

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: P895482

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC83-MID-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895482
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-CC83-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 4000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

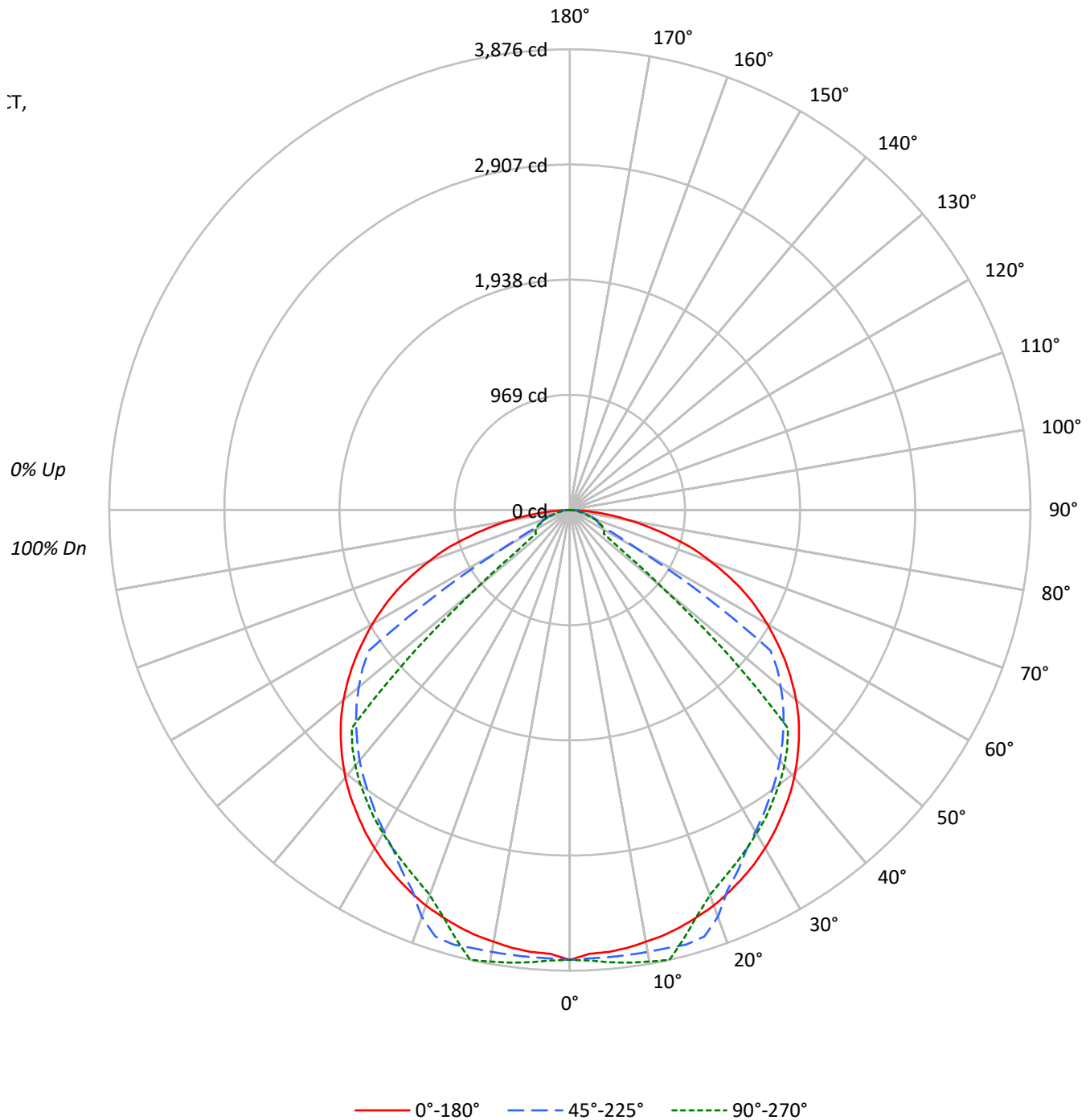
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9230.0 lumens
Efficiency: N/A
Efficacy: 138.0 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°	24506	24506	24506
5°	24261	24543	24825
10°	24256	24827	25368
15°	24322	25370	24963
20°	24403	25092	23746
25°	24465	23907	23504
30°	24565	23364	23494
35°	24667	23226	23569
40°	24836	23259	23735
45°	24958	23290	23766
50°	25051	23347	10274
55°	24987	23272	3920
60°	24842	8880	4271
65°	24670	4123	4388
70°	23829	4438	4108
75°	22260	4236	3583
80°	19581	3722	3076
85°	15476	3225	2578

