

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: P895133

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-6SL-LVRF-UNV-L830
Description: 6000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3000K C
Light Source: -
Ballast/Driver: -

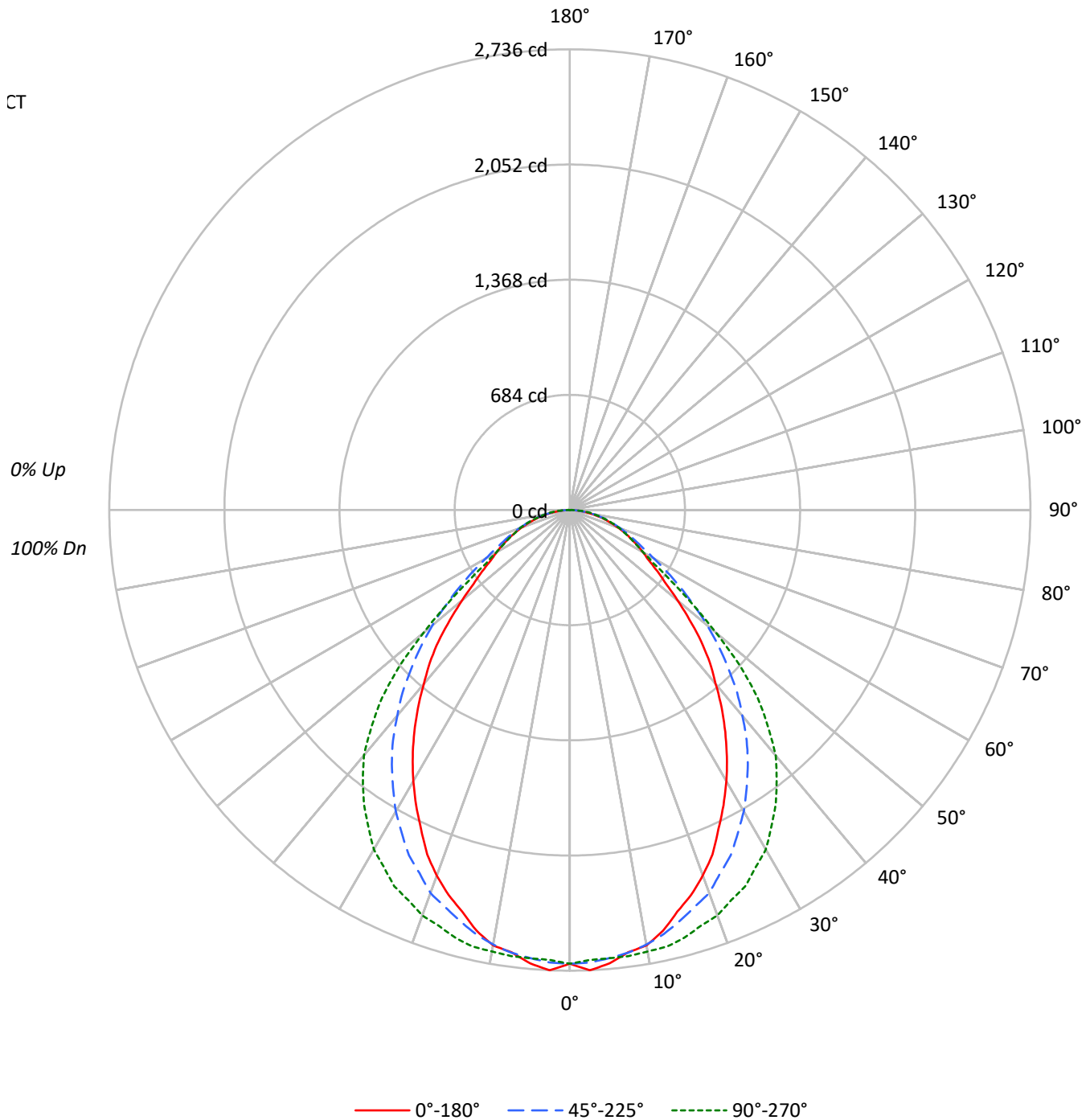
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5599.0 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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	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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9559	9559	9559
5°	9625	9515	9515
10°	9459	9443	9590
15°	9067	9278	9659
20°	8723	9141	9675
25°	8183	8858	9653
30°	7616	8466	9539
35°	6972	7986	9236
40°	6242	7384	8812
45°	5539	6685	7922
50°	4609	5885	6248
55°	3926	4957	4541
60°	3559	4096	3589
65°	3352	3587	3341
70°	3154	3328	3255
75°	2938	3170	3112
80°	2691	2920	3006
85°	2337	2565	3367

