

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: P895343

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC93-LOW-3500K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-185-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-SC3-ASMF-UNV-CC93-LOW-3500K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 3500K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

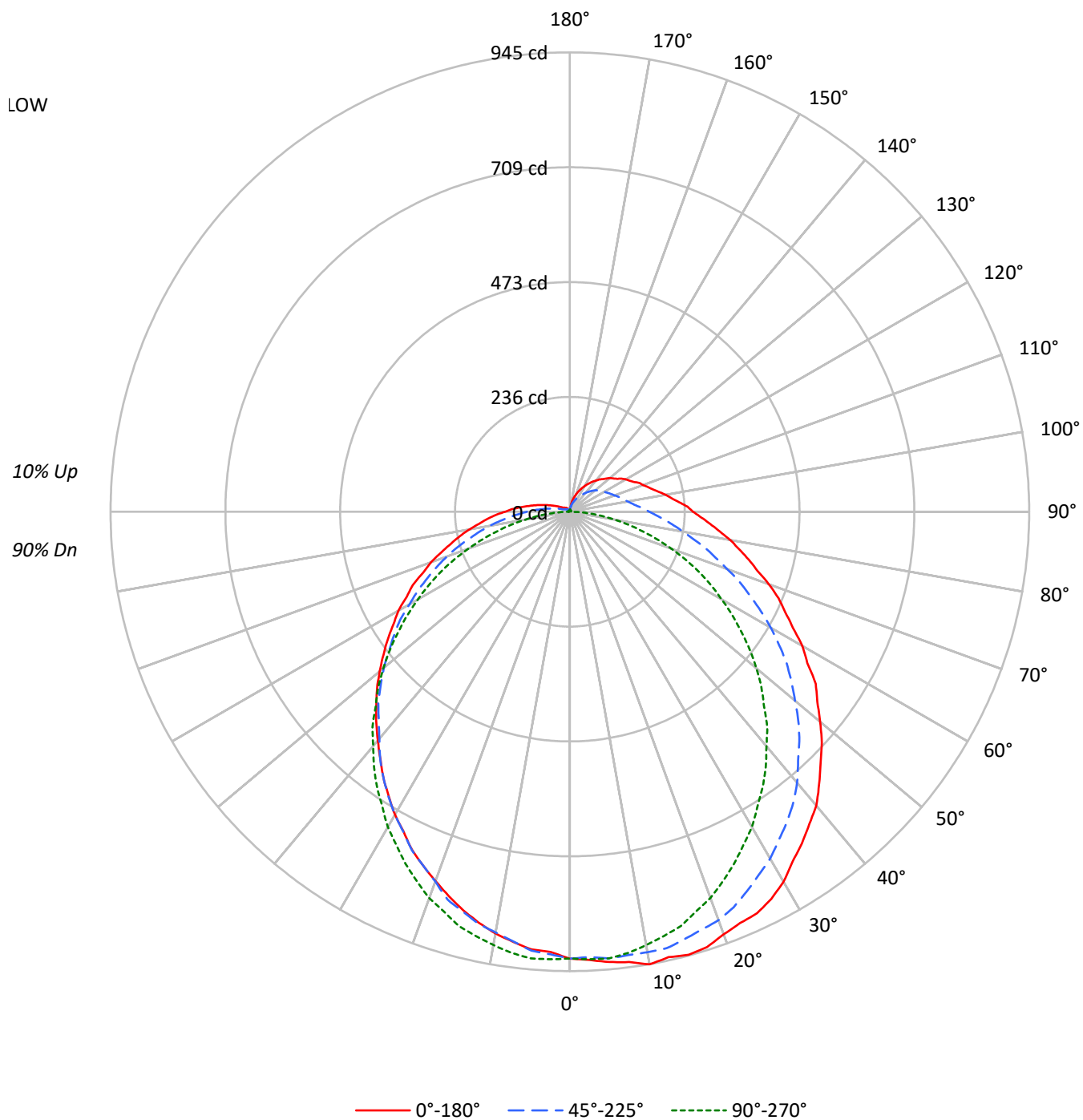
Lumens per Lamp: N/A
Luminaire Lumens: 3160.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9915
Total Harmonic Distortion (THDi): 6.67573310469889
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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90	90	90
1	105	99	95	90	101	96	92	88	90	87	83	85	82	79	79	77	75	72	72	72
2	95	86	79	72	91	83	76	71	78	72	68	73	69	65	69	65	62	59	59	59
3	86	75	66	60	83	73	65	58	68	62	56	64	59	54	60	56	52	49	49	49
4	79	66	57	50	76	64	56	49	61	53	48	57	51	46	54	49	44	42	42	42
5	72	59	50	43	69	57	49	42	54	47	41	51	45	40	48	43	38	36	36	36
6	67	53	44	37	64	52	43	37	49	41	36	46	40	35	44	38	34	31	31	31
7	62	48	39	33	59	47	38	32	44	37	32	42	36	31	40	34	30	28	28	28
8	57	44	35	29	55	43	35	29	41	33	28	39	32	27	37	31	27	25	25	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22	22	22
10	50	37	29	24	49	36	29	23	34	28	23	33	27	22	31	26	22	20	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4668	4668	4668	4668	4668
5°	4733	4565	4516	4485	4602
10°	4862	4473	4311	4272	4531
15°	4940	4383	4120	4097	4442
20°	4971	4296	3902	3887	4344
25°	5070	4162	3673	3713	4272
30°	5109	4032	3454	3523	4183
35°	5107	3890	3225	3341	4101
40°	5164	3743	2990	3136	4020
45°	5161	3569	2758	2979	3981
50°	5215	3390	2536	2799	3960
55°	5349	3234	2280	2620	3961
60°	5463	3040	2019	2428	4031
65°	5685	2829	1754	2238	4146
70°	6203	2628	1438	2056	4325
75°	7063	2485	1099	1844	4687
80°	8998	2347	737	1659	5641
85°	14332	2325	369	1467	8426

