

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: P894398

Luminaire Tested: 8TMB-10SL-LVR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-8)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-10SL-LVR-UNV-L835
Description: 10000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

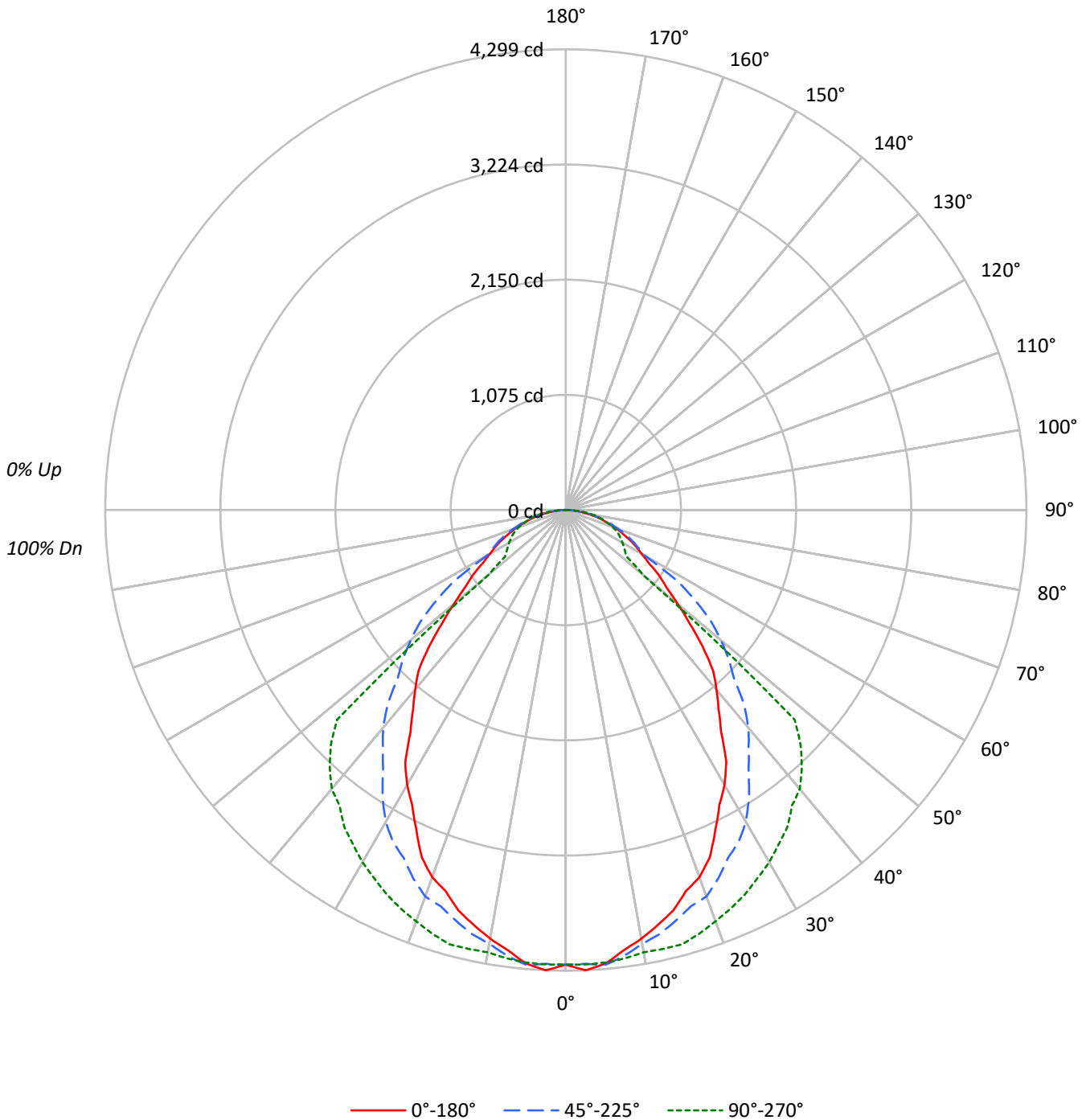
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9053.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.32 / 1.27
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): 120
Input Current (A_{in}): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15052	15052	15052
5°	15133	15171	15094
10°	14636	14808	15097
15°	14214	14572	15408
20°	13768	14488	15421
25°	12918	14021	15489
30°	12135	13768	15552
35°	10943	12876	15625
40°	10136	12283	15735
45°	9067	11133	15557
50°	7523	10429	5226
55°	6554	9154	4182
60°	5796	5966	4336
65°	5512	5803	4602
70°	5169	5485	4855
75°	4812	5168	4990
80°	4383	4869	5225
85°	3880	4144	5647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 15557 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.4	4.4
10°-20°	1132.0	12.5
20°-30°	1665.1	18.4
30°-40°	1904.3	21.0
40°-50°	1803.2	19.9
50°-60°	993.5	11.0
60°-70°	637.9	7.0
70°-80°	393.7	4.3
80°-90°	121.2	1.3
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°	3199.5	35.3
0°-40°	5103.7	56.4
0°-60°	7900.3	87.3
0°-90°	9053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9053.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4242	4242	4242	4242	4242	
5°	4249	4283	4260	4260	4238	398
15°	3870	3917	3967	4175	4195	1086
25°	3300	3447	3581	3815	3956	1520
35°	2526	2743	2973	3404	3607	1597
45°	1807	1978	2219	2847	3100	1382
55°	1060	1112	1480	763	676	947
65°	656	678	691	615	548	650
75°	351	358	377	396	364	373
85°	95	95	102	117	139	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4242.3	4242.3	4242.3	4242.3	4242.3
2.5°	4298.6	4309.4	4240.1	4237.9	4244.4
5°	4248.8	4283.4	4259.6	4259.6	4237.9
7.5°	4142.6	4201.1	4194.6	4244.4	4220.6
10°	4062.4	4110.1	4110.1	4240.1	4190.3
12.5°	3967.1	4021.3	4051.6	4188.1	4194.6
15°	3869.6	3917.3	3967.1	4175.1	4194.6
17.5°	3728.8	3815.4	3878.3	4081.9	4144.8
20°	3646.4	3698.4	3837.1	4001.8	4084.1
22.5°	3509.9	3585.8	3720.1	3904.3	4025.6
