

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: P894622

Luminaire Tested: 8TMB-14HL-LVRF-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P894622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2407-175-5)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 8TMB-14HL-LVRF-UNV-L835
Description: 14000 Lumen 8FT MICROBAY LINEAR BAY with LOUVER WITH FROSTED INLAY, 80CRI, 3500K (C)
Light Source: -
Ballast/Driver: -

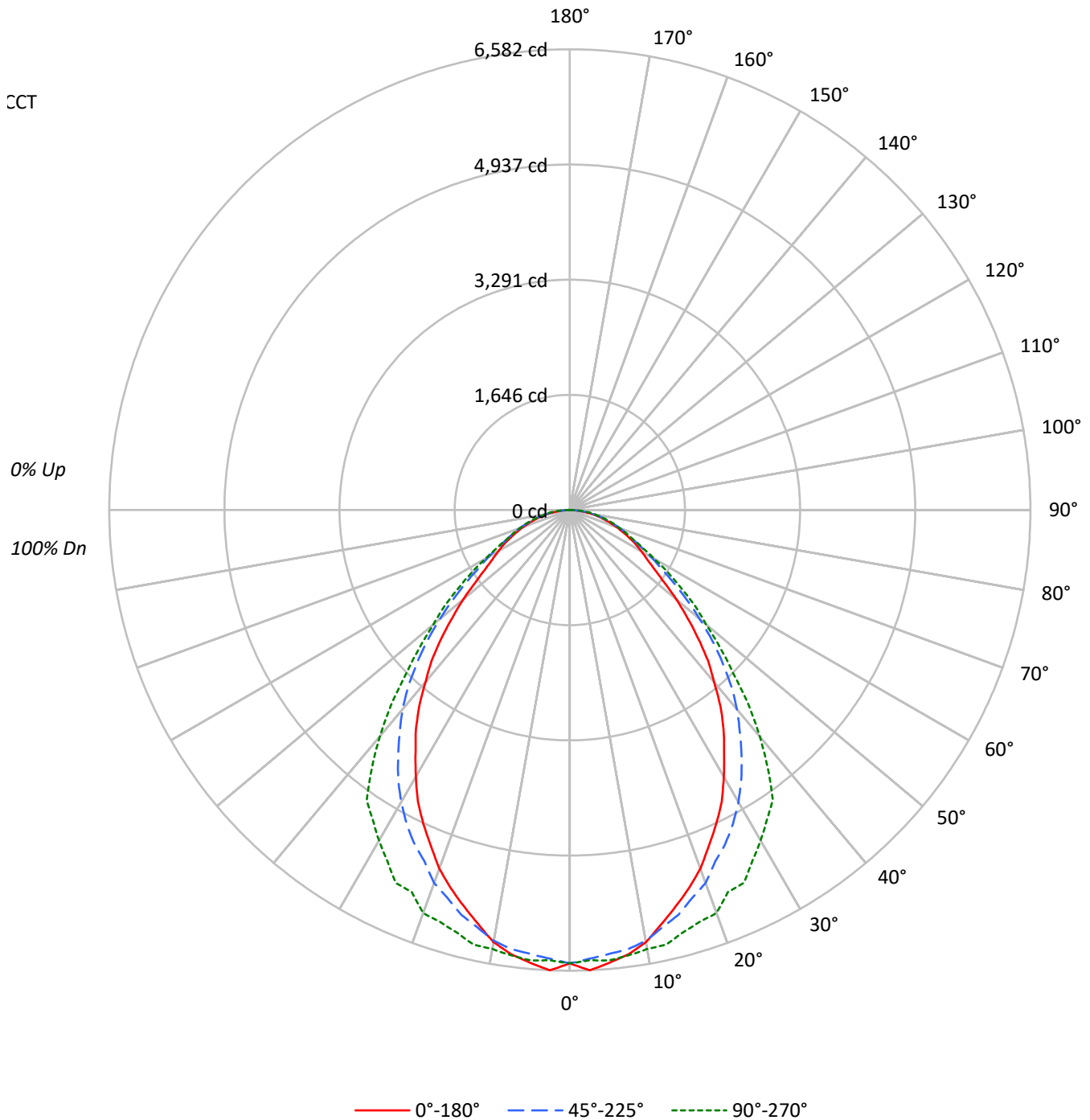
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13130.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.25 / 1.21
Luminous Opening: Rectangular (W 0.38' x L: 7.98' x H: 0')
CIE Type: Direct

Input Watts (W): 103.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 5.03
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	78	83	80	77	77	77	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	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	57	51	47	47	47	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	64	52	44	39	50	44	39	49	43	39	48	43	38	38	38	38	37
9	61	48	41	36	60	48	40	35	47	40	35	46	40	35	45	39	35	35	35	35	33
10	57	45	37	33	56	44	37	32	43	37	32	43	36	32	42	36	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22977	22977	22977
5°	23126	22678	23002
10°	22585	22515	22947
15°	21519	21995	22948
20°	20584	21410	23135
25°	19380	20592	23017
30°	18029	19734	22343
35°	16603	18524	21911
40°	14849	17216	19565
45°	13017	15484	16592
50°	10985	13379	14042
55°	9113	11197	11975
60°	8380	9520	9877
65°	7851	8370	8435
70°	7311	7933	7873
75°	6820	7404	7670
80°	6369	6884	7358
85°	5357	5834	8118

