

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: P895378

Luminaire Tested: 8TMB-SC3-ASYMR-UNV-CC93-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ASYMR-UNV-CC93-HI-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

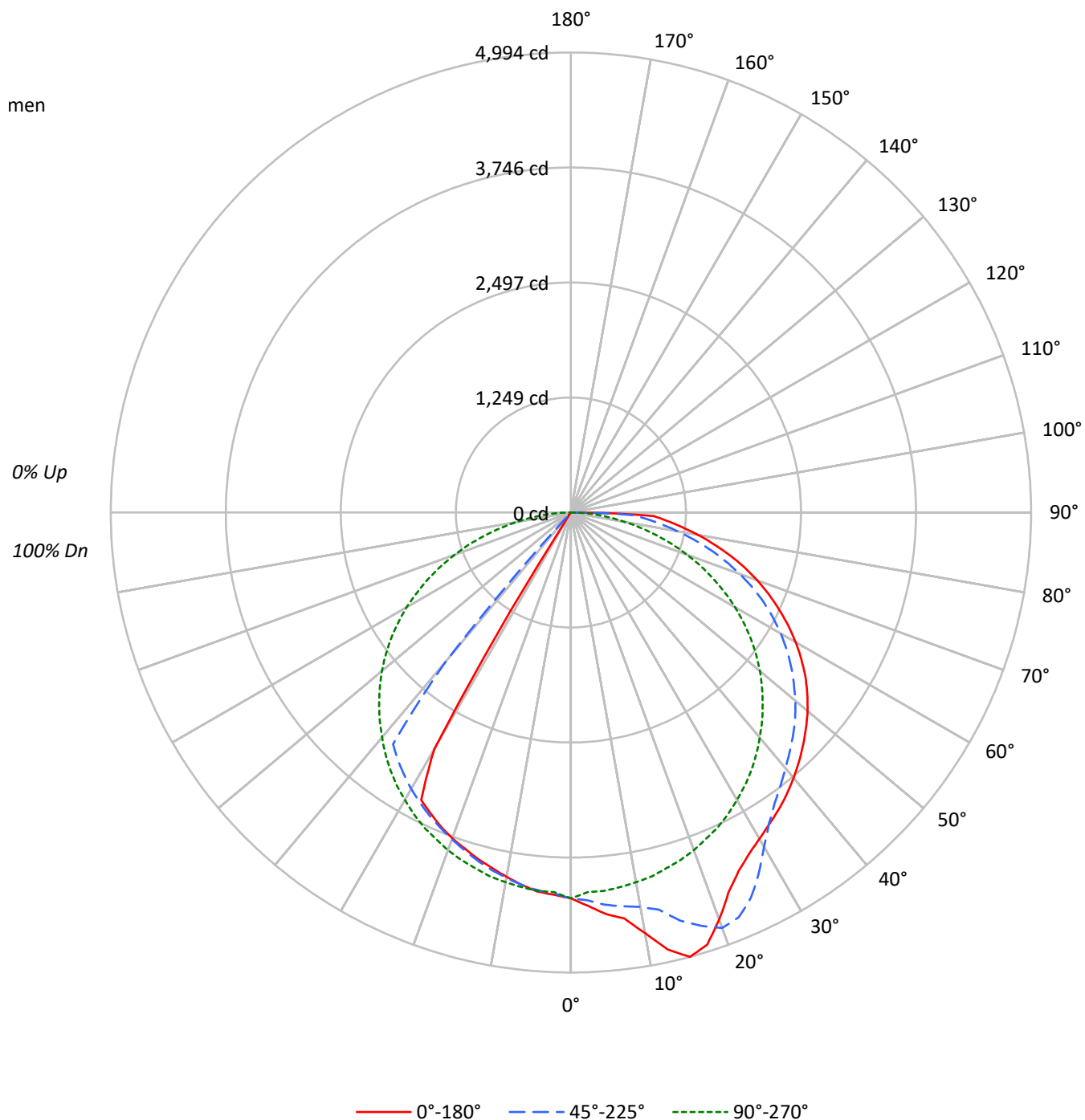
Lumens per Lamp: N/A
Luminaire Lumens: 11332.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 101.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.39961257980444
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50		
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39		
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	35		
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	27121	27121	27121	27121	27121
5°	28441	27786	26804	26757	26851
10°	30473	28581	26798	26483	26404
15°	33481	30747	26807	26229	26100
20°	32416	33077	26878	26018	25936
25°	30714	33010	26943	25932	25743
30°	30582	31335	26940	25900	22169
35°	31099	30473	26984	25903	304
40°	31774	30619	26948	17865	203
45°	32643	31238	26954	330	132
50°	33783	32019	26969	242	48
55°	35071	32932	26892	163	27
60°	36472	34049	26656	62	31
65°	38189	35396	26170	74	74
70°	40738	36878	25342	91	91
75°	44592	39250	24246	240	120
80°	52330	43921	22453	358	179
85°	77886	61667	21034	535	357

