

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: P894417

Luminaire Tested: 8TMB-10SL-LVRF-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894417
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-L930
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 90CRI, 3000K (C)
Light Source: -
Ballast/Driver: -

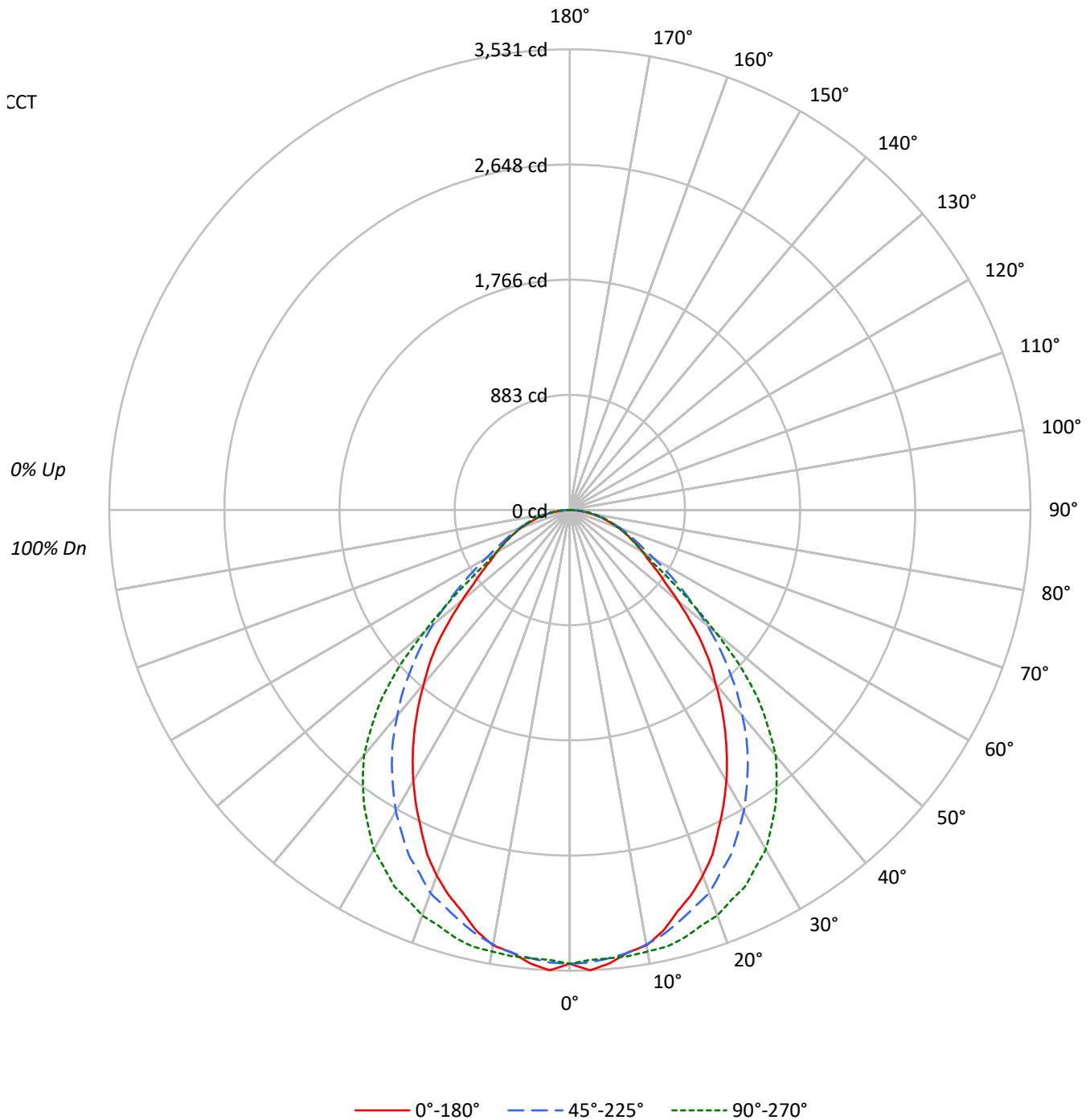
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7226.0 lumens
Efficiency: N/A
Efficacy: 103.2 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 (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	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12336	12336	12336
5°	12422	12280	12280
10°	12207	12188	12377
15°	11702	11975	12466
20°	11257	11797	12486
25°	10561	11432	12458
30°	9830	10926	12311
35°	8998	10306	11919
40°	8056	9530	11372
45°	7149	8628	10224
50°	5948	7595	8064
55°	5066	6398	5861
60°	4593	5286	4632
65°	4326	4629	4311
70°	4070	4295	4201
75°	3792	4089	4015
80°	3474	3768	3878
85°	3017	3314	4344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10224 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.2	4.6
10°-20°	926.3	12.8
20°-30°	1345.1	18.6
30°-40°	1497.9	20.7
40°-50°	1323.3	18.3
50°-60°	868.3	12.0
60°-70°	531.7	7.4
70°-80°	309.4	4.3
80°-90°	94.8	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°	2600.6	36.0
0°-40°	4098.4	56.7
0°-60°	6290.1	87.0
0°-90°	7226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3477	3477	3477	3477	3477	
5°	3488	3490	3448	3482	3448	329
15°	3186	3222	3260	3388	3394	899
25°	2698	2763	2920	3106	3182	1241
35°	2077	2190	2379	2631	2752	1296
45°	1425	1512	1719	1951	2038	1090
55°	819	877	1034	1025	947	743
65°	515	524	551	535	514	512
75°	277	280	298	304	293	293
85°	74	78	81	92	107	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3476.8	3476.8	3476.8	3476.8	3476.8
2.5°	3531.1	3487.7	3471.4	3487.7	3451.5
5°	3487.7	3489.5	3447.9	3482.2	3447.9
7.5°	3419.0	3442.5	3422.6	3475.0	3447.9
10°	3388.2	3390.0	3382.8	3437.0	3435.2
12.5°	3303.3	3308.7	3328.6	3409.9	3428.0
15°	3185.7	3221.9	3259.9	3388.2	3393.7
17.5°	3093.5	3136.9	3187.5	3324.9	3341.2
20°	2981.4	2999.5	3124.3	3245.4	3306.9
22.5°	2856.7	2891.0	3012.2	3174.9	3236.4
25°	2697.6	2762.7	2920.0	3106.2	3182.1
