

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: P895230

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895230
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-8SL-LVR-UNV-L835
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

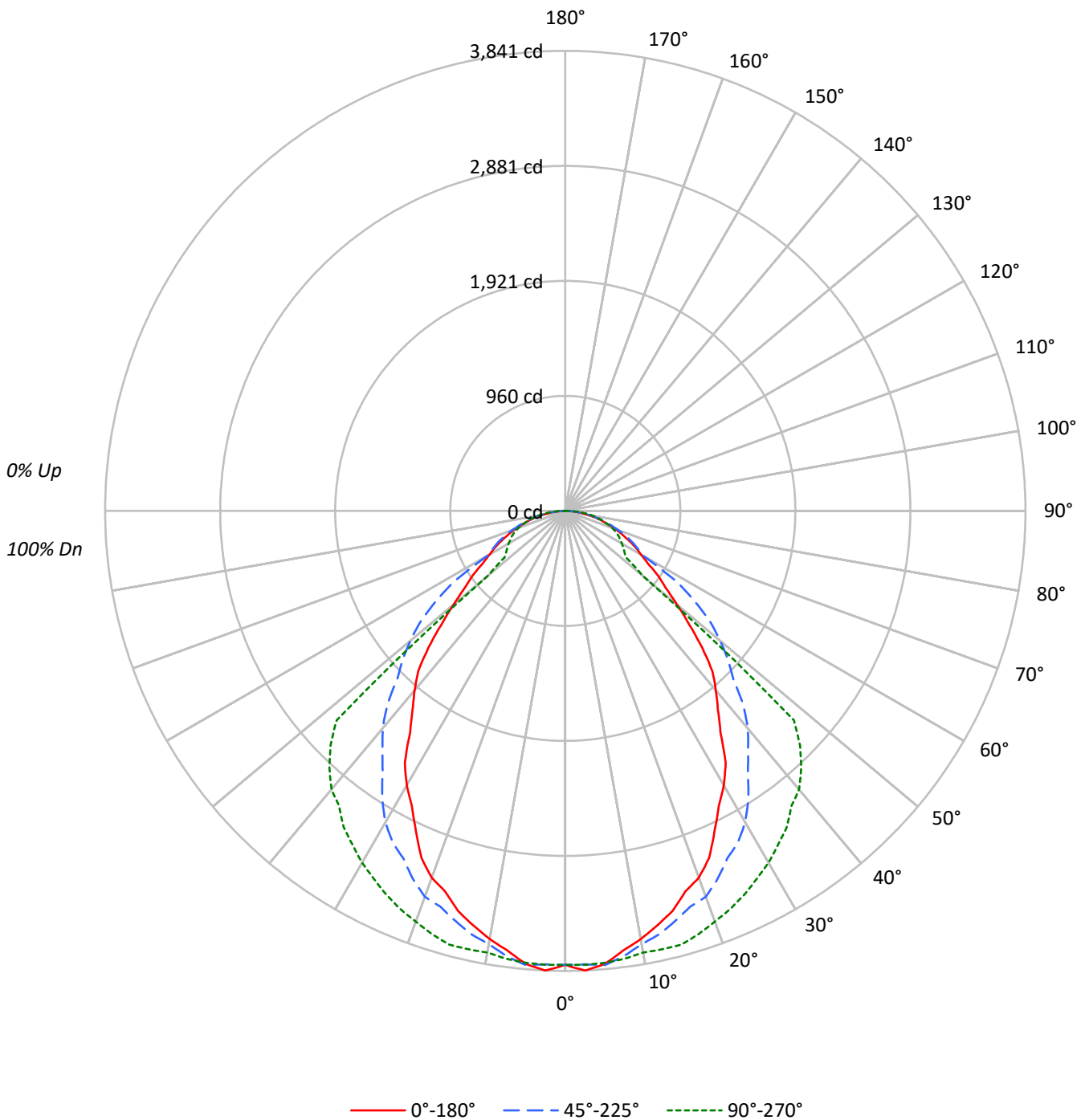
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8090.0 lumens
Efficiency: N/A
Efficacy: 135.7 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): 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	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	61	70	64	60	68	63	59	59	59	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	57	52	52	52	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13451	13451	13451
5°	13523	13558	13488
10°	13080	13233	13491
15°	12702	13022	13769
20°	12304	12947	13780
25°	11544	12530	13841
30°	10844	12303	13898
35°	9779	11506	13963
40°	9057	10977	14062
45°	8103	9948	13902
50°	6722	9319	4670
55°	5857	8180	3737
60°	5180	5331	3875
65°	4926	5185	4112
70°	4620	4901	4338
75°	4300	4619	4460
80°	3917	4352	4669
85°	3469	3705	5044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13902 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	4.4
10°-20°	1011.6	12.5
20°-30°	1488.0	18.4
30°-40°	1701.7	21.0
40°-50°	1611.3	19.9
50°-60°	887.8	11.0
60°-70°	570.0	7.0
70°-80°	351.8	4.3
80°-90°	108.3	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°	2859.1	35.3
0°-40°	4560.8	56.4
0°-60°	7060.0	87.3
0°-90°	8090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3791	3791	3791	3791	3791	
5°	3797	3828	3806	3806	3787	356
15°	3458	3501	3545	3731	3748	971
25°	2949	3080	3200	3410	3535	1358
35°	2258	2451	2656	3042	3224	1427
45°	1615	1768	1983	2544	2771	1235
55°	947	993	1322	682	604	847
65°	587	606	618	550	490	581
75°	314	320	337	354	325	334
85°	85	85	91	105	124	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3791.0	3791.0	3791.0	3791.0	3791.0
2.5°	3841.3	3851.0	3789.1	3787.1	3792.9
5°	3796.8	3827.8	3806.5	3806.5	3787.1
7.5°	3701.9	3754.2	3748.4	3792.9	3771.6
10°	3630.3	3672.9	3672.9	3789.1	3744.5
12.5°	3545.1	3593.5	3620.6	3742.6	3748.4
15°	3458.0	3500.6	3545.1	3731.0	3748.4
17.5°	3332.1	3409.6	3465.7	3647.7	3703.9
20°	3258.5	3305.0	3428.9	3576.1	3649.6
22.5°	3136.6	3204.3	3324.4	3488.9	3597.4
