

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: P895464

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-LVRF-UNV-CC83-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

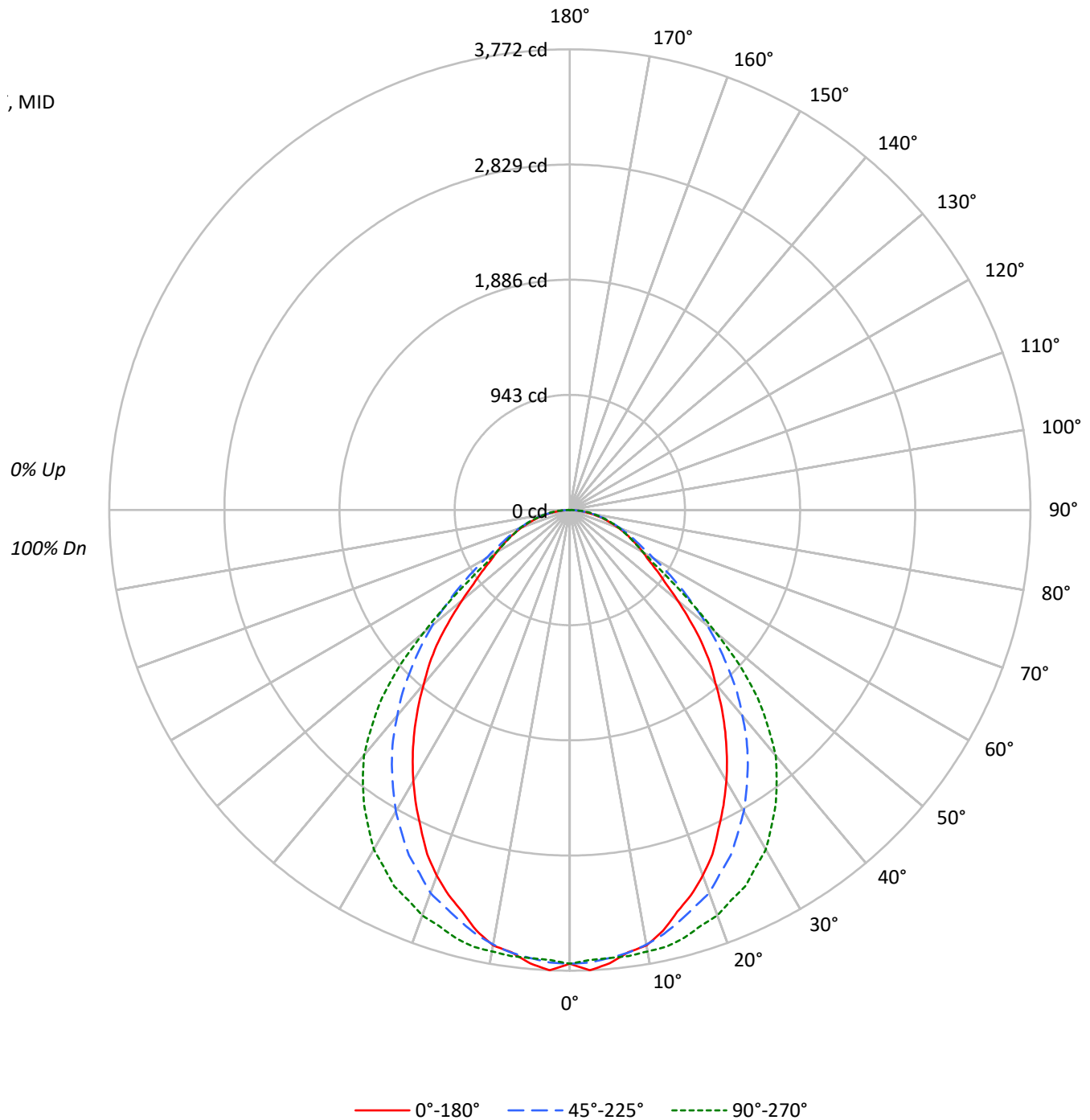
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7719.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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 (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	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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13178	13178	13178
5°	13269	13118	13118
10°	13040	13019	13221
15°	12501	12792	13316
20°	12025	12602	13338
25°	11281	12211	13308
30°	10500	11672	13151
35°	9612	11009	12732
40°	8606	10180	12148
45°	7637	9216	10922
50°	6354	8113	8614
55°	5412	6834	6260
60°	4906	5647	4948
65°	4621	4946	4605
70°	4348	4588	4488
75°	4051	4369	4290
80°	3709	4025	4144
85°	3224	3538	4641

