

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: P895474

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895474
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-CC93-MID-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 5000K CCT
lumen setting
Light Source: -
Ballast/Driver: -

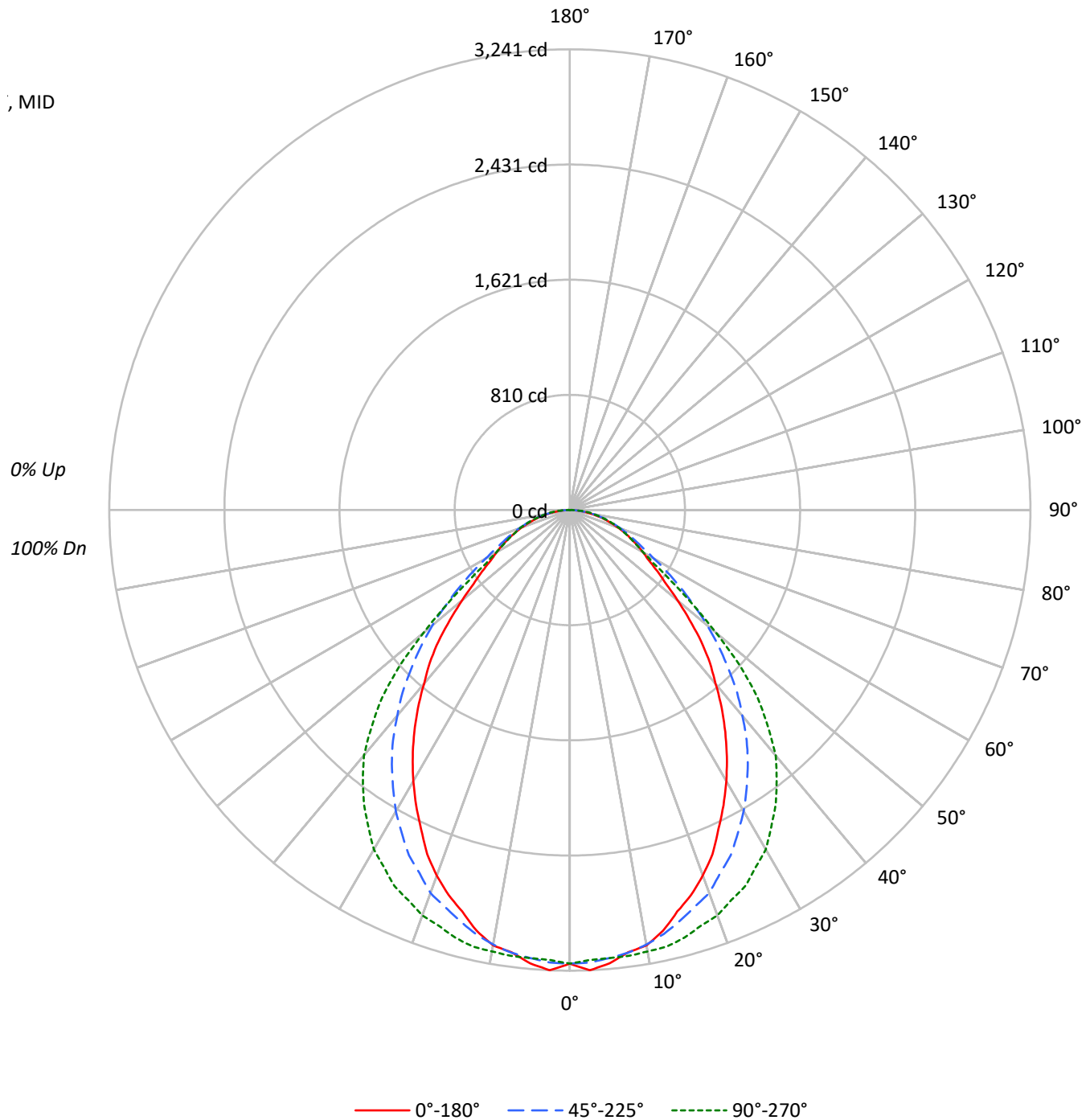
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6632.0 lumens
Efficiency: N/A
Efficacy: 99.1 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°	11322	11322	11322
5°	11401	11271	11271
10°	11204	11186	11359
15°	10740	10990	11441
20°	10332	10827	11460
25°	9693	10492	11434
30°	9022	10028	11299
35°	8258	9459	10940
40°	7394	8747	10438
45°	6561	7919	9384
50°	5459	6971	7401
55°	4650	5872	5379
60°	4216	4852	4251
65°	3970	4249	3957
70°	3736	3942	3856
75°	3481	3754	3685
80°	3188	3459	3559
85°	2768	3041	3986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	4.6
10°-20°	850.1	12.8
20°-30°	1234.5	18.6
30°-40°	1374.7	20.7
40°-50°	1214.5	18.3
50°-60°	797.0	12.0
60°-70°	488.0	7.4
70°-80°	284.0	4.3
80°-90°	87.0	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°	2386.8	36.0
0°-40°	3761.5	56.7
0°-60°	5773.0	87.0
0°-90°	6632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3191	3191	3191	3191	3191	
5°	3201	3203	3164	3196	3164	302
15°	2924	2957	2992	3110	3115	825
25°	2476	2536	2680	2851	2920	1139
35°	1907	2010	2184	2414	2526	1189
45°	1308	1387	1578	1790	1870	1000
55°	752	805	949	941	870	682
65°	473	481	506	491	471	470
75°	254	257	274	279	269	269
85°	68	71	75	85	98	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3191.0	3191.0	3191.0	3191.0	3191.0
2.5°	3240.8	3201.0	3186.0	3201.0	3167.8
5°	3201.0	3202.6	3164.5	3196.0	3164.5
7.5°	3137.9	3159.5	3141.2	3189.4	3164.5
10°	3109.7	3111.4	3104.7	3154.5	3152.8
12.5°	3031.7	3036.7	3054.9	3129.6	3146.2
15°	2923.9	2957.0	2991.9	3109.7	3114.7
17.5°	2839.2	2879.0	2925.5	3051.6	3066.6
20°	2736.3	2752.9	2867.4	2978.6	3035.0
22.5°	2621.8	2653.4	2764.6	2913.9	2970.3
25°	2475.8	2535.6	2679.9	2850.8	2920.5
27.5°	2341.4	2411.1	2560.4	2751.3	2832.6
30°	2202.0	2281.7	2447.6	2635.1	2757.9
