

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: P894425

Luminaire Tested: 8TMB-10SL-RFLW-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894425
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-10SL-RFLW-UNV-L930
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3000K
Light Source: -
Ballast/Driver: -

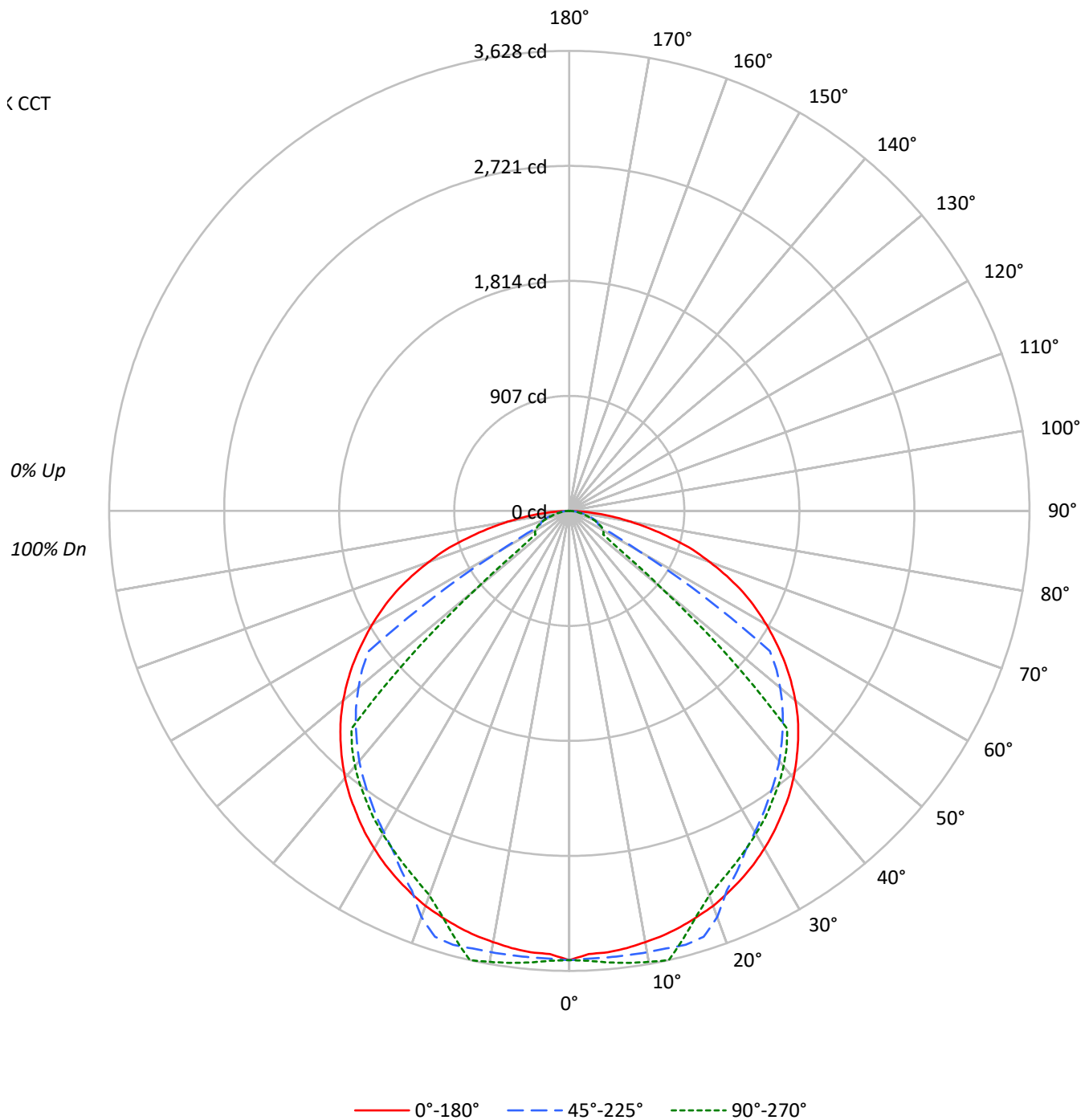
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8640.0 lumens
Efficiency: N/A
Efficacy: 123.4 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): 70
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 5.63
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	100			100	
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87			87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75			75	
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64	
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56			56	
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49			49	
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			43	
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38			38	
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35			35	
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31			31	
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28			28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22939	22939	22939
5°	22710	22974	23238
10°	22705	23239	23747
15°	22768	23748	23367
20°	22844	23487	22228
25°	22901	22379	22001
30°	22995	21871	21992
35°	23090	21741	22062
40°	23249	21772	22218
45°	23363	21801	22248
50°	23450	21855	9618
55°	23391	21786	3669
60°	23255	8313	3998
65°	23094	3860	4108
70°	22305	4154	3845
75°	20836	3963	3355
80°	18332	3483	2879
85°	14488	3016	2415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 23450 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	3.9
10°-20°	982.3	11.4
20°-30°	1465.7	17.0
30°-40°	1776.6	20.6
40°-50°	1819.1	21.1
50°-60°	1209.7	14.0
60°-70°	689.5	8.0
70°-80°	289.7	3.4
80°-90°	69.1	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°	2786.3	32.2
0°-40°	4562.9	52.8
0°-60°	7591.8	87.9
0°-90°	8640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3542	3542	3542	3542	3542	
5°	3494	3563	3534	3542	3575	332
15°	3396	3490	3542	3530	3486	959
25°	3205	3360	3132	3063	3079	1479
35°	2921	2974	2750	2762	2791	1830
45°	2551	2397	2381	2409	2429	1968
55°	2072	1897	1930	422	325	1850
65°	1507	1349	252	268	268	1483
75°	833	175	158	138	134	884
85°	195	49	41	32	32	234
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3542.5	3542.5	3542.5	3542.5	3542.5
2.5°	3497.8	3570.9	3534.3	3538.4	3550.6
