

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P895247

Luminaire Tested: 8TMB-8SL-LVRF-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-LVRF-UNV-L840
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K C
Light Source: -
Ballast/Driver: -

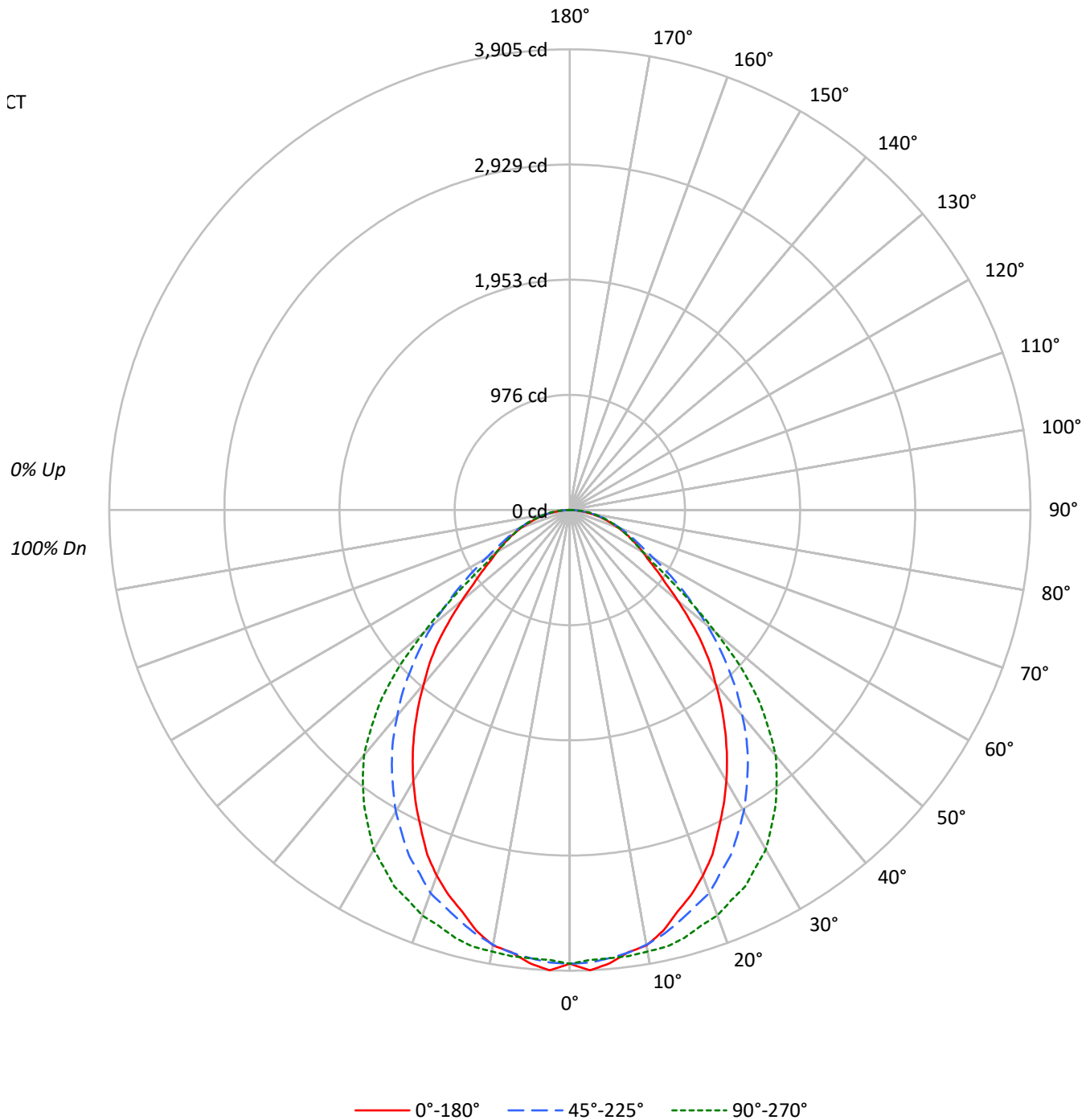
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7992.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 59.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P895247
CATALOG NUMBER: 8TMB-8SL-LVRF-UNV-L840

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	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	65	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13644	13644	13644
5°	13739	13582	13582
10°	13501	13480	13689
15°	12943	13244	13787
20°	12451	13047	13810
25°	11680	12643	13778
30°	10872	12084	13616
35°	9952	11399	13183
40°	8910	10540	12578
45°	7907	9542	11308
50°	6579	8400	8919
55°	5604	7076	6482
60°	5080	5847	5123
65°	4785	5120	4768
70°	4501	4750	4647
75°	4195	4523	4440
80°	3841	4168	4291
85°	3338	3664	4804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11308 cd/sqm



