

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: P895132

Luminaire Tested: 8TMB-6SL-LVRA-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895132
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-L950
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 90CRI, 5000K CCT
Light Source: -
Ballast/Driver: -

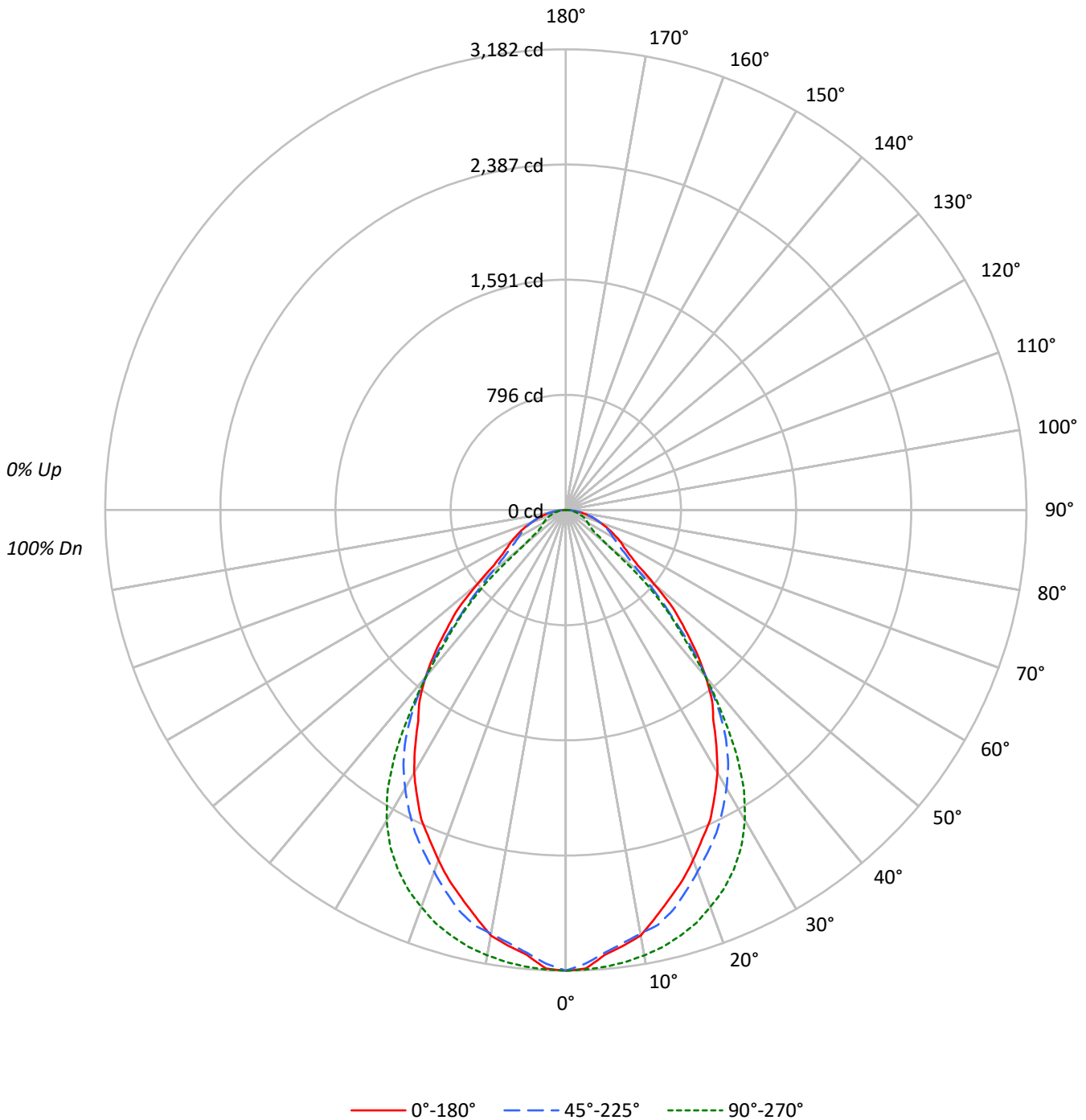
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164.0 lumens
Efficiency: N/A
Efficacy: 122.4 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78	78	78
3	96	87	80	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50	50
7	73	61	54	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45	45	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41	41	41
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	61	49	42	37	60	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11289	11289	11289
5°	10985	10935	11277
10°	10752	10704	11251
15°	10197	10510	11188
20°	9713	10042	11017
25°	9240	9635	10736
30°	8585	9095	10136
35°	7697	8358	8891
40°	6974	6989	6951
45°	5831	5164	5037
50°	4404	3635	2059
55°	3313	2907	1298
60°	3078	2677	1251
65°	2864	2671	1253
70°	2620	2620	1233
75°	2484	2553	1191
80°	2295	2413	1224
85°	2003	2105	1335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.9	5.7
10°-20°	809.8	15.7
20°-30°	1148.4	22.2
30°-40°	1183.1	22.9
40°-50°	826.3	16.0
50°-60°	396.5	7.7
60°-70°	278.2	5.4
70°-80°	173.9	3.4
80°-90°	53.8	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°	2252.1	43.6
0°-40°	3435.2	66.5
0°-60°	4658.1	90.2
0°-90°	5164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3182	3182	3182	3182	3182	
5°	3084	3080	3070	3151	3166	292
15°	2776	2796	2861	2943	3046	782
25°	2360	2384	2461	2628	2742	1079
35°	1777	1826	1930	1970	2053	1120
45°	1162	1189	1029	977	1004	895
55°	536	509	470	301	210	502
65°	341	319	318	242	149	338
75°	181	179	186	161	87	191
85°	49	49	52	51	33	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3181.8	3181.8	3181.8	3181.8	3181.8
2.5°	3169.5	3159.7	3135.9	3179.4	3176.1
5°	3084.2	3080.1	3070.3	3150.7	3166.3
7.5°	3035.9	3027.7	3016.2	3104.8	3148.2
10°	2984.2	2994.0	2971.1	3052.3	3122.8
12.5°	2877.6	2903.8	2935.0	2998.1	3091.6
15°	2775.9	2796.4	2861.2	2943.2	3045.7
17.5°	2680.8	2704.6	2760.3	2883.3	2992.4
20°	2572.5	2605.3	2659.5	2816.9	2917.8