25°	3299.8	3447.1	3581.4	3815.4	3956.3
27.5°	3104.8	3215.3	3492.6	3739.6	3873.9
30°	2961.8	3048.4	3360.4	3629.1	3795.9
32.5°	2788.4	2929.3	3182.8	3520.8	3698.4
35°	2526.3	2742.9	2972.6	3403.8	3607.4
37.5°	2342.1	2491.6	2803.6	3282.4	3470.9
40°	2188.3	2324.8	2651.9	3130.8	3397.3
42.5°	2034.5	2145.0	2461.3	3018.1	3260.8
45°	1807.0	1978.1	2218.6	2846.9	3100.4
47.5°	1568.6	1750.6	2060.5	2701.8	2896.8
50°	1362.8	1508.0	1889.3	2413.6	946.8
52.5°	1183.0	1317.3	1707.3	873.1	715.0
55°	1059.5	1111.5	1479.8	762.7	676.0
57.5°	912.1	996.6	1241.5	725.8	641.3
60°	816.8	853.7	840.7	689.0	611.0
62.5°	741.0	767.0	762.7	652.2	576.3
65°	656.5	678.2	691.2	615.3	548.2
67.5°	572.0	591.5	611.0	569.8	509.2
70°	498.3	511.3	528.7	515.7	468.0
72.5°	422.5	437.7	448.5	459.3	413.8
75°	351.0	357.5	377.0	396.5	364.0
77.5°	286.0	292.5	305.5	327.2	309.8
80°	214.5	221.0	238.3	255.7	255.7
82.5°	151.7	156.0	166.8	190.7	201.5
85°	95.3	95.3	101.8	117.0	138.7
87.5°	36.8	36.8	43.3	52.0	69.3
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	17.37	18.85	17.74	19.17	19.48	15.17	16.66	15.54	16.97	17.28
	3H	18.90	20.22	19.28	20.55	20.91	17.50	18.83	17.88	19.16	19.52
	4H	19.49	20.73	19.89	21.08	21.46	18.45	19.70	18.85	20.05	20.43
	6H	19.95	21.09	20.36	21.46	21.85	19.24	20.39	19.65	20.75	21.15
	8H	20.09	21.18	20.52	21.57	21.97	19.55	20.64	19.98	21.03	21.43
	12H	20.19	21.23	20.62	21.61	22.04	19.80	20.84	20.23	21.23	21.65
4H	2H	17.92	19.16	18.32	19.51	19.89	16.28	17.52	16.68	17.87	18.25
	3H	19.69	20.72	20.10	21.12	21.52	18.72	19.75	19.13	20.15	20.55
	4H	20.41	21.34	20.85	21.76	22.19	19.79	20.71	20.22	21.13	21.57
	6H	21.00	21.80	21.46	22.25	22.71	20.68	21.48	21.14	21.93	22.39
	8H	21.19	21.94	21.65	22.39	22.85	21.03	21.78	21.49	22.23	22.69
	12H	21.33	22.00	21.81	22.48	22.95	21.32	21.99	21.80	22.47	22.94
8H	4H	20.72	21.47	21.18	21.92	22.39	20.18	20.93	20.64	21.37	21.84
	6H	21.43	22.06	21.93	22.55	23.03	21.21	21.84	21.71	22.33	22.81
	8H	21.69	22.26	22.21	22.77	23.25	21.66	22.22	22.17	22.73	23.22
	12H	21.90	22.40	22.41	22.89	23.46	22.04	22.54	22.55	23.03	23.60
12H	4H	20.76	21.43	21.24	21.91	22.38	20.21	20.88	20.69	21.36	21.83
	6H	21.50	22.06	22.01	22.57	23.06	21.28	21.84	21.79	22.35	22.84
	8H	21.82	22.32	22.33	22.81	23.37	21.78	22.28	22.29	22.78	23.34