

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: P894415

Luminaire Tested: 8TMB-10SL-LVRF-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894415
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-10SL-LVRF-UNV-L840
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 4000K (C)
Light Source: -
Ballast/Driver: -

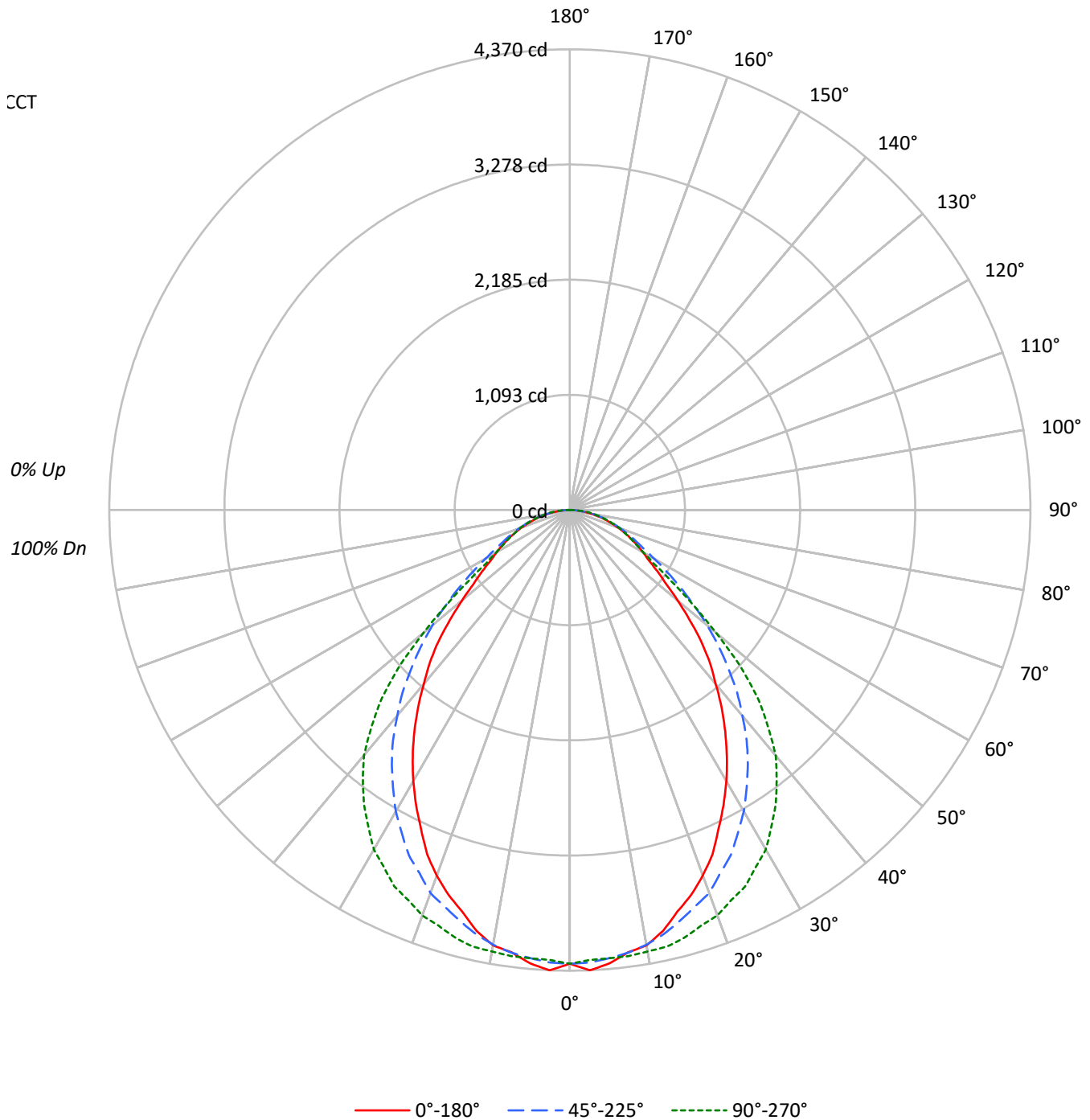
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8943.0 lumens
Efficiency: N/A
Efficacy: 127.8 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): 70
Input Voltage (V): 120
Input Current (Ain): 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15268	15268	15268
5°	15374	15198	15198
10°	15108	15084	15318
15°	14483	14820	15428
20°	13932	14600	15453
25°	13070	14148	15418
30°	12165	13522	15236
35°	11136	12755	14752
40°	9970	11794	14075
45°	8848	10678	12654
50°	7361	9399	9980
55°	6270	7917	7253
60°	5685	6542	5732
65°	5354	5730	5335
70°	5038	5316	5199
75°	4694	5061	4969
80°	4297	4663	4802
85°	3733	4100	5374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12654 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.4	4.6
10°-20°	1146.4	12.8
20°-30°	1664.7	18.6
30°-40°	1853.8	20.7
40°-50°	1637.8	18.3
50°-60°	1074.7	12.0
60°-70°	658.1	7.4
70°-80°	382.9	4.3
80°-90°	117.3	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°	3218.5	36.0
0°-40°	5072.3	56.7
0°-60°	7784.7	87.0
0°-90°	8943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4303	4303	4303	4303	4303	
5°	4316	4319	4267	4310	4267	407
15°	3943	3988	4034	4193	4200	1112
25°	3338	3419	3614	3844	3938	1536
35°	2571	2710	2945	3256	3406	1604
45°	1763	1871	2128	2414	2522	1349
55°	1014	1085	1280	1269	1172	919
65°	638	649	682	662	636	634
75°	342	347	369	376	362	363
85°	92	96	101	114	132	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4303.0	4303.0	4303.0	4303.0	4303.0
2.5°	4370.1	4316.4	4296.2	4316.4	4271.6
5°	4316.4	4318.6	4267.2	4309.7	4267.2
7.5°	4231.4	4260.4	4235.8	4300.7	4267.2
10°	4193.3	4195.6	4186.6	4253.7	4251.5
12.5°	4088.1	4094.9	4119.5	4220.2	4242.5
15°	3942.7	3987.5	4034.4	4193.3	4200.0
17.5°	3828.6	3882.3	3944.9	4115.0	4135.1
20°	3689.9	3712.2	3866.6	4016.5	4092.6
22.5°	3535.5	3578.0	3727.9	3929.3	4005.4
25°	3338.5	3419.1	3613.8	3844.2	3938.2
