

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: P895233

Luminaire Tested: 8TMB-8SL-LVR-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-LVR-UNV-L930
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

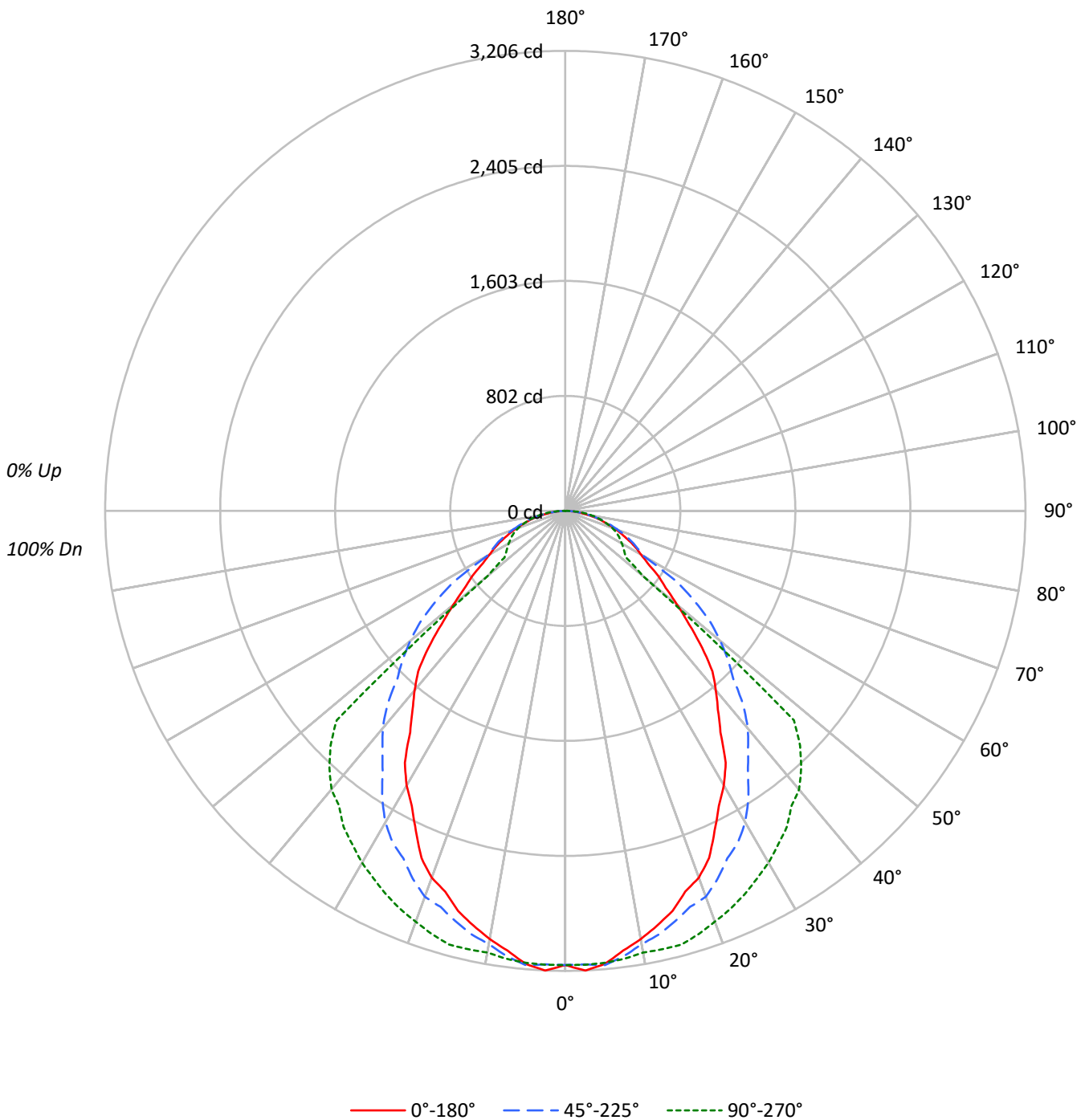
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6753.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
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 (A_{in}): 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	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11228	11228	11228
5°	11288	11317	11259
10°	10918	11046	11261
15°	10603	10870	11493
20°	10270	10807	11503
25°	9636	10459	11553
30°	9052	10270	11601
35°	8163	9605	11656
40°	7560	9163	11738
45°	6764	8304	11605
50°	5612	7779	3899
55°	4889	6828	3119
60°	4324	4450	3234
65°	4111	4329	3433
70°	3856	4090	3622
75°	3589	3855	3722
80°	3269	3633	3897
85°	2895	3094	4209

