

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: P894426

Luminaire Tested: 8TMB-10SL-RFLW-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894426
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-L935
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 90CRI, 3500K
Light Source: -
Ballast/Driver: -

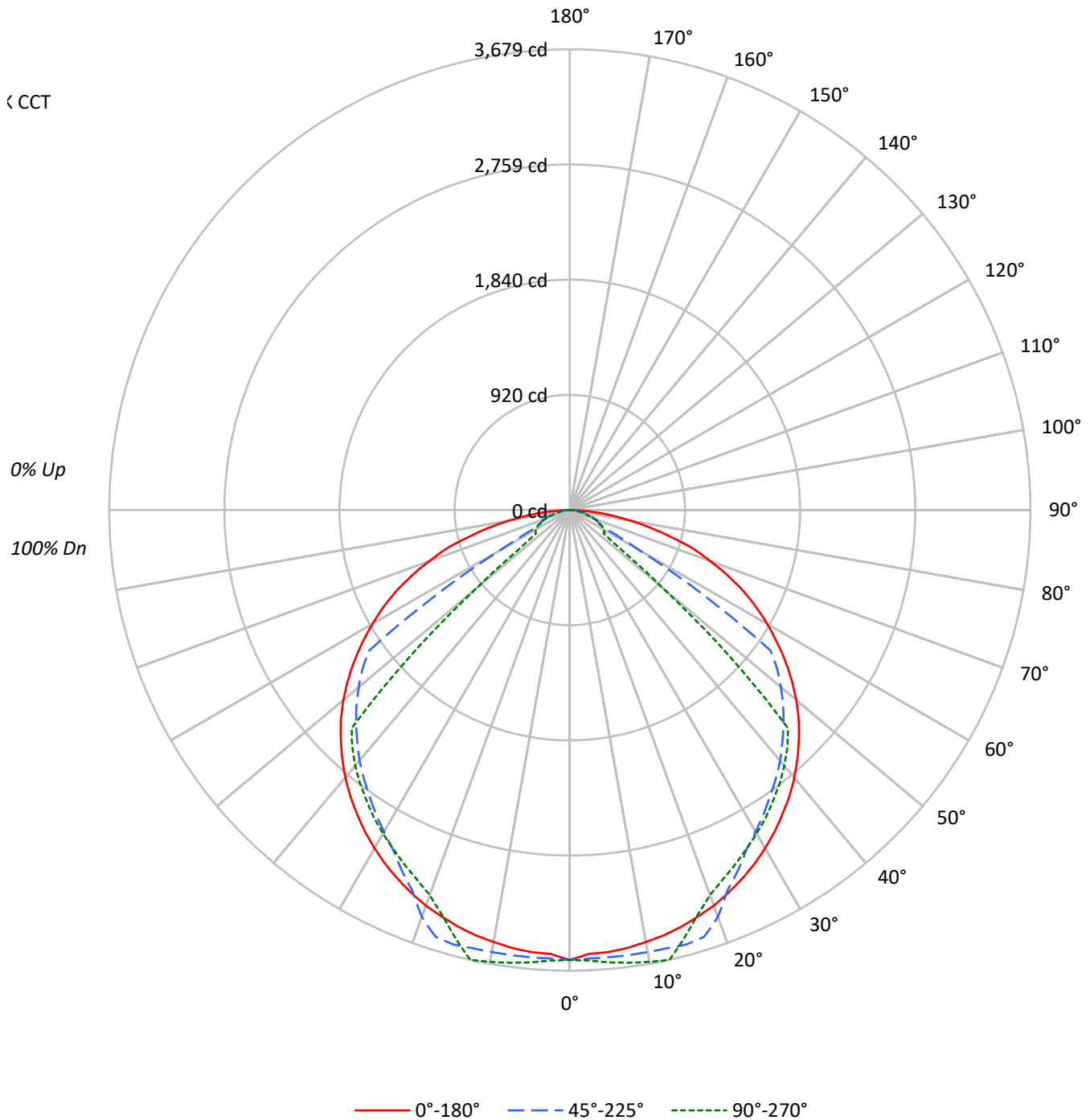
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8763.0 lumens
Efficiency: N/A
Efficacy: 125.2 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°	23266	23266	23266
5°	23033	23301	23569
10°	23029	23571	24085
15°	23092	24086	23700
20°	23169	23822	22544
25°	23227	22697	22315
30°	23322	22182	22305
35°	23419	22050	22376
40°	23579	22082	22534
45°	23695	22111	22564
50°	23784	22165	9755
55°	23724	22095	3721
60°	23586	8431	4055
65°	23422	3915	4166
70°	22623	4213	3900
75°	21134	4021	3403
80°	18593	3535	2920
85°	14696	3061	2452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 23784 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.1	3.9
10°-20°	996.3	11.4
20°-30°	1486.6	17.0
30°-40°	1801.9	20.6
40°-50°	1845.0	21.1
50°-60°	1227.0	14.0
60°-70°	699.3	8.0
70°-80°	293.8	3.4
80°-90°	70.1	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°	2826.0	32.2
0°-40°	4627.9	52.8
0°-60°	7699.8	87.9
0°-90°	8763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3593	3593	3593	3593	3593	
5°	3544	3614	3585	3593	3626	337
15°	3445	3539	3593	3580	3535	973
25°	3251	3408	3177	3107	3123	1500
35°	2962	3016	2789	2802	2831	1856
45°	2588	2431	2414	2443	2464	1996
55°	2101	1924	1957	428	330	1876
65°	1529	1368	256	272	272	1504
75°	845	177	161	140	136	897
85°	198	49	41	33	33	237
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3592.9	3592.9	3592.9	3592.9	3592.9
2.5°	3547.6	3621.7	3584.7	3588.8	3601.1
5°	3543.5	3613.5	3584.7	3592.9	3625.9
7.5°	3527.0	3601.1	3584.7	3609.4	3646.5
10°	3502.3	3588.8	3584.7	3625.9	3662.9
12.5°	3477.5	3564.1	3584.7	3646.5	3679.4
15°	3444.6	3539.3	3592.9	3580.5	3535.2
17.5°	3403.4	3514.6	3572.3	3395.1	3391.0
20°	3362.2	3481.6	3456.9	3288.0	3271.5
22.5°	3308.6	3448.7	3288.0	3172.6	3193.2
25°	3250.9	3407.5	3176.7	3106.7	3123.2
27.5°	3189.1	3366.3	3057.3	3032.5	3053.1
