

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: P895231

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-LVR-UNV-L840
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

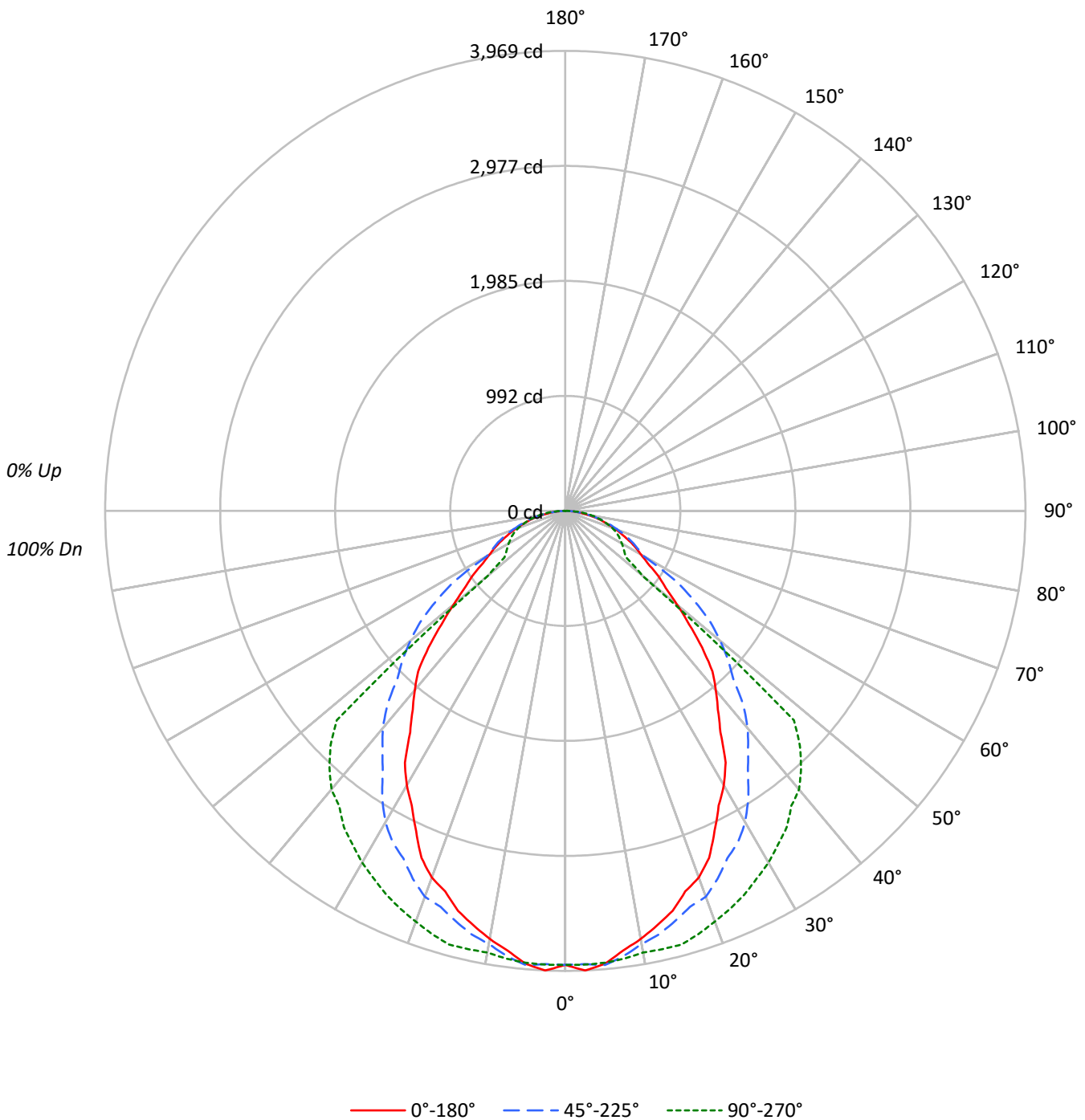
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8358.0 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
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: P895231
CATALOG NUMBER: 8TMB-8SL-LVR-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P895231

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	100																
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	89	89	89	89	89	89	89	89	89	87																
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	77	77	77	77	77	77	77	77	77	75																
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	75	71	67	67	67	67	67	67	67	67	67	67	65																
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	68	63	59	59	59	59	59	59	59	59	59	57																	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	62	57	52	52	52	52	52	52	52	52	52	50																	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	56	51	47	47	47	47	47	47	47	47	47	45																	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	52	46	42	42	42	42	42	42	42	42	42	40																	
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	48	42	38	38	38	38	38	38	38	38	38	36																	
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	44	39	35	35	35	35	35	35	35	35	35	33																	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	41	36	32	32	32	32	32	32	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13897	13897	13897
5°	13971	14007	13935
10°	13513	13671	13938
15°	13123	13453	14225
20°	12711	13376	14237
25°	11926	12945	14299
30°	11203	12711	14358
35°	10102	11887	14426
40°	9358	11340	14528
45°	8371	10278	14363
50°	6945	9628	4825
55°	6051	8451	3861
60°	5351	5507	4003
65°	5089	5357	4249
70°	4773	5064	4483
75°	4442	4772	4606
80°	4046	4495	4822
85°	3583	3827	5211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14363 cd/sqm



