

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: P895377

Luminaire Tested: 8TMB-SC3-ASYMR-UNV-CC93-HI-4000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895377
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-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 90CRI, 4000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

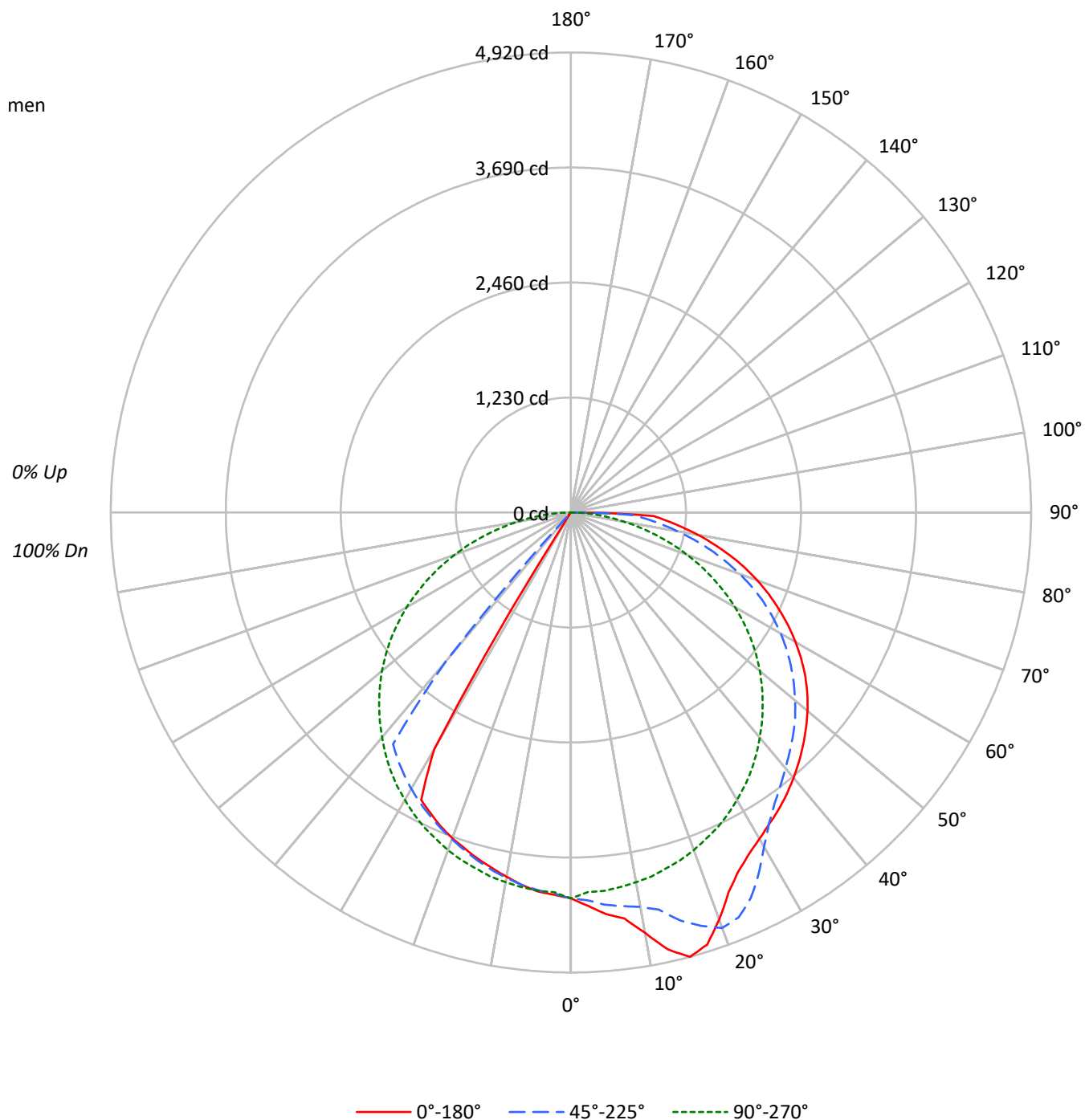
Lumens per Lamp: N/A
Luminaire Lumens: 11163.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

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°	26717	26717	26717	26717	26717
5°	28017	27372	26404	26358	26451
10°	30019	28154	26399	26088	26010
15°	32982	30289	26408	25837	25711
20°	31932	32584	26477	25630	25549
25°	30256	32518	26541	25545	25359
30°	30126	30867	26539	25514	21839
35°	30635	30019	26582	25517	299
40°	31301	30162	26547	17598	199
45°	32157	30772	26553	324	130
50°	33280	31542	26567	238	47
55°	34547	32441	26491	160	27
60°	35928	33542	26258	61	31
65°	37619	34867	25780	72	72
70°	40130	36329	24965	89	89
75°	43926	38665	23886	238	118
80°	51551	43268	22117	354	175
85°	76720	60746	20714	528	349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 87.5°