TEST NUMBER: P895247
 CATALOG NUMBER: 8TMB-8SL-LVRF-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	4.6
10°-20°	1024.5	12.8
20°-30°	1487.7	18.6
30°-40°	1656.7	20.7
40°-50°	1463.6	18.3
50°-60°	960.4	12.0
60°-70°	588.1	7.4
70°-80°	342.2	4.3
80°-90°	104.8	1.3
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°	2876.2	36.0
0°-40°	4532.9	56.7
0°-60°	6956.9	87.0
0°-90°	7992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3845	3845	3845	3845	3845	
5°	3857	3859	3813	3851	3813	364
15°	3523	3563	3605	3747	3753	994
25°	2984	3056	3230	3435	3519	1373
35°	2298	2422	2632	2910	3044	1433
45°	1576	1672	1902	2158	2254	1205
55°	906	970	1144	1134	1048	822
65°	570	580	610	592	568	567
75°	306	310	330	336	324	325
85°	82	86	90	102	118	92
90°	0	0	0	0	0	



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CATALOG NUMBER: 8TMB-8SL-LVRF-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3845.4	3845.4	3845.4	3845.4	3845.4
2.5°	3905.4	3857.4	3839.4	3857.4	3817.4
5°	3857.4	3859.4	3813.4	3851.4	3813.4
7.5°	3781.4	3807.4	3785.4	3843.4	3813.4
10°	3747.4	3749.4	3741.4	3801.4	3799.4
12.5°	3653.4	3659.4	3681.4	3771.4	3791.4
15°	3523.4	3563.4	3605.4	3747.4	3753.4
17.5°	3421.5	3469.4	3525.4	3677.4	3695.4
20°	3297.5	3317.5	3455.4	3589.4	3657.4
22.5°	3159.5	3197.5	3331.5	3511.4	3579.4
25°	2983.5	3055.5	3229.5	3435.4	3519.4
27.5°	2821.5	2905.5	3085.5	3315.5	3413.5
30°	2653.6	2749.6	2949.5	3175.5	3323.5
32.5°	2479.6	2599.6	2789.6	3049.5	3179.5
35°	2297.6	2421.6	2631.6	2909.5	3043.5
37.5°	2115.7	2235.6	2463.6	2761.6	2881.5
40°	1923.7	2041.7	2275.6	2577.6	2715.6
42.5°	1757.7	1859.7	2099.7	2357.6	2485.6
45°	1575.7	1671.7	1901.7	2157.7	2253.6
47.5°	1375.8	1487.8	1711.7	1921.7	1959.7
50°	1191.8	1307.8	1521.8	1643.7	1615.7
52.5°	1029.8	1127.8	1323.8	1375.8	1309.8
55°	905.9	969.8	1143.8	1133.8	1047.8
57.5°	791.9	831.9	979.8	923.9	841.9
60°	715.9	733.9	823.9	771.9	721.9
62.5°	643.9	651.9	699.9	671.9	633.9
65°	569.9	579.9	609.9	591.9	567.9
67.5°	501.9	505.9	533.9	529.9	499.9
70°	433.9	439.9	457.9	465.9	447.9
72.5°	367.9	373.9	391.9	399.9	383.9
75°	306.0	310.0	329.9	335.9	323.9
77.5°	246.0	254.0	266.0	276.0	262.0
80°	188.0	192.0	204.0	216.0	210.0
82.5°	132.0	138.0	146.0	162.0	166.0
85°	82.0	86.0	90.0	102.0	118.0
87.5°	32.0	34.0	40.0	44.0	58.0
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.61	18.09	16.97	18.40	18.72	17.26	18.74	17.63	19.06	19.37
	3H	18.21	19.54	18.59	19.86	20.23	18.70	20.02	19.08	20.35	20.71
	4H	18.83	20.07	19.23	20.42	20.80	19.30	20.54	19.70	20.89	21.27
	6H	19.30	20.44	19.71	20.81	21.20	19.79	20.94	20.20	21.30	21.69
	8H	19.45	20.54	19.88	20.93	21.33	19.99	21.08	20.41	21.47	21.87
	12H	19.55	20.59	19.98	20.98	21.41	20.15	21.20	20.58	21.58	22.01
4H	2H	17.23	18.47	17.63	18.82	19.20	17.75	19.00	18.16	19.35	19.73
	3H	19.05	20.08	19.46	20.48	20.88	19.45	20.48	19.86	20.88	21.28
	4H	19.79	20.72	20.22	21.13	21.57	20.21	21.13	20.64	21.55	21.99
	6H	20.39	21.19	20.85	21.64	22.10	20.84	21.65	21.30	22.09	22.55
	8H	20.58	21.34	21.05	21.78	22.25	21.10	21.85	21.56	22.29	22.76
	12H	20.73	21.40	21.21	21.88	22.35	21.32	21.99	21.80	22.47	22.94
8H	4H	20.11	20.86	20.57	21.31	21.77	20.48	21.23	20.94	21.67	22.14
	6H	20.83	21.46	21.33	21.95	22.43	21.25	21.87	21.75	22.37	22.84
	8H	21.11	21.67	21.62	22.18	22.67	21.60	22.16	22.11	22.67	23.16
	12H	21.32	21.82	21.83	22.31	22.88	21.91	22.41	22.42	22.90	23.47
12H	4H	20.14	20.82	20.63	21.29	21.77	20.50	21.17	20.98	21.65	22.12
	6H	20.90	21.46	21.41	21.97	22.46	21.30	21.86	21.81	22.37	22.86
	8H	21.23	21.73	21.74	22.22	22.79	21.70	22.20	22.21	22.69	23.26