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10922 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.6	4.6
10°-20°	989.5	12.8
20°-30°	1436.9	18.6
30°-40°	1600.1	20.7
40°-50°	1413.6	18.3
50°-60°	927.6	12.0
60°-70°	568.0	7.4
70°-80°	330.5	4.3
80°-90°	101.2	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°	2778.0	36.0
0°-40°	4378.0	56.7
0°-60°	6719.2	87.0
0°-90°	7719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3714	3714	3714	3714	3714	
5°	3726	3728	3683	3720	3683	351
15°	3403	3442	3482	3619	3625	960
25°	2882	2951	3119	3318	3399	1326
35°	2219	2339	2542	2810	2940	1384
45°	1522	1615	1837	2084	2177	1164
55°	875	937	1105	1095	1012	794
65°	550	560	589	572	548	547
75°	296	299	319	324	313	313
85°	79	83	87	98	114	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3714.0	3714.0	3714.0	3714.0	3714.0
2.5°	3772.0	3725.6	3708.2	3725.6	3687.0
5°	3725.6	3727.5	3683.1	3719.8	3683.1
7.5°	3652.2	3677.3	3656.1	3712.1	3683.1
10°	3619.4	3621.3	3613.6	3671.5	3669.6
12.5°	3528.6	3534.4	3555.7	3642.6	3661.9
15°	3403.1	3441.7	3482.3	3619.4	3625.2
17.5°	3304.6	3350.9	3405.0	3551.8	3569.2
20°	3184.8	3204.1	3337.4	3466.8	3532.5
22.5°	3051.6	3088.3	3217.7	3391.5	3457.2
25°	2881.6	2951.1	3119.2	3318.1	3399.2
27.5°	2725.2	2806.3	2980.1	3202.2	3296.9
30°	2562.9	2655.6	2848.8	3067.0	3209.9
32.5°	2394.9	2510.8	2694.3	2945.3	3070.9
35°	2219.1	2338.9	2541.7	2810.1	2939.5
37.5°	2043.4	2159.3	2379.5	2667.2	2783.1
40°	1858.0	1971.9	2197.9	2489.5	2622.8
42.5°	1697.7	1796.2	2027.9	2277.1	2400.7
45°	1521.9	1614.6	1836.7	2084.0	2176.7
47.5°	1328.8	1436.9	1653.3	1856.0	1892.7
50°	1151.1	1263.1	1469.8	1587.6	1560.5
52.5°	994.7	1089.3	1278.6	1328.8	1265.0
55°	874.9	936.7	1104.7	1095.1	1012.0
57.5°	764.8	803.5	946.4	892.3	813.1
60°	691.4	708.8	795.7	745.5	697.2
62.5°	621.9	629.6	676.0	648.9	612.2
65°	550.4	560.1	589.1	571.7	548.5
67.5°	484.8	488.6	515.7	511.8	482.8
70°	419.1	424.9	442.3	450.0	432.6
72.5°	355.4	361.2	378.5	386.3	370.8
75°	295.5	299.4	318.7	324.5	312.9
77.5°	237.6	245.3	256.9	266.5	253.0
80°	181.5	185.4	197.0	208.6	202.8
82.5°	127.5	133.3	141.0	156.4	160.3
85°	79.2	83.0	86.9	98.5	114.0
87.5°	30.9	32.8	38.6	42.5	56.0
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	16.49	17.97	16.85	18.28	18.60	17.14	18.62	17.51	18.93	19.25
	3H	18.09	19.42	18.47	19.74	20.11	18.58	19.90	18.95	20.23	20.59
	4H	18.71	19.95	19.11	20.30	20.68	19.18	20.42	19.58	20.77	21.15
	6H	19.18	20.32	19.59	20.69	21.08	19.67	20.81	20.08	21.18	21.57
	8H	19.33	20.42	19.76	20.81	21.21	19.86	20.96	20.29	21.35	21.75
	12H	19.43	20.47	19.86	20.86	21.29	20.03	21.08	20.46	21.46	21.89
4H	2H	17.11	18.35	17.51	18.70	19.08	17.63	18.88	18.03	19.23	19.60
	3H	18.93	19.96	19.34	20.36	20.76	19.33	20.36	19.74	20.76	21.16
	4H	19.67	20.59	20.10	21.01	21.45	20.08	21.01	20.52	21.43	21.87
	6H	20.27	21.07	20.73	21.52	21.98	20.72	21.52	21.18	21.97	22.43
	8H	20.46	21.22	20.93	21.66	22.13	20.97	21.73	21.44	22.17	22.64
	12H	20.61	21.28	21.09	21.76	22.23	21.20	21.87	21.68	22.35	22.82
8H	4H	19.99	20.74	20.45	21.18	21.65	20.35	21.11	20.82	21.55	22.02
	6H	20.71	21.33	21.21	21.83	22.30	21.13	21.75	21.63	22.24	22.72
	8H	20.98	21.54	21.50	22.06	22.54	21.47	22.03	21.99	22.55	23.03
	12H	21.20	21.70	21.71	22.19	22.76	21.79	22.29	22.30	22.78	23.35
12H	4H	20.02	20.69	20.51	21.17	21.65	20.37	21.05	20.86	21.53	22.00
	6H	20.78	21.34	21.29	21.85	22.34	21.18	21.74	21.69	22.25	22.74
	8H	21.11	21.61	21.62	22.10	22.66	21.58	22.08	22.09	22.57	23.14