

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: P895367

Luminaire Tested: 8TMB-SC3-ASYMR-UNV-CC83-HI-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895367
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-HI-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3500K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

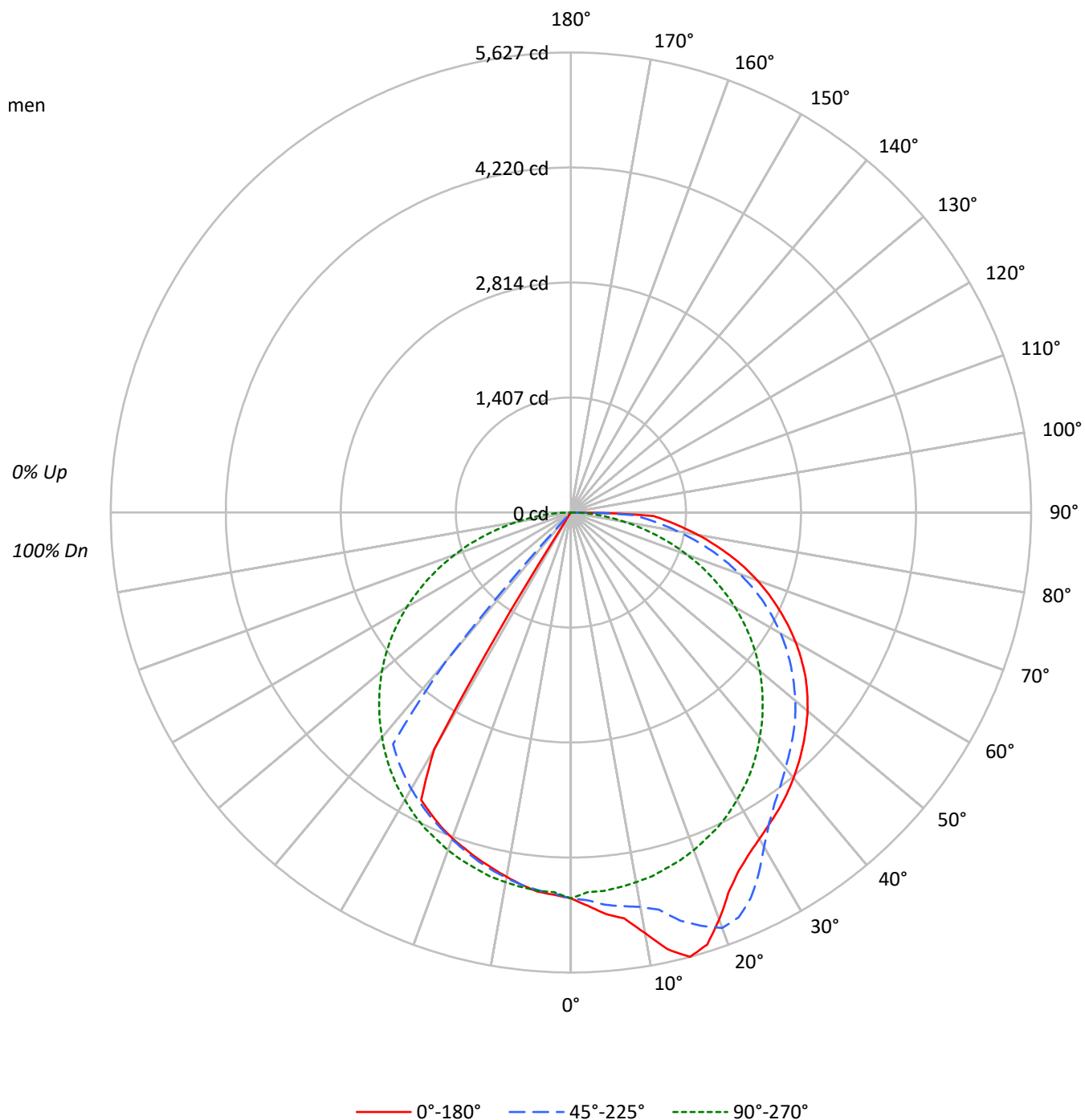
Lumens per Lamp: N/A
Luminaire Lumens: 12768.0 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	30558	30558	30558	30558	30558
5°	32045	31307	30201	30148	30253
10°	34335	32203	30195	29839	29750
15°	37724	34644	30205	29553	29407
20°	36524	37269	30284	29316	29223
25°	34605	37193	30357	29218	29005
30°	34457	35306	30354	29182	24979
35°	35040	34335	30404	29186	341
40°	35801	34499	30364	20129	228
45°	36781	35197	30370	371	148
50°	38065	36077	30386	272	54
55°	39515	37104	30300	183	30
60°	41095	38364	30033	70	35
65°	43028	39881	29486	83	83
70°	45901	41552	28555	102	102
75°	50244	44224	27318	270	135
80°	58960	49488	25298	403	201
85°	87753	69483	23693	602	401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 87.5°

