

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: P895279

Luminaire Tested: 8TMB-SC3-A-UNV-CC83-HI-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-16)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-A-UNV-CC83-HI-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with AISLE OPTIC, 80CRI, 5000K CCT, HI lumen setting
Light Source: -
Ballast/Driver: -

Summary

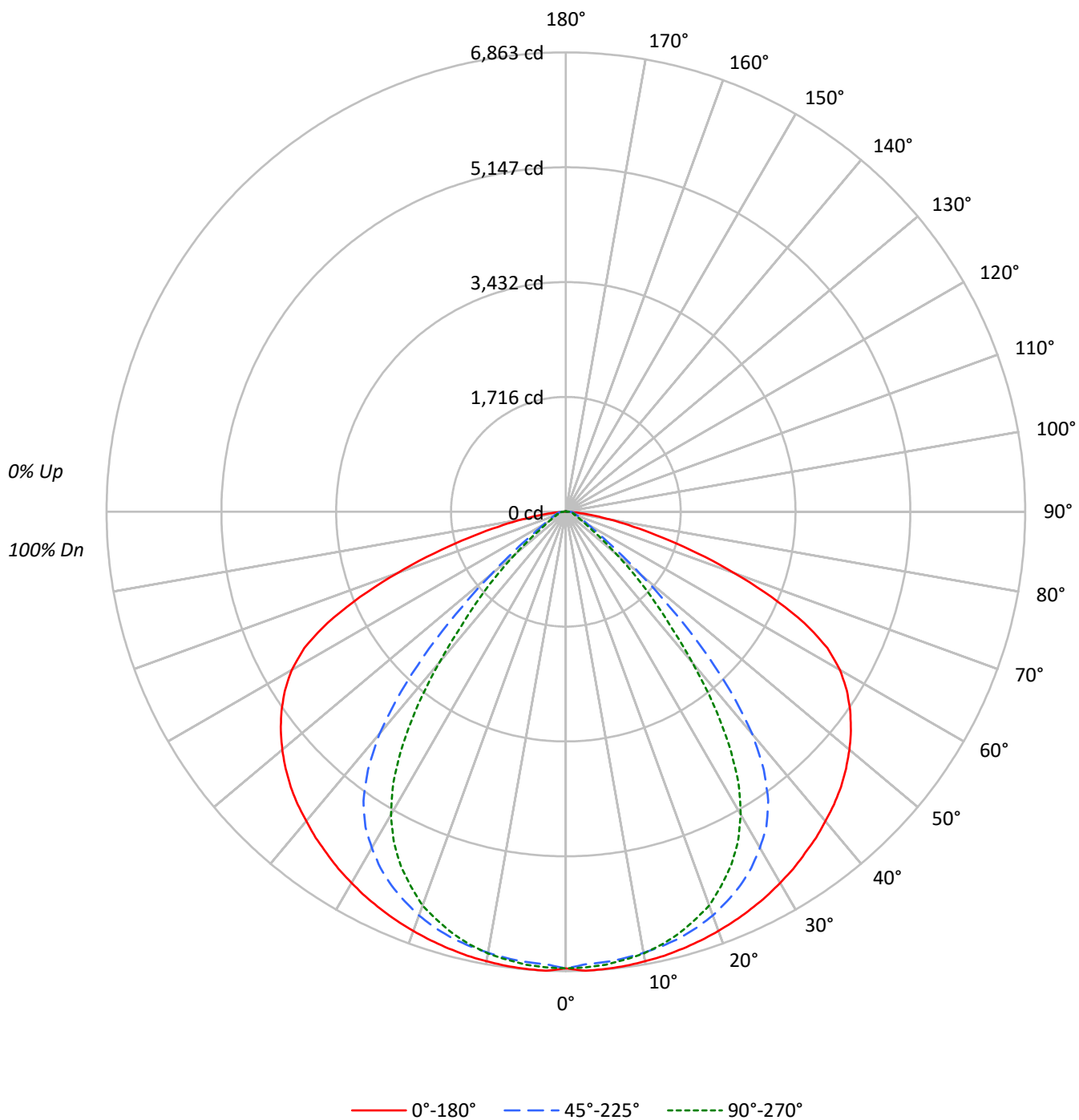
Lumens per Lamp: N/A
Luminaire Lumens: 13984.1 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.15 / 1.23
Luminous Opening: Rectangular (W 0.27' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 101.4
Input Voltage (V): 120
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	102	99	100	98	96		97	95	93		93
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		84
3	95	86	79	74	93	85	78	73	82	76	72		79	74	71		77
4	88	78	70	65	86	77	70	64	74	68	63		72	67	62		70
5	82	71	63	57	80	70	62	57	68	61	56		66	60	55		64
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	66	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	38	61	50	42	37	48	42	37		47	41	37		46
10	59	46	39	34	57	46	39	34	45	39	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34645	34645	34645
5°	34951	34431	34633
10°	35170	34508	34557
15°	35520	34657	34299
20°	36022	34685	33838
25°	36693	34535	32695
30°	37547	33994	30640
35°	38620	32686	26343
40°	39995	28708	19472
45°	41756	20715	13096
50°	43698	11573	7815
55°	45928	5983	4278
60°	48047	3892	3029
65°	47227	3198	2405
70°	39828	2943	2242
75°	29299	3000	2408
80°	19543	3533	3036
85°	10670	5722	4621

