

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: P895345

Luminaire Tested: 8TMB-SC3-ASMF-UNV-CC93-LOW-5000K

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895345
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-5000K
Description: Selectable 8FT MICROBAY LINEAR BAY with FROSTED ASYMMETRIC LENS, 90CRI, 5000K CCT, 1 lumen setting
Light Source: -
Ballast/Driver: -

Summary

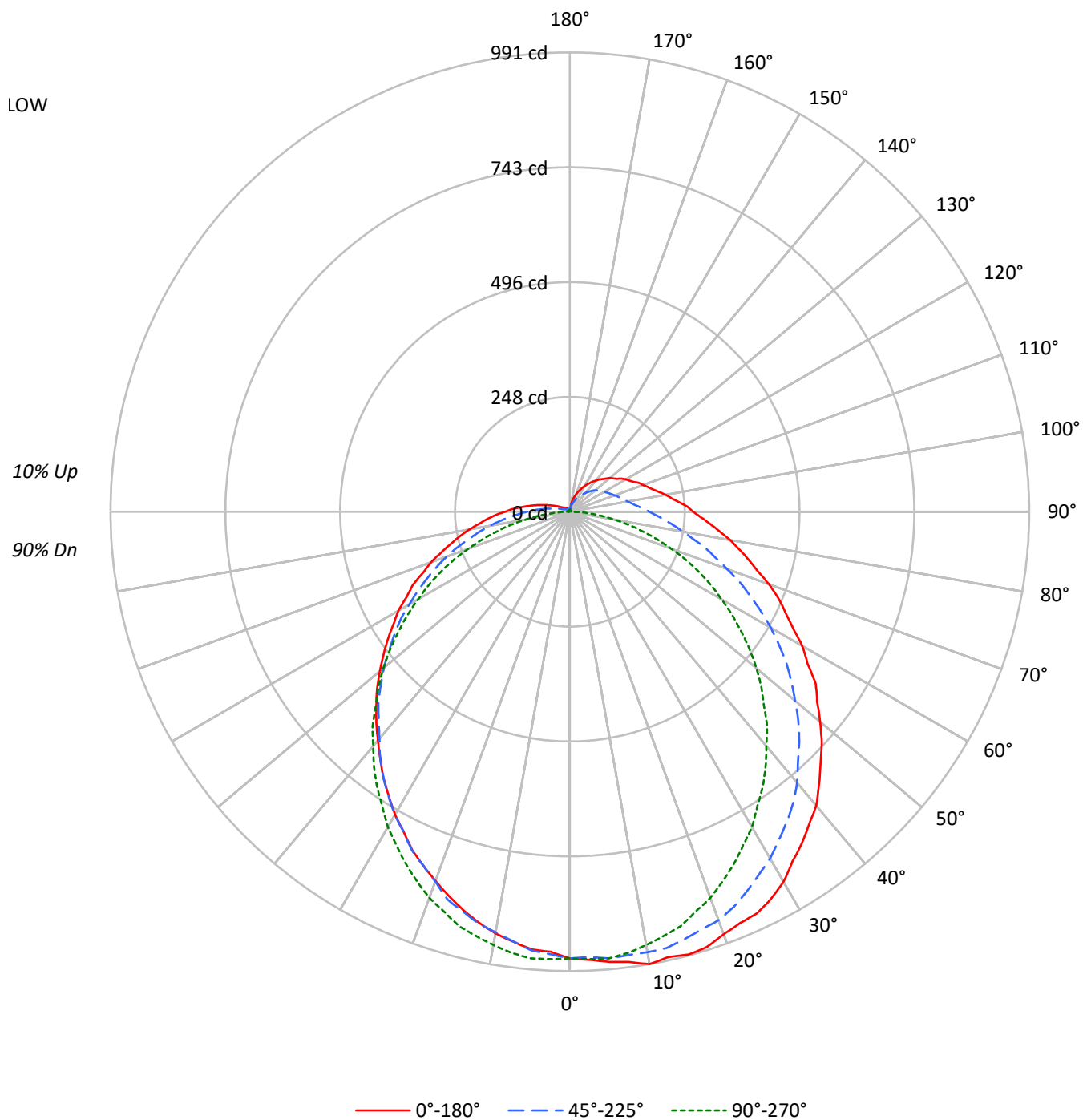
Lumens per Lamp: N/A
Luminaire Lumens: 3313.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.21 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 7.98' x H: 0.12')
CIE Type: Direct

