

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: P895492

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895492
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

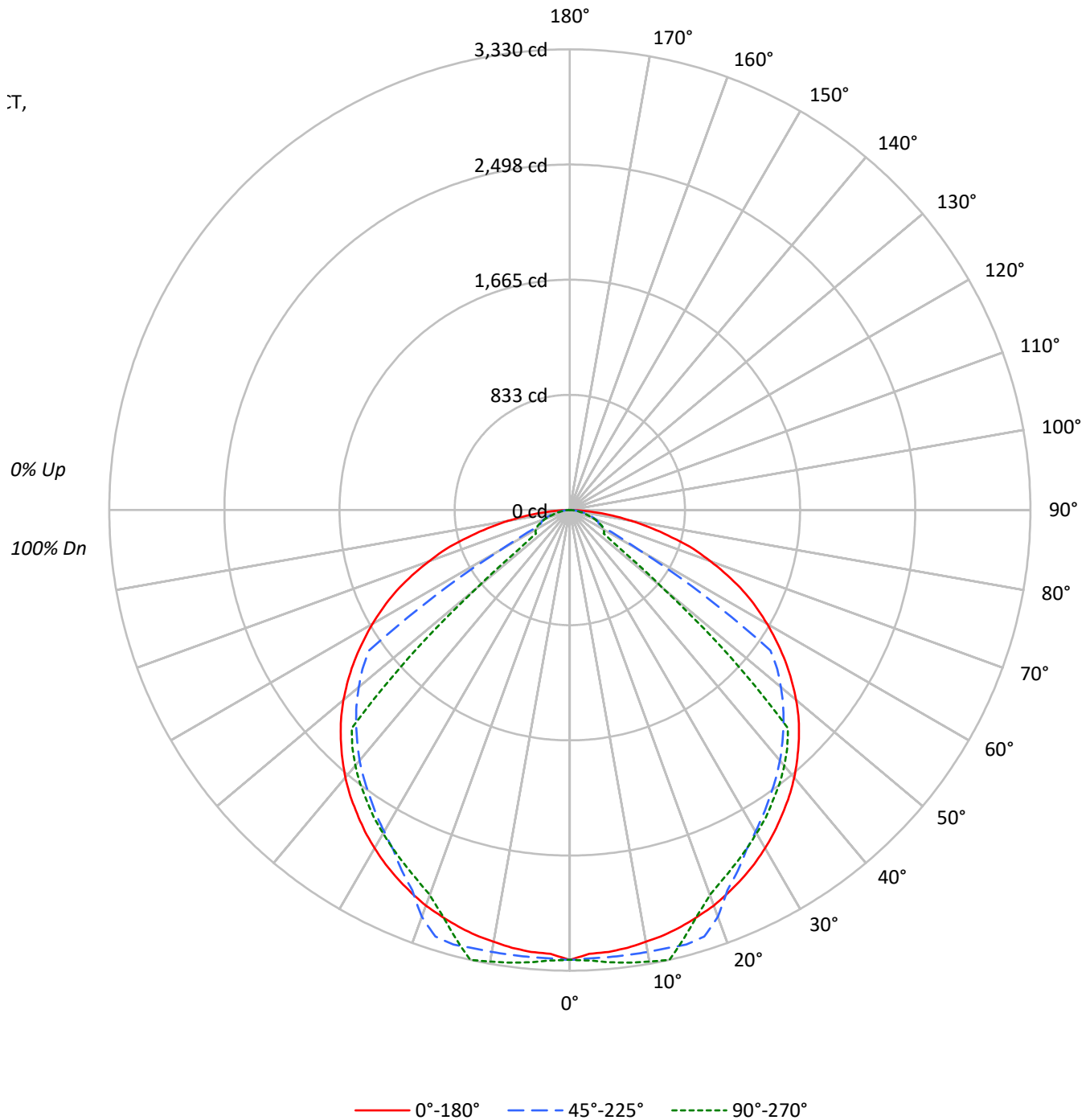
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7930.0 lumens
Efficiency: N/A
Efficacy: 118.5 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				
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°	21054	21054	21054
5°	20843	21086	21328
10°	20839	21330	21795
15°	20897	21797	21447
20°	20967	21557	20401
25°	21019	20540	20194
30°	21105	20073	20185
35°	21193	19955	20250
40°	21338	19982	20392
45°	21444	20010	20419
50°	21523	20058	8827
55°	21468	19995	3368
60°	21344	7629	3670
65°	21195	3542	3771
70°	20472	3811	3529
75°	19125	3638	3077
80°	16826	3200	2640
85°	13299	2771	2214