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 62.5°

Luminance: 48457 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.7	4.6
10°-20°	1871.8	13.4
20°-30°	2847.4	20.4
30°-40°	3251.9	23.3
40°-50°	2623.4	18.8
50°-60°	1436.0	10.3
60°-70°	757.1	5.4
70°-80°	371.3	2.7
80°-90°	130.8	0.9
90°-100°	28.1	0.2
100°-110°	3.9	0.0
110°-120°	2.4	0.0
120°-130°	2.2	0.0
130°-140°	2.3	0.0
140°-150°	2.7	0.0
150°-160°	2.5	0.0
160°-170°	1.9	0.0
170°-180°	0.7	0.0
0°-30°	5366.9	38.4
0°-40°	8618.8	61.6
0°-60°	12678.2	90.7
0°-90°	13937.5	99.7
90°-120°	34.4	0.2
90°-150°	41.6	0.3
90°-180°	47.0	0.3
0°-180°	13984.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6822	6822	6822	6822	6822	
5°	6856	6835	6754	6814	6793	653
15°	6756	6714	6591	6580	6523	1912
25°	6548	6454	6163	5953	5834	3025
35°	6229	5967	5272	4555	4249	3908
45°	5814	4994	2884	1971	1823	4487
55°	5187	2135	676	523	483	4628
65°	3930	493	266	215	200	3801
75°	1493	278	153	128	123	1649
85°	183	145	98	89	79	253
90°	8	76	60	53	49	11
95°	6	9	21	32	30	5
105°	2	0	2	4	4	3
115°	2	2	2	4	2	2
125°	2	2	2	4	2	2
135°	2	2	4	4	2	2
145°	4	4	4	6	4	2
155°	4	4	6	8	6	2
165°	4	6	8	8	8	1
175°	6	6	8	9	8	1
180°	8	8	8	8	8	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6821.7	6821.7	6821.7	6821.7	6821.7
2.5°	6863.2	6844.3	6766.9	6833.0	6814.1
5°	6855.6	6834.9	6753.7	6814.1	6793.3
7.5°	6842.4	6816.0	6727.3	6782.0	6749.9
10°	6819.8	6793.3	6691.4	6734.8	6700.9
12.5°	6793.3	6757.5	6644.2	6666.9	6623.5
15°	6755.6	6714.1	6591.4	6580.0	6523.4
17.5°	6714.1	6663.1	6514.0	6464.9	6397.0
20°	6665.0	6602.7	6417.7	6321.5	6261.0
22.5°	6610.2	6529.1	6296.9	6149.7	6055.3
25°	6548.0	6453.6	6162.9	5953.4	5834.5
27.5°	6481.9	6353.5	6000.6	5725.0	5564.5
30°	6402.6	6247.8	5796.7	5424.9	5224.8
32.5°	6323.3	6115.7	5577.8	5037.9	4800.1
35°	6229.0	5966.6	5272.0	4554.7	4248.9
