

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: P894525

Luminaire Tested: 8TMB-12SL-LVRF-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894525
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-12SL-LVRF-UNV-L830
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3000K (C)
Light Source: -
Ballast/Driver: -

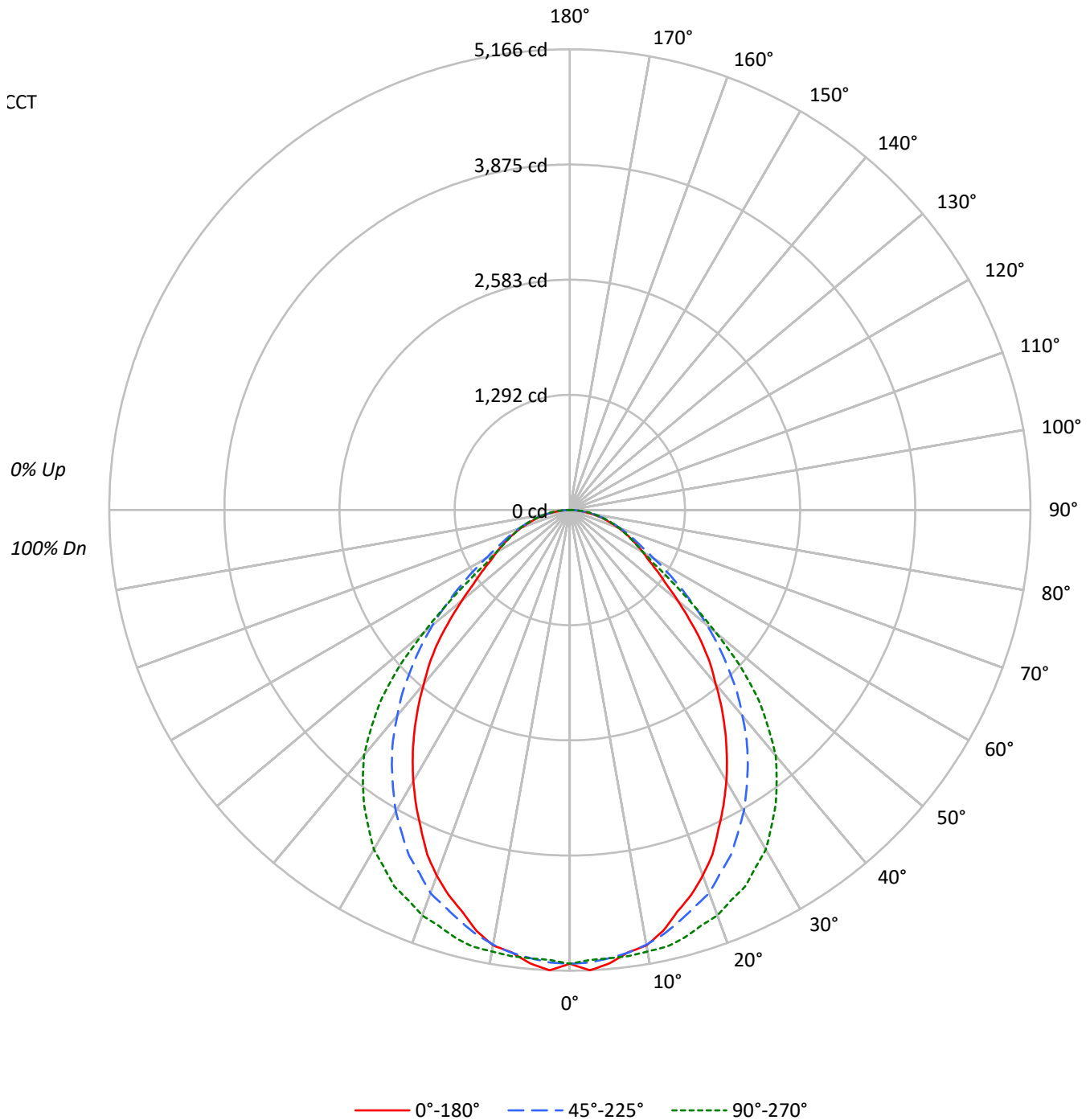
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10572.0 lumens
Efficiency: N/A
Efficacy: 119.1 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): 88.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.53
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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	71	67	67	65	
4	87	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	59	57	
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	52	50	
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	45	
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	40	
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	38	36	
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	33	
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18049	18049	18049
5°	18174	17967	17967
10°	17860	17831	18108
15°	17121	17519	18238
20°	16470	17259	18268
25°	15451	16725	18226
30°	14381	15985	18012
35°	13165	15078	17439
40°	11786	13943	16638
45°	10459	12623	14959
50°	8703	11112	11798
55°	7413	9360	8574
60°	6720	7734	6776
65°	6329	6774	6307
70°	5955	6285	6147
75°	5548	5984	5874
80°	5082	5513	5674
85°	4417	4845	6355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14959 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.6	4.6
10°-20°	1355.2	12.8
20°-30°	1968.0	18.6
30°-40°	2191.5	20.7
40°-50°	1936.1	18.3
50°-60°	1270.4	12.0
60°-70°	777.9	7.4
70°-80°	452.7	4.3
80°-90°	138.7	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°	3804.8	36.0
0°-40°	5996.2	56.7
0°-60°	9202.7	87.0
0°-90°	10572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5087	5087	5087	5087	5087	
5°	5103	5105	5044	5095	5044	481
15°	4661	4714	4769	4957	4965	1315
25°	3947	4042	4272	4544	4656	1816
35°	3039	3203	3481	3849	4026	1896
45°	2084	2211	2516	2854	2981	1595
55°	1198	1283	1513	1500	1386	1087
65°	754	767	807	783	751	750
75°	405	410	436	444	428	429
85°	108	114	119	135	156	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5086.8	5086.8	5086.8	5086.8	5086.8
2.5°	5166.1	5102.6	5078.8	5102.6	5049.7
5°	5102.6	5105.3	5044.4	5094.7	5044.4
7.5°	5002.1	5036.5	5007.4	5084.1	5044.4
10°	4957.1	4959.8	4949.2	5028.6	5025.9