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7922 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	4.6
10°-20°	717.7	12.8
20°-30°	1042.3	18.6
30°-40°	1160.6	20.7
40°-50°	1025.4	18.3
50°-60°	672.8	12.0
60°-70°	412.0	7.4
70°-80°	239.7	4.3
80°-90°	73.4	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°	2015.0	36.0
0°-40°	3175.6	56.7
0°-60°	4873.8	87.0
0°-90°	5599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2694	2694	2694	2694	2694	
5°	2702	2704	2672	2698	2672	255
15°	2468	2496	2526	2625	2630	696
25°	2090	2141	2262	2407	2466	962
35°	1610	1696	1844	2038	2132	1004
45°	1104	1171	1332	1512	1579	845
55°	635	679	801	794	734	576
65°	399	406	427	415	398	397
75°	214	217	231	235	227	227
85°	57	60	63	71	83	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2694.0	2694.0	2694.0	2694.0	2694.0
2.5°	2736.0	2702.4	2689.8	2702.4	2674.4
5°	2702.4	2703.8	2671.6	2698.2	2671.6
7.5°	2649.2	2667.4	2652.0	2692.6	2671.6
10°	2625.3	2626.7	2621.1	2663.2	2661.8
12.5°	2559.5	2563.7	2579.1	2642.1	2656.2
15°	2468.4	2496.5	2525.9	2625.3	2629.5
17.5°	2397.0	2430.6	2469.8	2576.3	2588.9
20°	2310.1	2324.1	2420.8	2514.7	2562.3
22.5°	2213.5	2240.1	2333.9	2460.0	2507.7
25°	2090.2	2140.6	2262.5	2406.8	2465.6
27.5°	1976.7	2035.5	2161.6	2322.7	2391.4
30°	1859.0	1926.3	2066.4	2224.7	2328.3
32.5°	1737.1	1821.2	1954.3	2136.4	2227.5
35°	1609.7	1696.5	1843.6	2038.3	2132.2
37.5°	1482.2	1566.2	1725.9	1934.7	2018.7
40°	1347.7	1430.3	1594.3	1805.8	1902.5
42.5°	1231.4	1302.9	1471.0	1651.7	1741.4
45°	1103.9	1171.2	1332.3	1511.6	1578.8
47.5°	963.8	1042.3	1199.2	1346.3	1372.9
50°	835.0	916.2	1066.1	1151.6	1131.9
52.5°	721.5	790.1	927.4	963.8	917.6
55°	634.6	679.4	801.3	794.3	734.1
57.5°	554.8	582.8	686.5	647.2	589.8
60°	501.5	514.1	577.2	540.8	505.7
62.5°	451.1	456.7	490.3	470.7	444.1
65°	399.3	406.3	427.3	414.7	397.9
67.5°	351.6	354.4	374.0	371.2	350.2
70°	304.0	308.2	320.8	326.4	313.8
72.5°	257.8	262.0	274.6	280.2	269.0
75°	214.3	217.1	231.2	235.4	227.0
77.5°	172.3	177.9	186.3	193.3	183.5
80°	131.7	134.5	142.9	151.3	147.1
82.5°	92.5	96.7	102.3	113.5	116.3
85°	57.4	60.2	63.0	71.4	82.7
87.5°	22.4	23.8	28.0	30.8	40.6
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	15.37	16.85	15.74	17.17	17.48	16.02	17.51	16.39	17.82	18.13
	3H	16.97	18.30	17.35	18.63	18.99	17.46	18.79	17.84	19.11	19.48
	4H	17.59	18.83	17.99	19.18	19.56	18.07	19.31	18.47	19.66	20.04
	6H	18.06	19.21	18.47	19.58	19.97	18.55	19.70	18.96	20.07	20.46
	8H	18.21	19.30	18.64	19.69	20.10	18.75	19.84	19.18	20.23	20.63
	12H	18.31	19.36	18.74	19.74	20.17	18.92	19.96	19.35	20.34	20.77
4H	2H	16.00	17.24	16.40	17.59	17.97	16.52	17.76	16.92	18.11	18.49
	3H	17.81	18.84	18.23	19.24	19.65	18.22	19.24	18.63	19.64	20.05
	4H	18.55	19.48	18.99	19.90	20.33	18.97	19.89	19.40	20.31	20.75
	6H	19.15	19.96	19.61	20.40	20.86	19.60	20.41	20.06	20.85	21.31
	8H	19.35	20.10	19.81	20.55	21.01	19.86	20.61	20.32	21.06	21.52
	12H	19.49	20.16	19.97	20.64	21.11	20.08	20.76	20.57	21.23	21.71
8H	4H	18.87	19.62	19.34	20.07	20.54	19.24	19.99	19.70	20.44	20.90
	6H	19.60	20.22	20.09	20.71	21.19	20.01	20.64	20.51	21.13	21.61
	8H	19.87	20.43	20.38	20.94	21.43	20.36	20.92	20.87	21.43	21.92
	12H	20.09	20.58	20.60	21.08	21.64	20.68	21.17	21.19	21.67	22.23
12H	4H	18.91	19.58	19.39	20.06	20.53	19.26	19.93	19.74	20.41	20.88
	6H	19.66	20.22	20.18	20.73	21.22	20.06	20.62	20.57	21.13	21.62
	8H	19.99	20.49	20.50	20.98	21.55	20.47	20.96	20.98	21.45	22.02