

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: P895257

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2408-210-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-RFLW-UNV-L930
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K
Light Source: -
Ballast/Driver: -

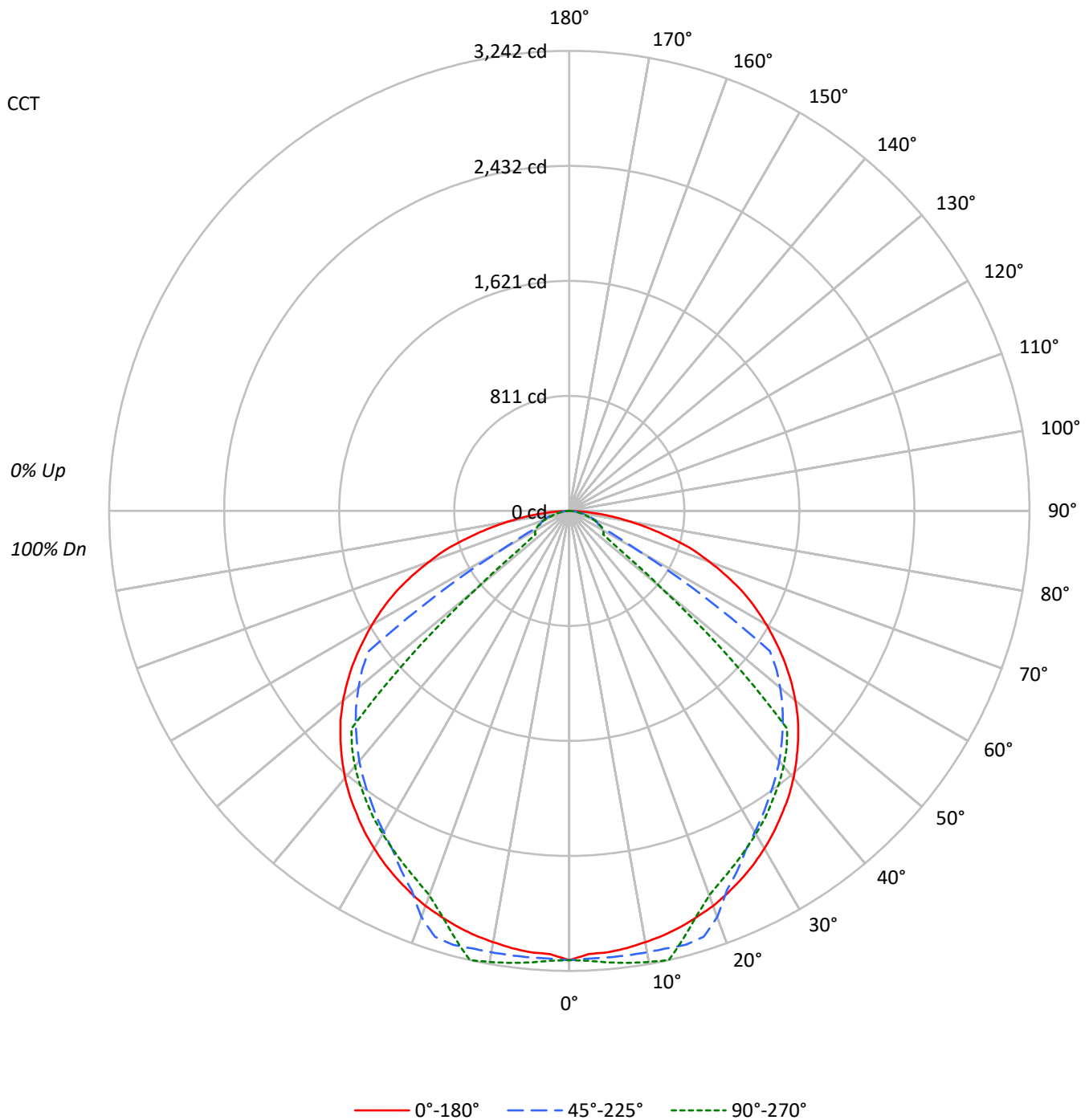
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7721.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.24 / 1.38
Luminous Opening: Rectangular (W 0.21' 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	101	98	100	97	94	96	94	92	92	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	58	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	40	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	36	36	35
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	33	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20499	20499	20499
5°	20294	20530	20766
10°	20290	20768	21221
15°	20346	21222	20881
20°	20414	20989	19863
25°	20465	19998	19661
30°	20549	19545	19653
35°	20634	19428	19716
40°	20775	19456	19855
45°	20879	19482	19881
50°	20956	19529	8594
55°	20903	19468	3279
60°	20781	7429	3573
65°	20637	3449	3671
70°	19933	3711	3436
75°	18619	3543	2997
80°	16382	3114	2573
85°	12950	2697	2155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 20956 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	3.9
10°-20°	877.8	11.4
20°-30°	1309.8	17.0
30°-40°	1587.6	20.6
40°-50°	1625.6	21.1
50°-60°	1081.1	14.0
60°-70°	616.2	8.0
70°-80°	258.9	3.4
80°-90°	61.7	0.8
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°	2490.0	32.2
0°-40°	4077.6	52.8
0°-60°	6784.2	87.9
0°-90°	7721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3166	3166	3166	3166	3166	
5°	3122	3184	3158	3166	3195	297
15°	3035	3118	3166	3155	3115	857
25°	2864	3002	2799	2737	2752	1321
35°	2610	2657	2458	2469	2494	1635
45°	2280	2142	2127	2153	2171	1759
55°	1852	1695	1724	378	290	1653
65°	1347	1205	225	240	240	1325
75°	744	156	142	123	120	790
85°	174	44	36	29	29	209
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3165.7	3165.7	3165.7	3165.7	3165.7
2.5°	3125.7	3191.1	3158.4	3162.0	3172.9
5°	3122.1	3183.8	3158.4	3165.7	3194.7
7.5°	3107.6	3172.9	3158.4	3180.2	3212.9
10°	3085.8	3162.0	3158.4	3194.7	3227.4
12.5°	3064.0	3140.3	3158.4	3212.9	3241.9
15°	3035.0	3118.5	3165.7	3154.8	3114.8
17.5°	2998.7	3096.7	3147.5	2991.4	2987.8