27.5°	2551.1	2627.1	2789.8	2997.7	3086.3
30°	2399.2	2486.0	2666.8	2871.1	3004.9
32.5°	2241.9	2350.4	2522.2	2757.2	2874.7
35°	2077.4	2189.5	2379.4	2630.7	2751.8
37.5°	1912.9	2021.4	2227.5	2496.9	2605.4
40°	1739.3	1846.0	2057.5	2330.5	2455.3
42.5°	1589.2	1681.5	1898.4	2131.7	2247.4
45°	1424.7	1511.5	1719.4	1950.9	2037.6
47.5°	1243.9	1345.2	1547.7	1737.5	1771.9
50°	1077.6	1182.4	1375.9	1486.2	1460.9
52.5°	931.1	1019.7	1196.9	1243.9	1184.3
55°	819.0	876.9	1034.2	1025.1	947.4
57.5°	716.0	752.1	885.9	835.3	761.2
60°	647.3	663.5	744.9	697.9	652.7
62.5°	582.2	589.4	632.8	607.5	573.1
65°	515.3	524.3	551.4	535.2	513.5
67.5°	453.8	457.4	482.7	479.1	452.0
70°	392.3	397.8	414.0	421.3	405.0
72.5°	332.7	338.1	354.4	361.6	347.1
75°	276.6	280.2	298.3	303.7	292.9
77.5°	222.4	229.6	240.5	249.5	236.9
80°	170.0	173.6	184.4	195.3	189.8
82.5°	119.3	124.8	132.0	146.4	150.1
85°	74.1	77.7	81.4	92.2	106.7
87.5°	28.9	30.7	36.2	39.8	52.4
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	16.26	17.74	16.62	18.05	18.37	16.91	18.39	17.28	18.71	19.02
	3H	17.86	19.19	18.24	19.51	19.88	18.35	19.67	18.72	20.00	20.36
	4H	18.48	19.72	18.88	20.07	20.45	18.95	20.19	19.35	20.54	20.92
	6H	18.95	20.09	19.36	20.46	20.85	19.44	20.59	19.85	20.95	21.34
	8H	19.10	20.19	19.53	20.58	20.98	19.64	20.73	20.06	21.12	21.52
	12H	19.20	20.24	19.63	20.63	21.06	19.80	20.85	20.23	21.23	21.66
4H	2H	16.88	18.12	17.28	18.47	18.85	17.40	18.65	17.80	19.00	19.38
	3H	18.70	19.73	19.11	20.13	20.53	19.10	20.13	19.51	20.53	20.93
	4H	19.44	20.37	19.87	20.78	21.22	19.86	20.78	20.29	21.20	21.64
	6H	20.04	20.84	20.50	21.29	21.75	20.49	21.30	20.95	21.74	22.20
	8H	20.23	20.99	20.70	21.43	21.90	20.75	21.50	21.21	21.94	22.41
	12H	20.38	21.05	20.86	21.53	22.00	20.97	21.64	21.45	22.12	22.59
8H	4H	19.76	20.51	20.22	20.96	21.42	20.13	20.88	20.59	21.32	21.79
	6H	20.48	21.11	20.98	21.60	22.08	20.90	21.52	21.40	22.02	22.49
	8H	20.75	21.32	21.27	21.83	22.31	21.24	21.81	21.76	22.32	22.80
	12H	20.97	21.47	21.48	21.96	22.53	21.56	22.06	22.07	22.55	23.12
12H	4H	19.79	20.46	20.28	20.94	21.42	20.15	20.82	20.63	21.30	21.77
	6H	20.55	21.11	21.06	21.62	22.11	20.95	21.51	21.46	22.02	22.51
	8H	20.88	21.38	21.39	21.87	22.43	21.35	21.85	21.86	22.34	22.91