32.5°	2057.6	2157.2	2314.9	2530.6	2638.4
35°	1906.6	2009.5	2183.8	2414.4	2525.6
37.5°	1755.6	1855.2	2044.4	2291.6	2391.2
40°	1596.3	1694.2	1888.4	2139.0	2253.5
42.5°	1458.6	1543.2	1742.4	1956.4	2062.6
45°	1307.6	1387.3	1578.1	1790.5	1870.1
47.5°	1141.7	1234.6	1420.4	1594.7	1626.2
50°	989.0	1085.2	1262.8	1364.0	1340.8
52.5°	854.6	935.9	1098.5	1141.7	1086.9
55°	751.7	804.8	949.2	940.9	869.5
57.5°	657.1	690.3	813.1	766.6	698.6
60°	594.1	609.0	683.7	640.5	599.0
62.5°	534.3	541.0	580.8	557.6	526.0
65°	472.9	481.2	506.1	491.2	471.3
67.5°	416.5	419.8	443.1	439.7	414.8
70°	360.1	365.1	380.0	386.6	371.7
72.5°	305.3	310.3	325.2	331.9	318.6
75°	253.9	257.2	273.8	278.8	268.8
77.5°	204.1	210.7	220.7	229.0	217.4
80°	156.0	159.3	169.3	179.2	174.2
82.5°	109.5	114.5	121.1	134.4	137.7
85°	68.0	71.4	74.7	84.6	97.9
87.5°	26.6	28.2	33.2	36.5	48.1
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	15.96	17.44	16.33	17.76	18.07	16.61	18.09	16.98	18.41	18.72
	3H	17.56	18.89	17.94	19.22	19.58	18.05	19.37	18.43	19.70	20.06
	4H	18.18	19.42	18.58	19.77	20.15	18.65	19.90	19.05	20.24	20.62
	6H	18.65	19.80	19.06	20.16	20.56	19.14	20.29	19.55	20.65	21.05
	8H	18.80	19.89	19.23	20.28	20.68	19.34	20.43	19.76	20.82	21.22
	12H	18.90	19.95	19.33	20.33	20.76	19.50	20.55	19.94	20.93	21.36
4H	2H	16.58	17.83	16.98	18.17	18.55	17.11	18.35	17.51	18.70	19.08
	3H	18.40	19.43	18.81	19.83	20.23	18.80	19.83	19.21	20.23	20.63
	4H	19.14	20.07	19.57	20.48	20.92	19.56	20.48	19.99	20.90	21.34
	6H	19.74	20.54	20.20	20.99	21.45	20.19	21.00	20.65	21.44	21.90
	8H	19.94	20.69	20.40	21.13	21.60	20.45	21.20	20.91	21.64	22.11
	12H	20.08	20.75	20.56	21.23	21.70	20.67	21.34	21.15	21.82	22.29
8H	4H	19.46	20.21	19.92	20.66	21.13	19.83	20.58	20.29	21.02	21.49
	6H	20.18	20.81	20.68	21.30	21.78	20.60	21.22	21.10	21.72	22.19
	8H	20.46	21.02	20.97	21.53	22.02	20.95	21.51	21.46	22.02	22.51
	12H	20.67	21.17	21.19	21.66	22.23	21.26	21.76	21.77	22.25	22.82
12H	4H	19.49	20.17	19.98	20.65	21.12	19.85	20.52	20.33	21.00	21.47
	6H	20.25	20.81	20.76	21.32	21.81	20.65	21.21	21.16	21.72	22.21
	8H	20.58	21.08	21.09	21.57	22.14	21.05	21.55	21.56	22.04	22.61