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 87.5°

Luminance: 133549 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.4	3.5
10°-20°	1198.3	10.6
20°-30°	1842.0	16.3
30°-40°	1974.1	17.4
40°-50°	1792.9	15.8
50°-60°	1635.4	14.4
60°-70°	1216.6	10.7
70°-80°	856.3	7.6
80°-90°	414.9	3.7
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°	3441.7	30.4
0°-40°	5415.9	47.8
0°-60°	8844.2	78.0
0°-90°	11332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11332.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4188	4188	4188	4188	4188	
5°	4375	4275	4124	4116	4131	424
15°	4994	4586	3999	3912	3893	1379
25°	4299	4620	3771	3629	3603	1999
35°	3934	3855	3414	3277	38	2464
45°	3565	3411	2943	36	14	2754
55°	3106	2917	2382	14	2	2774
65°	2492	2310	1708	5	5	2468
75°	1782	1569	969	10	5	1879
85°	1048	830	283	7	5	1053
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3
2.5°	4274.7	4226.7	4214.7	4248.3	4126.0	4207.5	4140.4	4154.7	4154.7
5°	4375.4	4308.3	4274.7	4265.1	4123.6	4178.7	4116.4	4116.4	4130.8
7.5°	4445.0	4370.6	4310.7	4286.7	4102.0	4150.0	4078.0	4078.0	4078.0
10°	4634.5	4495.4	4346.7	4303.5	4075.6	4111.6	4027.6	4032.4	4015.6
12.5°	4857.6	4732.9	4416.2	4296.3	4046.8	4063.6	3974.8	3972.4	3953.2
15°	4994.3	4900.8	4586.5	4286.7	3998.8	4013.2	3912.5	3905.3	3893.3
17.5°	4917.6	4903.2	4704.1	4279.5	3955.6	3943.7	3842.9	3835.7	3826.1
20°	4704.1	4740.1	4800.0	4265.1	3900.5	3876.5	3775.7	3770.9	3763.7
22.5°	4466.6	4502.6	4756.9	4289.1	3833.3	3804.5	3703.8	3699.0	3689.4
25°	4298.7	4298.7	4620.1	4346.7	3770.9	3718.2	3629.4	3622.2	3603.0
27.5°	4181.1	4159.5	4416.2	4411.4	3691.8	3631.8	3550.2	3543.1	3519.1
30°	4090.0	4054.0	4190.7	4442.6	3603.0	3538.3	3463.9	3456.7	2964.9
32.5°	4008.4	3970.0	4001.2	4469.0	3514.3	3437.5	3372.7	2406.0	105.5
35°	3934.1	3890.9	3854.9	4449.8	3413.5	3336.8	3276.8	69.6	38.4
37.5°	3850.1	3816.5	3735.0	4349.1	3305.6	3228.8	3171.2	38.4	33.6
40°	3758.9	3727.8	3622.2	4200.3	3188.0	3123.3	2113.4	33.6	24.0
42.5°	3665.4	3641.4	3516.7	3984.4	3070.5	3005.7	67.2	26.4	19.2
45°	3564.6	3543.1	3411.1	3723.0	2943.3	2883.4	36.0	19.2	14.4
47.5°	3461.5	3430.3	3300.8	3442.3	2813.8	2753.8	31.2	14.4	9.6
50°	3353.5	3320.0	3178.4	3195.2	2677.1	2617.1	24.0	9.6	4.8
52.5°	3233.6	3192.8	3048.9	2972.1	2533.2	2478.0	19.2	4.8	2.4
55°	3106.5	3060.9	2917.0	2777.8	2382.0	2319.7	14.4	4.8	2.4
57.5°	2964.9	2914.6	2777.8	2593.1	2221.3	1568.8	9.6	4.8	2.4
60°	2816.2	2765.8	2629.1	2420.4	2058.2	107.9	4.8	4.8	2.4
62.5°	2657.9	2605.1	2473.2	2245.3	1883.1	88.8	4.8	4.8	4.8
65°	2492.4	2430.0	2310.1	2065.4	1708.0	74.4	4.8	4.8	4.8
67.5°	2326.9	2247.7	2134.9	1880.7	1528.0	62.4	4.8	4.8	4.8
70°	2151.7	2065.4	1947.8	1693.6	1338.5	50.4	4.8	4.8	4.8
72.5°	1971.8	1887.9	1760.7	1504.1	1161.0	38.4	4.8	4.8	4.8
75°	1782.3	1705.6	1568.8	1314.6	969.1	28.8	9.6	4.8	4.8
77.5°	1585.6	1525.6	1372.1	1120.2	782.0	19.2	9.6	4.8	4.8
80°	1403.3	1336.1	1177.8	923.5	602.1	14.4	9.6	7.2	4.8
82.5°	1216.2	1156.2	997.9	743.6	431.8	12.0	9.6	7.2	4.8
85°	1048.3	990.7	830.0	580.5	283.1	9.6	7.2	7.2	4.8
87.5°	899.6	846.8	688.5	424.6	160.7	7.2	7.2	7.2	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)