

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: P895428

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895428
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-CC83-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT, MID lumen setting
Light Source: -
Ballast/Driver: -

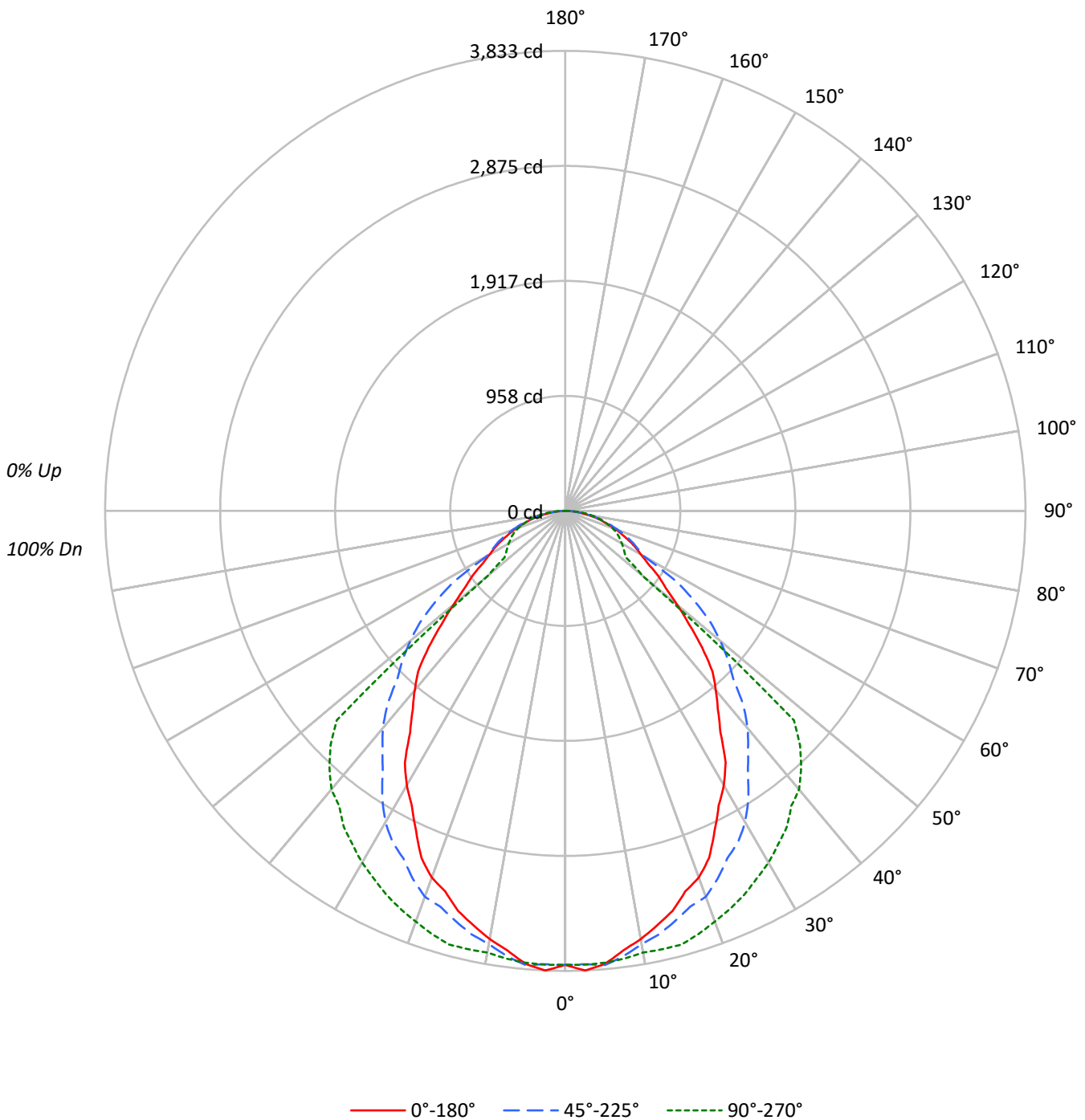
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8072.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

TEST NUMBER: P895428
CATALOG NUMBER: 8TMB-SC3-LVR-UNV-CC83-MID-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P895428
 CATALOG NUMBER: 8TMB-SC3-LVR-UNV-CC83-MID-4000K

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°	13421	13421	13421
5°	13493	13527	13459
10°	13050	13203	13461
15°	12674	12993	13739
20°	12276	12918	13750
25°	11519	12502	13810
30°	10819	12276	13867
35°	9757	11481	13932
40°	9037	10952	14030
45°	8085	9926	13872
50°	6707	9299	4660
55°	5844	8162	3728
60°	5168	5319	3866
65°	4914	5174	4104
70°	4609	4890	4329
75°	4291	4608	4449
80°	3909	4342	4659
85°	3460	3696	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13872 cd/sqm