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
RW	70	50	30	10		70	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
1	105	99	95	90		101	96	92	88		90	87	83		85	82	79		79	77	75
2	95	86	79	72		91	83	76	71		78	72	68		73	69	65		69	65	62
3	86	75	66	60		83	73	65	58		68	62	56		64	59	54		60	56	52
4	79	66	57	50		76	64	56	49		61	53	48		57	51	46		54	49	44
5	72	59	50	43		69	57	49	42		54	47	41		51	45	40		48	43	38
6	67	53	44	37		64	52	43	37		49	41	36		46	40	35		44	38	34
7	62	48	39	33		59	47	38	32		44	37	32		42	36	31		40	34	30
8	57	44	35	29		55	43	35	29		41	33	28		39	32	27		37	31	27
9	54	40	32	26		52	39	31	26		37	30	25		36	29	25		34	28	24
10	50	37	29	24		49	36	29	23		34	28	23		33	27	22		31	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4894	4894	4894	4894	4894
5°	4962	4786	4735	4702	4825
10°	5097	4690	4520	4479	4750
15°	5179	4595	4319	4296	4657
20°	5212	4504	4091	4076	4554
25°	5315	4363	3850	3893	4479
30°	5357	4227	3621	3694	4385
35°	5354	4078	3381	3503	4299
40°	5414	3924	3135	3287	4215
45°	5410	3742	2892	3123	4174
50°	5467	3554	2659	2935	4152
55°	5608	3390	2391	2747	4152
60°	5727	3187	2116	2546	4227
65°	5960	2966	1839	2346	4347
70°	6503	2756	1507	2156	4534
75°	7404	2605	1153	1934	4913
80°	9433	2460	772	1739	5915
85°	15024	2437	387	1538	8832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 86071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	2.8
10°-20°	262.0	7.9
20°-30°	395.1	11.9
30°-40°	474.3	14.3
40°-50°	493.8	14.9
50°-60°	457.8	13.8
60°-70°	377.0	11.4
70°-80°	271.9	8.2
80°-90°	172.6	5.2
90°-100°	106.4	3.2
100°-110°	71.0	2.1
110°-120°	50.5	1.5
120°-130°	37.0	1.1
130°-140°	25.5	0.8
140°-150°	15.5	0.5
150°-160°	7.7	0.2
160°-170°	2.8	0.1
170°-180°	0.5	0.0
0°-30°	748.6	22.6
0°-40°	1222.9	36.9
0°-60°	2174.5	65.6
0°-90°	2996.1	90.4
90°-120°	227.9	6.9
90°-150°	305.9	9.2
90°-180°	317.0	9.6
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	964	964	964	964	964	
5°	975	967	967	950	948	93
15°	989	954	925	892	889	279
25°	955	903	838	806	805	439
35°	873	816	725	701	701	547
45°	765	700	592	584	590	592
55°	648	571	452	462	479	575
65°	513	429	307	339	374	510
75°	399	303	162	225	265	423
85°	304	206	42	130	179	258
90°	266	172	4	92	139	146
95°	237	145	2	62	107	188
105°	186	114	2	26	56	198
115°	152	94	3	12	27	152
125°	124	78	3	10	15	113
135°	99	63	3	7	12	78
145°	76	44	3	5	8	48
155°	52	29	4	3	5	25
165°	30	17	4	2	3	9
175°	4	7	4	2	0	1
180°	3	3	3	3	3	

