

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: P895129

Luminaire Tested: 8TMB-6SL-LVRA-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895129
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-L930
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

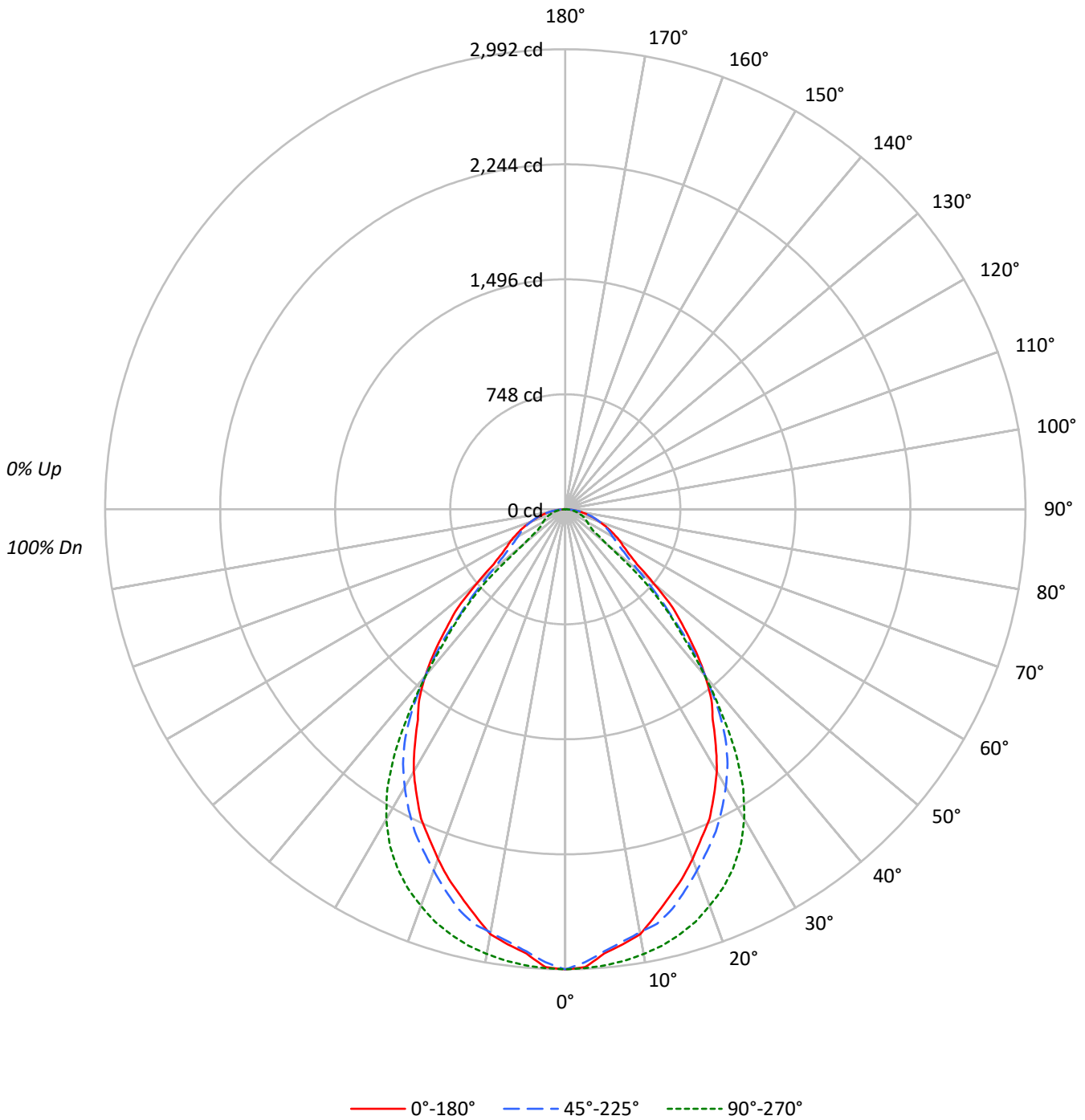
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4856.0 lumens
Efficiency: N/A
Efficacy: 115.1 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	100	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10616	10616	10616
5°	10330	10283	10605
10°	10110	10066	10580
15°	9588	9883	10520
20°	9134	9443	10360
25°	8689	9060	10095
30°	8072	8553	9532
35°	7238	7859	8361
40°	6558	6572	6536
45°	5483	4856	4736
50°	4142	3418	1937
55°	3115	2734	1221
60°	2895	2517	1177
65°	2693	2512	1178
70°	2464	2464	1160
75°	2336	2400	1120
80°	2158	2268	1150
85°	1885	1979	1254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5611 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	5.7
10°-20°	761.5	15.7
20°-30°	1079.9	22.2
30°-40°	1112.5	22.9
40°-50°	777.1	16.0
50°-60°	372.9	7.7
60°-70°	261.6	5.4
70°-80°	163.5	3.4
80°-90°	50.6	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°	2117.8	43.6
0°-40°	3230.3	66.5
0°-60°	4380.3	90.2
0°-90°	4856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2992	2992	2992	2992	2992	
5°	2900	2896	2887	2963	2977	274
15°	2610	2630	2690	2768	2864	735
25°	2219	2242	2314	2471	2579	1015
35°	1671	1717	1814	1852	1930	1053
45°	1093	1118	968	918	944	842
55°	504	479	442	283	197	472
65°	321	300	299	228	140	318
75°	170	168	175	151	82	179
85°	46	46	49	48	31	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2992.1	2992.1	2992.1	2992.1	2992.1
2.5°	2980.5	2971.2	2948.9	2989.7	2986.7
5°	2900.3	2896.4	2887.2	2962.8	2977.4
7.5°	2854.8	2847.1	2836.3	2919.6	2960.4
10°	2806.2	2815.5	2793.9	2870.2	2936.5
12.5°	2706.0	2730.6	2759.9	2819.3	2907.2
15°	2610.3	2629.6	2690.5	2767.7	2864.0
17.5°	2520.9	2543.3	2595.7	2711.4	2813.9
20°	2419.1	2449.9	2500.8	2648.9	2743.8
22.5°	2314.2	2342.8	2406.8	2565.6	2671.3
25°	2219.4	2241.7	2314.2	2470.8	2578.7
27.5°	2093.7	2135.3	2203.9	2355.1	2468.5