TEST NUMBER: P895428
 CATALOG NUMBER: 8TMB-SC3-LVR-UNV-CC83-MID-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.8	4.4
10°-20°	1009.3	12.5
20°-30°	1484.7	18.4
30°-40°	1697.9	21.0
40°-50°	1607.8	19.9
50°-60°	885.8	11.0
60°-70°	568.7	7.0
70°-80°	351.0	4.3
80°-90°	108.0	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°	2852.8	35.3
0°-40°	4550.7	56.4
0°-60°	7044.2	87.3
0°-90°	8072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3783	3783	3783	3783	3783	
5°	3788	3819	3798	3798	3779	355
15°	3450	3493	3537	3723	3740	969
25°	2942	3074	3193	3402	3528	1355
35°	2252	2446	2650	3035	3216	1424
45°	1611	1764	1978	2538	2764	1232
55°	945	991	1320	680	603	845
65°	585	605	616	549	489	579
75°	313	319	336	354	324	333
85°	85	85	91	104	124	95
90°	0	0	0	0	0	



TEST NUMBER: P895428

CATALOG NUMBER: 8TMB-SC3-LVR-UNV-CC83-MID-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3782.6	3782.6	3782.6	3782.6	3782.6
2.5°	3832.8	3842.4	3780.6	3778.7	3784.5
5°	3788.3	3819.3	3798.0	3798.0	3778.7
7.5°	3693.7	3745.8	3740.1	3784.5	3763.2
10°	3622.2	3664.7	3664.7	3780.6	3736.2
12.5°	3537.2	3585.5	3612.6	3734.3	3740.1
15°	3450.3	3492.8	3537.2	3722.7	3740.1
17.5°	3324.7	3402.0	3458.0	3639.6	3695.6
20°	3251.3	3297.7	3421.3	3568.1	3641.5
22.5°	3129.6	3197.2	3317.0	3481.2	3589.4
25°	2942.2	3073.6	3193.3	3402.0	3527.5
27.5°	2768.3	2866.9	3114.1	3334.4	3454.1
30°	2640.8	2718.1	2996.3	3235.8	3384.6
32.5°	2486.3	2611.9	2837.9	3139.2	3297.7
35°	2252.5	2445.7	2650.5	3034.9	3216.5
37.5°	2088.3	2221.6	2499.8	2926.7	3094.8
40°	1951.2	2072.9	2364.6	2791.5	3029.1
42.5°	1814.0	1912.5	2194.6	2691.1	2907.4
45°	1611.2	1763.8	1978.2	2538.4	2764.5
47.5°	1398.7	1560.9	1837.2	2409.0	2582.9
50°	1215.1	1344.6	1684.6	2152.1	844.2
52.5°	1054.8	1174.6	1522.3	778.5	637.5
55°	944.7	991.0	1319.5	680.0	602.7
57.5°	813.3	888.6	1106.9	647.2	571.8
60°	728.3	761.1	749.6	614.3	544.8
62.5°	660.7	683.9	680.0	581.5	513.9
65°	585.3	604.7	616.3	548.6	488.8
67.5°	510.0	527.4	544.8	508.1	454.0
70°	444.3	455.9	471.4	459.8	417.3
72.5°	376.7	390.2	399.9	409.6	369.0
75°	313.0	318.8	336.1	353.5	324.5
77.5°	255.0	260.8	272.4	291.7	276.3
80°	191.3	197.0	212.5	228.0	228.0
82.5°	135.2	139.1	148.8	170.0	179.7
85°	85.0	85.0	90.8	104.3	123.6
87.5°	32.8	32.8	38.6	46.4	61.8
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P895428
 CATALOG NUMBER: 8TMB-SC3-LVR-UNV-CC83-MID-4000K

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	16.97	18.45	17.34	18.77	19.08	14.78	16.26	15.14	16.57	16.89
	3H	18.50	19.82	18.88	20.15	20.52	17.11	18.43	17.48	18.76	19.12
	4H	19.09	20.33	19.49	20.68	21.06	18.06	19.30	18.46	19.65	20.03
	6H	19.55	20.69	19.96	21.06	21.45	18.84	19.99	19.25	20.35	20.75
	8H	19.69	20.78	20.12	21.17	21.58	19.15	20.24	19.58	20.63	21.04
	12H	19.79	20.83	20.22	21.22	21.65	19.40	20.44	19.83	20.83	21.26
4H	2H	17.52	18.77	17.92	19.11	19.49	15.88	17.12	16.28	17.47	17.85
	3H	19.29	20.32	19.71	20.72	21.13	18.32	19.35	18.74	19.75	20.16
	4H	20.01	20.94	20.45	21.36	21.80	19.39	20.32	19.82	20.73	21.17
	6H	20.60	21.41	21.06	21.85	22.31	20.28	21.08	20.74	21.53	21.99
	8H	20.79	21.54	21.25	21.99	22.46	20.63	21.38	21.09	21.83	22.30
	12H	20.93	21.60	21.41	22.08	22.55	20.92	21.59	21.40	22.07	22.54
8H	4H	20.32	21.08	20.79	21.52	21.99	19.78	20.53	20.24	20.97	21.44
	6H	21.03	21.66	21.53	22.15	22.63	20.81	21.44	21.31	21.93	22.41
	8H	21.29	21.86	21.81	22.37	22.86	21.26	21.82	21.77	22.33	22.82
	12H	21.50	22.00	22.01	22.49	23.06	21.64	22.14	22.15	22.63	23.20
12H	4H	20.36	21.03	20.84	21.51	21.98	19.81	20.49	20.30	20.96	21.44
	6H	21.10	21.66	21.61	22.17	22.66	20.88	21.44	21.39	21.95	22.44
	8H	21.42	21.92	21.93	22.41	22.97	21.39	21.88	21.90	22.38	22.94