

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: P895491

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC93-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895491
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: 8TMB-SC3-RFLW-UNV-CC93-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

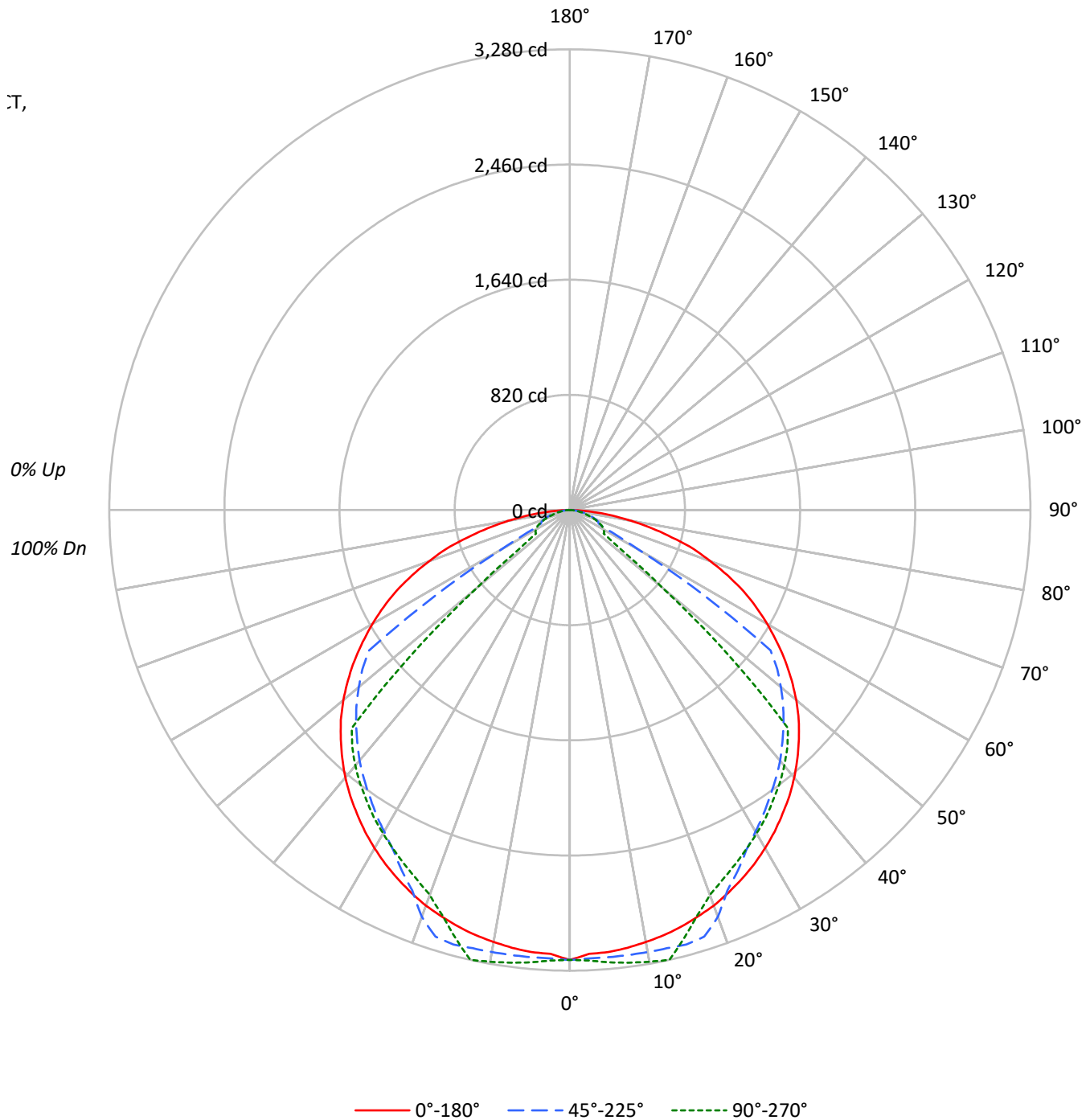
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7812.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V): 120
Input Current (Ain): 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				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°	20741	20741	20741
5°	20533	20772	21011
10°	20530	21012	21471
15°	20586	21473	21128
20°	20654	21237	20098
25°	20707	20234	19893
30°	20791	19775	19885
35°	20877	19658	19948
40°	21020	19686	20089
45°	21124	19712	20115
50°	21203	19760	8696
55°	21149	19697	3318
60°	21026	7517	3616
65°	20880	3489	3714
70°	20167	3754	3478
75°	18839	3585	3032
80°	16576	3151	2603
85°	13099	2727	2184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 21203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	3.9
10°-20°	888.2	11.4
20°-30°	1325.2	17.0
30°-40°	1606.3	20.6
40°-50°	1644.8	21.1
50°-60°	1093.8	14.0
60°-70°	623.4	8.0
70°-80°	261.9	3.4
80°-90°	62.5	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°	2519.3	32.2
0°-40°	4125.6	52.8
0°-60°	6864.2	87.9
0°-90°	7812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3203	3203	3203	3203	3203	
5°	3159	3221	3196	3203	3232	300
15°	3071	3155	3203	3192	3152	867
25°	2898	3038	2832	2770	2784	1337
35°	2641	2689	2487	2498	2523	1654
45°	2307	2167	2152	2178	2196	1780
55°	1873	1715	1745	382	294	1673
65°	1363	1220	228	242	242	1341
75°	753	158	143	125	121	799
85°	176	44	37	29	29	211
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3203.0	3203.0	3203.0	3203.0	3203.0
2.5°	3162.6	3228.7	3195.6	3199.3	3210.3
5°	3158.9	3221.3	3195.6	3203.0	3232.4
7.5°	3144.2	3210.3	3195.6	3217.7	3250.7
10°	3122.2	3199.3	3195.6	3232.4	3265.4
12.5°	3100.1	3177.3	3195.6	3250.7	3280.1
15°	3070.7	3155.2	3203.0	3192.0	3151.6
17.5°	3034.0	3133.2	3184.6	3026.7	3023.0
20°	2997.3	3103.8	3081.8	2931.2	2916.5
22.5°	2949.5	3074.4	2931.2	2828.3	2846.7
25°	2898.1	3037.7	2832.0	2769.5	2784.2