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 21523 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.5	3.9
10°-20°	901.6	11.4
20°-30°	1345.3	17.0
30°-40°	1630.6	20.6
40°-50°	1669.6	21.1
50°-60°	1110.3	14.0
60°-70°	632.9	8.0
70°-80°	265.9	3.4
80°-90°	63.4	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°	2557.4	32.2
0°-40°	4187.9	52.8
0°-60°	6967.9	87.9
0°-90°	7930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3251	3251	3251	3251	3251	
5°	3207	3270	3244	3251	3281	305
15°	3117	3203	3251	3240	3199	880
25°	2942	3084	2875	2811	2826	1357
35°	2681	2729	2524	2536	2562	1679
45°	2342	2200	2185	2211	2230	1806
55°	1902	1741	1771	388	298	1698
65°	1383	1238	231	246	246	1361
75°	764	160	145	127	123	812
85°	179	45	37	30	30	214
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3251.4	3251.4	3251.4	3251.4	3251.4
2.5°	3210.3	3277.5	3243.9	3247.6	3258.8
5°	3206.6	3270.0	3243.9	3251.4	3281.2
7.5°	3191.7	3258.8	3243.9	3266.3	3299.8
10°	3169.3	3247.6	3243.9	3281.2	3314.7
12.5°	3147.0	3225.3	3243.9	3299.8	3329.7
15°	3117.1	3202.9	3251.4	3240.2	3199.2
17.5°	3079.8	3180.5	3232.7	3072.4	3068.7
20°	3042.6	3150.7	3128.3	2975.4	2960.5
22.5°	2994.1	3120.9	2975.4	2871.0	2889.7
25°	2941.9	3083.6	2874.8	2811.4	2826.3
27.5°	2886.0	3046.3	2766.6	2744.3	2762.9
30°	2822.6	2994.1	2684.6	2677.2	2699.5
32.5°	2755.5	2893.4	2606.3	2610.0	2636.1
35°	2680.9	2729.4	2524.3	2535.5	2561.6
37.5°	2606.3	2576.5	2446.0	2464.6	2490.7
40°	2524.3	2457.2	2363.9	2382.6	2412.4
42.5°	2434.8	2330.4	2274.5	2300.6	2326.7
45°	2341.6	2199.9	2185.0	2211.1	2229.7
47.5°	2244.6	2088.0	2091.8	2110.4	1580.9
50°	2136.5	1976.2	1991.1	1379.6	876.2
52.5°	2020.9	1860.6	1890.4	768.1	443.7
55°	1901.6	1741.3	1771.1	387.8	298.3
57.5°	1774.8	1622.0	1155.9	279.6	294.6
60°	1648.1	1495.2	589.1	275.9	283.4
62.5°	1517.6	1368.4	279.6	264.7	268.5
65°	1383.3	1237.9	231.2	246.1	246.1
67.5°	1234.2	1099.9	220.0	220.0	216.3
70°	1081.3	913.5	201.3	190.2	186.4
72.5°	939.6	350.5	175.2	156.6	152.9
75°	764.4	160.3	145.4	126.8	123.0
77.5°	607.8	134.2	115.6	100.7	96.9
80°	451.2	104.4	85.8	74.6	70.8
82.5°	313.2	70.8	59.7	48.5	48.5
85°	179.0	44.7	37.3	29.8	29.8
87.5°	70.8	22.4	18.6	11.2	11.2
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	23.51	25.03	23.88	25.35	25.66	11.28	12.80	11.64	13.11	13.43
	3H	25.53	26.89	25.91	27.22	27.58	13.59	14.95	13.97	15.28	15.64
	4H	25.99	27.27	26.39	27.62	27.99	14.31	15.58	14.71	15.93	16.30
	6H	26.40	27.57	26.81	27.94	28.33	14.79	15.96	15.20	16.33	16.72
	8H	26.55	27.67	26.98	28.06	28.46	14.93	16.04	15.35	16.43	16.83
	12H	26.65	27.72	27.08	28.10	28.53	15.01	16.08	15.44	16.46	16.89
4H	2H	23.35	24.63	23.75	24.97	25.35	12.08	13.35	12.48	13.70	14.08
	3H	25.56	26.60	25.97	27.00	27.41	14.59	15.63	15.00	16.03	16.44
	4H	26.00	26.94	26.44	27.36	27.80	15.41	16.35	15.84	16.76	17.20
	6H	26.47	27.29	26.93	27.73	28.19	16.00	16.81	16.46	17.26	17.72
	8H	26.66	27.42	27.13	27.87	28.34	16.17	16.93	16.63	17.37	17.84
	12H	26.81	27.49	27.30	27.97	28.44	16.29	16.97	16.77	17.44	17.92
8H	4H	25.92	26.68	26.39	27.13	27.60	16.25	17.01	16.71	17.45	17.92
	6H	26.38	27.01	26.88	27.50	27.98	16.87	17.50	17.37	17.99	18.47
	8H	26.58	27.15	27.10	27.66	28.15	17.07	17.63	17.58	18.14	18.63
	12H	26.77	27.27	27.28	27.76	28.33	17.23	17.73	17.74	18.22	18.78
12H	4H	25.89	26.57	26.38	27.05	27.52	16.32	17.00	16.80	17.48	17.95
	6H	26.34	26.90	26.85	27.41	27.90	16.96	17.53	17.48	18.04	18.53
	8H	26.56	27.06	27.07	27.55	28.12	17.22	17.72	17.73	18.21	18.77