

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: P895237

Luminaire Tested: 8TMB-8SL-LVRA-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895237
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-8SL-LVRA-UNV-L830
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

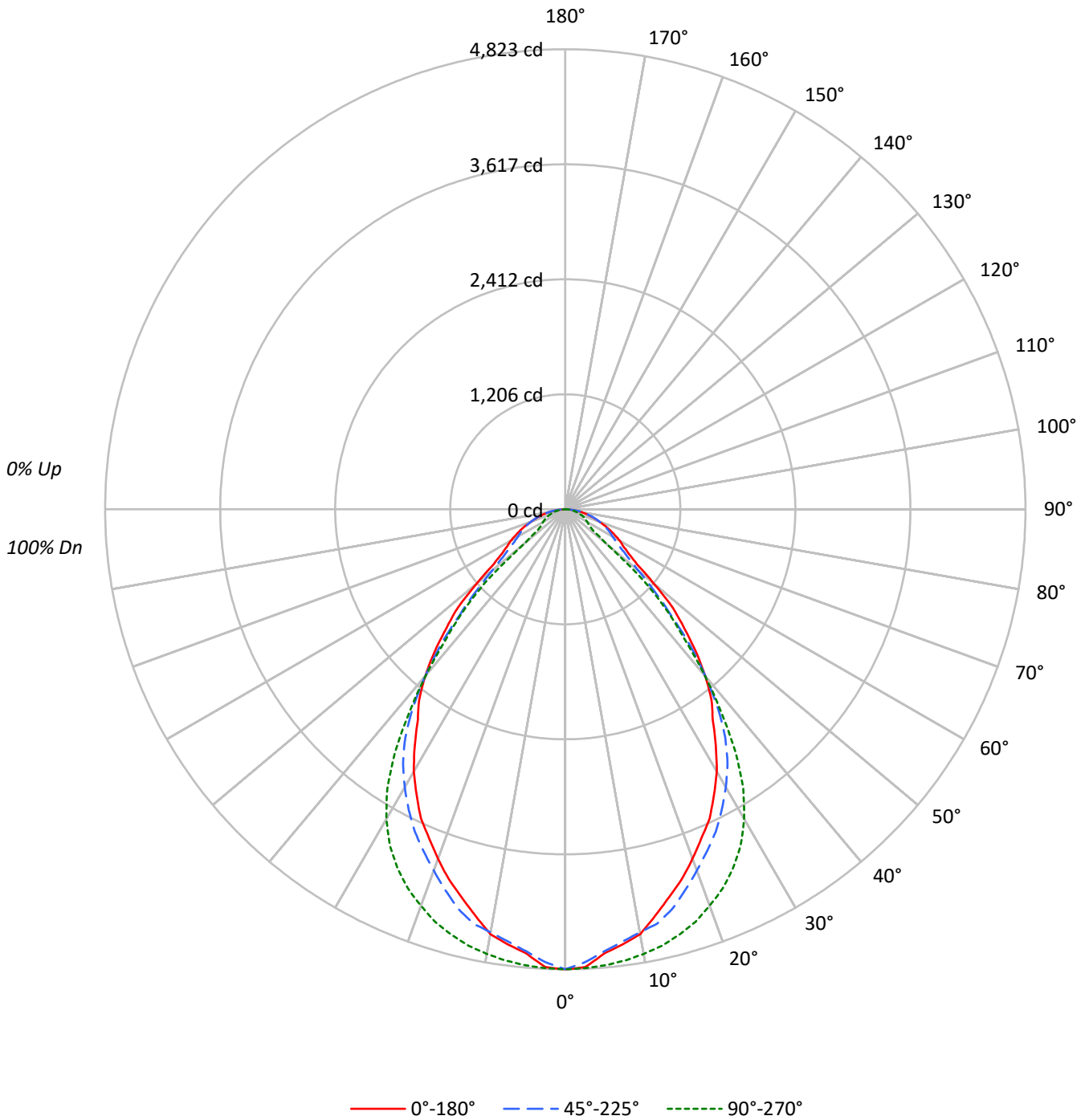
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7827.0 lumens
Efficiency: N/A
Efficacy: 131.3 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): 59.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 3.8
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	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78		
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62		
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55		
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45		
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17112	17112	17112
5°	16650	16575	17093
10°	16296	16224	17053
15°	15455	15930	16957
20°	14722	15220	16698
25°	14005	14603	16272
30°	13011	13785	15364
35°	11667	12668	13476
40°	10570	10593	10535
45°	8838	7827	7634
50°	6676	5509	3122
55°	5021	4406	1968
60°	4666	4058	1896
65°	4341	4049	1899
70°	3971	3971	1869
75°	3766	3869	1807
80°	3480	3657	1853
85°	3037	3188	2023