27.5°	2843.0	3001.0	2725.5	2703.4	2721.8
30°	2780.6	2949.5	2644.7	2637.3	2659.4
32.5°	2714.5	2850.4	2567.5	2571.2	2596.9
35°	2641.0	2688.7	2486.7	2497.7	2523.4
37.5°	2567.5	2538.1	2409.6	2427.9	2453.7
40°	2486.7	2420.6	2328.8	2347.1	2376.5
42.5°	2398.6	2295.7	2240.6	2266.3	2292.0
45°	2306.7	2167.2	2152.5	2178.2	2196.5
47.5°	2211.2	2057.0	2060.6	2079.0	1557.4
50°	2104.7	1946.8	1961.5	1359.1	863.2
52.5°	1990.8	1832.9	1862.3	756.7	437.1
55°	1873.3	1715.4	1744.7	382.0	293.9
57.5°	1748.4	1597.8	1138.7	275.5	290.2
60°	1623.5	1472.9	580.4	271.8	279.2
62.5°	1495.0	1348.0	275.5	260.8	264.5
65°	1362.7	1219.5	227.7	242.4	242.4
67.5°	1215.8	1083.6	216.7	216.7	213.0
70°	1065.2	899.9	198.3	187.3	183.7
72.5°	925.6	345.3	172.6	154.3	150.6
75°	753.0	157.9	143.3	124.9	121.2
77.5°	598.7	132.2	113.9	99.2	95.5
80°	444.5	102.8	84.5	73.5	69.8
82.5°	308.5	69.8	58.8	47.8	47.8
85°	176.3	44.1	36.7	29.4	29.4
87.5°	69.8	22.0	18.4	11.0	11.0
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	23.46	24.98	23.82	25.29	25.61	11.23	12.75	11.59	13.06	13.38
	3H	25.48	26.84	25.86	27.17	27.53	13.54	14.90	13.92	15.23	15.59
	4H	25.94	27.21	26.34	27.56	27.94	14.25	15.53	14.65	15.87	16.25
	6H	26.35	27.52	26.76	27.89	28.28	14.74	15.91	15.15	16.28	16.67
	8H	26.50	27.61	26.93	28.00	28.41	14.88	15.99	15.30	16.38	16.78
	12H	26.60	27.66	27.03	28.05	28.48	14.96	16.03	15.39	16.41	16.84
4H	2H	23.30	24.57	23.70	24.92	25.30	12.02	13.30	12.42	13.64	14.02
	3H	25.51	26.55	25.92	26.95	27.35	14.53	15.58	14.95	15.98	16.38
	4H	25.95	26.89	26.39	27.31	27.75	15.36	16.29	15.79	16.71	17.15
	6H	26.42	27.23	26.88	27.68	28.14	15.95	16.76	16.41	17.21	17.67
	8H	26.61	27.37	27.07	27.82	28.28	16.12	16.88	16.58	17.32	17.79
	12H	26.76	27.44	27.24	27.92	28.39	16.24	16.91	16.72	17.39	17.86
8H	4H	25.87	26.63	26.34	27.08	27.54	16.19	16.95	16.66	17.40	17.87
	6H	26.33	26.96	26.83	27.45	27.93	16.82	17.45	17.31	17.94	18.42
	8H	26.53	27.10	27.04	27.61	28.09	17.02	17.58	17.53	18.09	18.58
	12H	26.71	27.22	27.22	27.71	28.27	17.17	17.68	17.68	18.17	18.73
12H	4H	25.84	26.52	26.32	27.00	27.47	16.26	16.94	16.75	17.42	17.89
	6H	26.28	26.85	26.80	27.36	27.85	16.91	17.48	17.42	17.99	18.47
	8H	26.51	27.01	27.02	27.50	28.07	17.16	17.66	17.67	18.16	18.72