25°	2948.8	3080.4	3200.5	3409.6	3535.4
27.5°	2774.5	2873.3	3121.1	3341.8	3461.8
30°	2646.7	2724.2	3003.0	3243.1	3392.1
32.5°	2491.8	2617.7	2844.2	3146.2	3305.0
35°	2257.6	2451.2	2656.4	3041.7	3223.7
37.5°	2093.0	2226.6	2505.4	2933.3	3101.7
40°	1955.5	2077.5	2369.9	2797.7	3035.9
42.5°	1818.0	1916.8	2199.5	2697.1	2913.9
45°	1614.8	1767.7	1982.6	2544.1	2770.6
47.5°	1401.8	1564.4	1841.3	2414.4	2588.6
50°	1217.8	1347.6	1688.3	2156.9	846.1
52.5°	1057.1	1177.2	1525.7	780.3	638.9
55°	946.8	993.2	1322.4	681.5	604.1
57.5°	815.1	890.6	1109.4	648.6	573.1
60°	729.9	762.8	751.2	615.7	546.0
62.5°	662.2	685.4	681.5	582.8	515.0
65°	586.7	606.0	617.6	549.9	489.8
67.5°	511.1	528.6	546.0	509.2	455.0
70°	445.3	456.9	472.4	460.8	418.2
72.5°	377.5	391.1	400.8	410.5	369.8
75°	313.7	319.5	336.9	354.3	325.3
77.5°	255.6	261.4	273.0	292.4	276.9
80°	191.7	197.5	213.0	228.5	228.5
82.5°	135.5	139.4	149.1	170.4	180.1
85°	85.2	85.2	91.0	104.6	123.9
87.5°	32.9	32.9	38.7	46.5	62.0
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	16.98	18.46	17.35	18.78	19.09	14.78	16.26	15.15	16.58	16.89
	3H	18.51	19.83	18.88	20.16	20.52	17.11	18.44	17.49	18.77	19.13
	4H	19.10	20.34	19.50	20.69	21.07	18.06	19.31	18.46	19.65	20.03
	6H	19.56	20.70	19.97	21.07	21.46	18.85	19.99	19.26	20.36	20.75
	8H	19.70	20.79	20.13	21.18	21.58	19.16	20.25	19.59	20.64	21.04
	12H	19.80	20.84	20.23	21.22	21.65	19.41	20.45	19.84	20.83	21.26
4H	2H	17.53	18.77	17.93	19.12	19.50	15.89	17.13	16.29	17.48	17.86
	3H	19.30	20.33	19.71	20.73	21.13	18.33	19.36	18.74	19.76	20.16
	4H	20.02	20.95	20.46	21.36	21.80	19.40	20.32	19.83	20.74	21.18
	6H	20.61	21.41	21.07	21.86	22.32	20.29	21.09	20.75	21.54	22.00
	8H	20.80	21.55	21.26	21.99	22.46	20.64	21.39	21.10	21.84	22.30
	12H	20.93	21.61	21.42	22.09	22.56	20.93	21.60	21.41	22.08	22.55
8H	4H	20.33	21.08	20.79	21.53	22.00	19.78	20.54	20.25	20.98	21.45
	6H	21.04	21.67	21.54	22.16	22.64	20.82	21.45	21.32	21.94	22.42
	8H	21.30	21.86	21.82	22.37	22.86	21.27	21.83	21.78	22.34	22.83
	12H	21.51	22.01	22.02	22.50	23.07	21.65	22.15	22.16	22.64	23.21
12H	4H	20.37	21.04	20.85	21.52	21.99	19.82	20.49	20.30	20.97	21.44
	6H	21.11	21.67	21.62	22.18	22.67	20.88	21.45	21.40	21.96	22.45
	8H	21.43	21.92	21.94	22.42	22.98	21.39	21.89	21.90	22.38	22.95