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11605 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	4.4
10°-20°	844.4	12.5
20°-30°	1242.1	18.4
30°-40°	1420.5	21.0
40°-50°	1345.1	19.9
50°-60°	741.0	11.0
60°-70°	475.8	7.0
70°-80°	293.6	4.3
80°-90°	90.4	1.3
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°	2386.6	35.3
0°-40°	3807.1	56.4
0°-60°	5893.2	87.3
0°-90°	6753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3164	3164	3164	3164	3164	
5°	3169	3195	3177	3177	3161	297
15°	2886	2922	2959	3114	3129	810
25°	2461	2571	2672	2846	2951	1134
35°	1884	2046	2217	2539	2691	1191
45°	1348	1476	1655	2124	2313	1031
55°	790	829	1104	569	504	707
65°	490	506	516	459	409	485
75°	262	267	281	296	272	279
85°	71	71	76	87	103	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3164.5	3164.5	3164.5	3164.5	3164.5
2.5°	3206.5	3214.6	3162.9	3161.2	3166.1
5°	3169.3	3195.2	3177.4	3177.4	3161.2
7.5°	3090.1	3133.8	3128.9	3166.1	3148.3
10°	3030.3	3065.9	3065.9	3162.9	3125.7
12.5°	2959.2	2999.6	3022.2	3124.1	3128.9
15°	2886.5	2922.0	2959.2	3114.4	3128.9
17.5°	2781.4	2846.1	2892.9	3044.9	3091.7
20°	2720.0	2758.8	2862.2	2985.1	3046.5
22.5°	2618.2	2674.8	2775.0	2912.3	3002.8
25°	2461.4	2571.3	2671.5	2846.1	2951.1
27.5°	2316.0	2398.4	2605.3	2789.5	2889.7
30°	2209.3	2274.0	2506.7	2707.1	2831.5
32.5°	2080.0	2185.1	2374.2	2626.3	2758.8
35°	1884.5	2046.1	2217.4	2539.0	2690.9
37.5°	1747.1	1858.6	2091.3	2448.5	2589.1
40°	1632.3	1734.2	1978.2	2335.4	2534.2
42.5°	1517.6	1600.0	1836.0	2251.3	2432.3
45°	1347.9	1475.6	1655.0	2123.7	2312.7
47.5°	1170.1	1305.9	1537.0	2015.4	2160.8
50°	1016.6	1124.9	1409.3	1800.4	706.3
52.5°	882.4	982.6	1273.5	651.3	533.3
55°	790.3	829.1	1103.8	568.9	504.2
57.5°	680.4	743.4	926.1	541.4	478.4
60°	609.3	636.8	627.1	513.9	455.8
62.5°	552.7	572.1	568.9	486.5	429.9
65°	489.7	505.9	515.6	459.0	408.9
67.5°	426.7	441.2	455.8	425.1	379.8
70°	371.7	381.4	394.3	384.6	349.1
72.5°	315.2	326.5	334.5	342.6	308.7
75°	261.8	266.7	281.2	295.8	271.5
77.5°	213.3	218.2	227.9	244.0	231.1
80°	160.0	164.8	177.8	190.7	190.7
82.5°	113.1	116.4	124.4	142.2	150.3
85°	71.1	71.1	76.0	87.3	103.4
87.5°	27.5	27.5	32.3	38.8	51.7
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	16.35	17.83	16.72	18.15	18.46	14.15	15.64	14.52	15.95	16.27
	3H	17.88	19.21	18.26	19.53	19.90	16.49	17.81	16.86	18.14	18.50
	4H	18.47	19.71	18.87	20.06	20.44	17.44	18.68	17.84	19.03	19.41
	6H	18.93	20.07	19.34	20.44	20.83	18.22	19.37	18.63	19.73	20.13
	8H	19.07	20.16	19.50	20.55	20.96	18.53	19.62	18.96	20.01	20.41
	12H	19.17	20.21	19.60	20.60	21.02	18.78	19.82	19.21	20.21	20.64
4H	2H	16.90	18.15	17.30	18.50	18.87	15.26	16.50	15.66	16.85	17.23
	3H	18.67	19.70	19.09	20.10	20.51	17.70	18.73	18.12	19.13	19.54
	4H	19.39	20.32	19.83	20.74	21.18	18.77	19.70	19.20	20.11	20.55
	6H	19.98	20.79	20.44	21.23	21.69	19.66	20.46	20.12	20.91	21.37
	8H	20.17	20.92	20.63	21.37	21.84	20.01	20.76	20.47	21.21	21.68
	12H	20.31	20.98	20.79	21.46	21.93	20.30	20.97	20.78	21.45	21.92
8H	4H	19.70	20.46	20.17	20.90	21.37	19.16	19.91	19.62	20.35	20.82
	6H	20.41	21.04	20.91	21.53	22.01	20.19	20.82	20.69	21.31	21.79
	8H	20.67	21.24	21.19	21.75	22.24	20.64	21.20	21.15	21.71	22.20
	12H	20.88	21.38	21.39	21.88	22.44	21.02	21.52	21.53	22.01	22.58
12H	4H	19.74	20.41	20.22	20.89	21.36	19.19	19.87	19.68	20.34	20.82
	6H	20.48	21.04	20.99	21.55	22.04	20.26	20.82	20.77	21.33	21.82
	8H	20.80	21.30	21.31	21.79	22.35	20.77	21.26	21.28	21.76	22.32