

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: P894510

Luminaire Tested: 8TMB-12SL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894510
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-12SL-LVR-UNV-L835
Description: 12000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

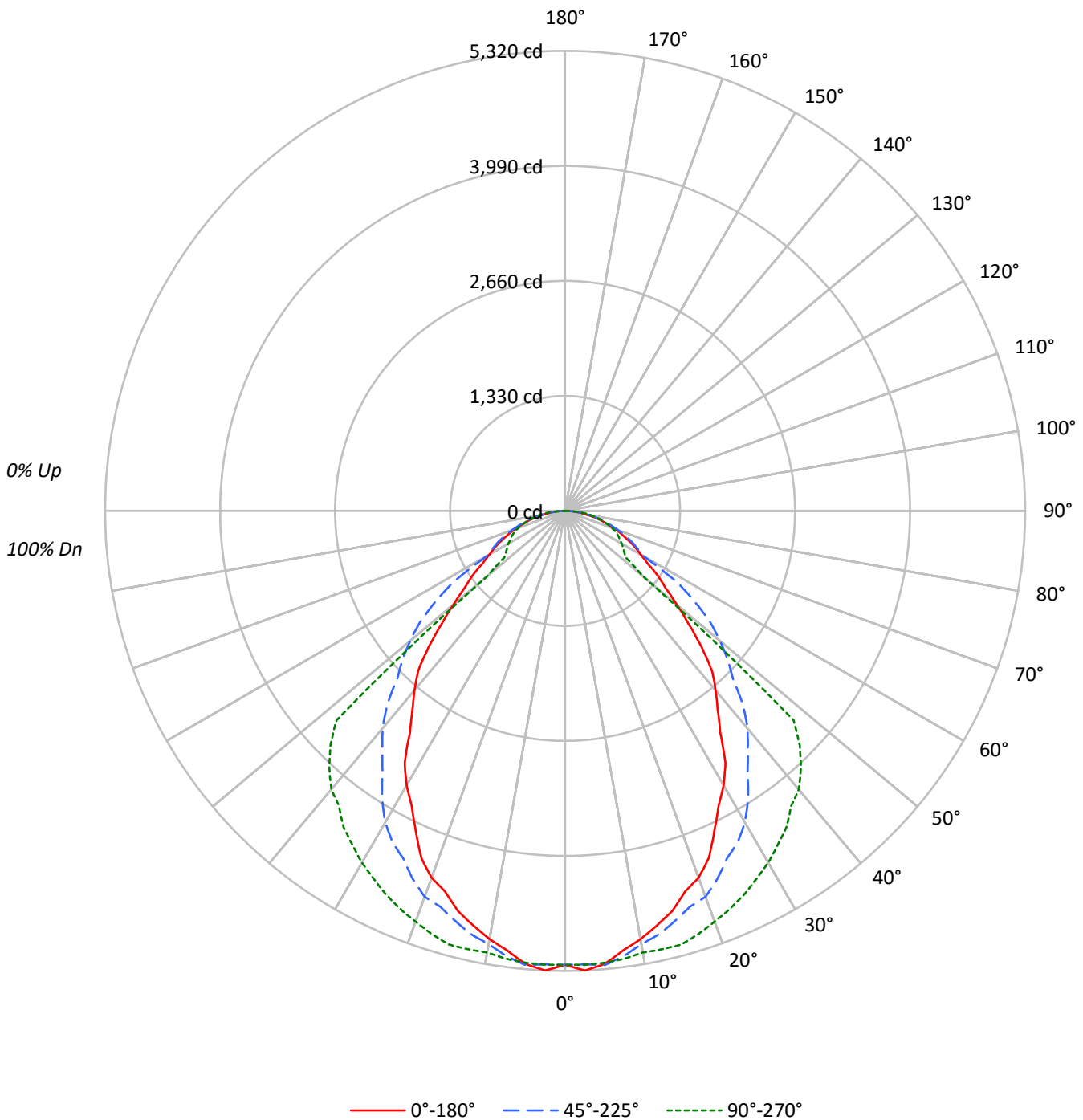
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11205.0 lumens
Efficiency: N/A
Efficacy: 126.2 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): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18630	18630	18630
5°	18730	18778	18682
10°	18116	18328	18686
15°	17593	18036	19071
20°	17041	17932	19087
25°	15989	17354	19170
30°	15019	17040	19249
35°	13544	15936	19340
40°	12545	15203	19476
45°	11222	13779	19255
50°	9311	12908	6469
55°	8112	11330	5176
60°	7174	7384	5366
65°	6821	7182	5696
70°	6399	6788	6009
75°	5955	6397	6176
80°	5425	6028	6465
85°	4804	5129	6986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 19255 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	4.4
10°-20°	1401.1	12.5
20°-30°	2061.0	18.4
30°-40°	2356.9	21.0
40°-50°	2231.8	19.9
50°-60°	1229.6	11.0
60°-70°	789.5	7.0
70°-80°	487.2	4.3
80°-90°	150.0	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°	3960.0	35.3
0°-40°	6316.9	56.4
0°-60°	9778.3	87.3
0°-90°	11205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5251	5251	5251	5251	5251	
5°	5259	5302	5272	5272	5245	493
15°	4789	4848	4910	5168	5192	1345
25°	4084	4266	4433	4722	4897	1881
35°	3127	3395	3679	4213	4465	1976
45°	2236	2448	2746	3524	3837	1711
55°	1311	1376	1832	944	837	1173
65°	812	839	855	762	678	804
75°	434	442	467	491	450	462
85°	118	118	126	145	172	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5250.7	5250.7	5250.7	5250.7	5250.7
2.5°	5320.4	5333.8	5248.0	5245.3	5253.4
5°	5258.7	5301.6	5272.1	5272.1	5245.3
7.5°	5127.3	5199.7	5191.7	5253.4	5223.9
10°	5028.1	5087.1	5087.1	5248.0	5186.3
12.5°	4910.1	4977.2	5014.7	5183.6	5191.7
15°	4789.4	4848.4	4910.1	5167.6	5191.7
17.5°	4615.1	4722.4	4800.2	5052.2	5130.0
20°	4513.2	4577.6	4749.2	4953.0	5054.9
22.5°	4344.3	4438.1	4604.4	4832.3	4982.5
25°	4084.2	4266.5	4432.8	4722.4	4896.7
27.5°	3842.8	3979.6	4322.8	4628.5	4794.8