5°	3493.7	3562.8	3534.3	3542.5	3575.0
7.5°	3477.5	3550.6	3534.3	3558.7	3595.3
10°	3453.1	3538.4	3534.3	3575.0	3611.5
12.5°	3428.7	3514.0	3534.3	3595.3	3627.8
15°	3396.2	3489.7	3542.5	3530.3	3485.6
17.5°	3355.6	3465.3	3522.2	3347.5	3343.4
20°	3315.0	3432.8	3408.4	3241.8	3225.6
22.5°	3262.2	3400.3	3241.8	3128.1	3148.4
25°	3205.3	3359.7	3132.2	3063.1	3079.3
27.5°	3144.3	3319.0	3014.3	2990.0	3010.3
30°	3075.3	3262.2	2925.0	2916.8	2941.2
32.5°	3002.2	3152.5	2839.7	2843.7	2872.2
35°	2920.9	2973.7	2750.3	2762.5	2790.9
37.5°	2839.7	2807.2	2665.0	2685.3	2713.7
40°	2750.3	2677.2	2575.6	2595.9	2628.4
42.5°	2652.8	2539.0	2478.1	2506.5	2535.0
45°	2551.2	2396.9	2380.6	2409.0	2429.4
47.5°	2445.6	2275.0	2279.0	2299.4	1722.5
50°	2327.8	2153.1	2169.4	1503.1	954.7
52.5°	2201.9	2027.2	2059.7	836.9	483.4
55°	2071.9	1897.2	1929.7	422.5	325.0
57.5°	1933.7	1767.2	1259.4	304.7	320.9
60°	1795.6	1629.0	641.9	300.6	308.7
62.5°	1653.4	1490.9	304.7	288.4	292.5
65°	1507.2	1348.7	251.9	268.1	268.1
67.5°	1344.7	1198.4	239.7	239.7	235.6
70°	1178.1	995.3	219.4	207.2	203.1
72.5°	1023.7	381.9	190.9	170.6	166.6
75°	832.8	174.7	158.4	138.1	134.1
77.5°	662.2	146.2	125.9	109.7	105.6
80°	491.6	113.7	93.4	81.2	77.2
82.5°	341.2	77.2	65.0	52.8	52.8
85°	195.0	48.7	40.6	32.5	32.5
87.5°	77.2	24.4	20.3	12.2	12.2
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	23.81	25.33	24.18	25.65	25.96	11.58	13.10	11.94	13.41	13.73
	3H	25.83	27.19	26.21	27.52	27.88	13.89	15.25	14.27	15.58	15.94
	4H	26.29	27.56	26.69	27.91	28.29	14.60	15.88	15.00	16.22	16.60
	6H	26.70	27.87	27.11	28.24	28.63	15.09	16.26	15.50	16.63	17.02
	8H	26.85	27.96	27.28	28.35	28.76	15.23	16.34	15.65	16.73	17.13
	12H	26.95	28.01	27.38	28.40	28.83	15.31	16.38	15.74	16.76	17.19
4H	2H	23.65	24.92	24.05	25.27	25.65	12.37	13.65	12.77	13.99	14.37
	3H	25.86	26.90	26.27	27.30	27.70	14.89	15.93	15.30	16.33	16.73
	4H	26.30	27.24	26.74	27.66	28.10	15.71	16.64	16.14	17.06	17.50
	6H	26.77	27.58	27.23	28.03	28.49	16.30	17.11	16.76	17.55	18.02
	8H	26.96	27.72	27.42	28.17	28.63	16.47	17.23	16.93	17.67	18.14
	12H	27.11	27.79	27.59	28.27	28.74	16.58	17.26	17.07	17.74	18.21
8H	4H	26.22	26.98	26.69	27.43	27.89	16.54	17.30	17.01	17.75	18.22
	6H	26.68	27.31	27.18	27.80	28.28	17.17	17.79	17.66	18.29	18.76
	8H	26.88	27.45	27.39	27.96	28.44	17.37	17.93	17.88	18.44	18.93
	12H	27.06	27.57	27.57	28.06	28.62	17.52	18.02	18.03	18.52	19.08
12H	4H	26.19	26.87	26.67	27.35	27.82	16.61	17.29	17.10	17.77	18.24
	6H	26.63	27.20	27.15	27.71	28.20	17.26	17.82	17.77	18.34	18.82
	8H	26.86	27.36	27.37	27.85	28.42	17.51	18.01	18.02	18.51	19.07