.85	17.22	18.24	18.67
4H	2H	24.50	25.77	24.90	26.11	26.49	14.04	15.31	14.44	15.66	16.04
	3H	26.53	27.57	26.94	27.97	28.37	16.39	17.43	16.80	17.83	18.23
	4H	27.02	27.95	27.45	28.37	28.81	17.18	18.12	17.61	18.53	18.97
	6H	27.53	28.34	27.99	28.78	29.24	17.75	18.56	18.21	19.01	19.47
	8H	27.71	28.47	28.18	28.92	29.39	17.92	18.68	18.39	19.13	19.59
	12H	27.84	28.52	28.32	29.00	29.47	18.04	18.72	18.53	19.20	19.67
8H	4H	26.94	27.70	27.40	28.14	28.61	17.77	18.53	18.23	18.97	19.44
	6H	27.45	28.08	27.95	28.57	29.05	18.42	19.05	18.92	19.54	20.02
	8H	27.65	28.21	28.17	28.72	29.21	18.64	19.21	19.16	19.72	20.21
	12H	27.81	28.31	28.32	28.80	29.37	18.82	19.32	19.33	19.81	20.37
12H	4H	26.91	27.59	27.39	28.07	28.54	17.85	18.53	18.33	19.01	19.48
	6H	27.41	27.97	27.92	28.48	28.97	18.53	19.09	19.05	19.60	20.09
	8H	27.63	28.13	28.14	28.62	29.19	18.81	19.31	19.32	19.80	20.37