

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: P895254

Luminaire Tested: 8TMB-8SL-RFLW-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895254
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-L835
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with REFLECTOR WITH WHITE FINISH, 80CRI, 3500K
Light Source: -
Ballast/Driver: -

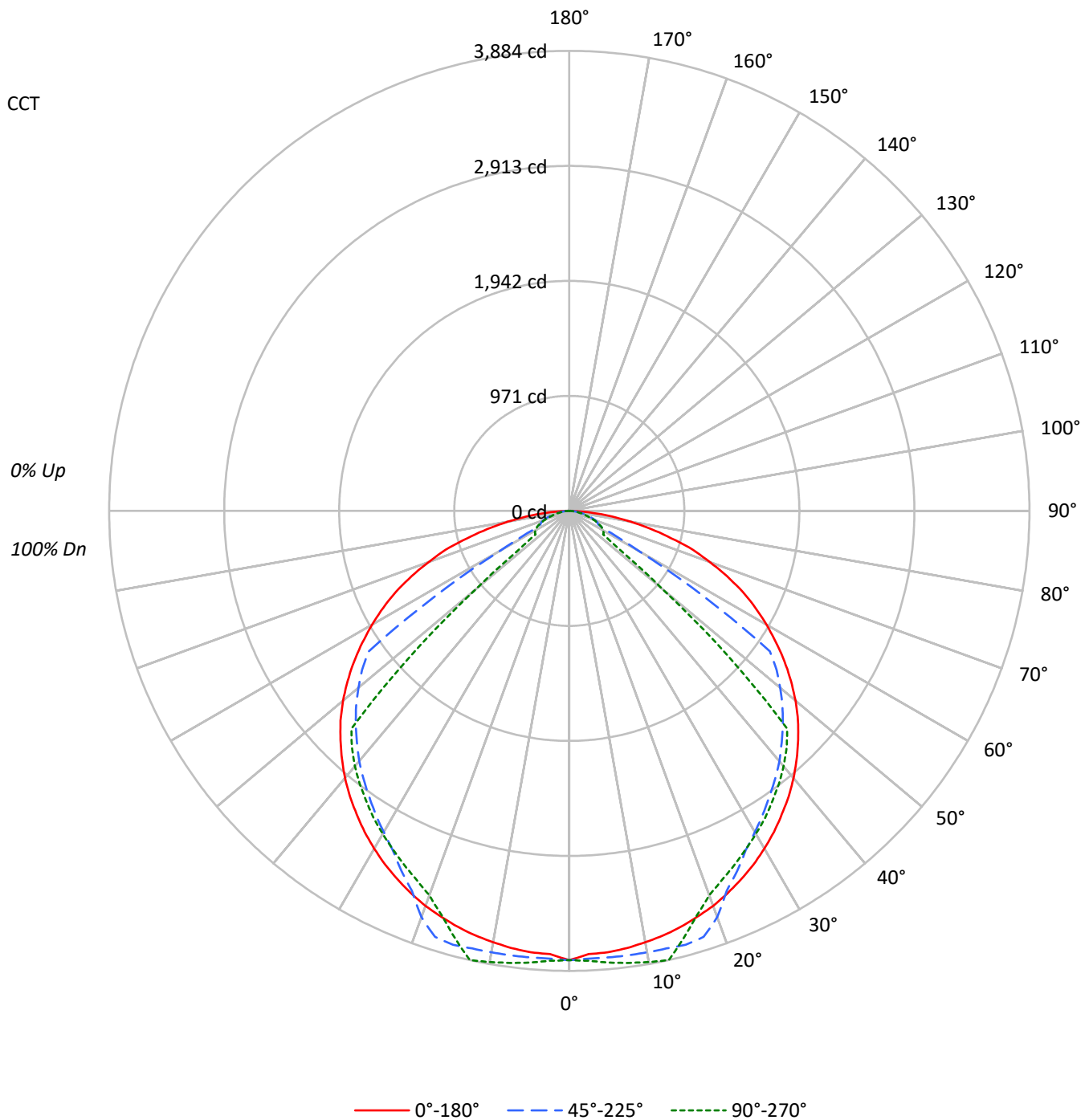
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9251.0 lumens
Efficiency: N/A
Efficacy: 155.2 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): 59.6
Input Voltage (V): 120
Input Current (A_{in}): 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°	24561	24561	24561
5°	24316	24599	24881
10°	24311	24883	25426
15°	24378	25428	25020
20°	24459	25148	23800
25°	24521	23962	23557
30°	24621	23417	23547
35°	24723	23279	23623
40°	24893	23311	23790
45°	25015	23343	23820
50°	25108	23400	10298
55°	25045	23325	3929
60°	24899	8901	4282
65°	24727	4132	4399
70°	23882	4447	4118
75°	22310	4243	3590
80°	19626	3729	3080
85°	15513	3232	2586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 25108 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.2	3.9
10°-20°	1051.8	11.4
20°-30°	1569.3	17.0
30°-40°	1902.2	20.6
40°-50°	1947.8	21.1
50°-60°	1295.3	14.0
60°-70°	738.3	8.0
70°-80°	310.1	3.4
80°-90°	73.9	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°	2983.4	32.2
0°-40°	4885.6	52.8
0°-60°	8128.6	87.9
0°-90°	9251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3793	3793	3793	3793	3793	
5°	3741	3815	3784	3793	3828	356
15°	3636	3736	3793	3780	3732	1027
25°	3432	3597	3354	3280	3297	1583
35°	3128	3184	2945	2958	2988	1959
45°	2732	2566	2549	2579	2601	2107
55°	2218	2031	2066	452	348	1981
65°	1614	1444	270	287	287	1588
75°	892	187	170	148	144	947
85°	209	52	44	35	35	250
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3793.0	3793.0	3793.0	3793.0	3793.0
2.5°	3745.1	3823.4	3784.3	3788.6	3801.7
5°	3740.8	3814.7	3784.3	3793.0	3827.8
7.5°	3723.4	3801.7	3784.3	3810.4	3849.5
10°	3697.3	3788.6	3784.3	3827.8	3866.9
12.5°	3671.2	3762.5	3784.3	3849.5	3884.3
15°	3636.4	3736.4	3793.0	3779.9	3732.1
17.5°	3592.9	3710.3	3771.2	3584.2	3579.8
20°	3549.4	3675.5	3649.4	3471.1	3453.7
22.5°	3492.8	3640.7	3471.1	3349.3	3371.1
