

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: P895258

Luminaire Tested: 8TMB-8SL-RFLW-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895258
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-L935
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

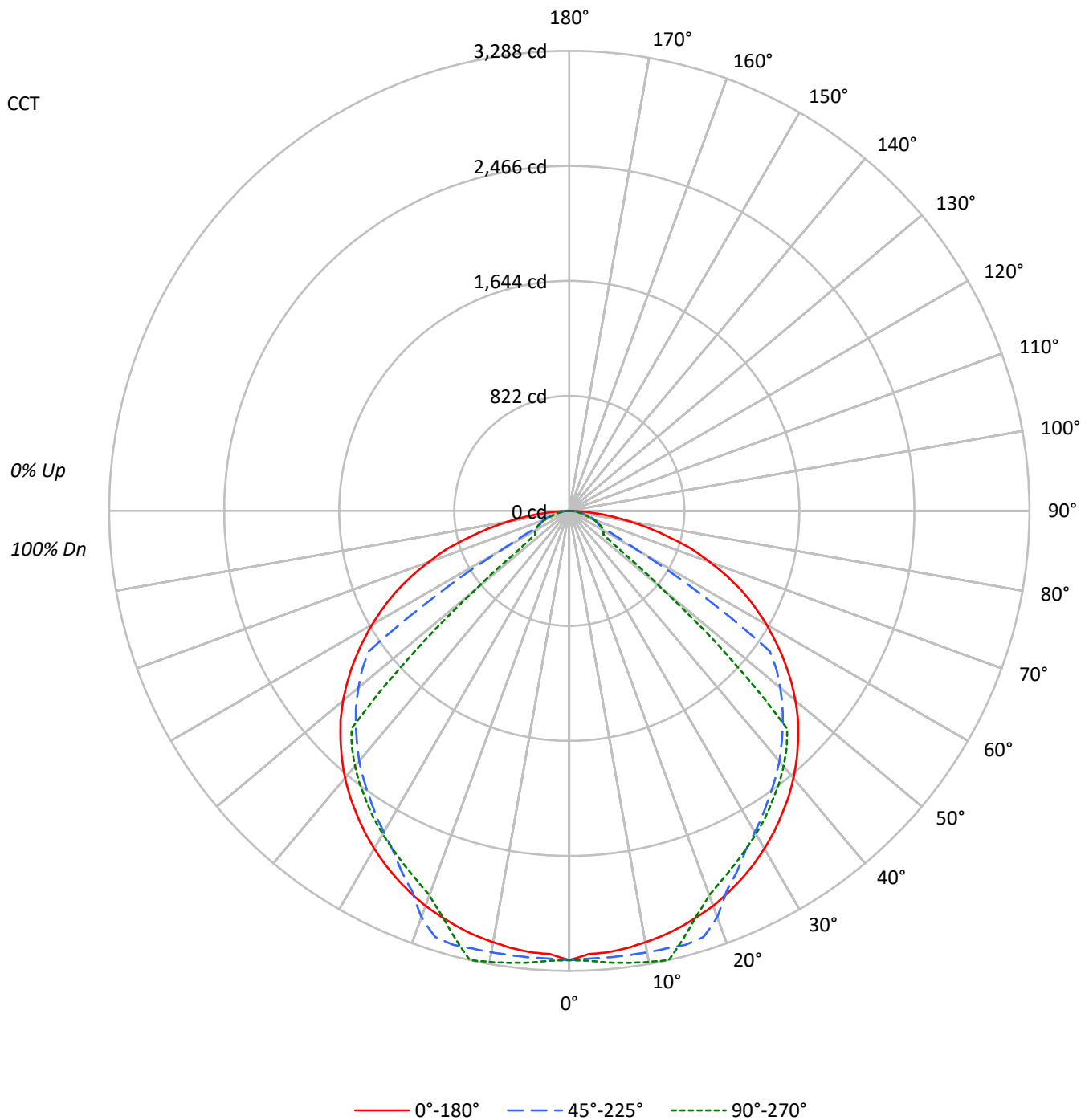
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7831.0 lumens
Efficiency: N/A
Efficacy: 131.4 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): 59.6
Input Voltage (V): 120
Input Current (Ain): 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°	20791	20791	20791
5°	20583	20823	21062
10°	20580	21063	21524
15°	20636	21525	21179
20°	20705	21288	20147
25°	20757	20284	19941
30°	20841	19823	19933
35°	20928	19706	19997
40°	21072	19733	20138
45°	21175	19760	20164
50°	21254	19808	8717
55°	21201	19746	3326
60°	21078	7535	3624
65°	20932	3498	3723
70°	20217	3764	3486
75°	18885	3593	3040
80°	16613	3159	2610
85°	13128	2734	2192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 21254 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	3.9
10°-20°	890.3	11.4
20°-30°	1328.5	17.0
30°-40°	1610.2	20.6
40°-50°	1648.8	21.1
50°-60°	1096.5	14.0
60°-70°	624.9	8.0
70°-80°	262.5	3.4
80°-90°	62.6	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°	2525.4	32.2
0°-40°	4135.7	52.8
0°-60°	6880.9	87.9
0°-90°	7831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3211	3211	3211	3211	3211	
5°	3167	3229	3203	3211	3240	301
15°	3078	3163	3211	3200	3159	869
25°	2905	3045	2839	2776	2791	1340
35°	2647	2695	2493	2504	2530	1658
45°	2312	2172	2158	2184	2202	1784
55°	1878	1720	1749	383	295	1677
65°	1366	1222	228	243	243	1344
75°	755	158	144	125	122	801
85°	177	44	37	30	30	212
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3210.8	3210.8	3210.8	3210.8	3210.8
2.5°	3170.3	3236.5	3203.4	3207.1	3218.1
5°	3166.6	3229.2	3203.4	3210.8	3240.2
7.5°	3151.9	3218.1	3203.4	3225.5	3258.6
10°	3129.8	3207.1	3203.4	3240.2	3273.4
12.5°	3107.7	3185.0	3203.4	3258.6	3288.1
15°	3078.2	3162.9	3210.8	3199.7	3159.2
17.5°	3041.4	3140.8	3192.4	3034.0	3030.3
20°	3004.6	3111.4	3089.3	2938.3	2923.6
22.5°	2956.7	3081.9	2938.3	2835.2	2853.6
25°	2905.2	3045.1	2838.9	2776.3	2791.0