20°	2962.4	3067.6	3045.9	2897.0	2882.5
22.5°	2915.2	3038.6	2897.0	2795.4	2813.5
25°	2864.3	3002.3	2799.0	2737.3	2751.8
27.5°	2809.9	2966.0	2693.7	2671.9	2690.1
30°	2748.2	2915.2	2613.9	2606.6	2628.4
32.5°	2682.8	2817.2	2537.6	2541.2	2566.7
35°	2610.2	2657.4	2457.7	2468.6	2494.1
37.5°	2537.6	2508.6	2381.5	2399.7	2425.1
40°	2457.7	2392.4	2301.6	2319.8	2348.8
42.5°	2370.6	2269.0	2214.5	2239.9	2265.3
45°	2279.9	2141.9	2127.4	2152.8	2171.0
47.5°	2185.5	2033.0	2036.6	2054.8	1539.3
50°	2080.2	1924.1	1938.6	1343.2	853.1
52.5°	1967.7	1811.5	1840.6	747.9	432.0
55°	1851.5	1695.4	1724.4	377.6	290.4
57.5°	1728.0	1579.2	1125.4	272.3	286.8
60°	1604.6	1455.8	573.6	268.6	275.9
62.5°	1477.6	1332.3	272.3	257.8	261.4
65°	1346.9	1205.3	225.1	239.6	239.6
67.5°	1201.6	1071.0	214.2	214.2	210.6
70°	1052.8	889.4	196.0	185.1	181.5
72.5°	914.8	341.3	170.6	152.5	148.8
75°	744.2	156.1	141.6	123.4	119.8
77.5°	591.7	130.7	112.5	98.0	94.4
80°	439.3	101.6	83.5	72.6	69.0
82.5°	304.9	69.0	58.1	47.2	47.2
85°	174.3	43.6	36.3	29.0	29.0
87.5°	69.0	21.8	18.2	10.9	10.9
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	23.42	24.94	23.78	25.25	25.57	11.19	12.71	11.55	13.02	13.33
	3H	25.44	26.80	25.82	27.13	27.49	13.50	14.86	13.88	15.19	15.55
	4H	25.90	27.17	26.30	27.52	27.90	14.21	15.48	14.61	15.83	16.21
	6H	26.31	27.48	26.72	27.85	28.24	14.70	15.87	15.11	16.24	16.63
	8H	26.46	27.57	26.88	27.96	28.36	14.83	15.95	15.26	16.34	16.74
	12H	26.56	27.62	26.99	28.01	28.44	14.92	15.99	15.35	16.37	16.80
4H	2H	23.26	24.53	23.66	24.88	25.26	11.98	13.26	12.38	13.60	13.98
	3H	25.46	26.51	25.88	26.91	27.31	14.49	15.54	14.91	15.94	16.34
	4H	25.91	26.85	26.34	27.27	27.71	15.31	16.25	15.75	16.67	17.11
	6H	26.38	27.19	26.84	27.64	28.10	15.91	16.72	16.36	17.16	17.62
	8H	26.57	27.33	27.03	27.77	28.24	16.08	16.84	16.54	17.28	17.75
	12H	26.72	27.40	27.20	27.88	28.35	16.19	16.87	16.68	17.35	17.82
8H	4H	25.83	26.59	26.29	27.04	27.50	16.15	16.91	16.62	17.36	17.83
	6H	26.29	26.92	26.79	27.41	27.89	16.78	17.40	17.27	17.90	18.37
	8H	26.49	27.05	27.00	27.56	28.05	16.98	17.54	17.49	18.05	18.54
	12H	26.67	27.18	27.18	27.67	28.23	17.13	17.63	17.64	18.13	18.69
12H	4H	25.80	26.48	26.28	26.96	27.43	16.22	16.90	16.71	17.38	17.85
	6H	26.24	26.81	26.76	27.32	27.81	16.87	17.43	17.38	17.94	18.43
	8H	26.47	26.97	26.98	27.46	28.02	17.12	17.62	17.63	18.12	18.68