

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: P894411

Luminaire Tested: 8TMB-10SL-LVRA-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-26)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-LVRA-UNV-L940
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

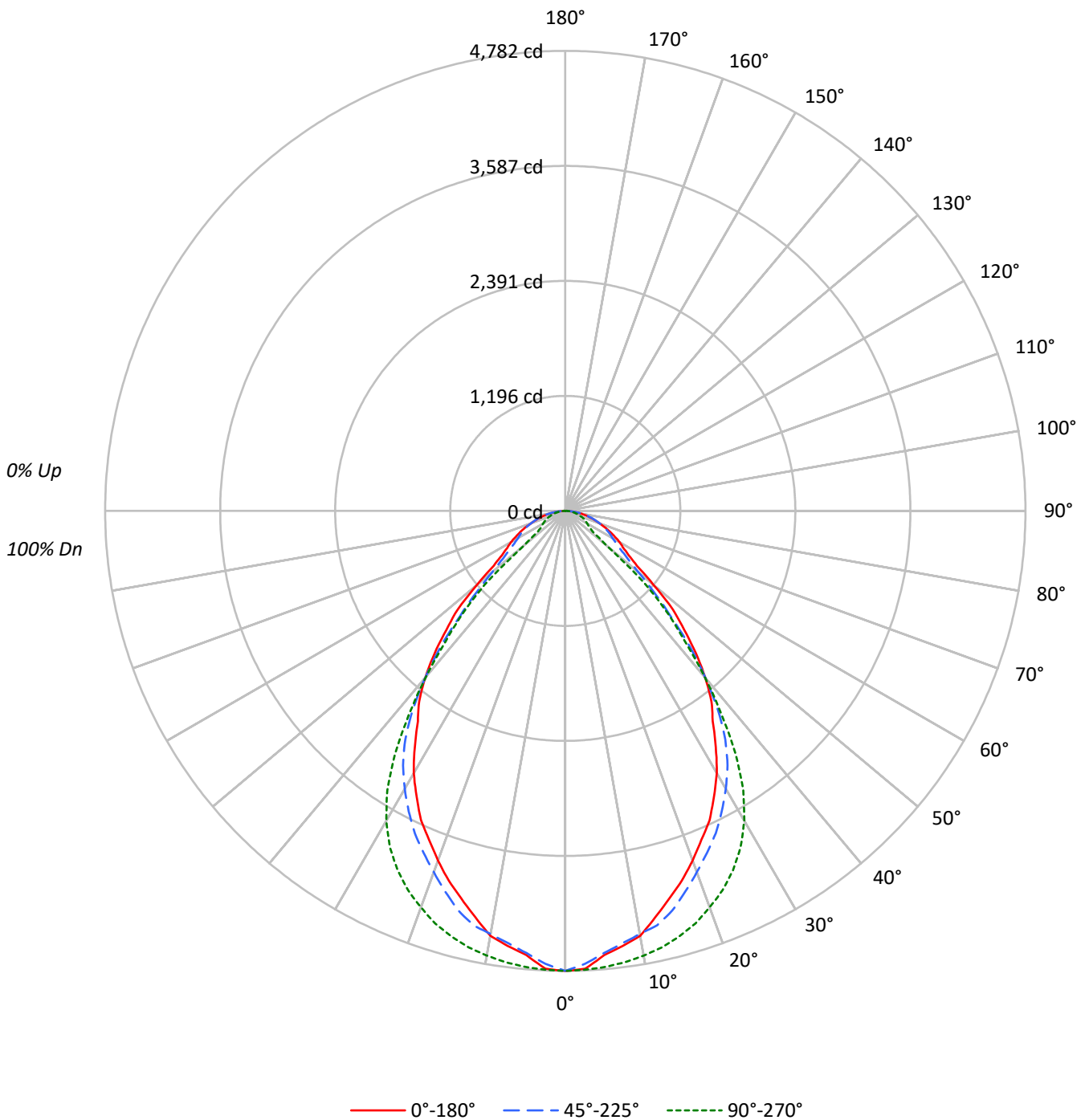
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7761.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.16 / 1.12
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	90	88	
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	80	78	
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	71	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	63	62	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	57	55	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	52	50	
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	47	45	
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	41	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	37	35	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16967	16967	16967
5°	16509	16435	16949
10°	16159	16088	16909
15°	15325	15796	16814
20°	14599	15092	16557
25°	13887	14480	16135
30°	12902	13669	15234
35°	11568	12561	13362
40°	10481	10504	10446
45°	8763	7762	7569
50°	6619	5463	3096
55°	4978	4369	1952
60°	4627	4023	1881
65°	4304	4015	1883
70°	3938	3938	1854
75°	3734	3836	1790
80°	3449	3627	1839
85°	3008	3159	2007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.7	5.7
10°-20°	1217.1	15.7
20°-30°	1725.9	22.2
30°-40°	1778.1	22.9
40°-50°	1241.9	16.0
50°-60°	595.9	7.7
60°-70°	418.1	5.4
70°-80°	261.4	3.4
80°-90°	80.8	1.0
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°	3384.8	43.6
0°-40°	5162.8	66.5
0°-60°	7000.7	90.2
0°-90°	7761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4782	4782	4782	4782	4782	
5°	4635	4629	4614	4735	4759	439
15°	4172	4203	4300	4423	4577	1175
25°	3547	3583	3699	3949	4121	1622
35°	2671	2744	2900	2960	3085	1683
45°	1746	1787	1547	1468	1508	1346
55°	805	765	706	452	316	754
65°	513	479	478	364	224	508
75°	272	269	280	242	131	287
85°	74	74	78	76	49	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4782.0	4782.0	4782.0	4782.0	4782.0
2.5°	4763.5	4748.7	4713.0	4778.3	4773.4
5°	4635.3	4629.2	4614.4	4735.2	4758.6
7.5°	4562.6	4550.3	4533.0	4666.1	4731.5
10°	4485.0	4499.8	4465.3	4587.3	4693.3
12.5°	4324.8	4364.2	4411.0	4505.9	4646.4