25°	3432.0	3597.2	3353.7	3279.7	3297.1
27.5°	3366.7	3553.7	3227.5	3201.4	3223.2
30°	3292.8	3492.8	3131.8	3123.1	3149.2
32.5°	3214.5	3375.4	3040.5	3044.8	3075.3
35°	3127.5	3184.0	2944.8	2957.8	2988.3
37.5°	3040.5	3005.7	2853.4	2875.2	2905.6
40°	2944.8	2866.5	2757.7	2779.5	2814.3
42.5°	2840.4	2718.6	2653.3	2683.8	2714.2
45°	2731.6	2566.4	2549.0	2579.4	2601.1
47.5°	2618.5	2435.9	2440.2	2462.0	1844.3
50°	2492.4	2305.4	2322.8	1609.4	1022.2
52.5°	2357.6	2170.5	2205.3	896.0	517.6
55°	2218.4	2031.3	2066.1	452.4	348.0
57.5°	2070.5	1892.1	1348.4	326.2	343.6
60°	1922.6	1744.2	687.3	321.9	330.6
62.5°	1770.3	1596.4	326.2	308.8	313.2
65°	1613.8	1444.1	269.7	287.1	287.1
67.5°	1439.8	1283.2	256.6	256.6	252.3
70°	1261.4	1065.7	234.9	221.8	217.5
72.5°	1096.1	408.9	204.4	182.7	178.3
75°	891.7	187.0	169.6	147.9	143.5
77.5°	709.0	156.6	134.8	117.4	113.1
80°	526.3	121.8	100.0	87.0	82.6
82.5°	365.4	82.6	69.6	56.5	56.5
85°	208.8	52.2	43.5	34.8	34.8
87.5°	82.6	26.1	21.7	13.0	13.0
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	24.05	25.57	24.41	25.88	26.20	11.81	13.33	12.18	13.65	13.96
	3H	26.07	27.43	26.45	27.75	28.12	14.13	15.49	14.51	15.81	16.18
	4H	26.53	27.80	26.93	28.15	28.53	14.84	16.11	15.24	16.46	16.84
	6H	26.94	28.11	27.35	28.48	28.87	15.32	16.50	15.74	16.86	17.26
	8H	27.09	28.20	27.51	28.59	28.99	15.46	16.58	15.89	16.97	17.37
	12H	27.18	28.25	27.62	28.63	29.06	15.55	16.62	15.98	17.00	17.43
4H	2H	23.89	25.16	24.29	25.51	25.89	12.61	13.88	13.01	14.23	14.61
	3H	26.09	27.14	26.50	27.54	27.94	15.12	16.17	15.53	16.57	16.97
	4H	26.54	27.48	26.97	27.89	28.33	15.94	16.88	16.38	17.30	17.74
	6H	27.01	27.82	27.46	28.26	28.72	16.53	17.35	16.99	17.79	18.25
	8H	27.20	27.96	27.66	28.40	28.87	16.70	17.46	17.17	17.91	18.38
	12H	27.35	28.03	27.83	28.51	28.98	16.82	17.50	17.30	17.98	18.45
8H	4H	26.46	27.22	26.92	27.66	28.13	16.78	17.54	17.24	17.99	18.45
	6H	26.92	27.55	27.42	28.04	28.52	17.40	18.03	17.90	18.52	19.00
	8H	27.12	27.68	27.63	28.19	28.68	17.60	18.17	18.12	18.68	19.17
	12H	27.30	27.80	27.81	28.30	28.86	17.76	18.26	18.27	18.75	19.32
12H	4H	26.43	27.11	26.91	27.59	28.06	16.85	17.53	17.33	18.01	18.48
	6H	26.87	27.44	27.39	27.95	28.44	17.50	18.06	18.01	18.57	19.06
	8H	27.09	27.60	27.60	28.09	28.65	17.75	18.25	18.26	18.74	19.31