30°	3119.1	3308.6	2966.6	2958.4	2983.1
32.5°	3044.9	3197.3	2880.1	2884.2	2913.0
35°	2962.5	3016.1	2789.4	2801.8	2830.6
37.5°	2880.1	2847.1	2702.9	2723.5	2752.4
40°	2789.4	2715.3	2612.3	2632.9	2665.8
42.5°	2690.6	2575.2	2513.4	2542.2	2571.1
45°	2587.5	2431.0	2414.5	2443.3	2463.9
47.5°	2480.4	2307.4	2311.5	2332.1	1747.0
50°	2360.9	2183.8	2200.2	1524.5	968.3
52.5°	2233.2	2056.0	2089.0	848.8	490.3
55°	2101.4	1924.2	1957.1	428.5	329.6
57.5°	1961.3	1792.3	1277.3	309.0	325.5
60°	1821.2	1652.2	651.0	304.9	313.1
62.5°	1677.0	1512.1	309.0	292.5	296.7
65°	1528.6	1367.9	255.5	271.9	271.9
67.5°	1363.8	1215.5	243.1	243.1	239.0
70°	1194.9	1009.5	222.5	210.1	206.0
72.5°	1038.3	387.3	193.7	173.1	168.9
75°	844.7	177.2	160.7	140.1	136.0
77.5°	671.6	148.3	127.7	111.2	107.1
80°	498.6	115.4	94.8	82.4	78.3
82.5°	346.1	78.3	65.9	53.6	53.6
85°	197.8	49.4	41.2	33.0	33.0
87.5°	78.3	24.7	20.6	12.4	12.4
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	23.86	25.38	24.22	25.69	26.01	11.62	13.15	11.99	13.46	13.77
	3H	25.88	27.24	26.26	27.57	27.93	13.94	15.30	14.32	15.63	15.99
	4H	26.34	27.61	26.74	27.96	28.34	14.65	15.92	15.05	16.27	16.65
	6H	26.75	27.92	27.16	28.29	28.68	15.14	16.31	15.55	16.68	17.07
	8H	26.90	28.01	27.32	28.40	28.80	15.27	16.39	15.70	16.78	17.18
	12H	27.00	28.06	27.43	28.45	28.88	15.36	16.43	15.79	16.81	17.24
4H	2H	23.70	24.97	24.10	25.32	25.70	12.42	13.69	12.82	14.04	14.42
	3H	25.90	26.95	26.32	27.35	27.75	14.93	15.98	15.34	16.38	16.78
	4H	26.35	27.29	26.78	27.71	28.15	15.75	16.69	16.19	17.11	17.55
	6H	26.82	27.63	27.28	28.08	28.54	16.35	17.16	16.80	17.60	18.06
	8H	27.01	27.77	27.47	28.21	28.68	16.52	17.28	16.98	17.72	18.19
	12H	27.16	27.84	27.64	28.32	28.79	16.63	17.31	17.12	17.79	18.26
8H	4H	26.27	27.03	26.73	27.48	27.94	16.59	17.35	17.06	17.80	18.27
	6H	26.73	27.36	27.23	27.85	28.33	17.22	17.84	17.71	18.34	18.81
	8H	26.93	27.49	27.44	28.00	28.49	17.42	17.98	17.93	18.49	18.98
	12H	27.11	27.62	27.62	28.11	28.67	17.57	18.07	18.08	18.57	19.13
12H	4H	26.24	26.92	26.72	27.40	27.87	16.66	17.34	17.15	17.82	18.29
	6H	26.68	27.25	27.20	27.76	28.25	17.31	17.87	17.82	18.38	18.87
	8H	26.91	27.41	27.42	27.90	28.46	17.56	18.06	18.07	18.56	19.12