27.5°	2849.9	3008.3	2732.1	2710.0	2728.4
30°	2787.3	2956.7	2651.1	2643.7	2665.8
32.5°	2721.1	2857.3	2573.8	2577.5	2603.2
35°	2647.4	2695.3	2492.8	2503.8	2529.6
37.5°	2573.8	2544.3	2415.4	2433.9	2459.6
40°	2492.8	2426.5	2334.4	2352.8	2382.3
42.5°	2404.4	2301.3	2246.1	2271.8	2297.6
45°	2312.3	2172.4	2157.7	2183.5	2201.9
47.5°	2216.6	2062.0	2065.6	2084.1	1561.2
50°	2109.8	1951.5	1966.2	1362.4	865.3
52.5°	1995.7	1837.4	1866.8	758.5	438.2
55°	1877.9	1719.5	1749.0	382.9	294.6
57.5°	1752.7	1601.7	1141.4	276.2	290.9
60°	1627.5	1476.5	581.8	272.5	279.8
62.5°	1498.6	1351.3	276.2	261.4	265.1
65°	1366.1	1222.4	228.3	243.0	243.0
67.5°	1218.8	1086.2	217.2	217.2	213.6
70°	1067.8	902.1	198.8	187.8	184.1
72.5°	927.9	346.1	173.1	154.6	151.0
75°	754.8	158.3	143.6	125.2	121.5
77.5°	600.2	132.6	114.1	99.4	95.7
80°	445.5	103.1	84.7	73.6	70.0
82.5°	309.3	70.0	58.9	47.9	47.9
85°	176.7	44.2	36.8	29.5	29.5
87.5°	70.0	22.1	18.4	11.0	11.0
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	23.47	24.99	23.83	25.30	25.62	11.24	12.76	11.60	13.07	13.38
	3H	25.49	26.85	25.87	27.18	27.54	13.55	14.91	13.93	15.24	15.60
	4H	25.95	27.22	26.35	27.57	27.95	14.26	15.53	14.66	15.88	16.26
	6H	26.36	27.53	26.77	27.90	28.29	14.75	15.92	15.16	16.29	16.68
	8H	26.51	27.62	26.93	28.01	28.41	14.88	16.00	15.31	16.39	16.79
	12H	26.61	27.67	27.04	28.05	28.48	14.97	16.04	15.40	16.42	16.85
4H	2H	23.31	24.58	23.71	24.93	25.31	12.03	13.31	12.43	13.65	14.03
	3H	25.51	26.56	25.92	26.96	27.36	14.54	15.59	14.95	15.99	16.39
	4H	25.96	26.90	26.39	27.32	27.76	15.36	16.30	15.80	16.72	17.16
	6H	26.43	27.24	26.88	27.68	28.15	15.96	16.77	16.41	17.21	17.67
	8H	26.62	27.38	27.08	27.82	28.29	16.13	16.89	16.59	17.33	17.80
	12H	26.77	27.45	27.25	27.93	28.40	16.24	16.92	16.73	17.40	17.87
8H	4H	25.88	26.64	26.34	27.08	27.55	16.20	16.96	16.67	17.41	17.88
	6H	26.34	26.97	26.84	27.46	27.94	16.83	17.45	17.32	17.95	18.42
	8H	26.54	27.10	27.05	27.61	28.10	17.03	17.59	17.54	18.10	18.59
	12H	26.72	27.22	27.23	27.72	28.28	17.18	17.68	17.69	18.18	18.74
12H	4H	25.85	26.53	26.33	27.01	27.48	16.27	16.95	16.76	17.43	17.90
	6H	26.29	26.86	26.81	27.37	27.86	16.92	17.48	17.43	17.99	18.48
	8H	26.51	27.02	27.02	27.51	28.07	17.17	17.67	17.68	18.17	18.73