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9044 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.5	5.7
10°-20°	1227.5	15.7
20°-30°	1740.6	22.2
30°-40°	1793.2	22.9
40°-50°	1252.5	16.0
50°-60°	601.0	7.7
60°-70°	421.6	5.4
70°-80°	263.6	3.4
80°-90°	81.5	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°	3413.5	43.6
0°-40°	5206.7	66.5
0°-60°	7060.2	90.2
0°-90°	7827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4823	4823	4823	4823	4823	
5°	4675	4668	4654	4775	4799	442
15°	4207	4238	4337	4461	4616	1185
25°	3577	3613	3730	3982	4156	1636
35°	2694	2767	2925	2986	3111	1697
45°	1761	1802	1560	1480	1521	1357
55°	812	772	712	456	318	761
65°	517	484	482	367	226	512
75°	275	271	282	244	132	289
85°	75	75	78	77	50	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4822.7	4822.7	4822.7	4822.7	4822.7
2.5°	4804.0	4789.1	4753.1	4818.9	4814.0
5°	4674.8	4668.5	4653.6	4775.4	4799.0
7.5°	4601.4	4589.0	4571.6	4705.8	4771.7
10°	4523.1	4538.0	4503.2	4626.3	4733.2
12.5°	4361.5	4401.3	4448.5	4544.2	4685.9
15°	4207.4	4238.5	4336.7	4461.0	4616.3
17.5°	4063.2	4099.3	4183.8	4370.2	4535.5
20°	3899.1	3948.9	4030.9	4269.5	4422.4
22.5°	3730.1	3776.1	3879.3	4135.3	4305.6
25°	3577.2	3613.3	3730.1	3982.4	4156.4
27.5°	3374.6	3441.7	3552.4	3796.0	3978.7
30°	3175.7	3232.9	3364.7	3569.8	3750.0
32.5°	2935.9	3019.1	3164.6	3321.2	3471.6
35°	2693.5	2766.8	2924.7	2985.6	3111.1
37.5°	2517.0	2536.9	2626.4	2618.9	2689.8
40°	2282.1	2321.8	2287.0	2193.8	2274.6
42.5°	2028.5	2075.7	1935.3	1827.1	1855.7
45°	1761.3	1802.3	1559.9	1480.4	1521.4
47.5°	1530.1	1526.3	1257.9	1204.4	1147.2
50°	1209.4	1249.2	998.1	898.7	565.5
52.5°	944.6	959.6	822.8	574.2	371.6
55°	811.6	771.9	712.2	456.2	318.2
57.5°	720.9	671.2	631.4	423.8	290.9
60°	657.5	601.6	571.8	402.7	267.2
62.5°	585.4	541.9	530.7	384.1	246.1
65°	517.1	483.5	482.3	366.7	226.2
67.5°	448.7	430.1	435.0	345.5	203.8
70°	382.8	379.1	382.8	318.2	180.2
72.5°	326.9	323.2	333.1	283.4	154.1
75°	274.7	271.0	282.2	243.6	131.8
77.5°	218.8	221.2	228.7	202.6	110.6
80°	170.3	170.3	179.0	159.1	90.7
82.5°	121.8	123.1	128.0	116.8	70.8
85°	74.6	74.6	78.3	77.1	49.7
87.5°	24.9	28.6	33.6	36.0	24.9
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	15.51	16.87	15.88	17.18	17.49	11.84	13.20	12.21	13.51	13.83
	3H	17.25	18.46	17.63	18.79	19.15	13.82	15.03	14.20	15.36	15.72
	4H	17.92	19.05	18.33	19.40	19.78	14.53	15.65	14.93	16.00	16.39
	6H	18.43	19.47	18.84	19.84	20.23	15.05	16.09	15.46	16.46	16.85
	8H	18.60	19.59	19.03	19.98	20.38	15.23	16.22	15.66	16.61	17.01
	12H	18.71	19.65	19.14	20.04	20.47	15.37	16.32	15.80	16.70	17.13
4H	2H	16.04	17.17	16.45	17.52	17.90	13.47	14.59	13.87	14.95	15.33
	3H	18.02	18.95	18.43	19.35	19.76	15.65	16.58	16.06	16.98	17.38
	4H	18.82	19.66	19.26	20.08	20.52	16.53	17.36	16.96	17.78	18.22
	6H	19.47	20.19	19.93	20.64	21.10	17.17	17.89	17.63	18.34	18.80
	8H	19.69	20.36	20.15	20.81	21.28	17.38	18.05	17.84	18.50	18.97
	12H	19.84	20.44	20.33	20.92	21.40	17.53	18.13	18.02	18.62	19.09
8H	4H	19.11	19.78	19.57	20.23	20.70	17.17	17.85	17.64	18.30	18.77
	6H	19.89	20.45	20.39	20.94	21.42	18.04	18.59	18.54	19.09	19.57
	8H	20.19	20.69	20.71	21.21	21.70	18.36	18.86	18.88	19.38	19.87
	12H	20.43	20.87	20.94	21.36	21.93	18.63	19.07	19.14	19.56	20.13
12H	4H	19.12	19.72	19.61	20.21	20.68	17.25	17.85	17.73	18.33	18.80
	6H	19.94	20.44	20.46	20.96	21.45	18.17	18.67	18.69	19.19	19.68
	8H	20.31	20.75	20.82	21.24	21.81	18.59	19.03	19.10	19.52	20.09