

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: P895438

Luminaire Tested: 8TMB-SC3-LVR-UNV-CC93-MID-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895438
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: 8TMB-SC3-LVR-UNV-CC93-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 5000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

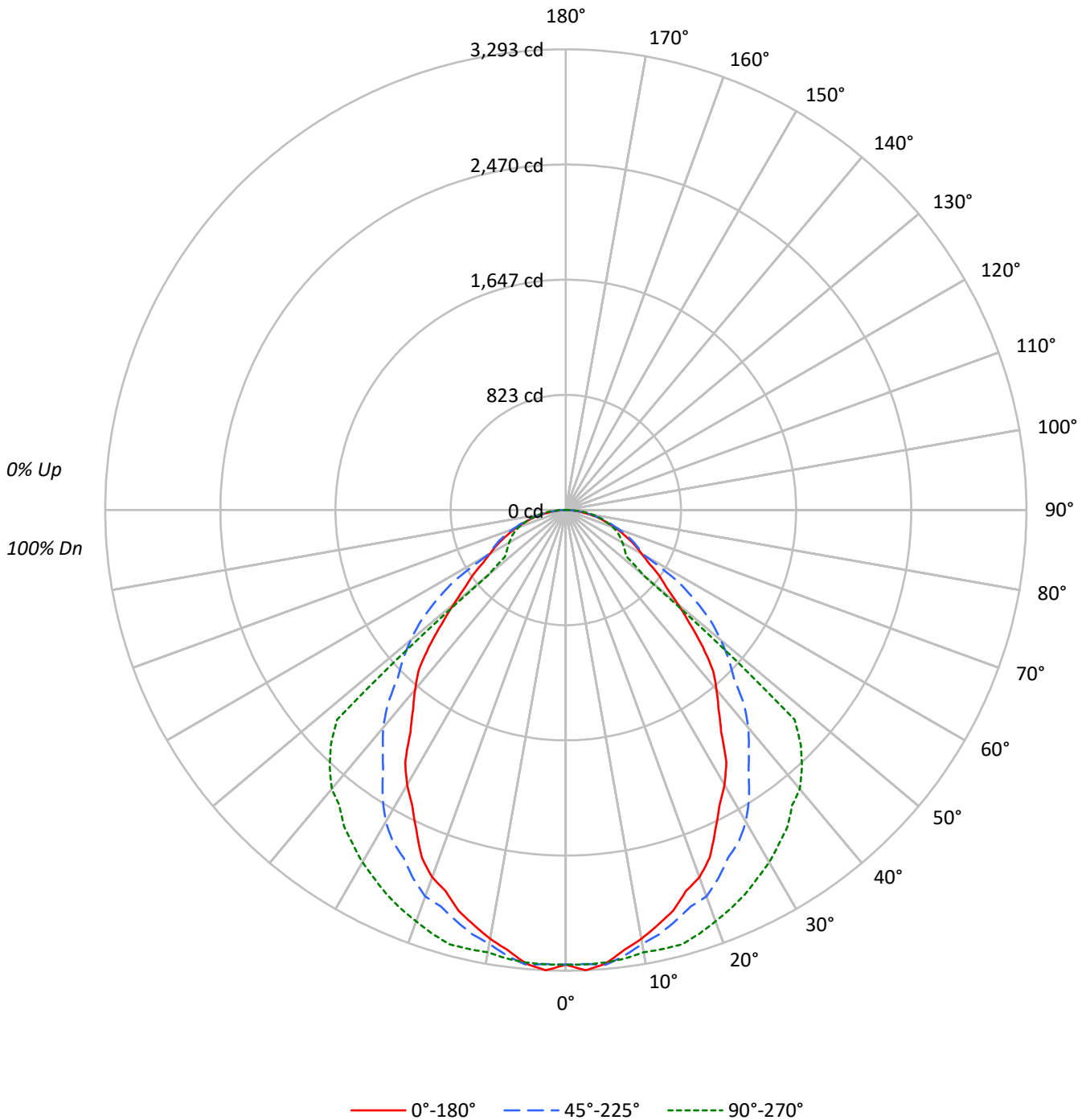
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6935.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.9948
Total Harmonic Distortion (THDi): 5.65231997856897
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°	11531	11531	11531
5°	11592	11622	11563
10°	11212	11344	11565
15°	10889	11163	11803
20°	10547	11099	11813
25°	9896	10741	11865
30°	9296	10547	11913
35°	8382	9864	11970
40°	7764	9409	12054
45°	6946	8528	11918
50°	5763	7989	4004
55°	5021	7012	3203
60°	4440	4570	3321
65°	4222	4445	3525
70°	3960	4201	3719
75°	3686	3959	3822
80°	3357	3731	4001
85°	2972	3175	4323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11918 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	4.4
10°-20°	867.1	12.5
20°-30°	1275.6	18.4
30°-40°	1458.7	21.0
40°-50°	1381.3	19.9
50°-60°	761.0	11.0
60°-70°	488.6	7.0
70°-80°	301.6	4.3
80°-90°	92.8	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°	2450.9	35.3
0°-40°	3909.7	56.4
0°-60°	6052.0	87.3
0°-90°	6935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3250	3250	3250	3250	3250	
5°	3255	3281	3263	3263	3246	305
15°	2964	3001	3039	3198	3213	832
25°	2528	2641	2744	2923	3031	1164
35°	1935	2101	2277	2607	2764	1223
45°	1384	1515	1700	2181	2375	1059
55°	812	851	1134	584	518	726
65°	503	520	530	471	420	498
75°	269	274	289	304	279	286
85°	73	73	78	90	106	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3249.8	3249.8	3249.8	3249.8	3249.8
2.5°	3292.9	3301.2	3248.1	3246.4	3251.4
5°	3254.7	3281.3	3263.0	3263.0	3246.4
7.5°	3173.4	3218.2	3213.2	3251.4	3233.2
10°	3112.0	3148.5	3148.5	3248.1	3209.9
12.5°	3039.0	3080.5	3103.7	3208.3	3213.2
15°	2964.3	3000.8	3039.0	3198.3	3213.2
17.5°	2856.4	2922.8	2970.9	3126.9	3175.1
20°	2793.3	2833.2	2939.4	3065.5	3128.6
22.5°	2688.8	2746.9	2849.8	2990.8	3083.8
25°	2527.8	2640.6	2743.5	2922.8	3030.7
