

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: P895481

Luminaire Tested: 8TMB-SC3-RFLW-UNV-CC83-MID-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895481
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-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K CC
MID lumen setting
Light Source: -
Ballast/Driver: -

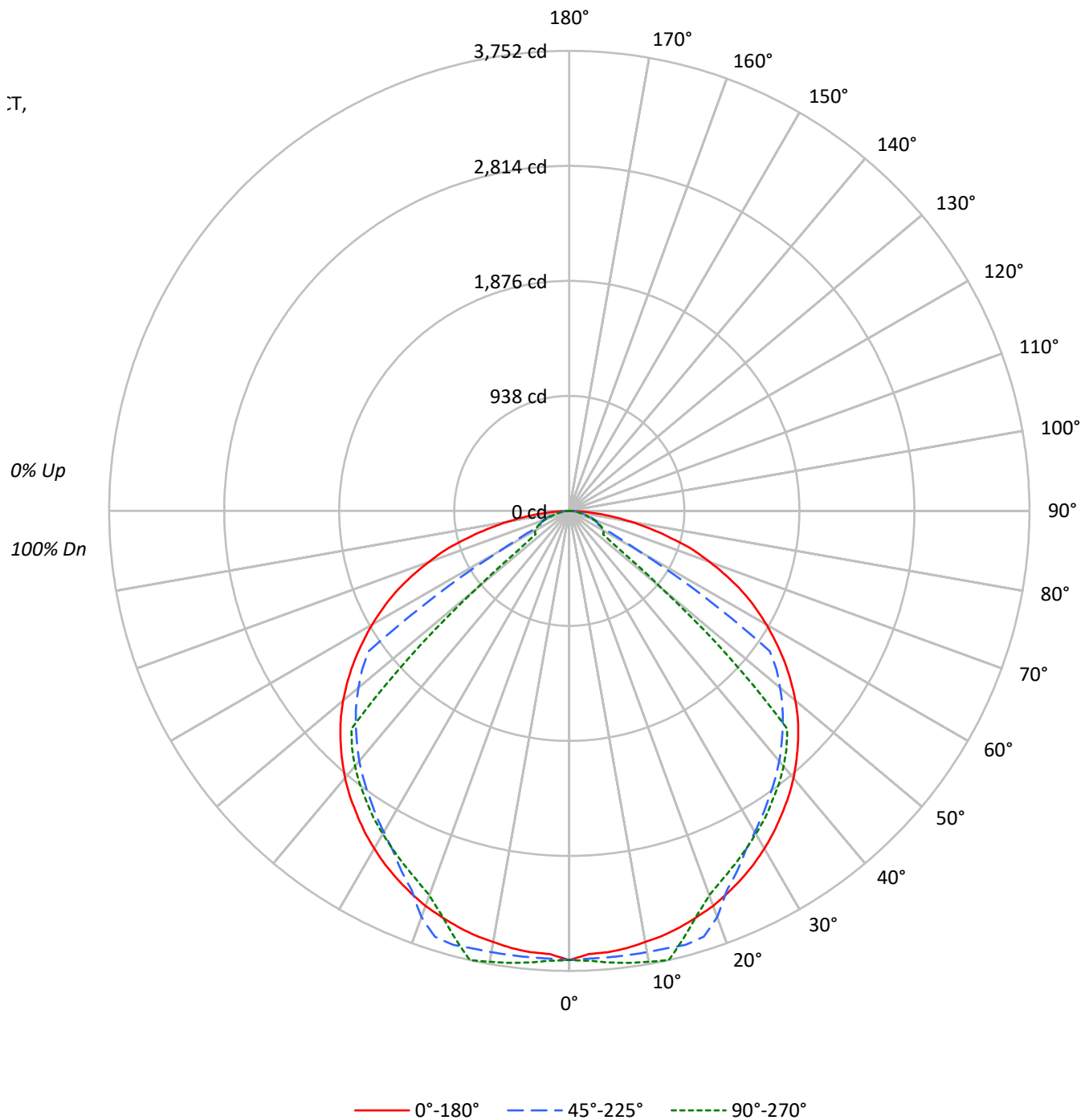
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8935.0 lumens
Efficiency: N/A
Efficacy: 133.6 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°	23722	23722	23722
5°	23485	23758	24031
10°	23481	24033	24558
15°	23545	24559	24165
20°	23624	24290	22986
25°	23683	23143	22753
30°	23780	22617	22743
35°	23878	22484	22816
40°	24042	22515	22977
45°	24161	22545	23007
50°	24251	22600	9946
55°	24189	22530	3794
60°	24049	8597	4135
65°	23881	3991	4249
70°	23066	4296	3978
75°	21547	4098	3468
80°	18955	3602	2976
85°	14986	3120	2496

