

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: P895125

Luminaire Tested: 8TMB-6SL-LVRA-UNV-L830

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895125
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-6SL-LVRA-UNV-L830
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

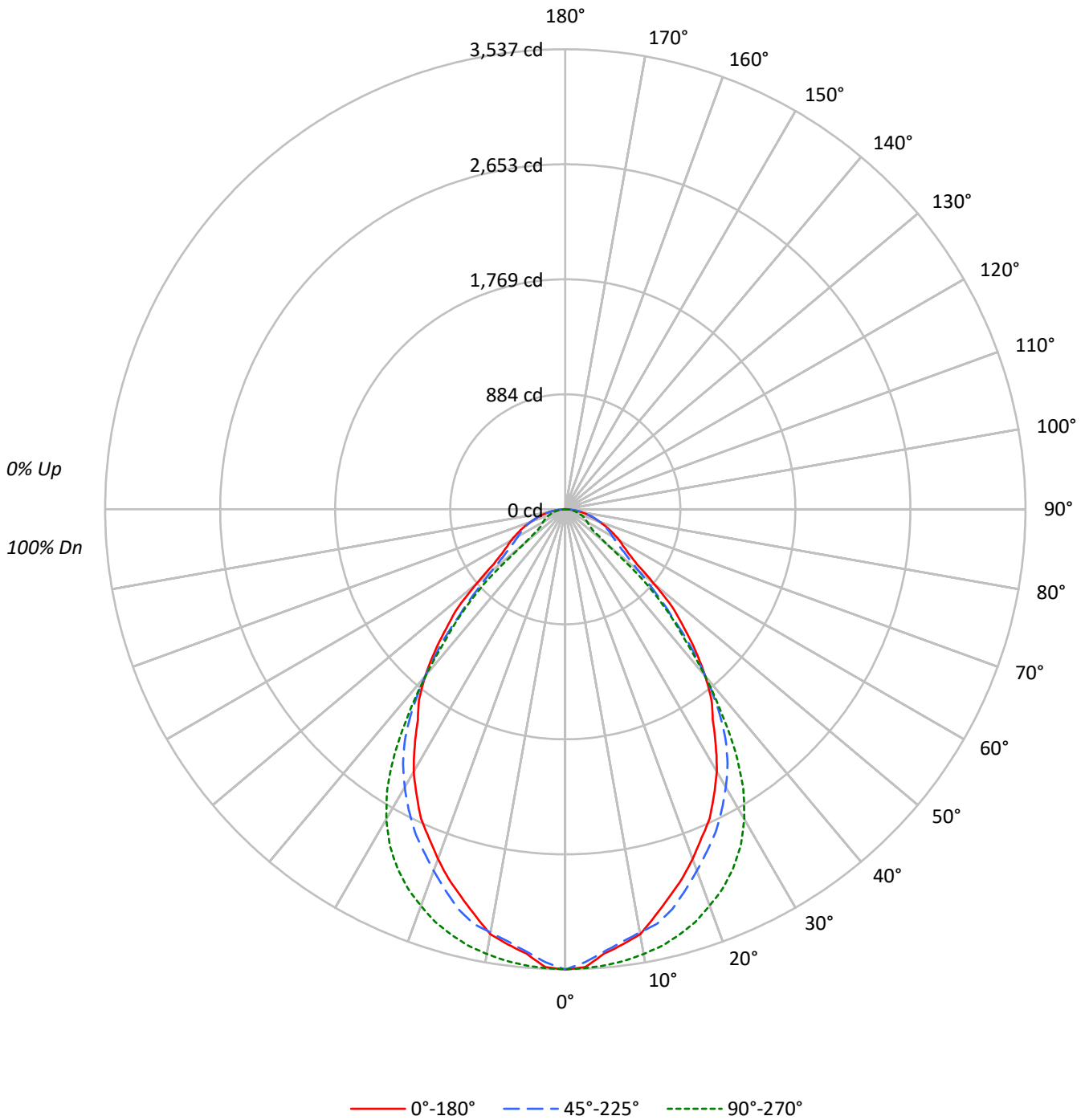
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5741.0 lumens
Efficiency: N/A
Efficacy: 136.0 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): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.51
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	93	92	90	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	85	82	80	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	61	56	52	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	46	40	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12551	12551	12551
5°	12213	12157	12537
10°	11953	11901	12508
15°	11336	11684	12438
20°	10799	11164	12248
25°	10272	10711	11935
30°	9544	10111	11269
35°	8557	9292	9884
40°	7753	7770	7728
45°	6483	5741	5599
50°	4897	4041	2290
55°	3683	3232	1444
60°	3423	2976	1391
65°	3184	2970	1393
70°	2913	2913	1371
75°	2762	2838	1324
80°	2552	2683	1361
85°	2227	2337	1486