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 82083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	2.8
10°-20°	249.9	7.9
20°-30°	376.9	11.9
30°-40°	452.4	14.3
40°-50°	471.0	14.9
50°-60°	436.6	13.8
60°-70°	359.6	11.4
70°-80°	259.4	8.2
80°-90°	164.7	5.2
90°-100°	101.5	3.2
100°-110°	67.7	2.1
110°-120°	48.2	1.5
120°-130°	35.3	1.1
130°-140°	24.3	0.8
140°-150°	14.8	0.5
150°-160°	7.3	0.2
160°-170°	2.7	0.1
170°-180°	0.4	0.0
0°-30°	714.0	22.6
0°-40°	1166.4	36.9
0°-60°	2074.1	65.6
0°-90°	2857.7	90.4
90°-120°	217.4	6.9
90°-150°	291.8	9.2
90°-180°	302.0	9.6
0°-180°	3160.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	919	919	919	919	919	
5°	930	922	922	906	904	89
15°	944	910	882	851	848	266
25°	911	862	799	769	768	419
35°	833	778	692	669	669	522
45°	730	668	565	557	563	565
55°	618	545	431	441	457	549
65°	489	409	293	324	357	487
75°	381	289	154	215	253	404
85°	290	197	40	124	170	246
90°	253	164	4	88	133	140
95°	226	138	2	59	102	179
105°	177	108	2	24	54	189
115°	145	90	3	12	26	145
125°	118	75	3	9	15	107
135°	95	60	3	7	11	74
145°	73	42	3	5	8	46
155°	50	28	4	3	5	23
165°	29	16	4	2	3	8
175°	4	7	4	2	0	1
180°	3	3	3	3	3	