TEST NUMBER: P895231
 CATALOG NUMBER: 8TMB-8SL-LVR-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	4.4
10°-20°	1045.1	12.5
20°-30°	1537.3	18.4
30°-40°	1758.1	21.0
40°-50°	1664.7	19.9
50°-60°	917.2	11.0
60°-70°	588.9	7.0
70°-80°	363.4	4.3
80°-90°	111.8	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°	2953.9	35.3
0°-40°	4711.9	56.4
0°-60°	7293.8	87.3
0°-90°	8358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3917	3917	3917	3917	3917	
5°	3923	3955	3933	3933	3913	368
15°	3572	3616	3662	3855	3873	1003
25°	3046	3182	3306	3522	3652	1403
35°	2332	2532	2744	3142	3330	1474
45°	1668	1826	2048	2628	2862	1276
55°	978	1026	1366	704	624	875
65°	606	626	638	568	506	600
75°	324	330	348	366	336	345
85°	88	88	94	108	128	98
90°	0	0	0	0	0	



TEST NUMBER: P895231

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3916.6	3916.6	3916.6	3916.6	3916.6
2.5°	3968.6	3978.6	3914.6	3912.6	3918.6
5°	3922.6	3954.6	3932.6	3932.6	3912.6
7.5°	3824.6	3878.6	3872.6	3918.6	3896.6
10°	3750.5	3794.6	3794.6	3914.6	3868.6
12.5°	3662.5	3712.5	3740.5	3866.6	3872.6
15°	3572.5	3616.5	3662.5	3854.6	3872.6
17.5°	3442.5	3522.5	3580.5	3768.6	3826.6
20°	3366.5	3414.5	3542.5	3694.5	3770.6
22.5°	3240.5	3310.5	3434.5	3604.5	3716.5
25°	3046.4	3182.5	3306.5	3522.5	3652.5
27.5°	2866.4	2968.4	3224.5	3452.5	3576.5
30°	2734.4	2814.4	3102.5	3350.5	3504.5
32.5°	2574.4	2704.4	2938.4	3250.5	3414.5
35°	2332.3	2532.4	2744.4	3142.5	3330.5
37.5°	2162.3	2300.3	2588.4	3030.4	3204.5
40°	2020.3	2146.3	2448.4	2890.4	3136.5
42.5°	1878.3	1980.3	2272.3	2786.4	3010.4
45°	1668.2	1826.3	2048.3	2628.4	2862.4
47.5°	1448.2	1616.2	1902.3	2494.4	2674.4
50°	1258.2	1392.2	1744.3	2228.3	874.1
52.5°	1092.2	1216.2	1576.2	806.1	660.1
55°	978.1	1026.2	1366.2	704.1	624.1
57.5°	842.1	920.1	1146.2	670.1	592.1
60°	754.1	788.1	776.1	636.1	564.1
62.5°	684.1	708.1	704.1	602.1	532.1
65°	606.1	626.1	638.1	568.1	506.1
67.5°	528.1	546.1	564.1	526.1	470.1
70°	460.1	472.1	488.1	476.1	432.1
72.5°	390.1	404.1	414.1	424.1	382.1
75°	324.0	330.0	348.1	366.1	336.0
77.5°	264.0	270.0	282.0	302.0	286.0
80°	198.0	204.0	220.0	236.0	236.0
82.5°	140.0	144.0	154.0	176.0	186.0
85°	88.0	88.0	94.0	108.0	128.0
87.5°	34.0	34.0	40.0	48.0	64.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P895231
 CATALOG NUMBER: 8TMB-8SL-LVR-UNV-L840

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	17.09	18.58	17.46	18.89	19.20	14.90	16.38	15.26	16.69	17.01
	3H	18.62	19.95	19.00	20.27	20.64	17.23	18.55	17.60	18.88	19.24
	4H	19.21	20.45	19.61	20.80	21.18	18.18	19.42	18.58	19.77	20.15
	6H	19.67	20.82	20.08	21.18	21.58	18.96	20.11	19.37	20.48	20.87
	8H	19.81	20.90	20.24	21.29	21.70	19.27	20.36	19.70	20.75	21.16
	12H	19.91	20.95	20.34	21.34	21.77	19.52	20.57	19.95	20.95	21.38
4H	2H	17.64	18.89	18.04	19.24	19.62	16.00	17.24	16.40	17.59	17.97
	3H	19.42	20.44	19.83	20.85	21.25	18.45	19.47	18.86	19.88	20.28
	4H	20.14	21.06	20.57	21.48	21.92	19.51	20.44	19.94	20.85	21.29
	6H	20.72	21.53	21.18	21.97	22.43	20.40	21.21	20.86	21.65	22.11
	8H	20.91	21.66	21.37	22.11	22.58	20.75	21.50	21.22	21.95	22.42
	12H	21.05	21.72	21.53	22.20	22.67	21.04	21.71	21.52	22.19	22.66
8H	4H	20.44	21.20	20.91	21.64	22.11	19.90	20.65	20.36	21.10	21.56
	6H	21.15	21.78	21.65	22.27	22.75	20.93	21.56	21.43	22.05	22.53
	8H	21.42	21.98	21.93	22.49	22.98	21.38	21.94	21.89	22.45	22.94
	12H	21.62	22.12	22.13	22.62	23.18	21.76	22.26	22.27	22.75	23.32
12H	4H	20.48	21.15	20.96	21.63	22.10	19.93	20.61	20.42	21.09	21.56
	6H	21.22	21.78	21.73	22.29	22.78	21.00	21.56	21.51	22.07	22.56
	8H	21.54	22.04	22.05	22.53	23.10	21.51	22.00	22.02	22.50	23.06