15°	4171.9	4202.7	4300.1	4423.3	4577.4
17.5°	4029.0	4064.7	4148.5	4333.4	4497.3
20°	3866.3	3915.6	3996.9	4233.5	4385.1
22.5°	3698.7	3744.3	3846.6	4100.4	4269.3
25°	3547.1	3582.8	3698.7	3948.8	4121.4
27.5°	3346.2	3412.7	3522.4	3764.0	3945.1
30°	3149.0	3205.7	3336.3	3539.7	3718.4
32.5°	2911.1	2993.7	3137.9	3293.2	3442.3
35°	2670.8	2743.5	2900.0	2960.4	3084.9
37.5°	2495.8	2515.5	2604.2	2596.8	2667.1
40°	2262.8	2302.3	2267.8	2175.3	2255.4
42.5°	2011.4	2058.2	1919.0	1811.7	1840.1
45°	1746.4	1787.1	1546.8	1467.9	1508.5
47.5°	1517.2	1513.5	1247.3	1194.3	1137.6
50°	1199.2	1238.6	989.7	891.1	560.8
52.5°	936.7	951.5	815.9	569.4	368.5
55°	804.8	765.4	706.2	452.3	315.5
57.5°	714.8	665.5	626.1	420.3	288.4
60°	652.0	596.5	566.9	399.3	265.0
62.5°	580.5	537.4	526.3	380.8	244.0
65°	512.7	479.4	478.2	363.6	224.3
67.5°	444.9	426.4	431.4	342.6	202.1
70°	379.6	375.9	379.6	315.5	178.7
72.5°	324.1	320.4	330.3	281.0	152.8
75°	272.4	268.7	279.8	241.6	130.6
77.5°	216.9	219.4	226.8	200.9	109.7
80°	168.8	168.8	177.5	157.8	90.0
82.5°	120.8	122.0	126.9	115.9	70.3
85°	73.9	73.9	77.6	76.4	49.3
87.5°	24.6	28.3	33.3	35.7	24.6
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	15.48	16.84	15.85	17.15	17.46	11.82	13.17	12.18	13.48	13.80
	3H	17.22	18.43	17.60	18.76	19.12	13.79	15.00	14.17	15.33	15.69
	4H	17.89	19.02	18.30	19.37	19.75	14.50	15.62	14.90	15.97	16.36
	6H	18.40	19.44	18.81	19.81	20.20	15.02	16.06	15.43	16.43	16.82
	8H	18.57	19.56	19.00	19.95	20.35	15.20	16.19	15.63	16.58	16.98
	12H	18.68	19.62	19.11	20.01	20.44	15.34	16.29	15.78	16.67	17.10
4H	2H	16.01	17.14	16.42	17.49	17.87	13.44	14.57	13.84	14.92	15.30
	3H	17.99	18.92	18.40	19.32	19.73	15.62	16.55	16.03	16.95	17.35
	4H	18.79	19.63	19.23	20.05	20.49	16.50	17.33	16.93	17.75	18.19
	6H	19.44	20.16	19.90	20.61	21.07	17.14	17.86	17.60	18.31	18.77
	8H	19.66	20.33	20.12	20.78	21.25	17.35	18.02	17.82	18.47	18.94
	12H	19.81	20.41	20.30	20.89	21.37	17.51	18.11	17.99	18.59	19.06
8H	4H	19.08	19.75	19.55	20.20	20.67	17.14	17.82	17.61	18.27	18.74
	6H	19.86	20.42	20.36	20.91	21.39	18.01	18.56	18.51	19.06	19.54
	8H	20.16	20.66	20.68	21.18	21.67	18.33	18.83	18.85	19.35	19.84
	12H	20.40	20.84	20.91	21.33	21.90	18.60	19.04	19.11	19.53	20.10
12H	4H	19.09	19.69	19.58	20.18	20.65	17.22	17.82	17.70	18.30	18.77
	6H	19.91	20.41	20.43	20.93	21.42	18.14	18.64	18.66	19.16	19.65
	8H	20.28	20.72	20.79	21.21	21.78	18.56	19.00	19.07	19.49	20.06