TEST NUMBER: P895345

CATALOG NUMBER: 8TMB-SC3-ASMF-UNV-CC93-LOW-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6	963.6
2.5°	967.5	970.4	961.2	967.0	966.0	967.0	955.4	965.1	950.1
5°	974.7	976.1	967.0	970.4	967.0	958.8	950.1	946.7	947.7
7.5°	979.5	987.2	964.6	965.5	959.8	951.1	934.7	937.6	935.7
10°	991.1	982.4	964.6	960.2	949.2	940.0	921.2	922.7	923.6
12.5°	983.8	981.9	964.1	948.2	937.1	929.4	910.1	905.3	907.7
15°	989.1	981.0	954.5	941.9	925.1	911.6	892.3	888.9	889.4
17.5°	984.3	977.6	944.8	927.5	903.9	895.7	877.4	871.6	868.7
20°	969.9	966.5	937.6	907.7	886.5	870.6	848.5	845.1	847.5
22.5°	960.2	952.0	923.1	893.3	862.4	848.5	826.3	825.8	826.3
25°	955.4	944.8	903.4	872.1	837.9	825.3	806.1	798.8	805.1
27.5°	941.0	931.3	882.7	848.5	810.4	793.5	777.6	776.2	777.2
30°	921.7	902.9	863.9	822.0	785.3	768.0	755.0	745.4	754.5
32.5°	894.2	883.6	839.3	793.5	753.1	741.0	728.0	727.0	727.0
35°	873.0	865.3	816.2	768.5	725.1	708.7	701.0	697.7	701.0
37.5°	848.5	836.9	791.6	738.1	693.8	679.8	672.1	669.2	671.6
40°	827.3	806.1	762.7	706.8	659.6	647.1	638.9	641.8	644.2
42.5°	795.9	783.9	728.5	675.0	630.2	616.7	610.0	612.4	618.2
45°	765.1	754.0	700.1	641.8	592.1	584.9	584.4	583.0	590.2
47.5°	737.2	721.3	668.7	609.0	560.3	552.1	553.1	557.9	564.2
50°	704.9	686.1	634.1	573.8	525.2	519.9	523.7	527.1	535.3
52.5°	672.6	657.7	602.3	540.6	489.5	485.7	491.0	502.0	506.9
55°	647.5	620.6	570.9	501.6	451.5	451.9	462.5	468.8	479.4
57.5°	607.6	587.3	535.3	466.9	415.8	419.2	433.6	444.2	451.0
60°	579.1	553.6	500.6	429.8	378.2	383.5	399.9	415.8	427.4
62.5°	542.5	520.3	464.5	393.2	343.5	351.2	369.5	388.3	396.5
65°	512.6	487.6	428.8	356.5	307.4	316.5	339.2	360.4	373.9
67.5°	487.1	461.1	397.0	322.8	270.8	284.3	310.8	331.5	342.1
70°	456.8	426.4	360.9	285.2	232.7	248.6	282.3	306.4	318.5
72.5°	424.5	399.9	329.6	250.5	197.5	216.8	253.9	279.0	290.5
75°	399.4	372.0	303.1	215.8	161.9	185.0	225.0	253.4	265.0
77.5°	373.9	348.8	273.2	184.0	130.1	156.1	199.5	230.8	242.8
80°	351.2	322.3	248.1	158.0	96.8	127.7	175.4	206.2	220.2
82.5°	326.2	301.1	226.4	130.6	68.9	101.7	151.8	185.5	197.1
85°	304.0	278.0	206.2	108.9	42.4	78.5	130.1	164.8	178.7
87.5°	283.8	262.1	187.4	92.5	21.2	59.7	109.4	144.5	160.4
90°	265.5	240.9	171.5	77.6	3.9	43.4	92.5	127.2	139.2
92.5°	253.9	224.5	158.5	67.9	2.4	30.8	77.1	111.3	125.3
95°	236.6	210.5	145.0	60.7	2.4	20.7	62.2	95.4	107.4
97.5°	221.6	197.5	135.4	56.4	1.9	14.0	51.1	80.0	92.5
100°	210.1	187.4	126.7	52.5	2.4	10.1	40.5	67.9	79.0
102.5°	197.1	176.3	120.0	50.1	2.4	7.2	31.8	57.3	67.5
105°	185.5	167.2	113.7	47.7	2.4	6.3	25.5	47.2	56.4
107.5°	176.8	157.6	108.4	46.3	2.4	6.3	20.2	38.5	46.3
110°	168.2	149.8	103.1	44.8	2.4	5.8	15.9	31.8	38.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	162.4	142.6	98.3	43.4	2.9	5.8	13.0	26.5	31.8
115°	152.3	136.4	94.0	42.9	2.9	5.3	12.0	21.7	27.0
117.5°	145.0	130.6	89.6	41.4	2.9	5.3	11.6	17.8	21.7
120°	139.7	123.8	85.8	40.0	2.9	4.8	10.6	15.9	18.3
122.5°	133.0	117.6	82.4	39.0	2.9	4.8	10.1	14.9	16.4
125°	123.8	111.8	78.5	37.1	3.4	4.8	9.6	14.0	15.4
127.5°	118.0	106.5	75.6	34.7	3.4	4.3	9.2	13.0	14.5
130°	113.2	100.7	72.3	32.3	3.4	4.3	8.7	12.0	13.5
132.5°	106.0	94.9	67.5	30.4	3.4	3.9	7.7	11.1	12.5
135°	99.3	90.1	62.6	28.4	3.4	3.9	7.2	10.6	11.6
137.5°	94.9	85.3	58.3	26.5	3.4	3.4	6.7	9.6	10.6
140°	87.7	80.0	53.5	24.6	3.4	3.4	6.3	9.2	9.6
142.5°	82.4	74.7	49.1	22.6	3.4	3.4	5.8	8.2	9.2
145°	76.1	69.4	44.3	20.7	3.4	2.9	5.3	7.7	8.2
147.5°	70.3	63.1	40.5	19.3	3.4	2.9	4.8	6.7	7.2
150°	64.6	56.9	36.6	17.8	3.4	2.9	4.3	5.8	6.7
152.5°	58.3	49.1	32.8	16.4	3.4	2.9	3.9	5.3	5.8
155°	52.0	42.9	29.4	14.9	3.9	2.9	3.4	4.3	5.3
157.5°	46.7	37.1	26.0	13.5	3.9	2.4	3.4	3.9	4.3
160°	40.5	31.8	23.1	12.0	3.9	2.4	2.9	3.4	3.9
162.5°	35.7	26.5	20.2	11.1	3.9	2.4	2.9	2.9	3.4
165°	30.4	22.2	16.9	10.1	3.9	2.4	2.4	2.4	2.9
167.5°	24.6	17.3	14.0	9.2	3.9	2.4	2.4	1.9	2.4
170°	18.3	13.0	11.6	8.2	3.9	2.4	1.9	1.4	1.9
172.5°	8.2	10.1	9.2	7.2	4.3	2.4	1.9	1.4	1.0
175°	4.3	7.2	7.2	6.3	4.3	2.4	1.9	1.4	0.5
177.5°	3.4	4.3	5.3	5.3	4.3	2.9	1.9	1.0	0.5
180°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9

(END OF REPORT)