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 25051 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.4	3.9
10°-20°	1049.4	11.4
20°-30°	1565.8	17.0
30°-40°	1897.9	20.6
40°-50°	1943.3	21.1
50°-60°	1292.3	14.0
60°-70°	736.6	8.0
70°-80°	309.5	3.4
80°-90°	73.8	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°	2976.6	32.2
0°-40°	4874.5	52.8
0°-60°	8110.2	87.9
0°-90°	9230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3784	3784	3784	3784	3784	
5°	3732	3806	3776	3784	3819	355
15°	3628	3728	3784	3771	3724	1025
25°	3424	3589	3346	3272	3290	1580
35°	3120	3177	2938	2951	2982	1955
45°	2725	2560	2543	2574	2595	2103
55°	2213	2027	2061	451	347	1976
65°	1610	1441	269	286	286	1584
75°	890	187	169	148	143	945
85°	208	52	43	35	35	250
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3784.4	3784.4	3784.4	3784.4	3784.4
2.5°	3736.6	3814.7	3775.7	3780.0	3793.1
5°	3732.3	3806.1	3775.7	3784.4	3819.1
7.5°	3714.9	3793.1	3775.7	3801.7	3840.8
10°	3688.9	3780.0	3775.7	3819.1	3858.1
12.5°	3662.9	3754.0	3775.7	3840.8	3875.5
15°	3628.1	3728.0	3784.4	3771.4	3723.6
17.5°	3584.7	3701.9	3762.7	3576.1	3571.7
20°	3541.3	3667.2	3641.2	3463.2	3445.9
22.5°	3484.9	3632.5	3463.2	3341.7	3363.4
25°	3424.2	3589.1	3346.0	3272.3	3289.6
27.5°	3359.1	3545.7	3220.2	3194.1	3215.8
30°	3285.3	3484.9	3124.7	3116.0	3142.1
32.5°	3207.2	3367.7	3033.6	3037.9	3068.3
35°	3120.4	3176.8	2938.1	2951.1	2981.5
37.5°	3033.6	2998.9	2847.0	2868.7	2899.0
40°	2938.1	2860.0	2751.5	2773.2	2807.9
42.5°	2833.9	2712.4	2647.3	2677.7	2708.1
45°	2725.4	2560.5	2543.2	2573.5	2595.2
47.5°	2612.6	2430.3	2434.7	2456.4	1840.1
50°	2486.7	2300.1	2317.5	1605.8	1019.9
52.5°	2352.2	2165.6	2200.3	894.0	516.4
55°	2213.3	2026.7	2061.4	451.3	347.2
57.5°	2065.8	1887.8	1345.4	325.5	342.9
60°	1918.2	1740.3	685.7	321.2	329.8
62.5°	1766.3	1592.7	325.5	308.1	312.5
65°	1610.1	1440.8	269.1	286.4	286.4
67.5°	1436.5	1280.3	256.1	256.1	251.7
70°	1258.6	1063.3	234.4	221.3	217.0
72.5°	1093.6	407.9	204.0	182.3	177.9
75°	889.7	186.6	169.3	147.6	143.2
77.5°	707.4	156.2	134.5	117.2	112.8
80°	525.1	121.5	99.8	86.8	82.5
82.5°	364.5	82.5	69.4	56.4	56.4
85°	208.3	52.1	43.4	34.7	34.7
87.5°	82.5	26.0	21.7	13.0	13.0
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	24.04	25.56	24.40	25.87	26.19	11.81	13.33	12.17	13.64	13.96
	3H	26.06	27.42	26.44	27.75	28.11	14.12	15.48	14.50	15.81	16.17
	4H	26.52	27.79	26.92	28.14	28.52	14.83	16.11	15.23	16.45	16.83
	6H	26.93	28.10	27.34	28.47	28.86	15.32	16.49	15.73	16.86	17.25
	8H	27.08	28.19	27.50	28.58	28.98	15.45	16.57	15.88	16.96	17.36
	12H	27.18	28.24	27.61	28.63	29.06	15.54	16.61	15.97	16.99	17.42
4H	2H	23.88	25.15	24.28	25.50	25.88	12.60	13.88	13.00	14.22	14.60
	3H	26.08	27.13	26.50	27.53	27.93	15.11	16.16	15.53	16.56	16.96
	4H	26.53	27.47	26.96	27.89	28.33	15.94	16.87	16.37	17.29	17.73
	6H	27.00	27.81	27.46	28.26	28.72	16.53	17.34	16.99	17.78	18.25
	8H	27.19	27.95	27.65	28.39	28.86	16.70	17.46	17.16	17.90	18.37
	12H	27.34	28.02	27.82	28.50	28.97	16.81	17.49	17.30	17.97	18.44
8H	4H	26.45	27.21	26.91	27.66	28.12	16.77	17.53	17.24	17.98	18.45
	6H	26.91	27.54	27.41	28.03	28.51	17.40	18.02	17.89	18.52	18.99
	8H	27.11	27.67	27.62	28.19	28.67	17.60	18.16	18.11	18.67	19.16
	12H	27.29	27.80	27.80	28.29	28.85	17.75	18.25	18.26	18.75	19.31
12H	4H	26.42	27.10	26.90	27.58	28.05	16.84	17.52	17.33	18.00	18.47
	6H	26.86	27.43	27.38	27.94	28.43	17.49	18.05	18.00	18.57	19.05
	8H	27.09	27.59	27.60	28.08	28.64	17.74	18.24	18.25	18.74	19.30