TEST NUMBER: P895343

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1
2.5°	922.8	925.5	916.8	922.3	921.4	922.3	911.3	920.5	906.2
5°	929.7	931.1	922.3	925.5	922.3	914.5	906.2	903.0	903.9
7.5°	934.3	941.6	920.0	920.9	915.4	907.2	891.5	894.3	892.5
10°	945.3	937.0	920.0	915.9	905.3	896.6	878.7	880.0	881.0
12.5°	938.4	936.6	919.6	904.4	893.8	886.5	868.1	863.5	865.8
15°	943.5	935.7	910.4	898.4	882.3	869.5	851.1	847.9	848.3
17.5°	938.9	932.4	901.2	884.6	862.1	854.3	836.8	831.3	828.6
20°	925.1	921.9	894.3	865.8	845.6	830.4	809.3	806.1	808.4
22.5°	915.9	908.1	880.5	852.0	822.6	809.3	788.1	787.7	788.1
25°	911.3	901.2	861.7	831.8	799.2	787.2	768.8	761.9	767.9
27.5°	897.5	888.3	841.9	809.3	773.0	756.9	741.7	740.3	741.3
30°	879.1	861.2	824.0	784.0	749.1	732.5	720.1	710.9	719.7
32.5°	852.9	842.8	800.5	756.9	718.3	706.8	694.4	693.5	693.5
35°	832.7	825.4	778.5	733.0	691.6	676.0	668.7	665.4	668.7
37.5°	809.3	798.2	755.0	704.0	661.8	648.4	641.1	638.3	640.6
40°	789.1	768.8	727.5	674.2	629.1	617.2	609.4	612.1	614.4
42.5°	759.2	747.7	694.8	643.8	601.1	588.2	581.8	584.1	589.6
45°	729.8	719.2	667.7	612.1	564.8	557.9	557.4	556.1	563.0
47.5°	703.1	688.0	637.9	580.9	534.5	526.6	527.6	532.2	538.1
50°	672.3	654.4	604.8	547.3	500.9	495.9	499.5	502.8	510.6
52.5°	641.5	627.3	574.4	515.6	466.9	463.2	468.3	478.9	483.5
55°	617.6	591.9	544.6	478.4	430.6	431.1	441.2	447.1	457.3
57.5°	579.5	560.2	510.6	445.3	396.6	399.8	413.6	423.7	430.1
60°	552.4	528.0	477.5	409.9	360.8	365.8	381.4	396.6	407.6
62.5°	517.5	496.3	443.0	375.0	327.7	335.0	352.5	370.4	378.2
65°	489.0	465.1	409.0	340.1	293.2	301.9	323.5	343.7	356.6
67.5°	464.6	439.8	378.7	307.9	258.3	271.1	296.4	316.2	326.3
70°	435.7	406.7	344.2	272.1	222.0	237.1	269.3	292.3	303.8
72.5°	404.9	381.4	314.3	239.0	188.4	206.8	242.2	266.1	277.1
75°	381.0	354.8	289.1	205.9	154.4	176.5	214.6	241.7	252.8
77.5°	356.6	332.7	260.6	175.5	124.1	148.9	190.3	220.1	231.6
80°	335.0	307.4	236.7	150.7	92.4	121.8	167.3	196.7	210.0
82.5°	311.1	287.2	216.0	124.5	65.7	97.0	144.8	176.9	188.0
85°	290.0	265.2	196.7	103.9	40.4	74.9	124.1	157.2	170.5
87.5°	270.7	250.0	178.8	88.2	20.2	57.0	104.3	137.9	153.0
90°	253.2	229.8	163.6	74.0	3.7	41.4	88.2	121.3	132.8
92.5°	242.2	214.2	151.2	64.8	2.3	29.4	73.5	106.2	119.5
95°	225.6	200.8	138.3	57.9	2.3	19.8	59.3	91.0	102.5
97.5°	211.4	188.4	129.1	53.8	1.8	13.3	48.7	76.3	88.2
100°	200.4	178.8	120.9	50.1	2.3	9.7	38.6	64.8	75.4
102.5°	188.0	168.2	114.4	47.8	2.3	6.9	30.3	54.7	64.3
105°	176.9	159.5	108.5	45.5	2.3	6.0	24.4	45.0	53.8
107.5°	168.7	150.3	103.4	44.1	2.3	6.0	19.3	36.8	44.1
110°	160.4	142.9	98.3	42.7	2.3	5.5	15.2	30.3	36.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	154.9	136.0	93.7	41.4	2.8	5.5	12.4	25.3	30.3
115°	145.2	130.1	89.6	40.9	2.8	5.1	11.5	20.7	25.7
117.5°	138.3	124.5	85.5	39.5	2.8	5.1	11.0	17.0	20.7
120°	133.3	118.1	81.8	38.1	2.8	4.6	10.1	15.2	17.5
122.5°	126.8	112.1	78.6	37.2	2.8	4.6	9.7	14.2	15.6
125°	118.1	106.6	74.9	35.4	3.2	4.6	9.2	13.3	14.7
127.5°	112.6	101.6	72.2	33.1	3.2	4.1	8.7	12.4	13.8
130°	108.0	96.0	68.9	30.8	3.2	4.1	8.3	11.5	12.9
132.5°	101.1	90.5	64.3	29.0	3.2	3.7	7.4	10.6	11.9
135°	94.7	85.9	59.7	27.1	3.2	3.7	6.9	10.1	11.0
137.5°	90.5	81.3	55.6	25.3	3.2	3.2	6.4	9.2	10.1
140°	83.6	76.3	51.0	23.4	3.2	3.2	6.0	8.7	9.2
142.5°	78.6	71.2	46.9	21.6	3.2	3.2	5.5	7.8	8.7
145°	72.6	66.2	42.3	19.8	3.2	2.8	5.1	7.4	7.8
147.5°	67.1	60.2	38.6	18.4	3.2	2.8	4.6	6.4	6.9
150°	61.6	54.2	34.9	17.0	3.2	2.8	4.1	5.5	6.4
152.5°	55.6	46.9	31.2	15.6	3.2	2.8	3.7	5.1	5.5
155°	49.6	40.9	28.0	14.2	3.7	2.8	3.2	4.1	5.1
157.5°	44.6	35.4	24.8	12.9	3.7	2.3	3.2	3.7	4.1
160°	38.6	30.3	22.1	11.5	3.7	2.3	2.8	3.2	3.7
162.5°	34.0	25.3	19.3	10.6	3.7	2.3	2.8	2.8	3.2
165°	29.0	21.1	16.1	9.7	3.7	2.3	2.3	2.3	2.8
167.5°	23.4	16.5	13.3	8.7	3.7	2.3	2.3	1.8	2.3
170°	17.5	12.4	11.0	7.8	3.7	2.3	1.8	1.4	1.8
172.5°	7.8	9.7	8.7	6.9	4.1	2.3	1.8	1.4	0.9
175°	4.1	6.9	6.9	6.0	4.1	2.3	1.8	1.4	0.5
177.5°	3.2	4.1	5.1	5.1	4.1	2.8	1.8	0.9	0.5
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)