

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: P895127

Luminaire Tested: 8TMB-6SL-LVRA-UNV-L840

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895127
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-L840
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH AISLE OPTIC, 80CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

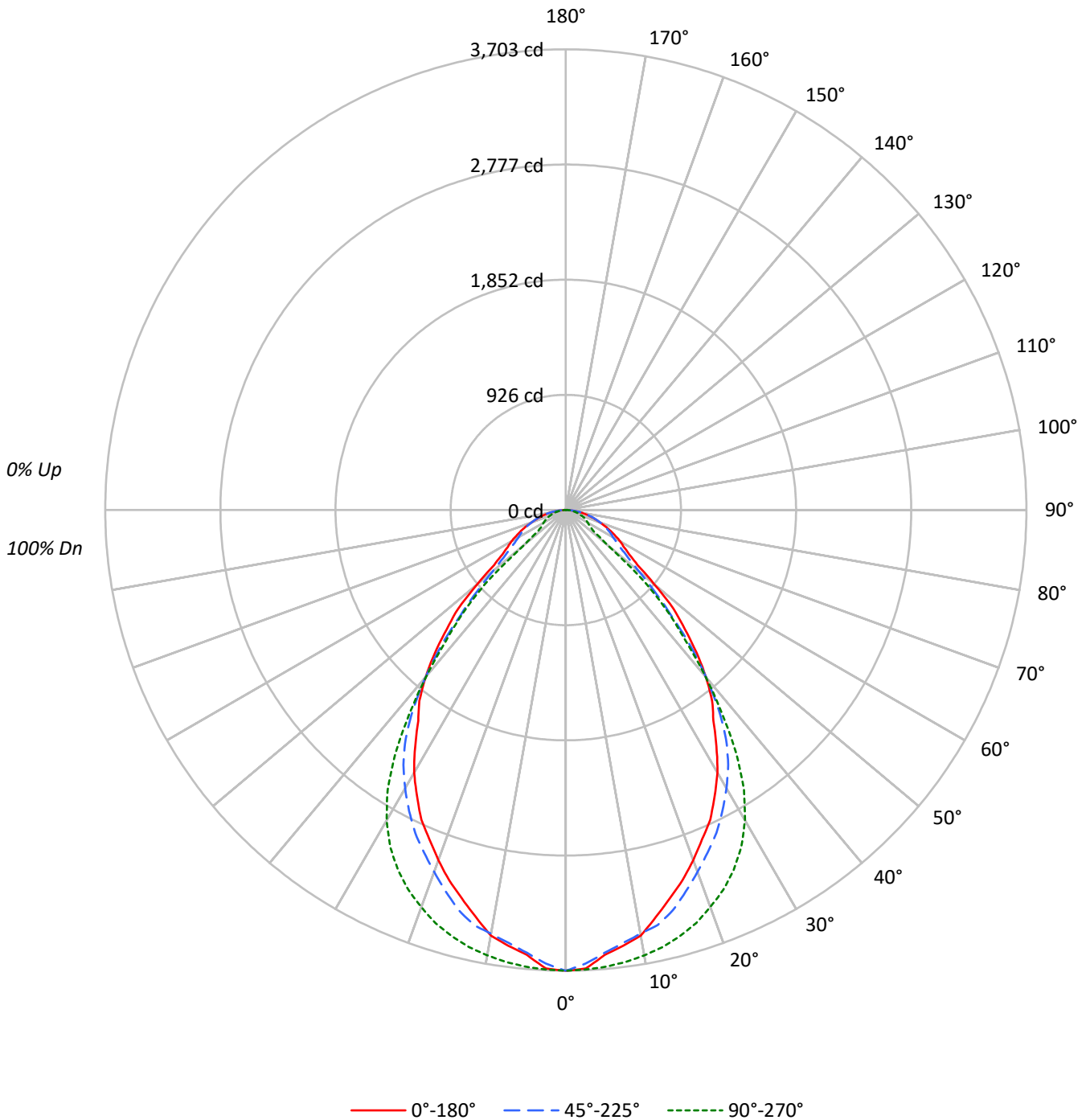
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6010.0 lumens
Efficiency: N/A
Efficacy: 142.4 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°	13139	13139	13139
5°	12785	12727	13125
10°	12513	12458	13094
15°	11867	12232	13021
20°	11305	11687	12822
25°	10754	11213	12495
30°	9991	10585	11797
35°	8958	9727	10347
40°	8116	8134	8090
45°	6786	6010	5862
50°	5126	4230	2397
55°	3855	3383	1511
60°	3583	3115	1456
65°	3333	3109	1458
70°	3050	3050	1436
75°	2891	2971	1387
80°	2673	2807	1424
85°	2333	2447	1555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6944 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	5.7
10°-20°	942.5	15.7
20°-30°	1336.5	22.2
30°-40°	1376.9	22.9
40°-50°	961.7	16.0
50°-60°	461.5	7.7
60°-70°	323.7	5.4
70°-80°	202.4	3.4
80°-90°	62.6	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°	2621.1	43.6
0°-40°	3998.0	66.5
0°-60°	5421.2	90.2
0°-90°	6010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3703	3703	3703	3703	3703	
5°	3590	3585	3573	3667	3685	340
15°	3231	3254	3330	3425	3545	910
25°	2747	2774	2864	3058	3192	1256
35°	2068	2124	2246	2292	2389	1303
45°	1352	1384	1198	1137	1168	1042
55°	623	593	547	350	244	584
65°	397	371	370	282	174	393
75°	211	208	217	187	101	222
85°	57	57	60	59	38	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3703.1	3703.1	3703.1	3703.1	3703.1
2.5°	3688.8	3677.3	3649.7	3700.2	3696.4
5°	3589.5	3584.8	3573.3	3666.8	3685.0
7.5°	3533.2	3523.7	3510.3	3613.4	3664.0
10°	3473.1	3484.5	3457.8	3552.3	3634.4
12.5°	3349.0	3379.6	3415.8	3489.3	3598.1
15°	3230.7	3254.5	3329.9	3425.4	3544.7
17.5°	3120.0	3147.6	3212.5	3355.7	3482.6
20°	2994.0	3032.2	3095.1	3278.4	3395.8
22.5°	2864.2	2899.5	2978.7	3175.3	3306.1
25°	2746.8	2774.5	2864.2	3057.9	3191.5
27.5°	2591.2	2642.8	2727.7	2914.8	3055.1