22.5°	2461.0	2491.3	2559.4	2728.3	2840.7
25°	2360.1	2383.9	2461.0	2627.5	2742.3
27.5°	2226.5	2270.7	2343.7	2504.5	2625.0
30°	2095.3	2133.0	2219.9	2355.2	2474.1
32.5°	1937.0	1991.9	2087.9	2191.2	2290.4
35°	1777.1	1825.5	1929.6	1969.8	2052.6
37.5°	1660.6	1673.7	1732.8	1727.9	1774.6
40°	1505.6	1531.9	1508.9	1447.4	1500.7
42.5°	1338.3	1369.5	1276.8	1205.5	1224.4
45°	1162.0	1189.1	1029.2	976.7	1003.8
47.5°	1009.5	1007.0	829.9	794.6	756.9
50°	797.9	824.2	658.5	592.9	373.1
52.5°	623.2	633.1	542.9	378.9	245.2
55°	535.5	509.3	469.9	301.0	209.9
57.5°	475.6	442.8	416.6	279.6	191.9
60°	433.8	396.9	377.2	265.7	176.3
62.5°	386.2	357.5	350.2	253.4	162.4
65°	341.1	319.0	318.2	241.9	149.3
67.5°	296.0	283.7	287.0	228.0	134.5
70°	252.6	250.1	252.6	209.9	118.9
72.5°	215.7	213.2	219.8	187.0	101.7
75°	181.2	178.8	186.2	160.7	86.9
77.5°	144.3	146.0	150.9	133.7	73.0
80°	112.3	112.3	118.1	105.0	59.9
82.5°	80.4	81.2	84.5	77.1	46.7
85°	49.2	49.2	51.7	50.8	32.8
87.5°	16.4	18.9	22.1	23.8	16.4
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	14.07	15.42	14.43	15.73	16.05	10.40	11.75	10.76	12.07	12.38
	3H	15.81	17.01	16.19	17.34	17.71	12.38	13.58	12.76	13.91	14.28
	4H	16.48	17.61	16.88	17.96	18.34	13.08	14.21	13.48	14.56	14.94
	6H	16.98	18.02	17.40	18.39	18.79	13.60	14.64	14.02	15.01	15.41
	8H	17.16	18.14	17.59	18.53	18.94	13.79	14.77	14.22	15.16	15.57
	12H	17.27	18.21	17.70	18.59	19.02	13.93	14.87	14.36	15.25	15.68
4H	2H	14.60	15.73	15.00	16.08	16.46	12.02	13.15	12.42	13.50	13.88
	3H	16.58	17.51	16.99	17.91	18.31	14.20	15.13	14.61	15.53	15.94
	4H	17.38	18.21	17.81	18.63	19.07	15.08	15.92	15.51	16.33	16.78
	6H	18.02	18.74	18.48	19.19	19.65	15.72	16.45	16.18	16.89	17.36
	8H	18.24	18.92	18.71	19.36	19.83	15.93	16.61	16.40	17.06	17.53
	12H	18.39	18.99	18.88	19.48	19.95	16.09	16.69	16.58	17.17	17.65
8H	4H	17.66	18.34	18.13	18.78	19.25	15.73	16.41	16.20	16.85	17.32
	6H	18.44	19.00	18.95	19.50	19.98	16.59	17.15	17.09	17.64	18.12
	8H	18.75	19.25	19.27	19.76	20.25	16.92	17.42	17.44	17.93	18.42
	12H	18.98	19.42	19.50	19.92	20.49	17.18	17.62	17.70	18.12	18.69
12H	4H	17.68	18.28	18.16	18.76	19.23	15.80	16.40	16.29	16.88	17.36
	6H	18.50	19.00	19.02	19.51	20.00	16.73	17.23	17.25	17.74	18.23
	8H	18.86	19.30	19.38	19.80	20.37	17.14	17.58	17.66	18.08	18.65