30°	1970.3	2005.8	2087.5	2214.7	2326.6
32.5°	1821.5	1873.1	1963.3	2060.5	2153.8
35°	1671.1	1716.6	1814.5	1852.3	1930.2
37.5°	1561.6	1573.9	1629.4	1624.8	1668.8
40°	1415.8	1440.5	1418.9	1361.1	1411.2
42.5°	1258.5	1287.8	1200.7	1133.6	1151.3
45°	1092.7	1118.2	967.8	918.4	943.9
47.5°	949.3	947.0	780.4	747.2	711.8
50°	750.3	775.0	619.2	557.5	350.9
52.5°	586.1	595.3	510.5	356.3	230.6
55°	503.6	478.9	441.9	283.0	197.4
57.5°	447.3	416.4	391.7	263.0	180.4
60°	407.9	373.2	354.7	249.9	165.8
62.5°	363.2	336.2	329.3	238.3	152.7
65°	320.8	300.0	299.2	227.5	140.3
67.5°	278.4	266.8	269.9	214.4	126.5
70°	237.5	235.2	237.5	197.4	111.8
72.5°	202.8	200.5	206.7	175.8	95.6
75°	170.4	168.1	175.1	151.1	81.7
77.5°	135.7	137.3	141.9	125.7	68.6
80°	105.6	105.6	111.0	98.7	56.3
82.5°	75.6	76.3	79.4	72.5	44.0
85°	46.3	46.3	48.6	47.8	30.8
87.5°	15.4	17.7	20.8	22.4	15.4
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	13.85	15.21	14.22	15.52	15.84	10.19	11.54	10.55	11.85	12.17
	3H	15.59	16.80	15.97	17.13	17.49	12.16	13.37	12.54	13.70	14.06
	4H	16.26	17.39	16.67	17.74	18.12	12.87	13.99	13.27	14.35	14.73
	6H	16.77	17.81	17.19	18.18	18.57	13.39	14.43	13.80	14.80	15.19
	8H	16.94	17.93	17.37	18.32	18.72	13.58	14.56	14.00	14.95	15.36
	12H	17.05	17.99	17.48	18.38	18.81	13.71	14.66	14.15	15.04	15.47
4H	2H	14.38	15.51	14.79	15.86	16.24	11.81	12.94	12.21	13.29	13.67
	3H	16.36	17.29	16.77	17.70	18.10	13.99	14.92	14.40	15.32	15.72
	4H	17.16	18.00	17.60	18.42	18.86	14.87	15.70	15.30	16.12	16.56
	6H	17.81	18.53	18.27	18.98	19.44	15.51	16.23	15.97	16.68	17.14
	8H	18.03	18.70	18.49	19.15	19.62	15.72	16.39	16.19	16.84	17.31
	12H	18.18	18.78	18.67	19.26	19.74	15.88	16.48	16.36	16.96	17.43
8H	4H	17.45	18.12	17.92	18.57	19.04	15.52	16.19	15.98	16.64	17.11
	6H	18.23	18.79	18.73	19.28	19.76	16.38	16.93	16.88	17.43	17.91
	8H	18.53	19.03	19.05	19.55	20.04	16.70	17.20	17.22	17.72	18.21
	12H	18.77	19.21	19.28	19.70	20.27	16.97	17.41	17.48	17.90	18.47
12H	4H	17.47	18.07	17.95	18.55	19.02	15.59	16.19	16.07	16.67	17.14
	6H	18.28	18.78	18.80	19.30	19.79	16.51	17.01	17.03	17.53	18.02
	8H	18.65	19.09	19.16	19.58	20.15	16.93	17.37	17.44	17.86	18.43