12.5°	4832.8	4840.8	4869.9	4988.9	5015.3
15°	4660.9	4713.8	4769.3	4957.1	4965.1
17.5°	4526.0	4589.5	4663.5	4864.6	4888.4
20°	4362.0	4388.4	4570.9	4748.2	4838.1
22.5°	4179.5	4229.7	4406.9	4645.0	4734.9
25°	3946.7	4041.9	4272.0	4544.5	4655.6
27.5°	3732.4	3843.5	4081.6	4385.8	4515.4
30°	3510.2	3637.2	3901.7	4200.6	4396.4
32.5°	3280.1	3438.8	3690.1	4034.0	4205.9
35°	3039.4	3203.4	3481.1	3848.8	4026.0
37.5°	2798.6	2957.4	3258.9	3653.1	3811.8
40°	2544.7	2700.8	3010.3	3409.7	3592.2
42.5°	2325.2	2460.1	2777.5	3118.7	3288.0
45°	2084.4	2211.4	2515.6	2854.2	2981.2
47.5°	1819.9	1968.0	2264.3	2542.1	2592.3
50°	1576.6	1730.0	2013.0	2174.4	2137.3
52.5°	1362.3	1491.9	1751.1	1819.9	1732.6
55°	1198.3	1282.9	1513.1	1499.8	1386.1
57.5°	1047.5	1100.4	1296.2	1222.1	1113.6
60°	947.0	970.8	1089.8	1021.1	954.9
62.5°	851.8	862.3	925.8	888.8	838.5
65°	753.9	767.1	806.8	783.0	751.2
67.5°	664.0	669.2	706.3	701.0	661.3
70°	574.0	581.9	605.8	616.3	592.5
72.5°	486.7	494.7	518.5	529.0	507.9
75°	404.7	410.0	436.5	444.4	428.5
77.5°	325.4	335.9	351.8	365.0	346.5
80°	248.7	253.9	269.8	285.7	277.7
82.5°	174.6	182.5	193.1	214.3	219.6
85°	108.5	113.7	119.0	134.9	156.1
87.5°	42.3	45.0	52.9	58.2	76.7
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	17.58	19.06	17.95	19.38	19.69	18.23	19.71	18.60	20.03	20.34
	3H	19.18	20.51	19.56	20.84	21.20	19.67	20.99	20.05	21.32	21.69
	4H	19.80	21.04	20.20	21.39	21.77	20.27	21.52	20.67	21.87	22.24
	6H	20.27	21.42	20.68	21.78	22.18	20.76	21.91	21.17	22.27	22.67
	8H	20.42	21.51	20.85	21.90	22.30	20.96	22.05	21.38	22.44	22.84
	12H	20.52	21.57	20.95	21.95	22.38	21.13	22.17	21.56	22.55	22.98
4H	2H	18.20	19.45	18.60	19.79	20.17	18.73	19.97	19.13	20.32	20.70
	3H	20.02	21.05	20.43	21.45	21.85	20.42	21.45	20.83	21.85	22.25
	4H	20.76	21.69	21.20	22.10	22.54	21.18	22.10	21.61	22.52	22.96
	6H	21.36	22.16	21.82	22.61	23.07	21.81	22.62	22.27	23.06	23.52
	8H	21.56	22.31	22.02	22.75	23.22	22.07	22.82	22.53	23.26	23.73
	12H	21.70	22.37	22.18	22.85	23.32	22.29	22.96	22.77	23.44	23.91
8H	4H	21.08	21.83	21.54	22.28	22.75	21.45	22.20	21.91	22.64	23.11
	6H	21.80	22.43	22.30	22.92	23.40	22.22	22.85	22.72	23.34	23.82
	8H	22.08	22.64	22.59	23.15	23.64	22.57	23.13	23.08	23.64	24.13
	12H	22.30	22.79	22.81	23.28	23.85	22.89	23.38	23.40	23.87	24.44
12H	4H	21.12	21.79	21.60	22.27	22.74	21.47	22.14	21.95	22.62	23.09
	6H	21.87	22.43	22.38	22.94	23.43	22.27	22.83	22.78	23.34	23.83
	8H	22.20	22.70	22.71	23.19	23.76	22.67	23.17	23.18	23.66	24.23