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 24251 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	3.9
10°-20°	1015.9	11.4
20°-30°	1515.7	17.0
30°-40°	1837.2	20.6
40°-50°	1881.2	21.1
50°-60°	1251.0	14.0
60°-70°	713.1	8.0
70°-80°	299.6	3.4
80°-90°	71.4	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°	2881.5	32.2
0°-40°	4718.7	52.8
0°-60°	7851.0	87.9
0°-90°	8935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3663	3663	3663	3663	3663	
5°	3613	3684	3655	3663	3697	344
15°	3512	3609	3663	3651	3605	992
25°	3315	3474	3239	3168	3184	1529
35°	3021	3075	2844	2857	2886	1892
45°	2638	2479	2462	2491	2512	2035
55°	2143	1962	1996	437	336	1913
65°	1559	1395	260	277	277	1534
75°	861	181	164	143	139	914
85°	202	50	42	34	34	242
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3663.4	3663.4	3663.4	3663.4	3663.4
2.5°	3617.2	3692.8	3655.0	3659.2	3671.8
5°	3613.0	3684.4	3655.0	3663.4	3697.0
7.5°	3596.2	3671.8	3655.0	3680.2	3718.0
10°	3571.0	3659.2	3655.0	3697.0	3734.8
12.5°	3545.8	3634.0	3655.0	3718.0	3751.6
15°	3512.2	3608.8	3663.4	3650.8	3604.6
17.5°	3470.2	3583.6	3642.4	3461.8	3457.6
20°	3428.2	3550.0	3524.8	3352.5	3335.7
22.5°	3373.5	3516.4	3352.5	3234.9	3255.9
25°	3314.7	3474.4	3239.1	3167.7	3184.5
27.5°	3251.7	3432.4	3117.3	3092.1	3113.1
30°	3180.3	3373.5	3024.8	3016.4	3041.6
32.5°	3104.7	3260.1	2936.6	2940.8	2970.2
35°	3020.6	3075.3	2844.2	2856.8	2886.2
37.5°	2936.6	2903.0	2756.0	2777.0	2806.4
40°	2844.2	2768.6	2663.5	2684.5	2718.2
42.5°	2743.4	2625.7	2562.7	2592.1	2621.5
45°	2638.3	2478.7	2461.9	2491.3	2512.3
47.5°	2529.1	2352.7	2356.9	2377.9	1781.3
50°	2407.3	2226.6	2243.4	1554.4	987.3
52.5°	2277.0	2096.4	2130.0	865.4	499.9
55°	2142.6	1961.9	1995.6	436.9	336.1
57.5°	1999.8	1827.5	1302.4	315.1	331.9
60°	1856.9	1684.7	663.8	310.9	319.3
62.5°	1709.9	1541.8	315.1	298.3	302.5
65°	1558.6	1394.8	260.5	277.3	277.3
67.5°	1390.6	1239.3	247.9	247.9	243.7
70°	1218.3	1029.3	226.9	214.3	210.1
72.5°	1058.7	394.9	197.5	176.4	172.2
75°	861.2	180.7	163.8	142.8	138.6
77.5°	684.8	151.2	130.2	113.4	109.2
80°	508.3	117.6	96.6	84.0	79.8
82.5°	352.9	79.8	67.2	54.6	54.6
85°	201.7	50.4	42.0	33.6	33.6
87.5°	79.8	25.2	21.0	12.6	12.6
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	23.93	25.45	24.29	25.76	26.08	11.69	13.21	12.06	13.53	13.84
	3H	25.95	27.31	26.32	27.63	28.00	14.01	15.37	14.39	15.69	16.06
	4H	26.41	27.68	26.81	28.03	28.41	14.72	15.99	15.12	16.34	16.72
	6H	26.82	27.99	27.23	28.36	28.75	15.20	16.38	15.62	16.74	17.14
	8H	26.97	28.08	27.39	28.47	28.87	15.34	16.46	15.77	16.85	17.25
	12H	27.06	28.13	27.49	28.51	28.94	15.43	16.50	15.86	16.88	17.31
4H	2H	23.77	25.04	24.17	25.39	25.77	12.49	13.76	12.89	14.11	14.49
	3H	25.97	27.02	26.38	27.42	27.82	15.00	16.05	15.41	16.45	16.85
	4H	26.42	27.36	26.85	27.77	28.21	15.82	16.76	16.25	17.18	17.62
	6H	26.89	27.70	27.34	28.14	28.60	16.41	17.23	16.87	17.67	18.13
	8H	27.08	27.84	27.54	28.28	28.75	16.58	17.34	17.05	17.79	18.26
	12H	27.23	27.91	27.71	28.39	28.86	16.70	17.38	17.18	17.86	18.33
8H	4H	26.34	27.10	26.80	27.54	28.01	16.66	17.42	17.12	17.87	18.33
	6H	26.80	27.43	27.29	27.92	28.40	17.28	17.91	17.78	18.40	18.88
	8H	27.00	27.56	27.51	28.07	28.56	17.48	18.05	18.00	18.56	19.05
	12H	27.18	27.68	27.69	28.18	28.74	17.64	18.14	18.15	18.63	19.20
12H	4H	26.31	26.99	26.79	27.46	27.94	16.73	17.41	17.21	17.89	18.36
	6H	26.75	27.32	27.27	27.83	28.32	17.38	17.94	17.89	18.45	18.94
	8H	26.97	27.47	27.48	27.97	28.53	17.63	18.13	18.14	18.62	19.19