

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: P895246

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P895246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-8SL-LVRF-UNV-L835
Description: 8000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K C
Light Source: -
Ballast/Driver: -

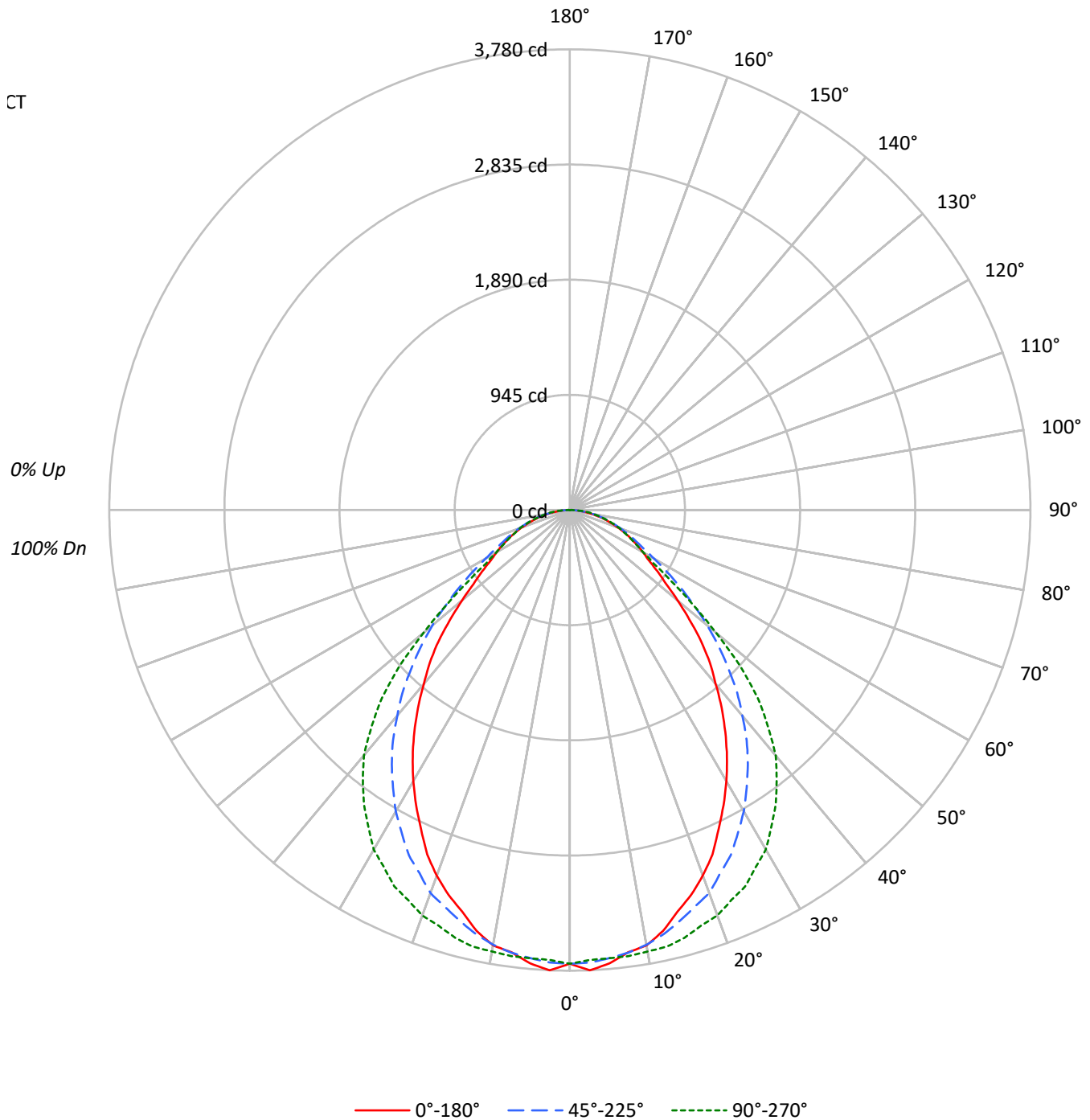
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7736.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.27 / 1.23
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	70	80	74	69	77	72	68	75	71	67	67	67	67	65
4	87	76	68	62	84	74	67	61	72	66	60	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	56	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	44	39	49	43	38	48	42	38	38	38	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	35	35	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13207	13207	13207
5°	13299	13147	13147
10°	13069	13048	13250
15°	12528	12819	13346
20°	12052	12629	13368
25°	11306	12238	13337
30°	10524	11697	13180
35°	9633	11034	12761
40°	8625	10202	12175
45°	7654	9237	10946
50°	6368	8131	8633
55°	5424	6849	6274
60°	4918	5659	4959
65°	4632	4957	4615
70°	4357	4599	4498
75°	4061	4379	4299
80°	3717	4033	4152
85°	3232	3546	4649