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6634 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.8	5.7
10°-20°	900.3	15.7
20°-30°	1276.7	22.2
30°-40°	1315.3	22.9
40°-50°	918.7	16.0
50°-60°	440.8	7.7
60°-70°	309.3	5.4
70°-80°	193.4	3.4
80°-90°	59.8	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°	2503.8	43.6
0°-40°	3819.1	66.5
0°-60°	5178.6	90.2
0°-90°	5741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3537	3537	3537	3537	3537	
5°	3429	3424	3413	3503	3520	325
15°	3086	3109	3181	3272	3386	869
25°	2624	2650	2736	2921	3049	1200
35°	1976	2029	2145	2190	2282	1245
45°	1292	1322	1144	1086	1116	995
55°	595	566	522	335	233	558
65°	379	355	354	269	166	376
75°	202	199	207	179	97	212
85°	55	55	57	56	36	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3537.4	3537.4	3537.4	3537.4	3537.4
2.5°	3523.7	3512.7	3486.3	3534.6	3531.0
5°	3428.9	3424.3	3413.4	3502.7	3520.0
7.5°	3375.1	3366.0	3353.2	3451.7	3500.0
10°	3317.6	3328.6	3303.1	3393.3	3471.7
12.5°	3199.1	3228.3	3262.9	3333.1	3437.1
15°	3086.1	3108.9	3180.9	3272.1	3386.0
17.5°	2980.3	3006.8	3068.8	3205.5	3326.8
20°	2860.0	2896.4	2956.6	3131.7	3243.8
22.5°	2736.0	2769.7	2845.4	3033.2	3158.1
25°	2623.8	2650.3	2736.0	2921.1	3048.7
27.5°	2475.2	2524.5	2605.6	2784.3	2918.3
30°	2329.4	2371.3	2467.9	2618.4	2750.6
32.5°	2153.4	2214.5	2321.2	2436.0	2546.4
35°	1975.6	2029.4	2145.2	2189.9	2282.0
37.5°	1846.2	1860.8	1926.4	1920.9	1972.9
40°	1673.9	1703.0	1677.5	1609.1	1668.4
42.5°	1487.9	1522.5	1419.5	1340.2	1361.2
45°	1291.9	1322.0	1144.2	1085.8	1115.9
47.5°	1122.3	1119.6	922.6	883.4	841.5
50°	887.1	916.2	732.1	659.2	414.8
52.5°	692.9	703.8	603.5	421.2	272.6
55°	595.3	566.2	522.4	334.6	233.4
57.5°	528.8	492.3	463.1	310.9	213.3
60°	482.3	441.3	419.4	295.4	196.0
62.5°	429.4	397.5	389.3	281.7	180.5
65°	379.3	354.6	353.7	268.9	165.9
67.5°	329.1	315.4	319.1	253.5	149.5
70°	280.8	278.1	280.8	233.4	132.2
72.5°	239.8	237.0	244.3	207.9	113.0
75°	201.5	198.7	207.0	178.7	96.6
77.5°	160.5	162.3	167.8	148.6	81.1
80°	124.9	124.9	131.3	116.7	66.6
82.5°	89.3	90.3	93.9	85.7	52.0
85°	54.7	54.7	57.4	56.5	36.5
87.5°	18.2	21.0	24.6	26.4	18.2
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	14.44	15.79	14.80	16.10	16.42	10.77	12.12	11.13	12.43	12.75
	3H	16.17	17.38	16.55	17.71	18.08	12.74	13.95	13.12	14.28	14.65
	4H	16.85	17.97	17.25	18.32	18.71	13.45	14.58	13.85	14.93	15.31
	6H	17.35	18.39	17.77	18.76	19.15	13.97	15.01	14.39	15.38	15.77
	8H	17.52	18.51	17.95	18.90	19.30	14.16	15.14	14.59	15.53	15.94
	12H	17.63	18.58	18.07	18.96	19.39	14.30	15.24	14.73	15.62	16.05
4H	2H	14.97	16.09	15.37	16.44	16.83	12.39	13.52	12.79	13.87	14.25
	3H	16.94	17.87	17.36	18.28	18.68	14.57	15.50	14.98	15.90	16.30
	4H	17.75	18.58	18.18	19.00	19.44	15.45	16.28	15.88	16.70	17.14
	6H	18.39	19.11	18.85	19.56	20.02	16.09	16.82	16.55	17.26	17.73
	8H	18.61	19.29	19.08	19.73	20.20	16.30	16.98	16.77	17.42	17.89
	12H	18.76	19.36	19.25	19.84	20.32	16.46	17.06	16.94	17.54	18.01
8H	4H	18.03	18.71	18.50	19.15	19.62	16.10	16.77	16.57	17.22	17.69
	6H	18.81	19.37	19.31	19.86	20.34	16.96	17.51	17.46	18.01	18.49
	8H	19.12	19.61	19.64	20.13	20.62	17.29	17.79	17.81	18.30	18.79
	12H	19.35	19.79	19.86	20.28	20.85	17.55	17.99	18.06	18.48	19.05
12H	4H	18.05	18.65	18.53	19.13	19.60	16.17	16.77	16.66	17.25	17.73
	6H	18.87	19.37	19.39	19.88	20.37	17.10	17.60	17.62	18.11	18.60
	8H	19.23	19.67	19.74	20.16	20.73	17.51	17.95	18.02	18.44	19.01