30°	3665.8	3773.1	4159.2	4491.8	4698.3
32.5°	3451.3	3625.6	3939.4	4357.7	4577.6
35°	3126.8	3395.0	3679.2	4212.9	4465.0
37.5°	2898.9	3083.9	3470.1	4062.7	4296.0
40°	2708.5	2877.4	3282.3	3875.0	4204.8
42.5°	2518.1	2654.8	3046.4	3735.5	4035.9
45°	2236.5	2448.4	2746.0	3523.7	3837.4
47.5°	1941.5	2166.8	2550.3	3344.0	3585.4
50°	1686.8	1866.4	2338.4	2987.4	1171.9
52.5°	1464.2	1630.4	2113.1	1080.7	884.9
55°	1311.3	1375.7	1831.6	943.9	836.7
57.5°	1129.0	1233.6	1536.6	898.4	793.8
60°	1011.0	1056.6	1040.5	852.8	756.2
62.5°	917.1	949.3	943.9	807.2	713.3
65°	812.5	839.4	855.4	761.6	678.5
67.5°	708.0	732.1	756.2	705.3	630.2
70°	616.8	632.9	654.3	638.2	579.2
72.5°	522.9	541.7	555.1	568.5	512.2
75°	434.4	442.5	466.6	490.7	450.5
77.5°	354.0	362.0	378.1	404.9	383.5
80°	265.5	273.5	295.0	316.4	316.4
82.5°	187.7	193.1	206.5	236.0	249.4
85°	118.0	118.0	126.0	144.8	171.6
87.5°	45.6	45.6	53.6	64.4	85.8
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	18.11	19.59	18.48	19.91	20.22	15.91	17.40	16.28	17.71	18.03
	3H	19.64	20.96	20.02	21.29	21.66	18.24	19.57	18.62	19.90	20.26
	4H	20.23	21.47	20.63	21.82	22.20	19.19	20.44	19.59	20.79	21.17
	6H	20.69	21.83	21.10	22.20	22.59	19.98	21.13	20.39	21.49	21.89
	8H	20.83	21.92	21.26	22.31	22.72	20.29	21.38	20.72	21.77	22.17
	12H	20.93	21.97	21.36	22.36	22.78	20.54	21.58	20.97	21.97	22.40
4H	2H	18.66	19.91	19.06	20.25	20.63	17.02	18.26	17.42	18.61	18.99
	3H	20.43	21.46	20.85	21.86	22.27	19.46	20.49	19.87	20.89	21.29
	4H	21.15	22.08	21.59	22.50	22.94	20.53	21.46	20.96	21.87	22.31
	6H	21.74	22.55	22.20	22.99	23.45	21.42	22.22	21.88	22.67	23.13
	8H	21.93	22.68	22.39	23.13	23.59	21.77	22.52	22.23	22.97	23.43
	12H	22.07	22.74	22.55	23.22	23.69	22.06	22.73	22.54	23.21	23.68
8H	4H	21.46	22.21	21.93	22.66	23.13	20.92	21.67	21.38	22.11	22.58
	6H	22.17	22.80	22.67	23.29	23.77	21.95	22.58	22.45	23.07	23.55
	8H	22.43	23.00	22.95	23.51	24.00	22.40	22.96	22.91	23.47	23.96
	12H	22.64	23.14	23.15	23.63	24.20	22.78	23.28	23.29	23.77	24.34
12H	4H	21.50	22.17	21.98	22.65	23.12	20.95	21.62	21.43	22.10	22.58
	6H	22.24	22.80	22.75	23.31	23.80	22.02	22.58	22.53	23.09	23.58
	8H	22.56	23.06	23.07	23.55	24.11	22.52	23.02	23.03	23.52	24.08