30°	2438.5	2482.4	2583.6	2741.1	2879.5
32.5°	2254.3	2318.3	2429.9	2550.2	2665.7
35°	2068.2	2124.5	2245.7	2292.5	2388.9
37.5°	1932.7	1947.9	2016.7	2010.9	2065.3
40°	1752.3	1782.8	1756.1	1684.5	1746.6
42.5°	1557.6	1593.9	1486.0	1403.0	1424.9
45°	1352.4	1383.9	1197.8	1136.7	1168.2
47.5°	1174.9	1172.0	965.9	924.8	880.9
50°	928.6	959.2	766.4	690.0	434.3
52.5°	725.4	736.8	631.8	440.9	285.4
55°	623.2	592.7	546.9	350.3	244.3
57.5°	553.6	515.4	484.8	325.5	223.3
60°	504.9	461.9	439.0	309.2	205.2
62.5°	449.5	416.1	407.5	294.9	189.0
65°	397.0	371.3	370.3	281.6	173.7
67.5°	344.5	330.2	334.0	265.3	156.5
70°	294.0	291.1	294.0	244.3	138.4
72.5°	251.0	248.1	255.8	217.6	118.3
75°	210.9	208.1	216.7	187.1	101.2
77.5°	168.0	169.9	175.6	155.6	84.9
80°	130.8	130.8	137.4	122.2	69.7
82.5°	93.5	94.5	98.3	89.7	54.4
85°	57.3	57.3	60.1	59.2	38.2
87.5°	19.1	22.0	25.8	27.7	19.1
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	14.60	15.95	14.96	16.26	16.58	10.93	12.28	11.29	12.59	12.91
	3H	16.33	17.54	16.71	17.87	18.23	12.90	14.11	13.28	14.44	14.80
	4H	17.01	18.13	17.41	18.48	18.87	13.61	14.74	14.01	15.09	15.47
	6H	17.51	18.55	17.93	18.92	19.31	14.13	15.17	14.55	15.54	15.93
	8H	17.68	18.67	18.11	19.06	19.46	14.32	15.30	14.75	15.69	16.10
	12H	17.79	18.74	18.23	19.12	19.55	14.46	15.40	14.89	15.78	16.21
4H	2H	15.13	16.25	15.53	16.60	16.99	12.55	13.68	12.95	14.03	14.41
	3H	17.10	18.03	17.52	18.44	18.84	14.73	15.66	15.14	16.06	16.46
	4H	17.91	18.74	18.34	19.16	19.60	15.61	16.44	16.04	16.86	17.30
	6H	18.55	19.27	19.01	19.72	20.18	16.25	16.97	16.71	17.42	17.88
	8H	18.77	19.45	19.24	19.89	20.36	16.46	17.14	16.93	17.58	18.05
	12H	18.92	19.52	19.41	20.00	20.48	16.62	17.22	17.10	17.70	18.17
8H	4H	18.19	18.87	18.66	19.31	19.78	16.26	16.93	16.72	17.38	17.85
	6H	18.97	19.53	19.47	20.02	20.50	17.12	17.67	17.62	18.17	18.65
	8H	19.27	19.77	19.79	20.29	20.78	17.45	17.94	17.97	18.46	18.95
	12H	19.51	19.95	20.02	20.44	21.01	17.71	18.15	18.22	18.64	19.21
12H	4H	18.21	18.81	18.69	19.29	19.76	16.33	16.93	16.81	17.41	17.88
	6H	19.03	19.52	19.54	20.04	20.53	17.26	17.75	17.77	18.27	18.76
	8H	19.39	19.83	19.90	20.32	20.89	17.67	18.11	18.18	18.60	19.17