Luminance: 131545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.4	3.5
10°-20°	1180.5	10.6
20°-30°	1814.6	16.3
30°-40°	1944.7	17.4
40°-50°	1766.2	15.8
50°-60°	1611.0	14.4
60°-70°	1198.5	10.7
70°-80°	843.6	7.6
80°-90°	408.7	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°	3390.4	30.4
0°-40°	5335.1	47.8
0°-60°	8712.3	78.0
0°-90°	11163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11163.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4126	4126	4126	4126	4126	
5°	4310	4211	4062	4055	4069	417
15°	4920	4518	3939	3854	3835	1358
25°	4235	4551	3715	3575	3549	1969
35°	3875	3797	3363	3228	38	2428
45°	3512	3360	2900	35	14	2713
55°	3060	2874	2346	14	2	2733
65°	2455	2276	1682	5	5	2431
75°	1756	1545	955	10	5	1851
85°	1033	818	279	7	5	1037
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°	4125.9	4125.9	4125.9	4125.9	4125.9	4125.9	4125.9	4125.9	4125.9
2.5°	4210.9	4163.7	4151.9	4184.9	4064.4	4144.8	4078.6	4092.8	4092.8
5°	4310.2	4244.0	4210.9	4201.5	4062.1	4116.4	4055.0	4055.0	4069.2
7.5°	4378.7	4305.5	4246.4	4222.8	4040.8	4088.1	4017.2	4017.2	4017.2
10°	4565.4	4428.3	4281.8	4239.3	4014.8	4050.3	3967.5	3972.3	3955.7
12.5°	4785.2	4662.3	4350.4	4232.2	3986.5	4003.0	3915.6	3913.2	3894.3
15°	4919.9	4827.7	4518.1	4222.8	3939.2	3953.4	3854.1	3847.0	3835.2
17.5°	4844.2	4830.1	4633.9	4215.7	3896.7	3884.8	3785.6	3778.5	3769.1
20°	4633.9	4669.4	4728.4	4201.5	3842.3	3818.7	3719.4	3714.7	3707.6
22.5°	4400.0	4435.4	4685.9	4225.1	3776.1	3747.8	3648.5	3643.8	3634.4
25°	4234.6	4234.6	4551.2	4281.8	3714.7	3662.7	3575.3	3568.2	3549.3
27.5°	4118.8	4097.5	4350.4	4345.6	3636.7	3577.6	3497.3	3490.2	3466.6
30°	4029.0	3993.5	4128.2	4376.4	3549.3	3485.5	3412.2	3405.1	2920.7
32.5°	3948.6	3910.8	3941.6	4402.3	3461.9	3386.2	3322.4	2370.1	104.0
35°	3875.4	3832.9	3797.4	4383.4	3362.6	3287.0	3227.9	68.5	37.8
37.5°	3792.7	3759.6	3679.3	4284.2	3256.3	3180.7	3123.9	37.8	33.1
40°	3702.9	3672.2	3568.2	4137.7	3140.5	3076.7	2081.8	33.1	23.6
42.5°	3610.7	3587.1	3464.2	3925.0	3024.7	2960.9	66.2	26.0	18.9
45°	3511.5	3490.2	3360.2	3667.4	2899.5	2840.4	35.4	18.9	14.2
47.5°	3409.9	3379.1	3251.5	3391.0	2771.8	2712.8	30.7	14.2	9.5
50°	3303.5	3270.4	3131.0	3147.6	2637.2	2578.1	23.6	9.5	4.7
52.5°	3185.4	3145.2	3003.4	2927.8	2495.4	2441.0	18.9	4.7	2.4
55°	3060.1	3015.2	2873.5	2736.4	2346.5	2285.1	14.2	4.7	2.4
57.5°	2920.7	2871.1	2736.4	2554.4	2188.2	1545.4	9.5	4.7	2.4
60°	2774.2	2724.6	2589.9	2384.3	2027.5	106.3	4.7	4.7	2.4
62.5°	2618.3	2566.3	2436.3	2211.8	1855.0	87.4	4.7	4.7	4.7
65°	2455.2	2393.8	2275.6	2034.6	1682.5	73.3	4.7	4.7	4.7
67.5°	2292.2	2214.2	2103.1	1852.6	1505.3	61.4	4.7	4.7	4.7
70°	2119.6	2034.6	1918.8	1668.3	1318.6	49.6	4.7	4.7	4.7
72.5°	1942.4	1859.7	1734.5	1481.6	1143.7	37.8	4.7	4.7	4.7
75°	1755.7	1680.1	1545.4	1294.9	954.7	28.4	9.5	4.7	4.7
77.5°	1562.0	1502.9	1351.7	1103.5	770.4	18.9	9.5	4.7	4.7
80°	1382.4	1316.2	1160.3	909.8	593.1	14.2	9.5	7.1	4.7
82.5°	1198.1	1139.0	983.0	732.5	425.3	11.8	9.5	7.1	4.7
85°	1032.6	975.9	817.6	571.9	278.8	9.5	7.1	7.1	4.7
87.5°	886.1	834.2	678.2	418.3	158.3	7.1	7.1	7.1	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)