

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: P895374

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895374
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-CC83-MID-4000K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 4000K CCT, MID setting
Light Source: -
Ballast/Driver: -

Summary

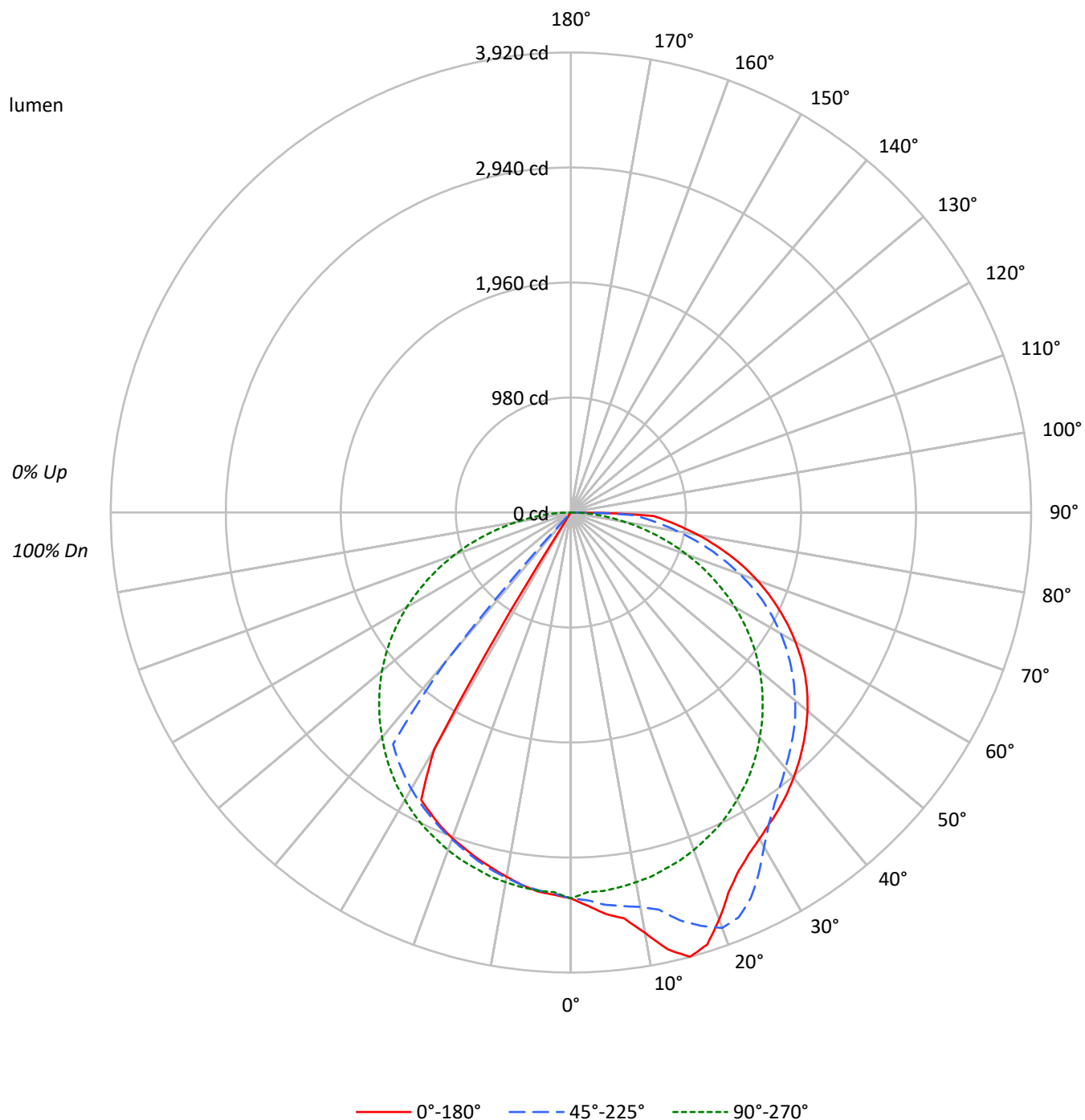
Lumens per Lamp: N/A
Luminaire Lumens: 8894.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 66.9
Input Voltage (V):
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
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°	21286	21286	21286	21286	21286
5°	22322	21808	21037	21001	21074
10°	23917	22432	21033	20785	20724
15°	26278	24133	21040	20586	20485
20°	25442	25961	21096	20421	20356
25°	24105	25908	21146	20353	20205
30°	24003	24593	21145	20328	17400
35°	24408	23917	21178	20330	238
40°	24938	24031	21151	14021	159
45°	25620	24517	21155	258	103
50°	26516	25131	21167	189	38
55°	27525	25846	21106	128	21
60°	28625	26724	20921	49	25
65°	29973	27781	20539	58	58
70°	31974	28945	19891	72	72
75°	34999	30806	19030	188	95
80°	41072	34471	17624	280	142
85°	61132	48397	16509	416	282