27.5°	2378.4	2463.0	2675.5	2864.7	2967.6
30°	2268.9	2335.2	2574.2	2780.0	2907.8
32.5°	2136.1	2244.0	2438.1	2697.1	2833.2
35°	1935.2	2101.2	2277.2	2607.4	2763.5
37.5°	1794.2	1908.7	2147.7	2514.5	2658.9
40°	1676.3	1780.9	2031.5	2398.3	2602.5
42.5°	1558.5	1643.1	1885.5	2312.0	2497.9
45°	1384.2	1515.3	1699.6	2180.9	2375.1
47.5°	1201.6	1341.1	1578.4	2069.7	2219.1
50°	1044.0	1155.2	1447.3	1848.9	725.3
52.5°	906.2	1009.1	1307.9	668.9	547.7
55°	811.6	851.4	1133.6	584.2	517.8
57.5°	698.7	763.5	951.0	556.0	491.3
60°	625.7	653.9	644.0	527.8	468.0
62.5°	567.6	587.5	584.2	499.6	441.5
65°	502.9	519.5	529.5	471.4	419.9
67.5°	438.2	453.1	468.0	436.5	390.0
70°	381.7	391.7	405.0	395.0	358.5
72.5°	323.6	335.3	343.6	351.9	317.0
75°	268.9	273.9	288.8	303.7	278.8
77.5°	219.1	224.1	234.0	250.6	237.3
80°	164.3	169.3	182.6	195.8	195.8
82.5°	116.2	119.5	127.8	146.1	154.4
85°	73.0	73.0	78.0	89.6	106.2
87.5°	28.2	28.2	33.2	39.8	53.1
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	16.45	17.93	16.81	18.24	18.56	14.25	15.73	14.61	16.04	16.36
	3H	17.97	19.30	18.35	19.63	19.99	16.58	17.90	16.96	18.23	18.59
	4H	18.56	19.81	18.96	20.16	20.54	17.53	18.77	17.93	19.12	19.50
	6H	19.02	20.17	19.43	20.53	20.93	18.31	19.46	18.72	19.83	20.22
	8H	19.16	20.26	19.59	20.65	21.05	18.62	19.72	19.05	20.11	20.51
	12H	19.26	20.31	19.69	20.69	21.12	18.87	19.92	19.30	20.30	20.73
4H	2H	17.00	18.24	17.40	18.59	18.97	15.35	16.59	15.75	16.94	17.32
	3H	18.77	19.80	19.18	20.20	20.60	17.80	18.83	18.21	19.23	19.63
	4H	19.49	20.41	19.92	20.83	21.27	18.86	19.79	19.30	20.20	20.64
	6H	20.07	20.88	20.53	21.32	21.78	19.75	20.56	20.21	21.00	21.46
	8H	20.26	21.02	20.73	21.46	21.93	20.10	20.86	20.57	21.30	21.77
	12H	20.40	21.07	20.88	21.55	22.02	20.39	21.06	20.87	21.54	22.01
8H	4H	19.79	20.55	20.26	20.99	21.46	19.25	20.00	19.71	20.45	20.92
	6H	20.51	21.13	21.00	21.62	22.10	20.29	20.91	20.78	21.40	21.88
	8H	20.77	21.33	21.28	21.84	22.33	20.73	21.29	21.25	21.80	22.29
	12H	20.98	21.48	21.49	21.97	22.53	21.11	21.61	21.62	22.11	22.67
12H	4H	19.83	20.50	20.31	20.98	21.45	19.28	19.96	19.77	20.44	20.91
	6H	20.57	21.13	21.09	21.64	22.13	20.35	20.91	20.86	21.42	21.91
	8H	20.89	21.39	21.40	21.88	22.45	20.86	21.36	21.37	21.85	22.41