Luminance: 150458 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.2	3.5
10°-20°	1350.2	10.6
20°-30°	2075.5	16.3
30°-40°	2224.3	17.4
40°-50°	2020.1	15.8
50°-60°	1842.6	14.4
60°-70°	1370.8	10.7
70°-80°	964.9	7.6
80°-90°	467.4	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°	3877.9	30.4
0°-40°	6102.2	47.8
0°-60°	9964.9	78.0
0°-90°	12768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12768.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4719	4719	4719	4719	4719	
5°	4930	4816	4646	4638	4654	477
15°	5627	5168	4506	4408	4387	1554
25°	4843	5206	4249	4089	4060	2252
35°	4433	4343	3846	3692	43	2777
45°	4016	3843	3316	40	16	3103
55°	3500	3287	2684	16	3	3126
65°	2808	2603	1924	5	5	2780
75°	2008	1768	1092	11	5	2118
85°	1181	935	319	8	5	1187
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°	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1	4719.1
2.5°	4816.4	4762.3	4748.8	4786.7	4648.8	4740.7	4665.0	4681.2	4681.2
5°	4929.9	4854.2	4816.4	4805.6	4646.1	4708.3	4638.0	4638.0	4654.2
7.5°	5008.3	4924.5	4856.9	4829.9	4621.8	4675.8	4594.8	4594.8	4594.8
10°	5221.8	5065.0	4897.5	4848.8	4592.1	4632.6	4538.0	4543.4	4524.5
12.5°	5473.2	5332.6	4975.8	4840.7	4559.6	4578.5	4478.5	4475.8	4454.2
15°	5627.2	5521.8	5167.7	4829.9	4505.6	4521.8	4408.3	4400.2	4386.6
17.5°	5540.7	5524.5	5300.2	4821.8	4456.9	4443.4	4329.9	4321.8	4311.0
20°	5300.2	5340.7	5408.3	4805.6	4394.7	4367.7	4254.2	4248.8	4240.7
22.5°	5032.6	5073.1	5359.6	4832.6	4319.1	4286.6	4173.1	4167.7	4156.9
25°	4843.4	4843.4	5205.6	4897.5	4248.8	4189.3	4089.3	4081.2	4059.6
27.5°	4711.0	4686.6	4975.8	4970.4	4159.6	4092.0	4000.1	3992.0	3965.0
30°	4608.3	4567.7	4721.8	5005.6	4059.6	3986.6	3902.8	3894.7	3340.7
32.5°	4516.4	4473.1	4508.3	5035.3	3959.6	3873.1	3800.1	2710.9	118.9
35°	4432.6	4383.9	4343.4	5013.7	3846.1	3759.6	3692.0	78.4	43.2
37.5°	4338.0	4300.1	4208.3	4900.2	3724.5	3638.0	3573.1	43.2	37.8
40°	4235.3	4200.1	4081.2	4732.6	3592.0	3519.0	2381.2	37.8	27.0
42.5°	4129.9	4102.8	3962.3	4489.3	3459.6	3386.6	75.7	29.7	21.6
45°	4016.4	3992.0	3843.4	4194.7	3316.3	3248.8	40.5	21.6	16.2
47.5°	3900.1	3865.0	3719.0	3878.5	3170.4	3102.8	35.1	16.2	10.8
50°	3778.5	3740.7	3581.2	3600.1	3016.3	2948.8	27.0	10.8	5.4
52.5°	3643.4	3597.4	3435.3	3348.8	2854.2	2792.0	21.6	5.4	2.7
55°	3500.1	3448.8	3286.6	3129.8	2683.9	2613.6	16.2	5.4	2.7
57.5°	3340.7	3283.9	3129.8	2921.7	2502.8	1767.6	10.8	5.4	2.7
60°	3173.1	3116.3	2962.3	2727.1	2319.0	121.6	5.4	5.4	2.7
62.5°	2994.7	2935.2	2786.6	2529.8	2121.7	100.0	5.4	5.4	5.4
65°	2808.2	2737.9	2602.8	2327.1	1924.4	83.8	5.4	5.4	5.4
67.5°	2621.7	2532.5	2405.5	2119.0	1721.7	70.3	5.4	5.4	5.4
70°	2424.4	2327.1	2194.7	1908.2	1508.2	56.8	5.4	5.4	5.4
72.5°	2221.7	2127.1	1983.9	1694.7	1308.2	43.2	5.4	5.4	5.4
75°	2008.2	1921.7	1767.6	1481.1	1091.9	32.4	10.8	5.4	5.4
77.5°	1786.5	1719.0	1546.0	1262.2	881.1	21.6	10.8	5.4	5.4
80°	1581.1	1505.5	1327.1	1040.6	678.4	16.2	10.8	8.1	5.4
82.5°	1370.3	1302.7	1124.4	837.9	486.5	13.5	10.8	8.1	5.4
85°	1181.1	1116.3	935.2	654.1	318.9	10.8	8.1	8.1	5.4
87.5°	1013.5	954.1	775.7	478.4	181.1	8.1	8.1	8.1	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)