

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: P894427

Luminaire Tested: 8TMB-10SL-RFLW-UNV-L940

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894427
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-L940
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 4000K
Light Source: -
Ballast/Driver: -

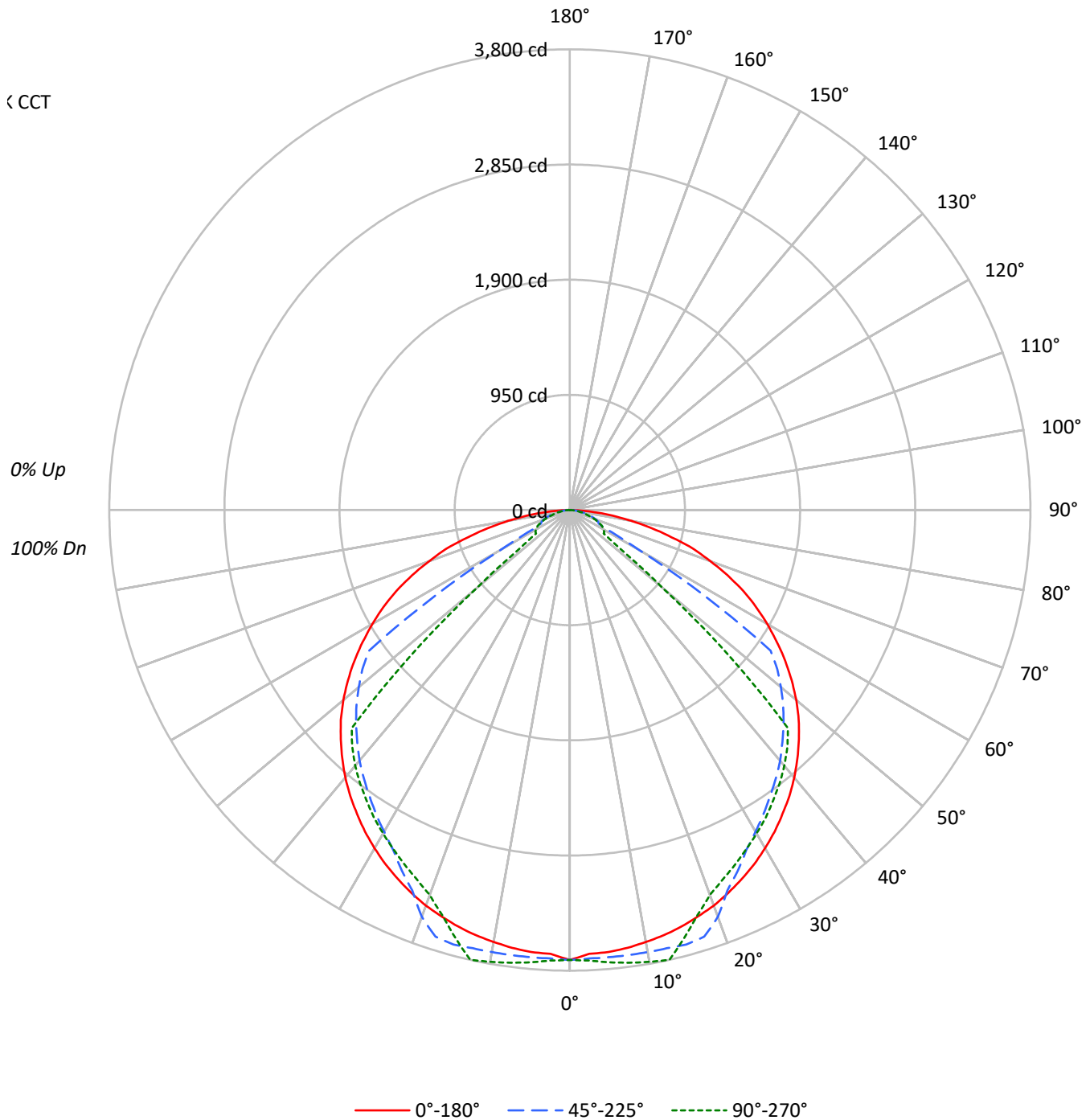
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9051.0 lumens
Efficiency: N/A
Efficacy: 129.3 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	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°	24030	24030	24030
5°	23790	24067	24343
10°	23786	24345	24877
15°	23851	24878	24479
20°	23930	24604	23285
25°	23991	23444	23048
30°	24089	22911	23038
35°	24189	22775	23112
40°	24354	22807	23275
45°	24475	22837	23305
50°	24565	22893	10075
55°	24503	22822	3844
60°	24361	8708	4188
65°	24192	4044	4304
70°	23367	4351	4029
75°	21827	4153	3513
80°	19201	3651	3017
85°	15179	3165	2526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 24565 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.4	3.9
10°-20°	1029.0	11.4
20°-30°	1535.4	17.0
30°-40°	1861.1	20.6
40°-50°	1905.6	21.1
50°-60°	1267.3	14.0
60°-70°	722.3	8.0
70°-80°	303.4	3.4
80°-90°	72.4	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°	2918.9	32.2
0°-40°	4780.0	52.8
0°-60°	7952.9	87.9
0°-90°	9051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3711	3711	3711	3711	3711	
5°	3660	3732	3702	3711	3745	348
15°	3558	3656	3711	3698	3651	1005
25°	3358	3520	3281	3209	3226	1549
35°	3060	3115	2881	2894	2924	1917
45°	2673	2511	2494	2524	2545	2062
55°	2170	1987	2022	443	340	1938
65°	1579	1413	264	281	281	1554
75°	872	183	166	145	140	926
85°	204	51	43	34	34	245
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3711.0	3711.0	3711.0	3711.0	3711.0
2.5°	3664.2	3740.8	3702.5	3706.7	3719.5
5°	3659.9	3732.3	3702.5	3711.0	3745.0
7.5°	3642.9	3719.5	3702.5	3728.0	3766.3
10°	3617.4	3706.7	3702.5	3745.0	3783.3
12.5°	3591.8	3681.2	3702.5	3766.3	3800.3
15°	3557.8	3655.7	3711.0	3698.2	3651.4
17.5°	3515.2	3630.1	3689.7	3506.7	3502.4
20°	3472.7	3596.1	3570.5	3396.1	3379.0
22.5°	3417.3	3562.0	3396.1	3276.9	3298.2
25°	3357.8	3519.5	3281.2	3208.8	3225.8