27.5°	3157.3	3251.3	3452.7	3710.0	3819.6
30°	2969.3	3076.7	3300.5	3553.4	3718.9
32.5°	2774.7	2908.9	3121.5	3412.4	3557.8
35°	2571.0	2709.8	2944.7	3255.8	3405.7
37.5°	2367.4	2501.7	2756.8	3090.2	3224.4
40°	2152.6	2284.6	2546.4	2884.3	3038.7
42.5°	1966.9	2081.0	2349.5	2638.2	2781.4
45°	1763.3	1870.7	2128.0	2414.4	2521.8
47.5°	1539.5	1664.8	1915.4	2150.4	2192.9
50°	1333.6	1463.4	1702.8	1839.3	1808.0
52.5°	1152.4	1262.0	1481.3	1539.5	1465.6
55°	1013.6	1085.3	1279.9	1268.7	1172.5
57.5°	886.1	930.9	1096.4	1033.8	942.0
60°	801.1	821.2	921.9	863.7	807.8
62.5°	720.5	729.5	783.2	751.8	709.3
65°	637.7	648.9	682.5	662.3	635.5
67.5°	561.6	566.1	597.4	593.0	559.4
70°	485.6	492.3	512.4	521.4	501.2
72.5°	411.7	418.4	438.6	447.5	429.6
75°	342.4	346.8	369.2	375.9	362.5
77.5°	275.2	284.2	297.6	308.8	293.1
80°	210.3	214.8	228.2	241.7	235.0
82.5°	147.7	154.4	163.3	181.2	185.7
85°	91.7	96.2	100.7	114.1	132.0
87.5°	35.8	38.0	44.8	49.2	64.9
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	17.00	18.48	17.36	18.79	19.11	17.65	19.13	18.02	19.45	19.76
	3H	18.60	19.93	18.98	20.25	20.62	19.09	20.41	19.47	20.74	21.10
	4H	19.22	20.46	19.62	20.81	21.19	19.69	20.93	20.09	21.28	21.66
	6H	19.69	20.84	20.10	21.20	21.59	20.18	21.33	20.59	21.69	22.09
	8H	19.84	20.93	20.27	21.32	21.72	20.38	21.47	20.80	21.86	22.26
	12H	19.94	20.98	20.37	21.37	21.80	20.54	21.59	20.97	21.97	22.40
4H	2H	17.62	18.86	18.02	19.21	19.59	18.15	19.39	18.55	19.74	20.12
	3H	19.44	20.47	19.85	20.87	21.27	19.84	20.87	20.25	21.27	21.67
	4H	20.18	21.11	20.61	21.52	21.96	20.60	21.52	21.03	21.94	22.38
	6H	20.78	21.58	21.24	22.03	22.49	21.23	22.04	21.69	22.48	22.94
	8H	20.98	21.73	21.44	22.17	22.64	21.49	22.24	21.95	22.68	23.15
	12H	21.12	21.79	21.60	22.27	22.74	21.71	22.38	22.19	22.86	23.33
8H	4H	20.50	21.25	20.96	21.70	22.16	20.87	21.62	21.33	22.06	22.53
	6H	21.22	21.85	21.72	22.34	22.82	21.64	22.26	22.14	22.76	23.23
	8H	21.50	22.06	22.01	22.57	23.06	21.99	22.55	22.50	23.06	23.55
	12H	21.71	22.21	22.22	22.70	23.27	22.30	22.80	22.81	23.29	23.86
12H	4H	20.53	21.21	21.02	21.68	22.16	20.89	21.56	21.37	22.04	22.51
	6H	21.29	21.85	21.80	22.36	22.85	21.69	22.25	22.20	22.76	23.25
	8H	21.62	22.12	22.13	22.61	23.18	22.09	22.59	22.60	23.08	23.65