

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: P894428

Luminaire Tested: 8TMB-10SL-RFLW-UNV-L950

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894428
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-L950
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 5000K
Light Source: -
Ballast/Driver: -

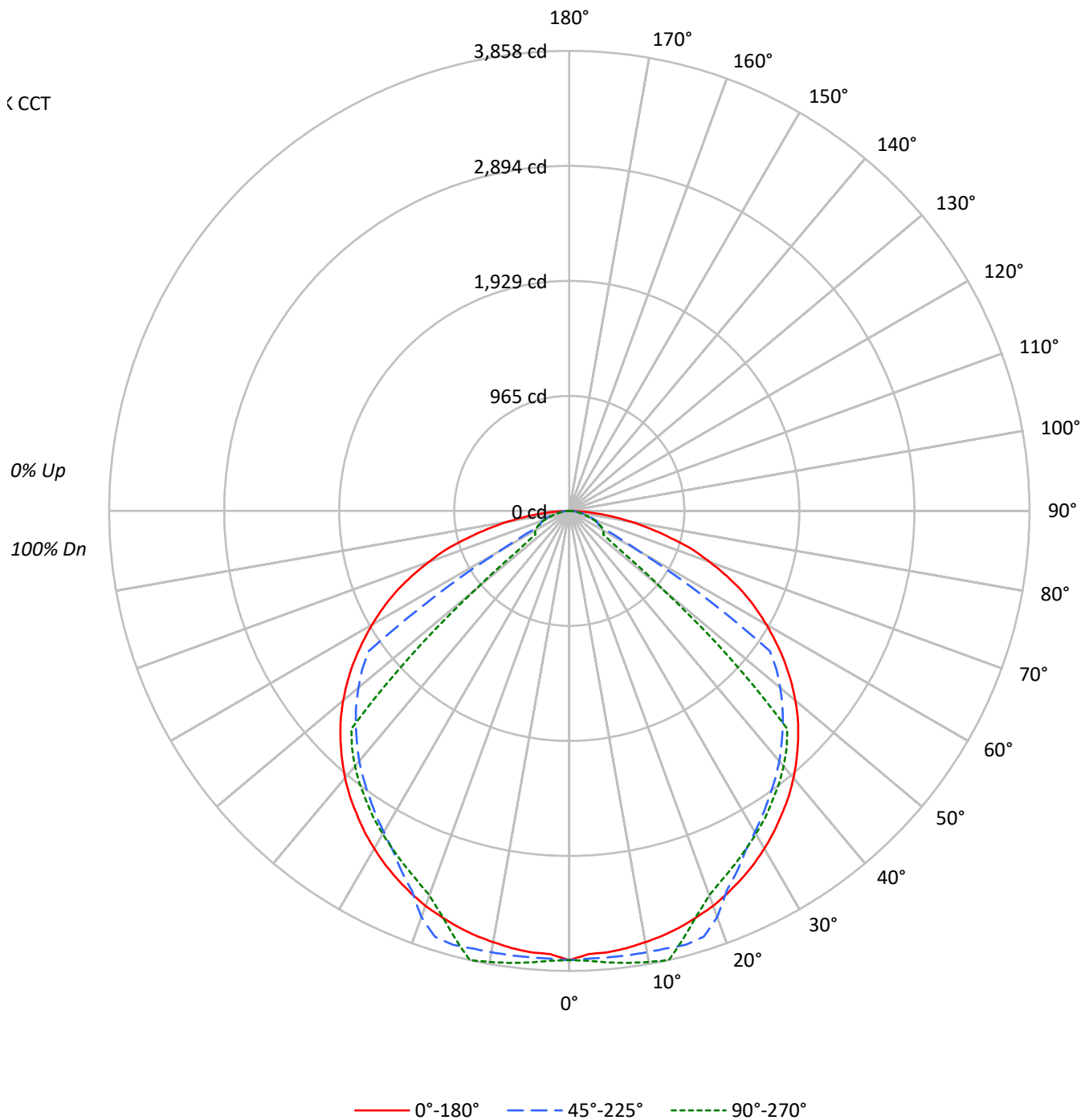
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9188.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

TEST NUMBER: P894428
CATALOG NUMBER: 8TMB-10SL-RFLW-UNV-L950

Luminous Intensity Polar Plot





TEST NUMBER: P894428
 CATALOG NUMBER: 8TMB-10SL-RFLW-UNV-L950

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	75	
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	66	64	
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	58	56	
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	51	49	
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	43	
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	40	38	
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	36	35	
9	60	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	33	31	
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	30	28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24394	24394	24394
5°	24150	24431	24712
10°	24145	24713	25253
15°	24212	25255	24849
20°	24292	24977	23638
25°	24354	23798	23397
30°	24453	23258	23387
35°	24555	23120	23461
40°	24723	23153	23627
45°	24845	23184	23658
50°	24937	23240	10227
55°	24874	23167	3902
60°	24730	8840	4252
65°	24558	4103	4368
70°	23719	4417	4090
75°	22157	4216	3568
80°	19492	3707	3062
85°	15409	3210	2571