27.5°	3293.9	3476.9	3157.7	3132.2	3153.5
30°	3221.6	3417.3	3064.1	3055.6	3081.1
32.5°	3145.0	3302.4	2974.7	2979.0	3008.8
35°	3059.9	3115.2	2881.1	2893.9	2923.7
37.5°	2974.7	2940.7	2791.7	2813.0	2842.8
40°	2881.1	2804.5	2698.1	2719.4	2753.4
42.5°	2779.0	2659.8	2596.0	2625.8	2655.6
45°	2672.6	2510.9	2493.8	2523.6	2544.9
47.5°	2561.9	2383.2	2387.5	2408.7	1804.4
50°	2438.5	2255.5	2272.5	1574.6	1000.1
52.5°	2306.6	2123.6	2157.6	876.7	506.4
55°	2170.4	1987.4	2021.5	442.6	340.5
57.5°	2025.7	1851.2	1319.3	319.2	336.2
60°	1881.0	1706.5	672.4	314.9	323.4
62.5°	1732.1	1561.8	319.2	302.2	306.4
65°	1578.9	1412.9	263.9	280.9	280.9
67.5°	1408.6	1255.4	251.1	251.1	246.8
70°	1234.2	1042.6	229.8	217.0	212.8
72.5°	1072.4	400.0	200.0	178.7	174.5
75°	872.4	183.0	166.0	144.7	140.4
77.5°	693.7	153.2	131.9	114.9	110.6
80°	514.9	119.2	97.9	85.1	80.9
82.5°	357.5	80.9	68.1	55.3	55.3
85°	204.3	51.1	42.6	34.0	34.0
87.5°	80.9	25.5	21.3	12.8	12.8
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	23.97	25.49	24.34	25.81	26.12	11.74	13.26	12.10	13.57	13.89
	3H	25.99	27.35	26.37	27.68	28.04	14.05	15.41	14.43	15.74	16.10
	4H	26.45	27.73	26.85	28.07	28.45	14.77	16.04	15.16	16.39	16.76
	6H	26.86	28.03	27.27	28.40	28.79	15.25	16.42	15.66	16.79	17.18
	8H	27.01	28.13	27.44	28.52	28.92	15.39	16.50	15.81	16.89	17.29
	12H	27.11	28.18	27.54	28.56	28.99	15.47	16.54	15.90	16.92	17.35
4H	2H	23.81	25.08	24.21	25.43	25.81	12.54	13.81	12.94	14.16	14.54
	3H	26.02	27.06	26.43	27.46	27.87	15.05	16.09	15.46	16.49	16.90
	4H	26.46	27.40	26.90	27.82	28.26	15.87	16.81	16.30	17.22	17.66
	6H	26.93	27.74	27.39	28.19	28.65	16.46	17.27	16.92	17.72	18.18
	8H	27.12	27.88	27.59	28.33	28.79	16.63	17.39	17.09	17.83	18.30
	12H	27.27	27.95	27.76	28.43	28.90	16.75	17.42	17.23	17.90	18.38
8H	4H	26.38	27.14	26.85	27.59	28.06	16.71	17.47	17.17	17.91	18.38
	6H	26.84	27.47	27.34	27.96	28.44	17.33	17.96	17.83	18.45	18.93
	8H	27.04	27.61	27.56	28.12	28.61	17.53	18.09	18.04	18.60	19.09
	12H	27.23	27.73	27.74	28.22	28.79	17.68	18.19	18.19	18.68	19.24
12H	4H	26.35	27.03	26.83	27.51	27.98	16.78	17.46	17.26	17.93	18.41
	6H	26.80	27.36	27.31	27.87	28.36	17.42	17.99	17.94	18.50	18.99
	8H	27.02	27.52	27.53	28.01	28.58	17.67	18.18	18.18	18.67	19.23