37.5°	6140.2	5787.3	4858.6	3948.8	3620.3
40°	6032.7	5575.9	4330.1	3252.3	2937.0
42.5°	5930.7	5330.5	3644.9	2580.3	2306.6
45°	5813.7	4994.5	2884.2	1970.6	1823.4
47.5°	5677.8	4535.8	2097.1	1466.6	1374.1
50°	5530.6	3905.4	1464.7	1064.6	989.1
52.5°	5368.2	3054.1	987.2	739.9	698.4
55°	5187.0	2134.8	675.7	522.9	483.2
57.5°	4977.5	1389.2	490.8	394.5	368.1
60°	4730.2	887.2	383.2	313.3	298.2
62.5°	4405.6	622.9	315.2	258.6	245.4
65°	3929.9	492.7	266.1	215.2	200.1
67.5°	3327.8	417.2	228.4	181.2	171.8
70°	2682.2	362.4	198.2	156.7	151.0
72.5°	2061.2	317.1	171.8	139.7	135.9
75°	1493.1	277.5	152.9	128.4	122.7
77.5°	1034.4	239.7	135.9	115.1	111.4
80°	668.2	207.6	120.8	105.7	103.8
82.5°	383.2	173.7	109.5	101.9	100.0
85°	183.1	145.3	98.2	88.7	79.3
87.5°	58.5	107.6	77.4	68.0	60.4
90°	7.6	75.5	60.4	52.9	49.1
92.5°	7.6	41.5	43.4	43.4	41.5
95°	5.7	9.4	20.8	32.1	30.2
97.5°	5.7	3.8	13.2	22.7	22.7
100°	3.8	1.9	5.7	15.1	15.1
102.5°	3.8	1.9	1.9	9.4	9.4
105°	1.9	0.0	1.9	3.8	3.8
107.5°	1.9	1.9	1.9	3.8	1.9
110°	1.9	1.9	1.9	3.8	1.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	1.9	3.8	1.9
115°	1.9	1.9	1.9	3.8	1.9
117.5°	1.9	1.9	1.9	3.8	1.9
120°	1.9	1.9	1.9	3.8	1.9
122.5°	1.9	1.9	1.9	3.8	1.9
125°	1.9	1.9	1.9	3.8	1.9
127.5°	1.9	1.9	1.9	3.8	1.9
130°	1.9	1.9	3.8	3.8	1.9
132.5°	1.9	1.9	3.8	3.8	1.9
135°	1.9	1.9	3.8	3.8	1.9
137.5°	1.9	1.9	3.8	3.8	3.8
140°	3.8	1.9	3.8	3.8	3.8
142.5°	3.8	3.8	3.8	5.7	3.8
145°	3.8	3.8	3.8	5.7	3.8
147.5°	3.8	3.8	5.7	5.7	3.8
150°	3.8	3.8	5.7	5.7	3.8
152.5°	3.8	3.8	5.7	5.7	5.7
155°	3.8	3.8	5.7	7.6	5.7
157.5°	3.8	3.8	5.7	7.6	5.7
160°	3.8	5.7	7.6	7.6	5.7
162.5°	3.8	5.7	7.6	7.6	7.6
165°	3.8	5.7	7.6	7.6	7.6
167.5°	5.7	5.7	7.6	9.4	7.6
170°	5.7	5.7	7.6	9.4	7.6
172.5°	5.7	5.7	7.6	9.4	7.6
175°	5.7	5.7	7.6	9.4	7.6
177.5°	5.7	5.7	7.6	9.4	9.4
180°	7.6	7.6	7.6	7.6	7.6

(END OF REPORT)