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10946 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	4.6
10°-20°	991.6	12.8
20°-30°	1440.1	18.6
30°-40°	1603.6	20.7
40°-50°	1416.7	18.3
50°-60°	929.6	12.0
60°-70°	569.2	7.4
70°-80°	331.2	4.3
80°-90°	101.5	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°	2784.1	36.0
0°-40°	4387.7	56.7
0°-60°	6734.0	87.0
0°-90°	7736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3722	3722	3722	3722	3722	
5°	3734	3736	3691	3728	3691	352
15°	3411	3449	3490	3627	3633	962
25°	2888	2958	3126	3325	3407	1329
35°	2224	2344	2547	2816	2946	1387
45°	1525	1618	1841	2088	2182	1167
55°	877	939	1107	1098	1014	795
65°	552	561	590	573	550	549
75°	296	300	319	325	314	314
85°	79	83	87	99	114	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3722.2	3722.2	3722.2	3722.2	3722.2
2.5°	3780.3	3733.8	3716.4	3733.8	3695.1
5°	3733.8	3735.8	3691.2	3728.0	3691.2
7.5°	3660.3	3685.4	3664.1	3720.3	3691.2
10°	3627.4	3629.3	3621.6	3679.6	3677.7
12.5°	3536.4	3542.2	3563.5	3650.6	3669.9
15°	3410.6	3449.3	3489.9	3627.4	3633.2
17.5°	3311.9	3358.3	3412.5	3559.6	3577.0
20°	3191.8	3211.2	3344.8	3474.4	3540.3
22.5°	3058.3	3095.1	3224.8	3399.0	3464.8
25°	2888.0	2957.6	3126.0	3325.4	3406.7
27.5°	2731.2	2812.5	2986.7	3209.3	3304.1
30°	2568.6	2661.5	2855.0	3073.8	3217.0
32.5°	2400.2	2516.3	2700.2	2951.8	3077.6
35°	2224.0	2344.0	2547.3	2816.3	2946.0
37.5°	2047.9	2164.0	2384.7	2673.1	2789.2
40°	1862.1	1976.3	2202.7	2495.0	2628.6
42.5°	1701.4	1800.1	2032.4	2282.1	2406.0
45°	1525.3	1618.2	1840.8	2088.5	2181.5
47.5°	1331.7	1440.1	1656.9	1860.1	1896.9
50°	1153.6	1265.9	1473.0	1591.1	1564.0
52.5°	996.8	1091.7	1281.4	1331.7	1267.8
55°	876.8	938.8	1107.2	1097.5	1014.3
57.5°	766.5	805.2	948.5	894.3	814.9
60°	693.0	710.4	797.5	747.2	698.8
62.5°	623.3	631.0	677.5	650.4	613.6
65°	551.7	561.3	590.4	572.9	549.7
67.5°	485.8	489.7	516.8	512.9	483.9
70°	420.0	425.8	443.3	451.0	433.6
72.5°	356.2	362.0	379.4	387.1	371.6
75°	296.2	300.0	319.4	325.2	313.6
77.5°	238.1	245.8	257.4	267.1	253.6
80°	181.9	185.8	197.4	209.0	203.2
82.5°	127.8	133.6	141.3	156.8	160.7
85°	79.4	83.2	87.1	98.7	114.2
87.5°	31.0	32.9	38.7	42.6	56.1
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	16.50	17.98	16.86	18.29	18.60	17.15	18.63	17.51	18.94	19.26
	3H	18.10	19.42	18.47	19.75	20.11	18.58	19.91	18.96	20.24	20.60
	4H	18.71	19.96	19.11	20.31	20.68	19.19	20.43	19.59	20.78	21.16
	6H	19.18	20.33	19.60	20.70	21.09	19.68	20.82	20.09	21.19	21.58
	8H	19.34	20.43	19.76	20.82	21.22	19.87	20.96	20.30	21.35	21.76
	12H	19.44	20.48	19.87	20.86	21.29	20.04	21.08	20.47	21.47	21.90
4H	2H	17.12	18.36	17.52	18.71	19.09	17.64	18.88	18.04	19.23	19.61
	3H	18.94	19.97	19.35	20.37	20.77	19.34	20.37	19.75	20.77	21.17
	4H	19.68	20.60	20.11	21.02	21.46	20.09	21.02	20.53	21.43	21.87
	6H	20.27	21.08	20.73	21.52	21.98	20.73	21.53	21.19	21.98	22.44
	8H	20.47	21.22	20.94	21.67	22.14	20.98	21.74	21.45	22.18	22.65
	12H	20.61	21.29	21.10	21.76	22.24	21.21	21.88	21.69	22.36	22.83
8H	4H	19.99	20.75	20.46	21.19	21.66	20.36	21.12	20.83	21.56	22.03
	6H	20.72	21.34	21.22	21.83	22.31	21.14	21.76	21.63	22.25	22.73
	8H	20.99	21.55	21.51	22.06	22.55	21.48	22.04	22.00	22.55	23.04
	12H	21.21	21.71	21.72	22.20	22.77	21.80	22.30	22.31	22.79	23.35
12H	4H	20.03	20.70	20.51	21.18	21.65	20.38	21.05	20.87	21.53	22.00
	6H	20.78	21.34	21.30	21.86	22.34	21.18	21.74	21.70	22.25	22.74
	8H	21.12	21.61	21.63	22.11	22.67	21.59	22.09	22.10	22.58	23.14