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 87.5°

Luminance: 104808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	3.5
10°-20°	940.5	10.6
20°-30°	1445.7	16.3
30°-40°	1549.4	17.4
40°-50°	1407.2	15.8
50°-60°	1283.6	14.4
60°-70°	954.9	10.7
70°-80°	672.1	7.6
80°-90°	325.6	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°	2701.3	30.4
0°-40°	4250.7	47.8
0°-60°	6941.4	78.0
0°-90°	8894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8894.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3287	3287	3287	3287	3287	
5°	3434	3355	3236	3231	3242	333
15°	3920	3600	3138	3071	3056	1082
25°	3374	3626	2960	2849	2828	1569
35°	3088	3026	2679	2572	30	1934
45°	2798	2677	2310	28	11	2162
55°	2438	2289	1870	11	2	2177
65°	1956	1813	1340	4	4	1937
75°	1399	1231	761	8	4	1475
85°	823	651	222	6	4	827
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°	3287.2	3287.2	3287.2	3287.2	3287.2	3287.2	3287.2	3287.2	3287.2
2.5°	3355.0	3317.4	3308.0	3334.3	3238.3	3302.3	3249.6	3260.9	3260.9
5°	3434.1	3381.4	3355.0	3347.5	3236.4	3279.7	3230.8	3230.8	3242.1
7.5°	3488.7	3430.3	3383.3	3364.4	3219.5	3257.1	3200.6	3200.6	3200.6
10°	3637.4	3528.2	3411.5	3377.6	3198.8	3227.0	3161.1	3164.9	3151.7
12.5°	3812.5	3714.6	3466.1	3372.0	3176.2	3189.3	3119.7	3117.8	3102.7
15°	3919.8	3846.4	3599.8	3364.4	3138.5	3149.8	3070.7	3065.1	3055.7
17.5°	3859.6	3848.3	3692.0	3358.8	3104.6	3095.2	3016.1	3010.5	3003.0
20°	3692.0	3720.3	3767.3	3347.5	3061.3	3042.5	2963.4	2959.6	2954.0
22.5°	3505.6	3533.9	3733.4	3366.3	3008.6	2986.0	2906.9	2903.2	2895.6
25°	3373.8	3373.8	3626.1	3411.5	2959.6	2918.2	2848.6	2842.9	2827.9
27.5°	3281.6	3264.7	3466.1	3462.3	2897.5	2850.5	2786.4	2780.8	2762.0
30°	3210.1	3181.8	3289.1	3486.8	2827.9	2777.0	2718.7	2713.0	2327.1
32.5°	3146.0	3115.9	3140.4	3507.5	2758.2	2697.9	2647.1	1888.4	82.8
35°	3087.7	3053.8	3025.5	3492.5	2679.1	2618.9	2571.8	54.6	30.1
37.5°	3021.8	2995.4	2931.4	3413.4	2594.4	2534.2	2489.0	30.1	26.4
40°	2950.2	2925.8	2842.9	3296.7	2502.1	2451.3	1658.7	26.4	18.8
42.5°	2876.8	2858.0	2760.1	3127.2	2409.9	2359.1	52.7	20.7	15.1
45°	2797.7	2780.8	2677.2	2922.0	2310.1	2263.0	28.2	15.1	11.3
47.5°	2716.8	2692.3	2590.6	2701.7	2208.4	2161.4	24.5	11.3	7.5
50°	2632.1	2605.7	2494.6	2507.8	2101.1	2054.1	18.8	7.5	3.8
52.5°	2537.9	2505.9	2392.9	2332.7	1988.2	1944.9	15.1	3.8	1.9
55°	2438.1	2402.4	2289.4	2180.2	1869.5	1820.6	11.3	3.8	1.9
57.5°	2327.1	2287.5	2180.2	2035.2	1743.4	1231.3	7.5	3.8	1.9
60°	2210.3	2170.8	2063.5	1899.7	1615.4	84.7	3.8	3.8	1.9
62.5°	2086.1	2044.6	1941.1	1762.2	1477.9	69.7	3.8	3.8	3.8
65°	1956.2	1907.2	1813.1	1621.0	1340.5	58.4	3.8	3.8	3.8
67.5°	1826.2	1764.1	1675.6	1476.1	1199.3	49.0	3.8	3.8	3.8
70°	1688.8	1621.0	1528.8	1329.2	1050.6	39.5	3.8	3.8	3.8
72.5°	1547.6	1481.7	1381.9	1180.5	911.2	30.1	3.8	3.8	3.8
75°	1398.9	1338.6	1231.3	1031.7	760.6	22.6	7.5	3.8	3.8
77.5°	1244.5	1197.4	1076.9	879.2	613.8	15.1	7.5	3.8	3.8
80°	1101.4	1048.7	924.4	724.9	472.6	11.3	7.5	5.6	3.8
82.5°	954.5	907.5	783.2	583.6	338.9	9.4	7.5	5.6	3.8
85°	822.8	777.6	651.4	455.6	222.2	7.5	5.6	5.6	3.8
87.5°	706.0	664.6	540.3	333.2	126.1	5.6	5.6	5.6	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)