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 16592 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.2	4.7
10°-20°	1705.0	13.0
20°-30°	2455.4	18.7
30°-40°	2710.8	20.6
40°-50°	2326.0	17.7
50°-60°	1584.6	12.1
60°-70°	996.9	7.6
70°-80°	567.6	4.3
80°-90°	172.5	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°	4771.6	36.3
0°-40°	7482.4	57.0
0°-60°	11393.1	86.8
0°-90°	13130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6476	6476	6476	6476	6476	
5°	6493	6468	6367	6501	6458	613
15°	5858	5920	5988	6259	6247	1649
25°	4950	5049	5260	5684	5879	2273
35°	3833	3982	4276	4743	5059	2384
45°	2594	2766	3086	3272	3307	1999
55°	1473	1564	1810	1897	1936	1354
65°	935	950	997	1045	1005	929
75°	498	501	540	563	560	530
85°	132	136	143	170	199	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6475.7	6475.7	6475.7	6475.7	6475.7
2.5°	6582.2	6514.4	6417.6	6510.5	6438.9
5°	6493.1	6467.9	6367.3	6500.8	6458.3
7.5°	6402.1	6347.9	6330.5	6473.7	6417.6
10°	6268.5	6237.6	6249.2	6433.1	6369.2
12.5°	6057.5	6078.8	6105.9	6340.2	6359.5
15°	5858.1	5920.1	5987.8	6258.9	6247.2
17.5°	5662.6	5747.8	5811.7	6160.1	6169.8
20°	5451.6	5500.0	5670.3	6007.2	6127.2
22.5°	5190.2	5285.1	5432.2	5852.3	5906.5
25°	4950.2	5048.9	5259.9	5683.9	5879.4
27.5°	4698.5	4789.5	5050.8	5484.5	5651.0
30°	4400.4	4522.3	4816.6	5258.0	5453.5
32.5°	4102.2	4280.3	4563.0	5016.0	5242.5
35°	3833.1	3982.2	4276.5	4743.0	5058.6
37.5°	3535.0	3691.8	3989.9	4444.9	4646.2
40°	3205.9	3374.3	3717.0	4084.8	4224.2
42.5°	2923.2	3068.4	3413.0	3672.5	3782.8
45°	2594.1	2766.4	3085.9	3271.7	3306.6
47.5°	2276.6	2474.1	2760.6	2847.7	2915.5
50°	1990.1	2145.0	2423.8	2478.0	2543.8
52.5°	1697.8	1862.4	2106.3	2160.5	2257.3
55°	1473.2	1564.2	1810.1	1897.2	1935.9
57.5°	1308.7	1366.8	1541.0	1651.3	1663.0
60°	1180.9	1210.0	1341.6	1424.8	1391.9
62.5°	1062.8	1086.1	1151.9	1215.8	1173.2
65°	935.1	950.5	997.0	1045.4	1004.7
67.5°	815.0	832.4	875.0	909.9	875.0
70°	704.7	718.2	764.7	780.2	758.9
72.5°	602.1	607.9	646.6	673.7	660.2
75°	497.5	501.4	540.1	563.4	559.5
77.5°	402.7	408.5	441.4	462.7	451.1
80°	311.7	315.6	336.9	367.8	360.1
82.5°	218.8	226.5	240.1	267.2	288.5
85°	131.6	135.5	143.3	170.4	199.4
87.5°	50.3	54.2	58.1	71.6	94.9
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	18.35	19.82	18.71	20.14	20.45	19.71	21.18	20.07	21.50	21.81
	3H	19.92	21.25	20.30	21.58	21.94	20.99	22.32	21.37	22.64	23.01
	4H	20.53	21.77	20.93	22.12	22.50	21.55	22.79	21.95	23.14	23.52
	6H	21.00	22.15	21.41	22.51	22.91	22.00	23.14	22.41	23.51	23.90
	8H	21.16	22.25	21.58	22.64	23.04	22.18	23.27	22.61	23.66	24.07
	12H	21.25	22.30	21.69	22.68	23.11	22.34	23.38	22.77	23.77	24.19
4H	2H	18.96	20.20	19.36	20.55	20.93	20.07	21.31	20.47	21.66	22.04
	3H	20.76	21.79	21.17	22.19	22.59	21.63	22.66	22.04	23.06	23.46
	4H	21.49	22.41	21.92	22.83	23.27	22.33	23.26	22.77	23.67	24.11
	6H	22.08	22.89	22.54	23.33	23.79	22.94	23.75	23.40	24.19	24.65
	8H	22.28	23.04	22.75	23.48	23.95	23.19	23.94	23.65	24.39	24.85
	12H	22.42	23.10	22.91	23.58	24.05	23.40	24.07	23.89	24.55	25.03
8H	4H	21.81	22.56	22.28	23.01	23.48	22.57	23.32	23.03	23.76	24.23
	6H	22.54	23.16	23.03	23.65	24.13	23.31	23.93	23.81	24.42	24.90
	8H	22.81	23.37	23.33	23.88	24.37	23.64	24.20	24.16	24.71	25.20
	12H	23.02	23.52	23.54	24.01	24.58	23.95	24.44	24.46	24.94	25.50
12H	4H	21.85	22.52	22.33	23.00	23.47	22.58	23.25	23.06	23.73	24.20
	6H	22.60	23.16	23.12	23.68	24.16	23.35	23.91	23.86	24.42	24.91
	8H	22.94	23.44	23.45	23.93	24.49	23.74	24.23	24.25	24.72	25.29