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 24937 cd/sqm



TEST NUMBER: P894428
 CATALOG NUMBER: 8TMB-10SL-RFLW-UNV-L950

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.8	3.9
10°-20°	1044.6	11.4
20°-30°	1558.7	17.0
30°-40°	1889.3	20.6
40°-50°	1934.5	21.1
50°-60°	1286.5	14.0
60°-70°	733.2	8.0
70°-80°	308.0	3.4
80°-90°	73.5	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°	2963.1	32.2
0°-40°	4852.3	52.8
0°-60°	8073.3	87.9
0°-90°	9188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3767	3767	3767	3767	3767	
5°	3715	3789	3758	3767	3802	353
15°	3612	3711	3767	3754	3707	1020
25°	3409	3573	3331	3257	3275	1573
35°	3106	3162	2925	2938	2968	1946
45°	2713	2549	2532	2562	2583	2093
55°	2203	2018	2052	449	346	1967
65°	1603	1434	268	285	285	1577
75°	886	186	168	147	143	940
85°	207	52	43	35	35	249
90°	0	0	0	0	0	



TEST NUMBER: P894428
 CATALOG NUMBER: 8TMB-10SL-RFLW-UNV-L950

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3767.2	3767.2	3767.2	3767.2	3767.2
2.5°	3719.6	3797.4	3758.5	3762.8	3775.8
5°	3715.3	3788.8	3758.5	3767.2	3801.7
7.5°	3698.0	3775.8	3758.5	3784.4	3823.3
10°	3672.1	3762.8	3758.5	3801.7	3840.6
12.5°	3646.2	3736.9	3758.5	3823.3	3857.9
15°	3611.6	3711.0	3767.2	3754.2	3706.7
17.5°	3568.4	3685.1	3745.5	3559.8	3555.5
20°	3525.2	3650.5	3624.6	3447.5	3430.2
22.5°	3469.1	3615.9	3447.5	3326.5	3348.1
25°	3408.6	3572.7	3330.8	3257.4	3274.7
27.5°	3343.8	3529.5	3205.5	3179.6	3201.2
30°	3270.3	3469.1	3110.5	3101.9	3127.8
32.5°	3192.6	3352.4	3019.8	3024.1	3054.3
35°	3106.2	3162.3	2924.7	2937.7	2967.9
37.5°	3019.8	2985.2	2834.0	2855.6	2885.8
40°	2924.7	2847.0	2739.0	2760.6	2795.1
42.5°	2821.0	2700.1	2635.3	2665.5	2695.8
45°	2713.0	2548.9	2531.6	2561.8	2583.4
47.5°	2600.7	2419.3	2423.6	2445.2	1831.7
50°	2475.4	2289.7	2306.9	1598.4	1015.2
52.5°	2341.5	2155.7	2190.3	889.9	514.1
55°	2203.3	2017.5	2052.1	449.3	345.6
57.5°	2056.4	1879.3	1339.2	324.0	341.3
60°	1909.5	1732.4	682.6	319.7	328.3
62.5°	1758.3	1585.5	324.0	306.7	311.0
65°	1602.8	1434.3	267.8	285.1	285.1
67.5°	1430.0	1274.4	254.9	254.9	250.6
70°	1252.8	1058.4	233.3	220.3	216.0
72.5°	1088.7	406.1	203.0	181.4	177.1
75°	885.6	185.8	168.5	146.9	142.6
77.5°	704.2	155.5	133.9	116.6	112.3
80°	522.7	121.0	99.4	86.4	82.1
82.5°	362.9	82.1	69.1	56.2	56.2
85°	207.4	51.8	43.2	34.6	34.6
87.5°	82.1	25.9	21.6	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P894428
 CATALOG NUMBER: 8TMB-10SL-RFLW-UNV-L950

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	24.02	25.55	24.39	25.86	26.17	11.79	13.31	12.15	13.62	13.94
	3H	26.04	27.40	26.42	27.73	28.09	14.10	15.46	14.48	15.79	16.15
	4H	26.51	27.78	26.91	28.13	28.51	14.82	16.09	15.22	16.44	16.82
	6H	26.91	28.09	27.33	28.45	28.85	15.30	16.47	15.71	16.84	17.23
	8H	27.06	28.18	27.49	28.57	28.97	15.44	16.55	15.87	16.94	17.35
	12H	27.16	28.23	27.59	28.61	29.04	15.53	16.59	15.96	16.98	17.40
4H	2H	23.87	25.14	24.27	25.49	25.86	12.59	13.86	12.99	14.21	14.59
	3H	26.07	27.12	26.48	27.52	27.92	15.10	16.15	15.51	16.55	16.95
	4H	26.52	27.46	26.95	27.87	28.31	15.92	16.86	16.35	17.27	17.71
	6H	26.98	27.80	27.44	28.24	28.70	16.51	17.33	16.97	17.77	18.23
	8H	27.17	27.93	27.64	28.38	28.85	16.68	17.44	17.14	17.89	18.35
	12H	27.33	28.00	27.81	28.48	28.95	16.80	17.48	17.28	17.96	18.43
8H	4H	26.43	27.20	26.90	27.64	28.11	16.76	17.52	17.22	17.96	18.43
	6H	26.89	27.52	27.39	28.01	28.49	17.38	18.01	17.88	18.50	18.98
	8H	27.09	27.66	27.61	28.17	28.66	17.58	18.15	18.10	18.66	19.14
	12H	27.28	27.78	27.79	28.27	28.84	17.74	18.24	18.25	18.73	19.30
12H	4H	26.40	27.08	26.89	27.56	28.03	16.83	17.51	17.31	17.99	18.46
	6H	26.85	27.41	27.36	27.92	28.41	17.47	18.04	17.99	18.55	19.04
	8H	27.07	27.57	27.58	28.06	28.63	17.73	18.23	18.24	18.72	19.29